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 : OCEAN COUNTY LANDFILL 2024**

**TETRA TECH**

**100 Crystal Run Road**

**Suite 101**

**Middletown, NY - 10941**

**Phone No: 845-695-0229**

**ORDER ID : P4860**

**ATTENTION : John Giuliano**

**Laboratory Certification ID # 20012**

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# DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : CHEMTECH

Client : Tetra Tech

Project Location : Manchester, NJ

Project Number : 209-4243256

Laboratory Sample ID(s) : P4860

Sampling Date(s) : 11/14/2024

List DKQP Methods Used (e.g., 8260,8270, et Cetra) **,6010D,7196A,7471B,8081B,8082A,8260D,8270E,9012B,9045D,NJEPH,SMO**

| | | |
|---|---|---|
| 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?<br><br>b)Were these reporting limits met? | ☑ Yes ☐ No<br><br>☑ 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 :** P4860

**Project ID :** Ocean County Landfill 2024

**Client :** Tetra Tech

| Lab Sample Number | Client Sample Number |
|---|---|
| P4860-01 | DUP-01 |
| P4860-02 | PH2-BOT-001 |
| P4860-03 | PH2-BOT-002 |
| P4860-04 | PH2-BOT-003 |
| P4860-05 | PH2-BOT-004 |
| P4860-06 | PH2-BOT-009 |
| P4860-07 | PH2-BOT-008 |
| P4860-08 | PH2-BOT-007 |
| P4860-09 | PH2-BOT-006 |
| P4860-10 | PH2-BOT-005 |

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

Signature : _____

Date: 11/27/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**Tetra Tech**
**Project Name: Ocean County Landfill 2024**
**Project # N/A**
**Chemtech Project # P4860**
**Test Name: VOC-TCLVOA-10**

**A. Number of Samples and Date of Receipt:**
10 Solid samples were received on 11/14/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, PCB, Pesticide-TCL, pH, SVOC-TCL BNA -20, TCL+30/TAL and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

**C. Analytical Techniques:**
The analysis performed on instrument MSVOA_D were done using GC column RTX-VMS which is 20 meters, 0.18 mm id, 1.0 um df, Restek Cat. #49914. The Trap was supplied by SUPELCO, K (VOACARB 3000) , TEKMAR LSC-2000 Concentrator.The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624Sil MS, which is 30 meters, 0.25 mm id, 1.4 um df, Restek Cat. #13868. The Trap was supplied by Supelco, VOCARB 3000, ATOMAX XYZ Concentrator.The analysis of VOC-TCLVOA-10 was based on method 8260D.

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

The Surrogate recoveries met the acceptable criteria except for PH2-BOT-003 [4-Bromofluorobenzene - 61%, Toluene-d8 - 68%], PH2-BOT-004 [4-Bromofluorobenzene - 61% and Toluene-d8 - 64%]these compounds did not meet the NJDKQP criteria but met the in-house criteria.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82D111524S.M) for Bromomethane this compound is passing on Quadratic Regression.

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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 VD080058.D met the requirements except for 1,2,4-Trichlorobenzene,2-Hexanone,4-Methyl-2-Pentanone and Acetone failing high but no positive hit in associated samples 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 <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

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

---

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# CASE NARRATIVE

**Tetra Tech**
**Project Name: Ocean County Landfill 2024**
**Project # N/A**
**Chemtech Project # P4860**
**Test Name: SVOC-TCL BNA -20**

**A. Number of Samples and Date of Receipt:**
10 Solid samples were received on 11/14/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, PCB, Pesticide-TCL, pH, SVOC-TCL BNA -20, TCL+30/TAL 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 3541.

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS {P4860-09MS} with File ID: BF140639.D recoveries met the requirements for all compounds except for 3,3-Dichlorobenzidine[65%], 3-Nitroaniline[55%], 4-Chloroaniline[40%] and Benzaldehyde[12%] these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The MSD {P4860-09MSD} with File ID: BF140640.D recoveries met the acceptable requirements except for 3-Nitroaniline[57%], 4-Chloroaniline[40%] and Benzaldehyde[12%] these compounds did not meet the NJDKQP criteria but met the in-house criteria .
The RPD met criteria .

The Blank Spike for {PB165029BS} with File ID: BF140445.D met requirements for all samples except for 3,3-Dichlorobenzidine[55%], 3-Nitroaniline[54%], 4-Chloroaniline[48%], Benzaldehyde[11%] these compounds did not meet the NJDKQP criteria but met the in-house criteria while Hexachlorocyclopentadiene[173%] this compound did not meet the NJDKQP criteria and in-house criteria, is failing high but no positive hit in associate sample therefore no corrective action taken.

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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 met the requirements .
The Tuning criteria met requirements.

**E. Additional Comments:**
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The soil samples results are based on a dry weight basis.

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

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

---

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# CASE NARRATIVE

**Tetra Tech**
**Project Name: Ocean County Landfill 2024**
**Project # N/A**
**Chemtech Project # P4860**
**Test Name: Pesticide-TCL**

**A. Number of Samples and Date of Receipt:**
10 Solid samples were received on 11/14/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, PCB, Pesticide-TCL, pH, SVOC-TCL BNA -20, TCL+30/TAL and VOC-TCLVOA-10. This data package contains results for Pesticide-TCL.

**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 Pesticide-TCLs was based on method 8081B and extraction was done based on method 3541.

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

The Continuous Calibration File ID PL093134.D met the requirements except for 4,4-DDD is failing in 2nd column but no positive hit in associated sample therefore no corrective action taken.

**E. Additional Comments:**
sample# DUP-01 was reported with J flag on form 1 for com#11 based on reporting criteria of high concentration from both column. Now for other column compound detection is below MDL therefore it is not detecting on form 10.

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sample# PH2-BOT-001 was reported with J flag on form 1 for com#13 based on reporting criteria of high concentration from both column. Now for other column compound detection is below MDL therefore it is not detecting on form 10.

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

**Tetra Tech**
**Project Name: Ocean County Landfill 2024**
**Project # N/A**
**Chemtech Project # P4860**
**Test Name: PCB**

**A. Number of Samples and Date of Receipt:**
10 Solid samples were received on 11/14/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, PCB, Pesticide-TCL, pH, SVOC-TCL BNA -20, TCL+30/TAL 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 3541.

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

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

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

---

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# CASE NARRATIVE

**Tetra Tech**
**Project Name: Ocean County Landfill 2024**
**Project # N/A**
**Chemtech Project # P4860**
**Test Name: EPH**

**A. Number of Samples and Date of Receipt:**
10 Solid samples were received on 11/14/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, PCB, Pesticide-TCL, pH, SVOC-TCL BNA -20, TCL+30/TAL and VOC-TCLVOA-10. This data package contains results for EPH.

**C. Analytical Techniques:**
The analysis were performed on instrument FID_C. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analyses were performed on instrument FID_D. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis were performed on instrument FID_F. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of EPHs was based on method NJEPH and extraction was done based on method 3541.

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

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

**F. Manual Integration Comments:**

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

---

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# CASE NARRATIVE

**Tetra Tech**
**Project Name: Ocean County Landfill 2024**
**Project # N/A**
**Chemtech Project # P4860**
**Test Name: Metals ICP-TAL,Mercury**

**A. Number of Samples and Date of Receipt:**
10 Solid samples were received on 11/14/2024.

**B. Parameters:**
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, PCB, Pesticide-TCL, pH, SVOC-TCL BNA -20, TCL+30/TAL and VOC-TCLVOA-10. This data package contains results for Metals ICP-TAL,Mercury.

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

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (#72-11930MS) analysis met criteria for all samples except for Antimony, Copper and Selenium due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (#72-11930MSD) analysis met criteria for all samples except for Antimony, Copper and Selenium 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 (72-11930L) met criteria for all samples except for Manganese due to sample matrix interference.

**E. Additional Comments:**

---

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# CASE NARRATIVE

**Tetra Tech**
**Project Name: Ocean County Landfill 2024**
**Project # N/A**
**Chemtech Project # P4860**
**Test Name: Hexavalent Chromium,pH,Cyanide**

**A. Number of Samples and Date of Receipt:**
10 Solid samples were received on 11/14/2024.

**B. Parameters:**
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, PCB, Pesticide-TCL, pH, SVOC-TCL BNA -20, TCL+30/TAL and VOC-TCLVOA-10. This data package contains results for Hexavalent Chromium,pH,Cyanide.

**C. Analytical Techniques:**
The analysis of Hexavalent Chromium was based on method 7196A, The analysis of Cyanide was based on method 9012B and The analysis of pH was based on method 9045D.

**D. QA/ QC Samples:**
The Holding Times were met for all samples except for DUP-01 of pH, for PH2-BOT-001 of pH.for PH2-BOT-002 of pH.for PH2-BOT-003 of pH.for PH2-BOT-004 of pH.for PH2-BOT-005 of pH.for PH2-BOT-006 of pH.for PH2-BOT-007 of pH.for PH2-BOT-008 of pH.for PH2-BOT-009 of pH as samples were receive out of holding time.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

**E. Additional Comments:**

---

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# DATA REPORTING QUALIFIERS- INORGANIC

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

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

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## DATA REPORTING QUALIFIERS- ORGANIC

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

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

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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** P4860

| | 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:** 11/27/2024

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **PH2-BOT-001** | | | | | | | |
| P4860-02 | PH2-BOT-001 | SOIL | Methyl Acetate | 4.00 | | 1.40 | 4.00 | ug/Kg |
| | | | **Total Voc :** | 4.00 | | | | |
| | | | **Total Concentration:** | 4.00 | | | | |

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 96.8 |
| Sample Wt/Vol: | 6.22 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080072.D | 1 | | 11/18/24 16:39 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.40 | U | 1.40 | 4.20 | ug/Kg |
| 74-87-3 | Chloromethane | 0.96 | U | 0.96 | 4.20 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.64 | U | 0.64 | 4.20 | ug/Kg |
| 74-83-9 | Bromomethane | 0.86 | U | 0.86 | 4.20 | ug/Kg |
| 75-00-3 | Chloroethane | 0.84 | U | 0.84 | 4.20 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.76 | U | 0.76 | 4.20 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.89 | U | 0.89 | 4.20 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.65 | U | 0.65 | 4.20 | ug/Kg |
| 67-64-1 | Acetone | 5.20 | U | 5.20 | 20.8 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.10 | U | 1.10 | 4.20 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.56 | U | 0.56 | 4.20 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.50 | U | 1.50 | 4.20 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.80 | U | 2.80 | 8.30 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.70 | U | 0.70 | 4.20 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.52 | U | 0.52 | 4.20 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.57 | U | 0.57 | 4.20 | ug/Kg |
| 78-93-3 | 2-Butanone | 4.70 | U | 4.70 | 20.8 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.72 | U | 0.72 | 4.20 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.51 | U | 0.51 | 4.20 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.00 | U | 2.00 | 4.20 | ug/Kg |
| 67-66-3 | Chloroform | 0.56 | U | 0.56 | 4.20 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.65 | U | 0.65 | 4.20 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.72 | U | 0.72 | 4.20 | ug/Kg |
| 71-43-2 | Benzene | 0.60 | U | 0.60 | 4.20 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.51 | U | 0.51 | 4.20 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.62 | U | 0.62 | 4.20 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.55 | U | 0.55 | 4.20 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.47 | U | 0.47 | 4.20 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.60 | U | 3.60 | 20.8 | ug/Kg |
| 108-88-3 | Toluene | 0.56 | U | 0.56 | 4.20 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 96.8 |
| Sample Wt/Vol: | 6.22 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080072.D | 1 | | 11/18/24 16:39 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.50 | U | 0.50 | 4.20 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.47 | U | 0.47 | 4.20 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.70 | U | 0.70 | 4.20 | ug/Kg |
| 591-78-6 | 2-Hexanone | 4.00 | U | 4.00 | 20.8 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.54 | U | 0.54 | 4.20 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.66 | U | 0.66 | 4.20 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.74 | U | 0.74 | 4.20 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.61 | U | 0.61 | 4.20 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.51 | U | 0.51 | 4.20 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.10 | U | 1.10 | 8.30 | ug/Kg |
| 95-47-6 | o-Xylene | 0.58 | U | 0.58 | 4.20 | ug/Kg |
| 100-42-5 | Styrene | 0.50 | U | 0.50 | 4.20 | ug/Kg |
| 75-25-2 | Bromoform | 0.67 | U | 0.67 | 4.20 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.56 | U | 0.56 | 4.20 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.91 | U | 0.91 | 4.20 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.61 | U | 0.61 | 4.20 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.66 | U | 0.66 | 4.20 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.49 | U | 0.49 | 4.20 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.30 | U | 1.30 | 4.20 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.66 | U | 0.66 | 4.20 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.65 | U | 0.65 | 4.20 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 42.1 | | 70 (50) - 130 (163) | 84% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 44.0 | | 70 (54) - 130 (147) | 88% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 40.2 | | 70 (58) - 130 (134) | 80% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 37.3 | | 70 (29) - 130 (146) | 75% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 213000 | 7.875 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 351000 | 8.775 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 340000 | 11.581 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 151000 | 13.516 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 96.8 |
| Sample Wt/Vol: | 6.22 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080072.D | 1 | | 11/18/24 16:39 | VD111824 |

| 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 96.8 |
| Sample Wt/Vol: | 6.44 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080073.D | 1 | | 11/18/24 17:06 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.30 | U | 1.30 | 4.00 | ug/Kg |
| 74-87-3 | Chloromethane | 0.93 | U | 0.93 | 4.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.62 | U | 0.62 | 4.00 | ug/Kg |
| 74-83-9 | Bromomethane | 0.83 | U | 0.83 | 4.00 | ug/Kg |
| 75-00-3 | Chloroethane | 0.81 | U | 0.81 | 4.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.73 | U | 0.73 | 4.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.86 | U | 0.86 | 4.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| 67-64-1 | Acetone | 5.00 | U | 5.00 | 20.1 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.00 | U | 1.00 | 4.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.54 | U | 0.54 | 4.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 4.00 | | 1.40 | 4.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.70 | U | 2.70 | 8.00 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.67 | U | 0.67 | 4.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.51 | U | 0.51 | 4.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.55 | U | 0.55 | 4.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 4.60 | U | 4.60 | 20.1 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.70 | U | 0.70 | 4.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.49 | U | 0.49 | 4.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.90 | U | 1.90 | 4.00 | ug/Kg |
| 67-66-3 | Chloroform | 0.54 | U | 0.54 | 4.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.70 | U | 0.70 | 4.00 | ug/Kg |
| 71-43-2 | Benzene | 0.58 | U | 0.58 | 4.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.49 | U | 0.49 | 4.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.60 | U | 0.60 | 4.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.53 | U | 0.53 | 4.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.45 | U | 0.45 | 4.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.50 | U | 3.50 | 20.1 | ug/Kg |
| 108-88-3 | Toluene | 0.54 | U | 0.54 | 4.00 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 96.8 |
| Sample Wt/Vol: | 6.44 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080073.D | 1 | | 11/18/24 17:06 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.48 | U | 0.48 | 4.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.46 | U | 0.46 | 4.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.67 | U | 0.67 | 4.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.80 | U | 3.80 | 20.1 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.52 | U | 0.52 | 4.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.71 | U | 0.71 | 4.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.59 | U | 0.59 | 4.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.50 | U | 0.50 | 4.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.10 | U | 1.10 | 8.00 | ug/Kg |
| 95-47-6 | o-Xylene | 0.56 | U | 0.56 | 4.00 | ug/Kg |
| 100-42-5 | Styrene | 0.48 | U | 0.48 | 4.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.65 | U | 0.65 | 4.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.54 | U | 0.54 | 4.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.88 | U | 0.88 | 4.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.59 | U | 0.59 | 4.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.64 | U | 0.64 | 4.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.47 | U | 0.47 | 4.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.30 | U | 1.30 | 4.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 43.2 | | 70 (50) - 130 (163) | 86% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 42.1 | | 70 (54) - 130 (147) | 84% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 39.5 | | 70 (58) - 130 (134) | 79% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 35.7 | | 70 (29) - 130 (146) | 71% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 219000 | 7.875 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 366000 | 8.775 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 329000 | 11.581 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 146000 | 13.516 | | | |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 96.8 |
| Sample Wt/Vol: | 6.44 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080073.D | 1 | | 11/18/24 17:06 | VD111824 |

| 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 96.6 |
| Sample Wt/Vol: | 6.2 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 |
|---|---|---|---|---|
| VY020368.D | 1 | | 11/20/24 18:35 | VY112024 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.40 | U | 1.40 | 4.20 | ug/Kg |
| 74-87-3 | Chloromethane | 0.97 | U | 0.97 | 4.20 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.64 | U | 0.64 | 4.20 | ug/Kg |
| 74-83-9 | Bromomethane | 0.86 | U | 0.86 | 4.20 | ug/Kg |
| 75-00-3 | Chloroethane | 0.84 | U | 0.84 | 4.20 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.76 | U | 0.76 | 4.20 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.89 | U | 0.89 | 4.20 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.65 | U | 0.65 | 4.20 | ug/Kg |
| 67-64-1 | Acetone | 5.20 | U | 5.20 | 20.9 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.10 | U | 1.10 | 4.20 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.56 | U | 0.56 | 4.20 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.50 | U | 1.50 | 4.20 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.80 | U | 2.80 | 8.30 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.70 | U | 0.70 | 4.20 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.53 | U | 0.53 | 4.20 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.58 | U | 0.58 | 4.20 | ug/Kg |
| 78-93-3 | 2-Butanone | 4.70 | U | 4.70 | 20.9 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.73 | U | 0.73 | 4.20 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.51 | U | 0.51 | 4.20 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.00 | U | 2.00 | 4.20 | ug/Kg |
| 67-66-3 | Chloroform | 0.56 | U | 0.56 | 4.20 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.65 | U | 0.65 | 4.20 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.73 | U | 0.73 | 4.20 | ug/Kg |
| 71-43-2 | Benzene | 0.60 | U | 0.60 | 4.20 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.51 | U | 0.51 | 4.20 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.63 | U | 0.63 | 4.20 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.55 | U | 0.55 | 4.20 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.47 | U | 0.47 | 4.20 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.60 | U | 3.60 | 20.9 | ug/Kg |
| 108-88-3 | Toluene | 0.56 | U | 0.56 | 4.20 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 96.6 |
| Sample Wt/Vol: | 6.2 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 |
|---|---|---|---|---|
| VY020368.D | 1 | | 11/20/24 18:35 | VY112024 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.50 | U | 0.50 | 4.20 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.48 | U | 0.48 | 4.20 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.70 | U | 0.70 | 4.20 | ug/Kg |
| 591-78-6 | 2-Hexanone | 4.00 | U | 4.00 | 20.9 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.54 | U | 0.54 | 4.20 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.66 | U | 0.66 | 4.20 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.74 | U | 0.74 | 4.20 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.62 | U | 0.62 | 4.20 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.52 | U | 0.52 | 4.20 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.10 | U | 1.10 | 8.30 | ug/Kg |
| 95-47-6 | o-Xylene | 0.58 | U | 0.58 | 4.20 | ug/Kg |
| 100-42-5 | Styrene | 0.50 | U | 0.50 | 4.20 | ug/Kg |
| 75-25-2 | Bromoform | 0.68 | U | 0.68 | 4.20 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.56 | U | 0.56 | 4.20 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.92 | U | 0.92 | 4.20 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.62 | U | 0.62 | 4.20 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.67 | U | 0.67 | 4.20 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.49 | U | 0.49 | 4.20 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.30 | U | 1.30 | 4.20 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.66 | U | 0.66 | 4.20 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.65 | U | 0.65 | 4.20 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 58.6 | | 70 (50) - 130 (163) | 117% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.1 | | 70 (54) - 130 (147) | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.0 | | 70 (58) - 130 (134) | 98% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.8 | | 70 (29) - 130 (146) | 104% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 138000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 270000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 257000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 102000 | 13.347 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 96.6 |
| Sample Wt/Vol: | 6.2 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 |
|---|---|---|---|---|
| VY020368.D | 1 | | 11/20/24 18:35 | VY112024 |

| 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 97.8 |
| Sample Wt/Vol: | 6.28 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080075.D | 1 | | 11/18/24 18:00 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.30 | U | 1.30 | 4.10 | ug/Kg |
| 74-87-3 | Chloromethane | 0.94 | U | 0.94 | 4.10 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.63 | U | 0.63 | 4.10 | ug/Kg |
| 74-83-9 | Bromomethane | 0.84 | U | 0.84 | 4.10 | ug/Kg |
| 75-00-3 | Chloroethane | 0.82 | U | 0.82 | 4.10 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.74 | U | 0.74 | 4.10 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.87 | U | 0.87 | 4.10 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.63 | U | 0.63 | 4.10 | ug/Kg |
| 67-64-1 | Acetone | 5.10 | U | 5.10 | 20.4 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.00 | U | 1.00 | 4.10 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.55 | U | 0.55 | 4.10 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.50 | U | 1.50 | 4.10 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.80 | U | 2.80 | 8.10 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.68 | U | 0.68 | 4.10 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.51 | U | 0.51 | 4.10 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.56 | U | 0.56 | 4.10 | ug/Kg |
| 78-93-3 | 2-Butanone | 4.60 | U | 4.60 | 20.4 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.71 | U | 0.71 | 4.10 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U | 0.50 | 4.10 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.00 | U | 2.00 | 4.10 | ug/Kg |
| 67-66-3 | Chloroform | 0.55 | U | 0.55 | 4.10 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.63 | U | 0.63 | 4.10 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.71 | U | 0.71 | 4.10 | ug/Kg |
| 71-43-2 | Benzene | 0.59 | U | 0.59 | 4.10 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U | 0.50 | 4.10 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.61 | U | 0.61 | 4.10 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.54 | U | 0.54 | 4.10 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.46 | U | 0.46 | 4.10 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.50 | U | 3.50 | 20.4 | ug/Kg |
| 108-88-3 | Toluene | 0.55 | U | 0.55 | 4.10 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 97.8 |
| Sample Wt/Vol: | 6.28 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080075.D | 1 | | 11/18/24 18:00 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.49 | U | 0.49 | 4.10 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.46 | U | 0.46 | 4.10 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.68 | U | 0.68 | 4.10 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.90 | U | 3.90 | 20.4 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.53 | U | 0.53 | 4.10 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.64 | U | 0.64 | 4.10 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.72 | U | 0.72 | 4.10 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.60 | U | 0.60 | 4.10 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.50 | U | 0.50 | 4.10 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.10 | U | 1.10 | 8.10 | ug/Kg |
| 95-47-6 | o-Xylene | 0.57 | U | 0.57 | 4.10 | ug/Kg |
| 100-42-5 | Styrene | 0.49 | U | 0.49 | 4.10 | ug/Kg |
| 75-25-2 | Bromoform | 0.66 | U | 0.66 | 4.10 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.55 | U | 0.55 | 4.10 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.90 | U | 0.90 | 4.10 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.60 | U | 0.60 | 4.10 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.65 | U | 0.65 | 4.10 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.48 | U | 0.48 | 4.10 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.30 | U | 1.30 | 4.10 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.64 | U | 0.64 | 4.10 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.63 | U | 0.63 | 4.10 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 39.6 | | 70 (50) - 130 (163) | 79% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 38.4 | | 70 (54) - 130 (147) | 77% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 34.1 | * | 70 (58) - 130 (134) | 68% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 30.7 | * | 70 (29) - 130 (146) | 61% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 207000 | 7.875 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 368000 | 8.781 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 326000 | 11.581 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 151000 | 13.516 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 97.8 |
| Sample Wt/Vol: | 6.28 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080075.D | 1 | | 11/18/24 18:00 | VD111824 |

| 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 98.1 |
| Sample Wt/Vol: | 6.25 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080076.D | 1 | | 11/18/24 18:28 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.30 | U | 1.30 | 4.10 | ug/Kg |
| 74-87-3 | Chloromethane | 0.95 | U | 0.95 | 4.10 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.63 | U | 0.63 | 4.10 | ug/Kg |
| 74-83-9 | Bromomethane | 0.84 | U | 0.84 | 4.10 | ug/Kg |
| 75-00-3 | Chloroethane | 0.82 | U | 0.82 | 4.10 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.74 | U | 0.74 | 4.10 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.87 | U | 0.87 | 4.10 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.64 | U | 0.64 | 4.10 | ug/Kg |
| 67-64-1 | Acetone | 5.10 | U | 5.10 | 20.4 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.00 | U | 1.00 | 4.10 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.55 | U | 0.55 | 4.10 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.50 | U | 1.50 | 4.10 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.80 | U | 2.80 | 8.20 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.69 | U | 0.69 | 4.10 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.51 | U | 0.51 | 4.10 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.56 | U | 0.56 | 4.10 | ug/Kg |
| 78-93-3 | 2-Butanone | 4.60 | U | 4.60 | 20.4 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.71 | U | 0.71 | 4.10 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U | 0.50 | 4.10 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.00 | U | 2.00 | 4.10 | ug/Kg |
| 67-66-3 | Chloroform | 0.55 | U | 0.55 | 4.10 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.64 | U | 0.64 | 4.10 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.71 | U | 0.71 | 4.10 | ug/Kg |
| 71-43-2 | Benzene | 0.59 | U | 0.59 | 4.10 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U | 0.50 | 4.10 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.61 | U | 0.61 | 4.10 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.54 | U | 0.54 | 4.10 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.46 | U | 0.46 | 4.10 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.50 | U | 3.50 | 20.4 | ug/Kg |
| 108-88-3 | Toluene | 0.55 | U | 0.55 | 4.10 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 98.1 |
| Sample Wt/Vol: | 6.25 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080076.D | 1 | | 11/18/24 18:28 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.49 | U | 0.49 | 4.10 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.46 | U | 0.46 | 4.10 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.69 | U | 0.69 | 4.10 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.90 | U | 3.90 | 20.4 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.53 | U | 0.53 | 4.10 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.64 | U | 0.64 | 4.10 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.73 | U | 0.73 | 4.10 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.60 | U | 0.60 | 4.10 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.51 | U | 0.51 | 4.10 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.10 | U | 1.10 | 8.20 | ug/Kg |
| 95-47-6 | o-Xylene | 0.57 | U | 0.57 | 4.10 | ug/Kg |
| 100-42-5 | Styrene | 0.49 | U | 0.49 | 4.10 | ug/Kg |
| 75-25-2 | Bromoform | 0.66 | U | 0.66 | 4.10 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.55 | U | 0.55 | 4.10 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.90 | U | 0.90 | 4.10 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.60 | U | 0.60 | 4.10 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.65 | U | 0.65 | 4.10 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.48 | U | 0.48 | 4.10 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.30 | U | 1.30 | 4.10 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.64 | U | 0.64 | 4.10 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.64 | U | 0.64 | 4.10 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 40.7 | | 70 (50) - 130 (163) | 81% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 37.8 | | 70 (54) - 130 (147) | 76% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 31.8 | * | 70 (58) - 130 (134) | 64% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 30.6 | * | 70 (29) - 130 (146) | 61% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 201000 | 7.875 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 364000 | 8.78 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 324000 | 11.58 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 144000 | 13.516 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 98.1 |
| Sample Wt/Vol: | 6.25 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080076.D | 1 | | 11/18/24 18:28 | VD111824 |

| 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 98.3 |
| Sample Wt/Vol: | 7.41 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 |
|---|---|---|---|---|
| VY020369.D | 1 | | 11/20/24 18:58 | VY112024 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.10 | U | 1.10 | 3.40 | ug/Kg |
| 74-87-3 | Chloromethane | 0.80 | U | 0.80 | 3.40 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.53 | U | 0.53 | 3.40 | ug/Kg |
| 74-83-9 | Bromomethane | 0.71 | U | 0.71 | 3.40 | ug/Kg |
| 75-00-3 | Chloroethane | 0.69 | U | 0.69 | 3.40 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.62 | U | 0.62 | 3.40 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.73 | U | 0.73 | 3.40 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.54 | U | 0.54 | 3.40 | ug/Kg |
| 67-64-1 | Acetone | 4.30 | U | 4.30 | 17.2 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 0.88 | U | 0.88 | 3.40 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.46 | U | 0.46 | 3.40 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.20 | U | 1.20 | 3.40 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.30 | U | 2.30 | 6.90 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.58 | U | 0.58 | 3.40 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.43 | U | 0.43 | 3.40 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.47 | U | 0.47 | 3.40 | ug/Kg |
| 78-93-3 | 2-Butanone | 3.90 | U | 3.90 | 17.2 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.60 | U | 0.60 | 3.40 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.42 | U | 0.42 | 3.40 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.70 | U | 1.70 | 3.40 | ug/Kg |
| 67-66-3 | Chloroform | 0.46 | U | 0.46 | 3.40 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.54 | U | 0.54 | 3.40 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.60 | U | 0.60 | 3.40 | ug/Kg |
| 71-43-2 | Benzene | 0.49 | U | 0.49 | 3.40 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.42 | U | 0.42 | 3.40 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.51 | U | 0.51 | 3.40 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.45 | U | 0.45 | 3.40 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.38 | U | 0.38 | 3.40 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.00 | U | 3.00 | 17.2 | ug/Kg |
| 108-88-3 | Toluene | 0.46 | U | 0.46 | 3.40 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 98.3 |
| Sample Wt/Vol: | 7.41 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 |
|---|---|---|---|---|
| VY020369.D | 1 | | 11/20/24 18:58 | VY112024 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.41 | U | 0.41 | 3.40 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.39 | U | 0.39 | 3.40 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.58 | U | 0.58 | 3.40 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.30 | U | 3.30 | 17.2 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.45 | U | 0.45 | 3.40 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.54 | U | 0.54 | 3.40 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.61 | U | 0.61 | 3.40 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.51 | U | 0.51 | 3.40 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.43 | U | 0.43 | 3.40 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 0.93 | U | 0.93 | 6.90 | ug/Kg |
| 95-47-6 | o-Xylene | 0.48 | U | 0.48 | 3.40 | ug/Kg |
| 100-42-5 | Styrene | 0.41 | U | 0.41 | 3.40 | ug/Kg |
| 75-25-2 | Bromoform | 0.56 | U | 0.56 | 3.40 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.46 | U | 0.46 | 3.40 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.76 | U | 0.76 | 3.40 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.51 | U | 0.51 | 3.40 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.55 | U | 0.55 | 3.40 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.40 | U | 0.40 | 3.40 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.10 | U | 1.10 | 3.40 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.54 | U | 0.54 | 3.40 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.54 | U | 0.54 | 3.40 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 51.5 | | 70 (50) - 130 (163) | 103% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.1 | | 70 (54) - 130 (147) | 96% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.1 | | 70 (58) - 130 (134) | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.0 | | 70 (29) - 130 (146) | 100% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 143000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 274000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 254000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 99300 | 13.346 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 98.3 |
| Sample Wt/Vol: | 7.41 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 |
|---|---|---|---|---|
| VY020369.D | 1 | | 11/20/24 18:58 | VY112024 |

| 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 96.8 |
| Sample Wt/Vol: | 6.2 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080078.D | 1 | | 11/18/24 19:22 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.40 | U | 1.40 | 4.20 | ug/Kg |
| 74-87-3 | Chloromethane | 0.97 | U | 0.97 | 4.20 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.64 | U | 0.64 | 4.20 | ug/Kg |
| 74-83-9 | Bromomethane | 0.86 | U | 0.86 | 4.20 | ug/Kg |
| 75-00-3 | Chloroethane | 0.84 | U | 0.84 | 4.20 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.76 | U | 0.76 | 4.20 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.89 | U | 0.89 | 4.20 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.65 | U | 0.65 | 4.20 | ug/Kg |
| 67-64-1 | Acetone | 5.20 | U | 5.20 | 20.8 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.10 | U | 1.10 | 4.20 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.56 | U | 0.56 | 4.20 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.50 | U | 1.50 | 4.20 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.80 | U | 2.80 | 8.30 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.70 | U | 0.70 | 4.20 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.52 | U | 0.52 | 4.20 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.57 | U | 0.57 | 4.20 | ug/Kg |
| 78-93-3 | 2-Butanone | 4.70 | U | 4.70 | 20.8 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.72 | U | 0.72 | 4.20 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.51 | U | 0.51 | 4.20 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.00 | U | 2.00 | 4.20 | ug/Kg |
| 67-66-3 | Chloroform | 0.56 | U | 0.56 | 4.20 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.65 | U | 0.65 | 4.20 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.72 | U | 0.72 | 4.20 | ug/Kg |
| 71-43-2 | Benzene | 0.60 | U | 0.60 | 4.20 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.51 | U | 0.51 | 4.20 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.62 | U | 0.62 | 4.20 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.55 | U | 0.55 | 4.20 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.47 | U | 0.47 | 4.20 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.60 | U | 3.60 | 20.8 | ug/Kg |
| 108-88-3 | Toluene | 0.56 | U | 0.56 | 4.20 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 96.8 |
| Sample Wt/Vol: | 6.2 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080078.D | 1 | | 11/18/24 19:22 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.50 | U | 0.50 | 4.20 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.47 | U | 0.47 | 4.20 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.70 | U | 0.70 | 4.20 | ug/Kg |
| 591-78-6 | 2-Hexanone | 4.00 | U | 4.00 | 20.8 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.54 | U | 0.54 | 4.20 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.66 | U | 0.66 | 4.20 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.74 | U | 0.74 | 4.20 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.62 | U | 0.62 | 4.20 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.52 | U | 0.52 | 4.20 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.10 | U | 1.10 | 8.30 | ug/Kg |
| 95-47-6 | o-Xylene | 0.58 | U | 0.58 | 4.20 | ug/Kg |
| 100-42-5 | Styrene | 0.50 | U | 0.50 | 4.20 | ug/Kg |
| 75-25-2 | Bromoform | 0.67 | U | 0.67 | 4.20 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.56 | U | 0.56 | 4.20 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.92 | U | 0.92 | 4.20 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.62 | U | 0.62 | 4.20 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.67 | U | 0.67 | 4.20 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.49 | U | 0.49 | 4.20 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.30 | U | 1.30 | 4.20 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.66 | U | 0.66 | 4.20 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.65 | U | 0.65 | 4.20 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 44.5 | | 70 (50) - 130 (163) | 89% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 46.0 | | 70 (54) - 130 (147) | 92% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 41.8 | | 70 (58) - 130 (134) | 84% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 36.3 | | 70 (29) - 130 (146) | 73% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 210000 | 7.875 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 360000 | 8.775 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 321000 | 11.581 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 142000 | 13.516 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 96.8 |
| Sample Wt/Vol: | 6.2 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080078.D | 1 | | 11/18/24 19:22 | VD111824 |

| 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 98 |
| Sample Wt/Vol: | 6.33 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080079.D | 1 | | 11/18/24 19:49 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.30 | U | 1.30 | 4.00 | ug/Kg |
| 74-87-3 | Chloromethane | 0.93 | U | 0.93 | 4.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.62 | U | 0.62 | 4.00 | ug/Kg |
| 74-83-9 | Bromomethane | 0.83 | U | 0.83 | 4.00 | ug/Kg |
| 75-00-3 | Chloroethane | 0.81 | U | 0.81 | 4.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.73 | U | 0.73 | 4.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.86 | U | 0.86 | 4.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| 67-64-1 | Acetone | 5.00 | U | 5.00 | 20.2 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.00 | U | 1.00 | 4.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.54 | U | 0.54 | 4.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.50 | U | 1.50 | 4.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.70 | U | 2.70 | 8.10 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.68 | U | 0.68 | 4.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.51 | U | 0.51 | 4.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.56 | U | 0.56 | 4.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 4.60 | U | 4.60 | 20.2 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.70 | U | 0.70 | 4.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.49 | U | 0.49 | 4.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.00 | U | 2.00 | 4.00 | ug/Kg |
| 67-66-3 | Chloroform | 0.54 | U | 0.54 | 4.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.70 | U | 0.70 | 4.00 | ug/Kg |
| 71-43-2 | Benzene | 0.58 | U | 0.58 | 4.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.49 | U | 0.49 | 4.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.60 | U | 0.60 | 4.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.53 | U | 0.53 | 4.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.45 | U | 0.45 | 4.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.50 | U | 3.50 | 20.2 | ug/Kg |
| 108-88-3 | Toluene | 0.54 | U | 0.54 | 4.00 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 98 |
| Sample Wt/Vol: | 6.33 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080079.D | 1 | | 11/18/24 19:49 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.48 | U | 0.48 | 4.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.46 | U | 0.46 | 4.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.68 | U | 0.68 | 4.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.90 | U | 3.90 | 20.2 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.52 | U | 0.52 | 4.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.64 | U | 0.64 | 4.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.72 | U | 0.72 | 4.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.60 | U | 0.60 | 4.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.50 | U | 0.50 | 4.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.10 | U | 1.10 | 8.10 | ug/Kg |
| 95-47-6 | o-Xylene | 0.56 | U | 0.56 | 4.00 | ug/Kg |
| 100-42-5 | Styrene | 0.48 | U | 0.48 | 4.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.65 | U | 0.65 | 4.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.54 | U | 0.54 | 4.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.89 | U | 0.89 | 4.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.60 | U | 0.60 | 4.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.64 | U | 0.64 | 4.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.48 | U | 0.48 | 4.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.30 | U | 1.30 | 4.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.64 | U | 0.64 | 4.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 43.3 | | 70 (50) - 130 (163) | 87% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.2 | | 70 (54) - 130 (147) | 98% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.2 | | 70 (58) - 130 (134) | 90% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 42.1 | | 70 (29) - 130 (146) | 84% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 217000 | 7.875 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 353000 | 8.781 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 326000 | 11.581 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 151000 | 13.516 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 98 |
| Sample Wt/Vol: | 6.33 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080079.D | 1 | | 11/18/24 19:49 | VD111824 |

| 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 97.5 |
| Sample Wt/Vol: | 6.28 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 |
|---|---|---|---|---|
| VY020390.D | 1 | | 11/21/24 16:30 | VY112124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.30 | U | 1.30 | 4.10 | ug/Kg |
| 74-87-3 | Chloromethane | 0.95 | U | 0.95 | 4.10 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.63 | U | 0.63 | 4.10 | ug/Kg |
| 74-83-9 | Bromomethane | 0.84 | U | 0.84 | 4.10 | ug/Kg |
| 75-00-3 | Chloroethane | 0.82 | U | 0.82 | 4.10 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.74 | U | 0.74 | 4.10 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.87 | U | 0.87 | 4.10 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.64 | U | 0.64 | 4.10 | ug/Kg |
| 67-64-1 | Acetone | 5.10 | U | 5.10 | 20.4 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.00 | U | 1.00 | 4.10 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.55 | U | 0.55 | 4.10 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.50 | U | 1.50 | 4.10 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.80 | U | 2.80 | 8.20 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.69 | U | 0.69 | 4.10 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.51 | U | 0.51 | 4.10 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.56 | U | 0.56 | 4.10 | ug/Kg |
| 78-93-3 | 2-Butanone | 4.60 | U | 4.60 | 20.4 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.71 | U | 0.71 | 4.10 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U | 0.50 | 4.10 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.00 | U | 2.00 | 4.10 | ug/Kg |
| 67-66-3 | Chloroform | 0.55 | U | 0.55 | 4.10 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.64 | U | 0.64 | 4.10 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.71 | U | 0.71 | 4.10 | ug/Kg |
| 71-43-2 | Benzene | 0.59 | U | 0.59 | 4.10 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U | 0.50 | 4.10 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.61 | U | 0.61 | 4.10 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.54 | U | 0.54 | 4.10 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.46 | U | 0.46 | 4.10 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.60 | U | 3.60 | 20.4 | ug/Kg |
| 108-88-3 | Toluene | 0.55 | U | 0.55 | 4.10 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 97.5 |
| Sample Wt/Vol: | 6.28 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 |
|---|---|---|---|---|
| VY020390.D | 1 | | 11/21/24 16:30 | VY112124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.49 | U | 0.49 | 4.10 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.47 | U | 0.47 | 4.10 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.69 | U | 0.69 | 4.10 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.90 | U | 3.90 | 20.4 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.53 | U | 0.53 | 4.10 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.65 | U | 0.65 | 4.10 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.73 | U | 0.73 | 4.10 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.60 | U | 0.60 | 4.10 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.51 | U | 0.51 | 4.10 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.10 | U | 1.10 | 8.20 | ug/Kg |
| 95-47-6 | o-Xylene | 0.57 | U | 0.57 | 4.10 | ug/Kg |
| 100-42-5 | Styrene | 0.49 | U | 0.49 | 4.10 | ug/Kg |
| 75-25-2 | Bromoform | 0.66 | U | 0.66 | 4.10 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.55 | U | 0.55 | 4.10 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.90 | U | 0.90 | 4.10 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.60 | U | 0.60 | 4.10 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.65 | U | 0.65 | 4.10 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.48 | U | 0.48 | 4.10 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.30 | U | 1.30 | 4.10 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.65 | U | 0.65 | 4.10 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.64 | U | 0.64 | 4.10 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 57.4 | | 70 (50) - 130 (163) | 115% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.5 | | 70 (54) - 130 (147) | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.3 | | 70 (58) - 130 (134) | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.6 | | 70 (29) - 130 (146) | 105% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 141000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 274000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 262000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 106000 | 13.346 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 97.5 |
| Sample Wt/Vol: | 6.28 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 |
|---|---|---|---|---|
| VY020390.D | 1 | | 11/21/24 16:30 | 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 97.6 |
| Sample Wt/Vol: | 5.93 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 |
|---|---|---|---|---|
| VY020389.D | 1 | | 11/21/24 16:06 | VY112124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.40 | U | 1.40 | 4.30 | ug/Kg |
| 74-87-3 | Chloromethane | 1.00 | U | 1.00 | 4.30 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.67 | U | 0.67 | 4.30 | ug/Kg |
| 74-83-9 | Bromomethane | 0.89 | U | 0.89 | 4.30 | ug/Kg |
| 75-00-3 | Chloroethane | 0.87 | U | 0.87 | 4.30 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.79 | U | 0.79 | 4.30 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.92 | U | 0.92 | 4.30 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.67 | U | 0.67 | 4.30 | ug/Kg |
| 67-64-1 | Acetone | 5.40 | U | 5.40 | 21.6 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.10 | U | 1.10 | 4.30 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.58 | U | 0.58 | 4.30 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.60 | U | 1.60 | 4.30 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.90 | U | 2.90 | 8.60 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.73 | U | 0.73 | 4.30 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.54 | U | 0.54 | 4.30 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.60 | U | 0.60 | 4.30 | ug/Kg |
| 78-93-3 | 2-Butanone | 4.90 | U | 4.90 | 21.6 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.75 | U | 0.75 | 4.30 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.53 | U | 0.53 | 4.30 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.10 | U | 2.10 | 4.30 | ug/Kg |
| 67-66-3 | Chloroform | 0.58 | U | 0.58 | 4.30 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.67 | U | 0.67 | 4.30 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.75 | U | 0.75 | 4.30 | ug/Kg |
| 71-43-2 | Benzene | 0.62 | U | 0.62 | 4.30 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.53 | U | 0.53 | 4.30 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.65 | U | 0.65 | 4.30 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.57 | U | 0.57 | 4.30 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.48 | U | 0.48 | 4.30 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.80 | U | 3.80 | 21.6 | ug/Kg |
| 108-88-3 | Toluene | 0.58 | U | 0.58 | 4.30 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 97.6 |
| Sample Wt/Vol: | 5.93 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 |
|---|---|---|---|---|
| VY020389.D | 1 | | 11/21/24 16:06 | VY112124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.52 | U | 0.52 | 4.30 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.49 | U | 0.49 | 4.30 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.73 | U | 0.73 | 4.30 | ug/Kg |
| 591-78-6 | 2-Hexanone | 4.10 | U | 4.10 | 21.6 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.56 | U | 0.56 | 4.30 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.68 | U | 0.68 | 4.30 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.77 | U | 0.77 | 4.30 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.64 | U | 0.64 | 4.30 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.54 | U | 0.54 | 4.30 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.20 | U | 1.20 | 8.60 | ug/Kg |
| 95-47-6 | o-Xylene | 0.60 | U | 0.60 | 4.30 | ug/Kg |
| 100-42-5 | Styrene | 0.52 | U | 0.52 | 4.30 | ug/Kg |
| 75-25-2 | Bromoform | 0.70 | U | 0.70 | 4.30 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.58 | U | 0.58 | 4.30 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.95 | U | 0.95 | 4.30 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.64 | U | 0.64 | 4.30 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.69 | U | 0.69 | 4.30 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.51 | U | 0.51 | 4.30 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.30 | U | 1.30 | 4.30 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.68 | U | 0.68 | 4.30 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.67 | U | 0.67 | 4.30 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.6 | | 70 (50) - 130 (163) | 105% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.7 | | 70 (54) - 130 (147) | 97% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.9 | | 70 (58) - 130 (134) | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.4 | | 70 (29) - 130 (146) | 101% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 141000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 270000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 252000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 102000 | 13.346 | | | |

Alliance TECHNICAL GROUP
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 97.6 |
| Sample Wt/Vol: | 5.93 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 |
|---|---|---|---|---|
| VY020389.D | 1 | | 11/21/24 16:06 | 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

# QC SUMMARY

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## Surrogate Summary

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| P4860-01 | DUP-01 | 1,2-Dichloroethane-d4 | 50 | 42.1 | 84 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 44.0 | 88 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 40.2 | 80 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 37.3 | 75 | 70 (29) | 130 (146) |
| P4860-02 | PH2-BOT-001 | 1,2-Dichloroethane-d4 | 50 | 43.2 | 86 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 42.1 | 84 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 39.5 | 79 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 35.7 | 71 | 70 (29) | 130 (146) |
| P4860-03 | PH2-BOT-002 | 1,2-Dichloroethane-d4 | 50 | 58.6 | 117 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 50.1 | 100 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 49.0 | 98 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 51.8 | 104 | 70 (29) | 130 (146) |
| P4860-04 | PH2-BOT-003 | 1,2-Dichloroethane-d4 | 50 | 39.6 | 79 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 38.4 | 77 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 34.1 | 68 * | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 30.7 | 61 * | 70 (29) | 130 (146) |
| P4860-05 | PH2-BOT-004 | 1,2-Dichloroethane-d4 | 50 | 40.7 | 81 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 37.8 | 76 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 31.8 | 64 * | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 30.6 | 61 * | 70 (29) | 130 (146) |
| P4860-06 | PH2-BOT-009 | 1,2-Dichloroethane-d4 | 50 | 51.5 | 103 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 48.1 | 96 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 48.1 | 96 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 50.0 | 100 | 70 (29) | 130 (146) |
| P4860-07 | PH2-BOT-008 | 1,2-Dichloroethane-d4 | 50 | 44.5 | 89 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 46.0 | 92 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 41.9 | 84 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 36.3 | 73 | 70 (29) | 130 (146) |
| P4860-08 | PH2-BOT-007 | 1,2-Dichloroethane-d4 | 50 | 43.3 | 87 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 49.2 | 98 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 45.2 | 90 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 42.1 | 84 | 70 (29) | 130 (146) |
| P4860-09 | PH2-BOT-006 | 1,2-Dichloroethane-d4 | 50 | 57.4 | 115 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 50.5 | 101 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 48.3 | 97 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 52.6 | 105 | 70 (29) | 130 (146) |
| P4860-10 | PH2-BOT-005 | 1,2-Dichloroethane-d4 | 50 | 52.6 | 105 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 48.7 | 97 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 47.9 | 96 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 50.4 | 101 | 70 (29) | 130 (146) |
| VD1118SBL01 | VD1118SBL01 | 1,2-Dichloroethane-d4 | 50 | 49.5 | 99 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 48.9 | 98 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 44.4 | 89 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 41.2 | 82 | 70 (29) | 130 (146) |
| VD1118SBS01 | VD1118SBS01 | 1,2-Dichloroethane-d4 | 50 | 49.4 | 99 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 49.8 | 100 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 51.0 | 102 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 50.4 | 101 | 70 (29) | 130 (146) |
| VD1118SBSD01 | VD1118SBSD01 | 1,2-Dichloroethane-d4 | 50 | 48.0 | 96 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 50.2 | 100 | 70 (54) | 130 (147) |

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## Surrogate Summary

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| VD1118SBSD01 | VD1118SBSD01 | Toluene-d8 | 50 | 50.0 | 100 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 50.4 | 101 | 70 (29) | 130 (146) |
| VY1120SBL01 | VY1120SBL01 | 1,2-Dichloroethane-d4 | 50 | 53.2 | 106 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 48.3 | 97 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 48.1 | 96 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 48.3 | 97 | 70 (29) | 130 (146) |
| VY1120SBS01 | VY1120SBS01 | 1,2-Dichloroethane-d4 | 50 | 43.3 | 87 | 70 (50) | 130 (163) |
| | | Dibromofluoromethane | 50 | 41.3 | 83 | 70 (54) | 130 (147) |
| | | Toluene-d8 | 50 | 42.7 | 85 | 70 (58) | 130 (134) |
| | | 4-Bromofluorobenzene | 50 | 44.3 | 88 | 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) |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** SW8260D **Datafile :** VD080060.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VD1118SBS01 | Dichlorodifluoromethane | 20 | 18.2 | ug/Kg | 91 | | | 40 (64) | 160 (136) | |
| | Chloromethane | 20 | 19.8 | ug/Kg | 99 | | | 40 (70) | 160 (130) | |
| | Vinyl chloride | 20 | 20.3 | ug/Kg | 102 | | | 70 (72) | 130 (129) | |
| | Bromomethane | 20 | 21.3 | ug/Kg | 106 | | | 40 (58) | 160 (141) | |
| | Chloroethane | 20 | 22.5 | ug/Kg | 113 | | | 40 (69) | 160 (130) | |
| | Trichlorofluoromethane | 20 | 21.3 | ug/Kg | 106 | | | 40 (69) | 160 (134) | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 20.6 | ug/Kg | 103 | | | 70 (81) | 130 (123) | |
| | 1,1-Dichloroethene | 20 | 19.0 | ug/Kg | 95 | | | 70 (79) | 130 (121) | |
| | Acetone | 100 | 96.9 | ug/Kg | 97 | | | 40 (60) | 160 (131) | |
| | Carbon disulfide | 20 | 18.8 | ug/Kg | 94 | | | 40 (45) | 160 (154) | |
| | Methyl tert-butyl Ether | 20 | 18.2 | ug/Kg | 91 | | | 70 (77) | 130 (129) | |
| | Methyl Acetate | 20 | 19.2 | ug/Kg | 96 | | | 70 (69) | 130 (149) | |
| | Methylene Chloride | 20 | 19.9 | ug/Kg | 100 | | | 70 (56) | 130 (174) | |
| | trans-1,2-Dichloroethene | 20 | 18.5 | ug/Kg | 93 | | | 70 (80) | 130 (123) | |
| | 1,1-Dichloroethane | 20 | 19.0 | ug/Kg | 95 | | | 70 (82) | 130 (123) | |
| | Cyclohexane | 20 | 18.3 | ug/Kg | 92 | | | 70 (76) | 130 (122) | |
| | 2-Butanone | 100 | 83.2 | ug/Kg | 83 | | | 40 (69) | 160 (131) | |
| | Carbon Tetrachloride | 20 | 19.8 | ug/Kg | 99 | | | 70 (76) | 130 (129) | |
| | cis-1,2-Dichloroethene | 20 | 18.4 | ug/Kg | 92 | | | 70 (82) | 130 (123) | |
| | Bromochloromethane | 20 | 17.9 | ug/Kg | 90 | | | 70 (80) | 130 (127) | |
| | Chloroform | 20 | 20.1 | ug/Kg | 101 | | | 70 (82) | 130 (125) | |
| | 1,1,1-Trichloroethane | 20 | 20.8 | ug/Kg | 104 | | | 70 (80) | 130 (126) | |
| | Methylcyclohexane | 20 | 18.3 | ug/Kg | 92 | | | 70 (77) | 130 (123) | |
| | Benzene | 20 | 19.3 | ug/Kg | 97 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichloroethane | 20 | 20.3 | ug/Kg | 102 | | | 70 (81) | 130 (126) | |
| | Trichloroethene | 20 | 19.6 | ug/Kg | 98 | | | 70 (83) | 130 (122) | |
| | 1,2-Dichloropropane | 20 | 20.0 | ug/Kg | 100 | | | 70 (83) | 130 (122) | |
| | Bromodichloromethane | 20 | 19.5 | ug/Kg | 98 | | | 70 (82) | 130 (123) | |
| | 4-Methyl-2-Pentanone | 100 | 98.5 | ug/Kg | 99 | | | 40 (70) | 160 (135) | |
| | Toluene | 20 | 19.5 | ug/Kg | 98 | | | 70 (83) | 130 (122) | |
| | t-1,3-Dichloropropene | 20 | 18.3 | ug/Kg | 92 | | | 70 (78) | 130 (124) | |
| | cis-1,3-Dichloropropene | 20 | 19.3 | ug/Kg | 97 | | | 70 (81) | 130 (122) | |
| | 1,1,2-Trichloroethane | 20 | 20.3 | ug/Kg | 102 | | | 70 (82) | 130 (125) | |
| | 2-Hexanone | 100 | 92.0 | ug/Kg | 92 | | | 40 (66) | 160 (138) | |
| | Dibromochloromethane | 20 | 20.9 | ug/Kg | 104 | | | 70 (79) | 130 (125) | |
| | 1,2-Dibromoethane | 20 | 20.9 | ug/Kg | 104 | | | 70 (80) | 130 (125) | |
| | Tetrachloroethene | 20 | 21.2 | ug/Kg | 106 | | | 70 (83) | 130 (125) | |
| | Chlorobenzene | 20 | 19.7 | ug/Kg | 99 | | | 70 (84) | 130 (122) | |
| | Ethyl Benzene | 20 | 18.5 | ug/Kg | 93 | | | 70 (82) | 130 (124) | |
| | m/p-Xylenes | 40 | 38.7 | ug/Kg | 97 | | | 70 (83) | 130 (124) | |
| | o-Xylene | 20 | 19.7 | ug/Kg | 99 | | | 70 (83) | 130 (123) | |
| | Styrene | 20 | 19.2 | ug/Kg | 96 | | | 70 (82) | 130 (124) | |
| | Bromoform | 20 | 20.2 | ug/Kg | 101 | | | 70 (75) | 130 (127) | |
| | Isopropylbenzene | 20 | 18.5 | ug/Kg | 93 | | | 70 (82) | 130 (124) | |
| | 1,1,2,2-Tetrachloroethane | 20 | 19.9 | ug/Kg | 100 | | | 70 (77) | 130 (127) | |
| | 1,3-Dichlorobenzene | 20 | 19.6 | ug/Kg | 98 | | | 70 (83) | 130 (122) | |
| | 1,4-Dichlorobenzene | 20 | 19.5 | ug/Kg | 98 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichlorobenzene | 20 | 19.4 | ug/Kg | 97 | | | 70 (83) | 130 (124) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** SW8260D **Datafile :** VD080060.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VD1118SBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 18.7 | ug/Kg | 94 | | | 40 (66) | 160 (134) | |
| | 1,2,4-Trichlorobenzene | 20 | 20.4 | ug/Kg | 102 | | | 70 (78) | 130 (127) | |
| | 1,2,3-Trichlorobenzene | 20 | 20.5 | ug/Kg | 103 | | | 70 (70) | 130 (137) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** SW8260D **Datafile :** VD080061.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VD1118SBSD01 | Dichlorodifluoromethane | 20 | 18.6 | ug/Kg | 93 | 2 | | 40 (64) | 160 (136) | 30 (20) |
| | Chloromethane | 20 | 17.2 | ug/Kg | 86 | 14 | | 40 (70) | 160 (130) | 30 (20) |
| | Vinyl chloride | 20 | 17.9 | ug/Kg | 90 | 13 | | 70 (72) | 130 (129) | 30 (20) |
| | Bromomethane | 20 | 17.1 | ug/Kg | 86 | 21 | | 40 (58) | 160 (141) | 30 (20) |
| | Chloroethane | 20 | 17.5 | ug/Kg | 88 | 25 | | 40 (69) | 160 (130) | 30 (20) |
| | Trichlorofluoromethane | 20 | 19.7 | ug/Kg | 99 | 7 | | 40 (69) | 160 (134) | 30 (20) |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.0 | ug/Kg | 105 | 2 | | 70 (81) | 130 (123) | 30 (20) |
| | 1,1-Dichloroethene | 20 | 20.1 | ug/Kg | 101 | 6 | | 70 (79) | 130 (121) | 30 (20) |
| | Acetone | 100 | 110 | ug/Kg | 110 | 13 | | 40 (60) | 160 (131) | 30 (20) |
| | Carbon disulfide | 20 | 19.7 | ug/Kg | 99 | 5 | | 40 (45) | 160 (154) | 30 (20) |
| | Methyl tert-butyl Ether | 20 | 20.9 | ug/Kg | 104 | 13 | | 70 (77) | 130 (129) | 30 (20) |
| | Methyl Acetate | 20 | 21.7 | ug/Kg | 109 | 13 | | 70 (69) | 130 (149) | 30 (20) |
| | Methylene Chloride | 20 | 21.4 | ug/Kg | 107 | 7 | | 70 (56) | 130 (174) | 30 (20) |
| | trans-1,2-Dichloroethene | 20 | 20.2 | ug/Kg | 101 | 8 | | 70 (80) | 130 (123) | 30 (20) |
| | 1,1-Dichloroethane | 20 | 20.2 | ug/Kg | 101 | 6 | | 70 (82) | 130 (123) | 30 (20) |
| | Cyclohexane | 20 | 19.0 | ug/Kg | 95 | 3 | | 70 (76) | 130 (122) | 30 (20) |
| | 2-Butanone | 100 | 100 | ug/Kg | 100 | 19 | | 40 (69) | 160 (131) | 30 (20) |
| | Carbon Tetrachloride | 20 | 21.5 | ug/Kg | 108 | 9 | | 70 (76) | 130 (129) | 30 (20) |
| | cis-1,2-Dichloroethene | 20 | 20.3 | ug/Kg | 102 | 10 | | 70 (82) | 130 (123) | 30 (20) |
| | Bromochloromethane | 20 | 18.2 | ug/Kg | 91 | 1 | | 70 (80) | 130 (127) | 30 (20) |
| | Chloroform | 20 | 21.0 | ug/Kg | 105 | 4 | | 70 (82) | 130 (125) | 30 (20) |
| | 1,1,1-Trichloroethane | 20 | 20.6 | ug/Kg | 103 | 1 | | 70 (80) | 130 (126) | 30 (20) |
| | Methylcyclohexane | 20 | 19.6 | ug/Kg | 98 | 6 | | 70 (77) | 130 (123) | 30 (20) |
| | Benzene | 20 | 20.8 | ug/Kg | 104 | 7 | | 70 (84) | 130 (121) | 30 (20) |
| | 1,2-Dichloroethane | 20 | 22.1 | ug/Kg | 111 | 8 | | 70 (81) | 130 (126) | 30 (20) |
| | Trichloroethene | 20 | 20.5 | ug/Kg | 103 | 5 | | 70 (83) | 130 (122) | 30 (20) |
| | 1,2-Dichloropropane | 20 | 21.1 | ug/Kg | 106 | 6 | | 70 (83) | 130 (122) | 30 (20) |
| | Bromodichloromethane | 20 | 21.6 | ug/Kg | 108 | 10 | | 70 (82) | 130 (123) | 30 (20) |
| | 4-Methyl-2-Pentanone | 100 | 110 | ug/Kg | 110 | 11 | | 40 (70) | 160 (135) | 30 (20) |
| | Toluene | 20 | 21.3 | ug/Kg | 106 | 8 | | 70 (83) | 130 (122) | 30 (20) |
| | t-1,3-Dichloropropene | 20 | 20.9 | ug/Kg | 104 | 12 | | 70 (78) | 130 (124) | 30 (20) |
| | cis-1,3-Dichloropropene | 20 | 21.9 | ug/Kg | 110 | 13 | | 70 (81) | 130 (122) | 30 (20) |
| | 1,1,2-Trichloroethane | 20 | 22.6 | ug/Kg | 113 | 10 | | 70 (82) | 130 (125) | 30 (20) |
| | 2-Hexanone | 100 | 110 | ug/Kg | 110 | 18 | | 40 (66) | 160 (138) | 30 (20) |
| | Dibromochloromethane | 20 | 23.4 | ug/Kg | 117 | 12 | | 70 (79) | 130 (125) | 30 (20) |
| | 1,2-Dibromoethane | 20 | 22.4 | ug/Kg | 112 | 7 | | 70 (80) | 130 (125) | 30 (20) |
| | Tetrachloroethene | 20 | 20.5 | ug/Kg | 103 | 3 | | 70 (83) | 130 (125) | 30 (20) |
| | Chlorobenzene | 20 | 20.3 | ug/Kg | 102 | 3 | | 70 (84) | 130 (122) | 30 (20) |
| | Ethyl Benzene | 20 | 19.3 | ug/Kg | 97 | 4 | | 70 (82) | 130 (124) | 30 (20) |
| | m/p-Xylenes | 40 | 39.5 | ug/Kg | 99 | 2 | | 70 (83) | 130 (124) | 30 (20) |
| | o-Xylene | 20 | 19.7 | ug/Kg | 99 | 0 | | 70 (83) | 130 (123) | 30 (20) |
| | Styrene | 20 | 20.5 | ug/Kg | 103 | 7 | | 70 (82) | 130 (124) | 30 (20) |
| | Bromoform | 20 | 21.6 | ug/Kg | 108 | 7 | | 70 (75) | 130 (127) | 30 (20) |
| | Isopropylbenzene | 20 | 19.9 | ug/Kg | 100 | 7 | | 70 (82) | 130 (124) | 30 (20) |
| | 1,1,2,2-Tetrachloroethane | 20 | 21.9 | ug/Kg | 110 | 10 | | 70 (77) | 130 (127) | 30 (20) |
| | 1,3-Dichlorobenzene | 20 | 20.6 | ug/Kg | 103 | 5 | | 70 (83) | 130 (122) | 30 (20) |
| | 1,4-Dichlorobenzene | 20 | 20.5 | ug/Kg | 103 | 5 | | 70 (84) | 130 (121) | 30 (20) |
| | 1,2-Dichlorobenzene | 20 | 20.9 | ug/Kg | 104 | 7 | | 70 (83) | 130 (124) | 30 (20) |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** SW8260D **Datafile :** VD080061.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VD1118SBSD01 | 1,2-Dibromo-3-Chloropropane | 20 | 22.6 | ug/Kg | 113 | 18 | | 40 (66) | 160 (134) | 30 (20) |
| | 1,2,4-Trichlorobenzene | 20 | 19.8 | ug/Kg | 99 | 3 | | 70 (78) | 130 (127) | 30 (20) |
| | 1,2,3-Trichlorobenzene | 20 | 20.8 | ug/Kg | 104 | 1 | | 70 (70) | 130 (137) | 30 (20) |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** SW8260D **Datafile :** VY020349.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1120SBS01 | Dichlorodifluoromethane | 20 | 21.8 | ug/Kg | 109 | | | 40 (64) | 160 (136) | |
| | Chloromethane | 20 | 14.5 | ug/Kg | 73 | | | 40 (70) | 160 (130) | |
| | Vinyl chloride | 20 | 16.0 | ug/Kg | 80 | | | 70 (72) | 130 (129) | |
| | Bromomethane | 20 | 16.6 | ug/Kg | 83 | | | 40 (58) | 160 (141) | |
| | Chloroethane | 20 | 15.9 | ug/Kg | 79 | | | 40 (69) | 160 (130) | |
| | Trichlorofluoromethane | 20 | 19.1 | ug/Kg | 96 | | | 40 (69) | 160 (134) | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 18.2 | ug/Kg | 91 | | | 70 (81) | 130 (123) | |
| | 1,1-Dichloroethene | 20 | 17.9 | ug/Kg | 90 | | | 70 (79) | 130 (121) | |
| | Acetone | 100 | 85.6 | ug/Kg | 86 | | | 40 (60) | 160 (131) | |
| | Carbon disulfide | 20 | 17.2 | ug/Kg | 86 | | | 40 (45) | 160 (154) | |
| | Methyl tert-butyl Ether | 20 | 17.6 | ug/Kg | 88 | | | 70 (77) | 130 (129) | |
| | Methyl Acetate | 20 | 16.3 | ug/Kg | 81 | | | 70 (69) | 130 (149) | |
| | Methylene Chloride | 20 | 17.3 | ug/Kg | 86 | | | 70 (56) | 130 (174) | |
| | trans-1,2-Dichloroethene | 20 | 17.2 | ug/Kg | 86 | | | 70 (80) | 130 (123) | |
| | 1,1-Dichloroethane | 20 | 17.6 | ug/Kg | 88 | | | 70 (82) | 130 (123) | |
| | Cyclohexane | 20 | 18.4 | ug/Kg | 92 | | | 70 (76) | 130 (122) | |
| | 2-Butanone | 100 | 92.7 | ug/Kg | 93 | | | 40 (69) | 160 (131) | |
| | Carbon Tetrachloride | 20 | 20.2 | ug/Kg | 101 | | | 70 (76) | 130 (129) | |
| | cis-1,2-Dichloroethene | 20 | 18.0 | ug/Kg | 90 | | | 70 (82) | 130 (123) | |
| | Bromochloromethane | 20 | 17.3 | ug/Kg | 86 | | | 70 (80) | 130 (127) | |
| | Chloroform | 20 | 17.6 | ug/Kg | 88 | | | 70 (82) | 130 (125) | |
| | 1,1,1-Trichloroethane | 20 | 18.7 | ug/Kg | 94 | | | 70 (80) | 130 (126) | |
| | Methylcyclohexane | 20 | 19.5 | ug/Kg | 98 | | | 70 (77) | 130 (123) | |
| | Benzene | 20 | 18.9 | ug/Kg | 95 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichloroethane | 20 | 19.0 | ug/Kg | 95 | | | 70 (81) | 130 (126) | |
| | Trichloroethene | 20 | 18.6 | ug/Kg | 93 | | | 70 (83) | 130 (122) | |
| | 1,2-Dichloropropane | 20 | 18.2 | ug/Kg | 91 | | | 70 (83) | 130 (122) | |
| | Bromodichloromethane | 20 | 18.4 | ug/Kg | 92 | | | 70 (82) | 130 (123) | |
| | 4-Methyl-2-Pentanone | 100 | 93.2 | ug/Kg | 93 | | | 40 (70) | 160 (135) | |
| | Toluene | 20 | 18.9 | ug/Kg | 95 | | | 70 (83) | 130 (122) | |
| | t-1,3-Dichloropropene | 20 | 18.2 | ug/Kg | 91 | | | 70 (78) | 130 (124) | |
| | cis-1,3-Dichloropropene | 20 | 18.9 | ug/Kg | 95 | | | 70 (81) | 130 (122) | |
| | 1,1,2-Trichloroethane | 20 | 17.9 | ug/Kg | 90 | | | 70 (82) | 130 (125) | |
| | 2-Hexanone | 100 | 94.7 | ug/Kg | 95 | | | 40 (66) | 160 (138) | |
| | Dibromochloromethane | 20 | 17.9 | ug/Kg | 90 | | | 70 (79) | 130 (125) | |
| | 1,2-Dibromoethane | 20 | 17.6 | ug/Kg | 88 | | | 70 (80) | 130 (125) | |
| | Tetrachloroethene | 20 | 18.4 | ug/Kg | 92 | | | 70 (83) | 130 (125) | |
| | Chlorobenzene | 20 | 18.3 | ug/Kg | 92 | | | 70 (84) | 130 (122) | |
| | Ethyl Benzene | 20 | 18.7 | ug/Kg | 94 | | | 70 (82) | 130 (124) | |
| | m/p-Xylenes | 40 | 38.1 | ug/Kg | 95 | | | 70 (83) | 130 (124) | |
| | o-Xylene | 20 | 18.6 | ug/Kg | 93 | | | 70 (83) | 130 (123) | |
| | Styrene | 20 | 19.2 | ug/Kg | 96 | | | 70 (82) | 130 (124) | |
| | Bromoform | 20 | 18.7 | ug/Kg | 94 | | | 70 (75) | 130 (127) | |
| | Isopropylbenzene | 20 | 18.5 | ug/Kg | 93 | | | 70 (82) | 130 (124) | |
| | 1,1,2,2-Tetrachloroethane | 20 | 17.3 | ug/Kg | 86 | | | 70 (77) | 130 (127) | |
| | 1,3-Dichlorobenzene | 20 | 17.8 | ug/Kg | 89 | | | 70 (83) | 130 (122) | |
| | 1,4-Dichlorobenzene | 20 | 18.1 | ug/Kg | 91 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichlorobenzene | 20 | 17.9 | ug/Kg | 90 | | | 70 (83) | 130 (124) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** SW8260D **Datafile :** VY020349.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1120SBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 17.3 | ug/Kg | 86 | | | 40 (66) | 160 (134) | |
| | 1,2,4-Trichlorobenzene | 20 | 18.2 | ug/Kg | 91 | | | 70 (78) | 130 (127) | |
| | 1,2,3-Trichlorobenzene | 20 | 18.2 | ug/Kg | 91 | | | 70 (70) | 130 (137) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**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.:** P4860

**Client:** Tetra Tech

**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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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VD1118SBL01

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Lab File ID: VD080059.D Lab Sample ID: VD1118SBL01

Date Analyzed: 11/18/2024 Time Analyzed: 10:27

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_D

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VD1118SBS01 | VD1118SBS01 | VD080060.D | 11/18/2024 |
| VD1118SBSD01 | VD1118SBSD01 | VD080061.D | 11/18/2024 |
| DUP-01 | P4860-01 | VD080072.D | 11/18/2024 |
| PH2-BOT-001 | P4860-02 | VD080073.D | 11/18/2024 |
| PH2-BOT-003 | P4860-04 | VD080075.D | 11/18/2024 |
| PH2-BOT-004 | P4860-05 | VD080076.D | 11/18/2024 |
| PH2-BOT-008 | P4860-07 | VD080078.D | 11/18/2024 |
| PH2-BOT-007 | P4860-08 | VD080079.D | 11/18/2024 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1120SBL01

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Lab File ID: VY020348.D Lab Sample ID: VY1120SBL01

Date Analyzed: 11/20/2024 Time Analyzed: 10:07

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 |
|---|---|---|---|
| VY1120SBS01 | VY1120SBS01 | VY020349.D | 11/20/2024 |
| PH2-BOT-002 | P4860-03 | VY020368.D | 11/20/2024 |
| PH2-BOT-009 | P4860-06 | VY020369.D | 11/20/2024 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1121SBL01

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

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 |
| PH2-BOT-005 | P4860-10 | VY020389.D | 11/21/2024 |
| PH2-BOT-006 | P4860-09 | VY020390.D | 11/21/2024 |

COMMENTS:

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Lab File ID: VD080019.D BFB Injection Date: 11/15/2024

Instrument ID: MSVOA_D BFB Injection Time: 09:14

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 17.1 |
| 75 | 30.0 - 60.0% of mass 95 | 50.2 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.4 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 90.2 |
| 175 | 5.0 - 9.0% of mass 174 | 7.3 ( 8.1 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 87.4 ( 97 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.9 ( 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 |
|---|---|---|---|---|
| VSTDICC005 | VSTDICC005 | VD080020.D | 11/15/2024 | 10:04 |
| VSTDICC010 | VSTDICC010 | VD080021.D | 11/15/2024 | 10:31 |
| VSTDICC020 | VSTDICC020 | VD080022.D | 11/15/2024 | 10:58 |
| VSTDICCC050 | VSTDICCC050 | VD080023.D | 11/15/2024 | 11:24 |
| VSTDICC100 | VSTDICC100 | VD080024.D | 11/15/2024 | 11:51 |
| VSTDICC150 | VSTDICC150 | VD080025.D | 11/15/2024 | 12:18 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Lab File ID: VD080057.D BFB Injection Date: 11/18/2024

Instrument ID: MSVOA_D BFB Injection Time: 09:21

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 16.4 |
| 75 | 30.0 - 60.0% of mass 95 | 49.1 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.5 |
| 173 | Less than 2.0% of mass 174 | 0.7 ( 0.8 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 93 |
| 175 | 5.0 - 9.0% of mass 174 | 7.3 ( 7.9 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 92 ( 98.9 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.8 ( 6.3 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VD080058.D | 11/18/2024 | 09:51 |
| VD1118SBL01 | VD1118SBL01 | VD080059.D | 11/18/2024 | 10:27 |
| VD1118SBS01 | VD1118SBS01 | VD080060.D | 11/18/2024 | 10:55 |
| VD1118SBSD01 | VD1118SBSD01 | VD080061.D | 11/18/2024 | 11:22 |
| DUP-01 | P4860-01 | VD080072.D | 11/18/2024 | 16:39 |
| PH2-BOT-001 | P4860-02 | VD080073.D | 11/18/2024 | 17:06 |
| PH2-BOT-003 | P4860-04 | VD080075.D | 11/18/2024 | 18:00 |
| PH2-BOT-004 | P4860-05 | VD080076.D | 11/18/2024 | 18:28 |
| PH2-BOT-008 | P4860-07 | VD080078.D | 11/18/2024 | 19:22 |
| PH2-BOT-007 | P4860-08 | VD080079.D | 11/18/2024 | 19:49 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

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: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Lab File ID: VY020346.D BFB Injection Date: 11/20/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:23

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 20.6 |
| 75 | 30.0 - 60.0% of mass 95 | 56.6 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.5 |
| 173 | Less than 2.0% of mass 174 | 0.4 ( 0.5 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 76 |
| 175 | 5.0 - 9.0% of mass 174 | 6.1 ( 8 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 72.7 ( 95.6 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.1 ( 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 | VY020347.D | 11/20/2024 | 09:34 |
| VY1120SBL01 | VY1120SBL01 | VY020348.D | 11/20/2024 | 10:07 |
| VY1120SBS01 | VY1120SBS01 | VY020349.D | 11/20/2024 | 10:53 |
| PH2-BOT-002 | P4860-03 | VY020368.D | 11/20/2024 | 18:35 |
| PH2-BOT-009 | P4860-06 | VY020369.D | 11/20/2024 | 18:58 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

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 |
| PH2-BOT-005 | P4860-10 | VY020389.D | 11/21/2024 | 16:06 |
| PH2-BOT-006 | P4860-09 | VY020390.D | 11/21/2024 | 16:30 |

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Lab File ID: VD080058.D Date Analyzed: 11/18/2024

Instrument ID: MSVOA_D Time Analyzed: 09:51

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 175845 | 7.88 | 262205 | 8.78 | 246582 | 11.58 |
| UPPER LIMIT | 351690 | 8.375 | 524410 | 9.281 | 493164 | 12.081 |
| LOWER LIMIT | 87922.5 | 7.375 | 131103 | 8.281 | 123291 | 11.081 |
| EPA SAMPLE NO. | | | | | | |
| DUP-01 | 213473 | 7.88 | 350981 | 8.78 | 340318 | 11.58 |
| PH2-BOT-001 | 219259 | 7.88 | 366320 | 8.78 | 329102 | 11.58 |
| PH2-BOT-003 | 207332 | 7.88 | 367976 | 8.78 | 326426 | 11.58 |
| PH2-BOT-004 | 200921 | 7.88 | 364222 | 8.78 | 324341 | 11.58 |
| PH2-BOT-008 | 209792 | 7.88 | 360025 | 8.78 | 320832 | 11.58 |
| PH2-BOT-007 | 216854 | 7.88 | 352745 | 8.78 | 326096 | 11.58 |
| VD1118SBL01 | 175706 | 7.88 | 294729 | 8.78 | 273326 | 11.58 |
| VD1118SBS01 | 178101 | 7.88 | 282863 | 8.78 | 258933 | 11.58 |
| VD1118SBSD01 | 185362 | 7.88 | 285036 | 8.78 | 278035 | 11.58 |

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: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Lab File ID: VD080058.D Date Analyzed: 11/18/2024

Instrument ID: MSVOA_D Time Analyzed: 09:51

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 138959 | 13.516 | | | | |
| UPPER LIMIT | 277918 | 14.016 | | | | |
| LOWER LIMIT | 69479.5 | 13.016 | | | | |
| EPA SAMPLE NO. | | | | | | |
| DUP-01 | 150840 | 13.52 | | | | |
| PH2-BOT-001 | 146457 | 13.52 | | | | |
| PH2-BOT-003 | 150989 | 13.52 | | | | |
| PH2-BOT-004 | 143861 | 13.52 | | | | |
| PH2-BOT-008 | 141967 | 13.52 | | | | |
| PH2-BOT-007 | 151026 | 13.52 | | | | |
| VD1118SBL01 | 122131 | 13.52 | | | | |
| VD1118SBS01 | 141556 | 13.52 | | | | |
| VD1118SBSD01 | 143766 | 13.52 | | | | |

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: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Lab File ID: VY020347.D Date Analyzed: 11/20/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:34

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 | 225214 | 7.71 | 368816 | 8.62 | 305686 | 11.42 |
| UPPER LIMIT | 450428 | 8.213 | 737632 | 9.122 | 611372 | 11.92 |
| LOWER LIMIT | 112607 | 7.213 | 184408 | 8.122 | 152843 | 10.92 |
| EPA SAMPLE NO. | | | | | | |
| PH2-BOT-002 | 137679 | 7.71 | 269671 | 8.62 | 257307 | 11.41 |
| PH2-BOT-009 | 142975 | 7.71 | 273649 | 8.62 | 253521 | 11.41 |
| VY1120SBL01 | 160712 | 7.71 | 312610 | 8.62 | 282610 | 11.42 |
| VY1120SBS01 | 210349 | 7.71 | 347339 | 8.62 | 288195 | 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: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Lab File ID: VY020347.D Date Analyzed: 11/20/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:34

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 139421 | 13.352 | | | | |
| UPPER LIMIT | 278842 | 13.852 | | | | |
| LOWER LIMIT | 69710.5 | 12.852 | | | | |
| EPA SAMPLE NO. | | | | | | |
| PH2-BOT-002 | 102362 | 13.35 | | | | |
| PH2-BOT-009 | 99327 | 13.35 | | | | |
| VY1120SBL01 | 104132 | 13.35 | | | | |
| VY1120SBS01 | 135305 | 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: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

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. | | | | | | |
| PH2-BOT-006 | 140871 | 7.71 | 273565 | 8.62 | 262252 | 11.41 |
| PH2-BOT-005 | 140636 | 7.71 | 270374 | 8.62 | 252016 | 11.41 |
| VY1121SBL01 | 139506 | 7.71 | 270751 | 8.62 | 245370 | 11.42 |
| VY1121SBS01 | 180247 | 7.71 | 303523 | 8.62 | 255135 | 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: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

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. | | | | | | |
| PH2-BOT-006 | 106466 | 13.35 | | | | |
| PH2-BOT-005 | 101642 | 13.35 | | | | |
| VY1121SBL01 | 89046 | 13.35 | | | | |
| VY1121SBS01 | 121310 | 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VD1118SBL01 | SDG No.: | P4860 |
| Lab Sample ID: | VD1118SBL01 | 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: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080059.D | 1 | | 11/18/24 10:27 | VD111824 |

| 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VD1118SBL01 | SDG No.: | P4860 |
| Lab Sample ID: | VD1118SBL01 | 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: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080059.D | 1 | | 11/18/24 10:27 | VD111824 |

| 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 | 49.5 | | 70 (50) - 130 (163) | 99% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.9 | | 70 (54) - 130 (147) | 98% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 44.4 | | 70 (58) - 130 (134) | 89% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 41.2 | | 70 (29) - 130 (146) | 82% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 176000 | 7.875 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 295000 | 8.781 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 273000 | 11.581 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 122000 | 13.516 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VD1118SBL01 | SDG No.: | P4860 |
| Lab Sample ID: | VD1118SBL01 | 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: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080059.D | 1 | | 11/18/24 10:27 | VD111824 |

| 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VY1120SBL01 | SDG No.: | P4860 |
| Lab Sample ID: | VY1120SBL01 | 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 |
|---|---|---|---|---|
| VY020348.D | 1 | | 11/20/24 10:07 | VY112024 |

| 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VY1120SBL01 | SDG No.: | P4860 |
| Lab Sample ID: | VY1120SBL01 | 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 |
|---|---|---|---|---|
| VY020348.D | 1 | | 11/20/24 10:07 | VY112024 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.60 | U | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.57 | U | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.84 | U | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 4.80 | U | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.65 | U | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.79 | U | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.89 | U | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.74 | U | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.62 | U | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.40 | U | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 0.70 | U | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 0.60 | U | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.81 | U | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.74 | U | 0.74 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.80 | U | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.59 | U | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.60 | U | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.79 | U | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.2 | | 70 (50) - 130 (163) | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.3 | | 70 (54) - 130 (147) | 97% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.1 | | 70 (58) - 130 (134) | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 48.3 | | 70 (29) - 130 (146) | 97% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 161000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 313000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 283000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 104000 | 13.346 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VY1120SBL01 | SDG No.: | P4860 |
| Lab Sample ID: | VY1120SBL01 | 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 |
|---|---|---|---|---|
| VY020348.D | 1 | | 11/20/24 10:07 | VY112024 |

| 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VY1121SBL01 | SDG No.: | P4860 |
| 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VY1121SBL01 | SDG No.: | P4860 |
| 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VY1121SBL01 | SDG No.: | P4860 |
| 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VD1118SBS01 | SDG No.: | P4860 |
| Lab Sample ID: | VD1118SBS01 | 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: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080060.D | 1 | | 11/18/24 10:55 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 18.2 | | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 19.8 | | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 20.3 | | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 21.3 | | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 22.5 | | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 21.3 | | 0.91 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 20.6 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 19.0 | | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 96.9 | | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 18.8 | | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 18.2 | | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 19.2 | | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 19.9 | | 3.40 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 18.5 | | 0.84 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 19.0 | | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 18.3 | | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 83.2 | | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 19.8 | | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 18.4 | | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 17.9 | | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 20.1 | | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 20.8 | | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 18.3 | | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 19.3 | | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 20.3 | | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 19.6 | | 0.75 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 20.0 | | 0.66 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 19.5 | | 0.56 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 98.5 | | 4.40 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 19.5 | | 0.67 | 5.00 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VD1118SBS01 | SDG No.: | P4860 |
| Lab Sample ID: | VD1118SBS01 | 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: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080060.D | 1 | | 11/18/24 10:55 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 18.3 | | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 19.3 | | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 20.3 | | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 92.0 | | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 20.9 | | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 20.9 | | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 21.2 | | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 19.7 | | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 18.5 | | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 38.7 | | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 19.7 | | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 19.2 | | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 20.2 | | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 18.5 | | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 19.9 | | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 19.6 | | 0.74 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 19.5 | | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 19.4 | | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 18.7 | | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20.4 | | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.5 | | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.4 | | 70 (50) - 130 (163) | 99% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.8 | | 70 (54) - 130 (147) | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.0 | | 70 (58) - 130 (134) | 102% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.4 | | 70 (29) - 130 (146) | 101% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 178000 | 7.875 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 283000 | 8.775 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 259000 | 11.581 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 142000 | 13.516 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VD1118SBS01 | SDG No.: | P4860 |
| Lab Sample ID: | VD1118SBS01 | 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: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080060.D | 1 | | 11/18/24 10:55 | VD111824 |

| 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VY1120SBS01 | SDG No.: | P4860 |
| Lab Sample ID: | VY1120SBS01 | 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 |
|---|---|---|---|---|
| VY020349.D | 1 | | 11/20/24 10:53 | VY112024 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 21.8 | | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 14.5 | | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 16.0 | | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 16.6 | | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 15.9 | | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 19.1 | | 0.91 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 18.2 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 17.9 | | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 85.6 | | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 17.2 | | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 17.6 | | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 16.3 | | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 17.3 | | 3.40 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 17.2 | | 0.84 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 17.6 | | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 18.4 | | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 92.7 | | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 20.2 | | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 18.0 | | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 17.3 | | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 17.6 | | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 18.7 | | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 19.5 | | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 18.9 | | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 19.0 | | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 18.6 | | 0.75 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 18.2 | | 0.66 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 18.4 | | 0.56 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 93.2 | | 4.40 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 18.9 | | 0.67 | 5.00 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VY1120SBS01 | SDG No.: | P4860 |
| Lab Sample ID: | VY1120SBS01 | 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 |
|---|---|---|---|---|
| VY020349.D | 1 | | 11/20/24 10:53 | VY112024 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 18.2 | | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 18.9 | | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 17.9 | | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 94.7 | | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 17.9 | | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 17.6 | | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 18.4 | | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 18.3 | | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 18.7 | | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 38.1 | | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 18.6 | | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 19.2 | | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 18.7 | | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 18.5 | | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 17.3 | | 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 | 18.1 | | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 17.9 | | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 17.3 | | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 18.2 | | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 18.2 | | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 43.3 | | 70 (50) - 130 (163) | 87% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 41.3 | | 70 (54) - 130 (147) | 83% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 42.7 | | 70 (58) - 130 (134) | 85% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.2 | | 70 (29) - 130 (146) | 88% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 210000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 347000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 288000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 135000 | 13.353 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VY1120SBS01 | SDG No.: | P4860 |
| Lab Sample ID: | VY1120SBS01 | 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 |
|---|---|---|---|---|
| VY020349.D | 1 | | 11/20/24 10:53 | VY112024 |

| 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VY1121SBS01 | SDG No.: | P4860 |
| 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VY1121SBS01 | SDG No.: | P4860 |
| 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VY1121SBS01 | SDG No.: | P4860 |
| 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VD1118SBSD01 | SDG No.: | P4860 |
| Lab Sample ID: | VD1118SBSD01 | 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: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080061.D | 1 | | 11/18/24 11:22 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 18.6 | | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 17.2 | | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 17.9 | | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 17.1 | | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 17.5 | | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 19.7 | | 0.91 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 21.0 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 20.1 | | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 110 | | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 19.7 | | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 20.9 | | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 21.7 | | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 21.4 | | 3.40 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 20.2 | | 0.84 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 20.2 | | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 19.0 | | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 100 | | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 21.5 | | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 20.3 | | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 18.2 | | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 21.0 | | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 20.6 | | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 19.6 | | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 20.8 | | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 22.1 | | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 20.5 | | 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 | 21.3 | | 0.67 | 5.00 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VD1118SBSD01 | SDG No.: | P4860 |
| Lab Sample ID: | VD1118SBSD01 | 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: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080061.D | 1 | | 11/18/24 11:22 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 20.9 | | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 21.9 | | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 22.6 | | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 110 | | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 23.4 | | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 22.4 | | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 20.5 | | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 20.3 | | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 19.3 | | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 39.5 | | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 19.7 | | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 20.5 | | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 21.6 | | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 19.9 | | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 21.9 | | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 20.6 | | 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 | 20.9 | | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 22.6 | | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 19.8 | | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.8 | | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 48.0 | | 70 (50) - 130 (163) | 96% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.2 | | 70 (54) - 130 (147) | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.0 | | 70 (58) - 130 (134) | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.4 | | 70 (29) - 130 (146) | 101% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 185000 | 7.875 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 285000 | 8.781 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 278000 | 11.581 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 144000 | 13.516 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | VD1118SBSD01 | SDG No.: | P4860 |
| Lab Sample ID: | VD1118SBSD01 | 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: | RTX-VMS ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VD080061.D | 1 | | 11/18/24 11:22 | VD111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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

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

# CALIBRATION SUMMARY

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# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: MSVOA_D Calibration Date(s): 11/15/2024 11/15/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:04 12:18

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF005 = VD080020.D RRF010 = VD080021.D RRF020 = VD080022.D
RRF050 = VD080023.D RRF100 = VD080024.D RRF150 = VD080025.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.465 | 0.388 | 0.364 | 0.396 | 0.396 | 0.399 | 0.401 | 8.4 |
| Chloromethane | 0.330 | 0.348 | 0.279 | 0.276 | 0.281 | 0.257 | 0.295 | 12.1 |
| Vinyl Chloride | 0.377 | 0.390 | 0.312 | 0.322 | 0.330 | 0.290 | 0.337 | 11.5 |
| Bromomethane | 0.451 | 0.498 | 0.345 | 0.305 | 0.347 | 0.296 | 0.374 | 22 |
| Chloroethane | 0.254 | 0.309 | 0.228 | 0.208 | 0.251 | 0.195 | 0.241 | 16.9 |
| Trichlorofluoromethane | 0.935 | 0.919 | 0.763 | 0.766 | 0.824 | 0.758 | 0.827 | 9.8 |
| 1,1,2-Trichlorotrifluoroethane | 0.571 | 0.563 | 0.486 | 0.481 | 0.498 | 0.503 | 0.517 | 7.6 |
| 1,1-Dichloroethene | 0.535 | 0.540 | 0.494 | 0.491 | 0.519 | 0.529 | 0.518 | 4.1 |
| Acetone | 0.101 | 0.116 | 0.091 | 0.106 | 0.132 | 0.124 | 0.112 | 13.6 |
| Carbon Disulfide | 1.724 | 1.793 | 1.552 | 1.554 | 1.697 | 1.690 | 1.668 | 5.8 |
| Methyl tert-butyl Ether | 0.877 | 1.057 | 1.011 | 1.088 | 1.156 | 1.153 | 1.057 | 9.9 |
| Methyl Acetate | 0.270 | 0.251 | 0.248 | 0.214 | 0.255 | 0.249 | 0.248 | 7.5 |
| Methylene Chloride | 0.643 | 0.628 | 0.612 | 0.556 | 0.581 | 0.575 | 0.599 | 5.6 |
| trans-1,2-Dichloroethene | 0.589 | 0.579 | 0.536 | 0.578 | 0.579 | 0.576 | 0.573 | 3.3 |
| 1,1-Dichloroethane | 1.015 | 1.040 | 0.961 | 0.973 | 0.974 | 0.972 | 0.989 | 3.2 |
| Cyclohexane | 0.945 | 0.869 | 0.780 | 0.797 | 0.811 | 0.828 | 0.838 | 7.2 |
| 2-Butanone | 0.135 | 0.141 | 0.139 | 0.154 | 0.155 | 0.152 | 0.146 | 5.8 |
| Carbon Tetrachloride | 0.521 | 0.515 | 0.482 | 0.491 | 0.483 | 0.490 | 0.497 | 3.4 |
| cis-1,2-Dichloroethene | 0.665 | 0.649 | 0.620 | 0.656 | 0.675 | 0.679 | 0.657 | 3.2 |
| Bromochloromethane | 0.506 | 0.495 | 0.416 | 0.406 | 0.402 | 0.415 | 0.440 | 10.7 |
| Chloroform | 1.057 | 1.143 | 1.012 | 1.019 | 1.006 | 1.015 | 1.042 | 5 |
| 1,1,1-Trichloroethane | 0.970 | 0.930 | 0.851 | 0.869 | 0.864 | 0.867 | 0.892 | 5.3 |
| Methylcyclohexane | 0.517 | 0.515 | 0.476 | 0.556 | 0.583 | 0.604 | 0.542 | 8.9 |
| Benzene | 1.391 | 1.430 | 1.351 | 1.436 | 1.439 | 1.463 | 1.418 | 2.8 |
| 1,2-Dichloroethane | 0.376 | 0.382 | 0.350 | 0.368 | 0.367 | 0.359 | 0.367 | 3.1 |
| Trichloroethene | 0.378 | 0.389 | 0.341 | 0.361 | 0.361 | 0.372 | 0.367 | 4.5 |
| 1,2-Dichloropropane | 0.333 | 0.345 | 0.329 | 0.352 | 0.342 | 0.344 | 0.341 | 2.5 |
| Bromodichloromethane | 0.513 | 0.504 | 0.472 | 0.499 | 0.492 | 0.497 | 0.496 | 2.8 |
| 4-Methyl-2-Pentanone | 0.160 | 0.164 | 0.172 | 0.193 | 0.197 | 0.193 | 0.180 | 9.1 |
| Toluene | 0.814 | 0.864 | 0.823 | 0.917 | 0.927 | 0.945 | 0.881 | 6.4 |

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

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# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: MSVOA_D Calibration Date(s): 11/15/2024 11/15/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:04 12:18

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF005 = VD080020.D RRF010 = VD080021.D RRF020 = VD080022.D
RRF050 = VD080023.D RRF100 = VD080024.D RRF150 = VD080025.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.401 | 0.440 | 0.420 | 0.459 | 0.465 | 0.471 | 0.442 | 6.2 |
| cis-1,3-Dichloropropene | 0.490 | 0.501 | 0.506 | 0.542 | 0.549 | 0.555 | 0.524 | 5.3 |
| 1,1,2-Trichloroethane | 0.256 | 0.276 | 0.250 | 0.267 | 0.262 | 0.263 | 0.262 | 3.4 |
| 2-Hexanone | 0.108 | 0.124 | 0.122 | 0.147 | 0.148 | 0.145 | 0.132 | 12.5 |
| Dibromochloromethane | 0.317 | 0.348 | 0.320 | 0.349 | 0.343 | 0.349 | 0.338 | 4.5 |
| 1,2-Dibromoethane | 0.234 | 0.251 | 0.237 | 0.252 | 0.256 | 0.255 | 0.247 | 3.9 |
| Tetrachloroethene | 0.386 | 0.365 | 0.337 | 0.342 | 0.352 | 0.355 | 0.356 | 5 |
| Chlorobenzene | 1.138 | 1.102 | 1.024 | 1.070 | 1.095 | 1.116 | 1.091 | 3.6 |
| Ethyl Benzene | 1.740 | 1.714 | 1.693 | 1.866 | 1.965 | 2.002 | 1.830 | 7.3 |
| m/p-Xylenes | 0.647 | 0.688 | 0.683 | 0.727 | 0.766 | 0.780 | 0.715 | 7.2 |
| o-Xylene | 0.542 | 0.595 | 0.604 | 0.670 | 0.720 | 0.726 | 0.643 | 11.5 |
| Styrene | 0.969 | 1.068 | 1.105 | 1.212 | 1.259 | 1.271 | 1.148 | 10.5 |
| Bromoform | 0.240 | 0.222 | 0.215 | 0.223 | 0.222 | 0.221 | 0.224 | 3.8 |
| Isopropylbenzene | 3.045 | 3.093 | 2.974 | 3.271 | 3.463 | 3.501 | 3.224 | 6.9 |
| 1,1,2,2-Tetrachloroethane | 0.661 | 0.656 | 0.585 | 0.608 | 0.612 | 0.597 | 0.620 | 5.1 |
| 1,3-Dichlorobenzene | 1.711 | 1.653 | 1.627 | 1.688 | 1.735 | 1.768 | 1.697 | 3.1 |
| 1,4-Dichlorobenzene | 1.809 | 1.769 | 1.608 | 1.661 | 1.692 | 1.686 | 1.704 | 4.3 |
| 1,2-Dichlorobenzene | 1.500 | 1.502 | 1.408 | 1.473 | 1.502 | 1.494 | 1.480 | 2.5 |
| 1,2-Dibromo-3-Chloropropane | 0.083 | 0.109 | 0.090 | 0.091 | 0.096 | 0.093 | 0.094 | 8.9 |
| 1,2,4-Trichlorobenzene | 0.913 | 0.860 | 0.855 | 0.923 | 1.001 | 1.014 | 0.928 | 7.3 |
| 1,2,3-Trichlorobenzene | 0.766 | 0.782 | 0.751 | 0.825 | 0.873 | 0.891 | 0.815 | 7.1 |
| 1,2-Dichloroethane-d4 | 0.554 | 0.532 | 0.451 | 0.526 | 0.504 | 0.523 | 0.515 | 6.8 |
| Dibromofluoromethane | 0.335 | 0.357 | 0.285 | 0.338 | 0.329 | 0.354 | 0.333 | 7.8 |
| Toluene-d8 | 1.162 | 1.249 | 1.087 | 1.330 | 1.303 | 1.393 | 1.254 | 9 |
| 4-Bromofluorobenzene | 0.388 | 0.392 | 0.353 | 0.435 | 0.437 | 0.464 | 0.411 | 9.9 |

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

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# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

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: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

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.

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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: MSVOA_D Calibration Date/Time: 11/18/2024 09:51

Lab File ID: VD080058.D Init. Calib. Date(s): 11/15/2024 11/15/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:04 12:18

GC Column: RTX-VMS ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.401 | 0.410 | | 2.24 | 20 |
| Chloromethane | 0.295 | 0.265 | 0.1 | -10.17 | 20 |
| Vinyl Chloride | 0.337 | 0.308 | | -8.6 | 20 |
| Bromomethane | 0.374 | 0.322 | | -13.9 | 20 |
| Chloroethane | 0.241 | 0.206 | | -14.52 | 20 |
| Trichlorofluoromethane | 0.827 | 0.852 | | 3.02 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.517 | 0.574 | | 11.02 | 20 |
| 1,1-Dichloroethene | 0.518 | 0.539 | | 4.05 | 20 |
| Acetone | 0.112 | 0.136 | | 21.43 | 20 |
| Carbon Disulfide | 1.668 | 1.742 | | 4.44 | 20 |
| Methyl tert-butyl Ether | 1.057 | 1.138 | | 7.66 | 20 |
| Methyl Acetate | 0.248 | 0.252 | | 1.61 | 20 |
| Methylene Chloride | 0.599 | 0.607 | | 1.34 | 20 |
| trans-1,2-Dichloroethene | 0.573 | 0.612 | | 6.81 | 20 |
| 1,1-Dichloroethane | 0.989 | 1.006 | 0.1 | 1.72 | 20 |
| Cyclohexane | 0.838 | 0.852 | | 1.67 | 20 |
| 2-Butanone | 0.146 | 0.160 | | 9.59 | 20 |
| Carbon Tetrachloride | 0.497 | 0.570 | | 14.69 | 20 |
| cis-1,2-Dichloroethene | 0.657 | 0.682 | | 3.81 | 20 |
| Bromochloromethane | 0.440 | 0.409 | | -7.05 | 20 |
| Chloroform | 1.042 | 1.115 | | 7.01 | 20 |
| 1,1,1-Trichloroethane | 0.892 | 0.953 | | 6.84 | 20 |
| Methylcyclohexane | 0.542 | 0.647 | | 19.37 | 20 |
| Benzene | 1.418 | 1.574 | | 11 | 20 |
| 1,2-Dichloroethane | 0.367 | 0.414 | | 12.81 | 20 |
| Trichloroethene | 0.367 | 0.403 | | 9.81 | 20 |
| 1,2-Dichloropropane | 0.341 | 0.380 | | 11.44 | 20 |
| Bromodichloromethane | 0.496 | 0.561 | | 13.1 | 20 |
| 4-Methyl-2-Pentanone | 0.180 | 0.222 | | 23.33 | 20 |
| Toluene | 0.881 | 1.039 | | 17.93 | 20 |
| t-1,3-Dichloropropene | 0.442 | 0.504 | | 14.03 | 20 |
| cis-1,3-Dichloropropene | 0.524 | 0.597 | | 13.93 | 20 |
| 1,1,2-Trichloroethane | 0.262 | 0.299 | | 14.12 | 20 |
| 2-Hexanone | 0.132 | 0.172 | | 30.3 | 20 |
| Dibromochloromethane | 0.338 | 0.402 | | 18.93 | 20 |
| 1,2-Dibromoethane | 0.247 | 0.292 | | 18.22 | 20 |
| Tetrachloroethene | 0.356 | 0.401 | | 12.64 | 20 |
| Chlorobenzene | 1.091 | 1.194 | 0.3 | 9.44 | 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: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: MSVOA_D Calibration Date/Time: 11/18/2024 09:51

Lab File ID: VD080058.D Init. Calib. Date(s): 11/15/2024 11/15/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:04 12:18

GC Column: RTX-VMS ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.830 | 2.115 | | 15.57 | 20 |
| m/p-Xylenes | 0.715 | 0.835 | | 16.78 | 20 |
| o-Xylene | 0.643 | 0.755 | | 17.42 | 20 |
| Styrene | 1.148 | 1.353 | | 17.86 | 20 |
| Bromoform | 0.224 | 0.262 | 0.1 | 16.96 | 20 |
| Isopropylbenzene | 3.224 | 3.560 | | 10.42 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.620 | 0.671 | 0.3 | 8.23 | 20 |
| 1,3-Dichlorobenzene | 1.697 | 1.841 | | 8.49 | 20 |
| 1,4-Dichlorobenzene | 1.704 | 1.824 | | 7.04 | 20 |
| 1,2-Dichlorobenzene | 1.480 | 1.593 | | 7.64 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.094 | 0.097 | | 3.19 | 20 |
| 1,2,4-Trichlorobenzene | 0.928 | 1.118 | | 20.47 | 20 |
| 1,2,3-Trichlorobenzene | 0.815 | 0.928 | | 13.86 | 20 |
| 1,2-Dichloroethane-d4 | 0.515 | 0.514 | | -0.19 | 20 |
| Dibromofluoromethane | 0.333 | 0.359 | | 7.81 | 20 |
| Toluene-d8 | 1.254 | 1.382 | | 10.21 | 20 |
| 4-Bromofluorobenzene | 0.411 | 0.467 | | 13.63 | 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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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: MSVOA_Y Calibration Date/Time: 11/20/2024 09:34

Lab File ID: VY020347.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 | 0.550 | | 13.4 | 20 |
| Chloromethane | 0.735 | 0.591 | 0.1 | -19.59 | 20 |
| Vinyl Chloride | 0.666 | 0.589 | | -11.56 | 20 |
| Bromomethane | 0.333 | 0.311 | | -6.61 | 20 |
| Chloroethane | 0.388 | 0.354 | | -8.76 | 20 |
| Trichlorofluoromethane | 0.925 | 0.956 | | 3.35 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.551 | 0.547 | | -0.73 | 20 |
| 1,1-Dichloroethene | 0.545 | 0.537 | | -1.47 | 20 |
| Acetone | 0.138 | 0.155 | | 12.32 | 20 |
| Carbon Disulfide | 1.838 | 1.781 | | -3.1 | 20 |
| Methyl tert-butyl Ether | 1.417 | 1.362 | | -3.88 | 20 |
| Methyl Acetate | 0.321 | 0.302 | | -5.92 | 20 |
| Methylene Chloride | 0.583 | 0.553 | | -5.15 | 20 |
| trans-1,2-Dichloroethene | 0.606 | 0.587 | | -3.13 | 20 |
| 1,1-Dichloroethane | 1.173 | 1.127 | 0.1 | -3.92 | 20 |
| Cyclohexane | 1.071 | 1.061 | | -1.03 | 20 |
| 2-Butanone | 0.177 | 0.192 | | 8.48 | 20 |
| Carbon Tetrachloride | 0.511 | 0.567 | | 10.96 | 20 |
| cis-1,2-Dichloroethene | 0.667 | 0.661 | | -0.9 | 20 |
| Bromochloromethane | 0.494 | 0.453 | | -8.3 | 20 |
| Chloroform | 1.133 | 1.085 | | -4.24 | 20 |
| 1,1,1-Trichloroethane | 0.995 | 1.011 | | 1.61 | 20 |
| Methylcyclohexane | 0.613 | 0.670 | | 9.3 | 20 |
| Benzene | 1.435 | 1.470 | | 2.44 | 20 |
| 1,2-Dichloroethane | 0.387 | 0.400 | | 3.36 | 20 |
| Trichloroethene | 0.340 | 0.345 | | 1.47 | 20 |
| 1,2-Dichloropropane | 0.342 | 0.347 | | 1.46 | 20 |
| Bromodichloromethane | 0.484 | 0.494 | | 2.07 | 20 |
| 4-Methyl-2-Pentanone | 0.221 | 0.229 | | 3.62 | 20 |
| Toluene | 0.877 | 0.892 | | 1.71 | 20 |
| t-1,3-Dichloropropene | 0.458 | 0.466 | | 1.75 | 20 |
| cis-1,3-Dichloropropene | 0.524 | 0.550 | | 4.96 | 20 |
| 1,1,2-Trichloroethane | 0.233 | 0.225 | | -3.43 | 20 |
| 2-Hexanone | 0.157 | 0.176 | | 12.1 | 20 |
| Dibromochloromethane | 0.300 | 0.305 | | 1.67 | 20 |
| 1,2-Dibromoethane | 0.216 | 0.209 | | -3.24 | 20 |
| Tetrachloroethene | 0.360 | 0.363 | | 0.83 | 20 |
| Chlorobenzene | 1.115 | 1.114 | 0.3 | -0.09 | 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: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: MSVOA_Y Calibration Date/Time: 11/20/2024 09:34

Lab File ID: VY020347.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 | 2.117 | | 2.92 | 20 |
| m/p-Xylenes | 0.741 | 0.770 | | 3.91 | 20 |
| o-Xylene | 0.703 | 0.726 | | 3.27 | 20 |
| Styrene | 1.167 | 1.218 | | 4.37 | 20 |
| Bromoform | 0.194 | 0.200 | 0.1 | 3.09 | 20 |
| Isopropylbenzene | 4.236 | 4.367 | | 3.09 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.685 | 0.666 | 0.3 | -2.77 | 20 |
| 1,3-Dichlorobenzene | 1.794 | 1.743 | | -2.84 | 20 |
| 1,4-Dichlorobenzene | 1.714 | 1.708 | | -0.35 | 20 |
| 1,2-Dichlorobenzene | 1.495 | 1.493 | | -0.13 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.112 | 0.109 | | -2.68 | 20 |
| 1,2,4-Trichlorobenzene | 0.904 | 0.954 | | 5.53 | 20 |
| 1,2,3-Trichlorobenzene | 0.773 | 0.794 | | 2.72 | 20 |
| 1,2-Dichloroethane-d4 | 0.574 | 0.565 | | -1.57 | 20 |
| Dibromofluoromethane | 0.321 | 0.306 | | -4.67 | 20 |
| Toluene-d8 | 1.263 | 1.246 | | -1.35 | 20 |
| 4-Bromofluorobenzene | 0.406 | 0.409 | | 0.74 | 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: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

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: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

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.

# SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080072.D
Acq On : 18 Nov 2024 16:39
Operator : RP/MD
Sample : P4860-01
Misc : 6.22G/5ml/MSVOA_D/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
DUP-01

Quant Time: Nov 19 04:48:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

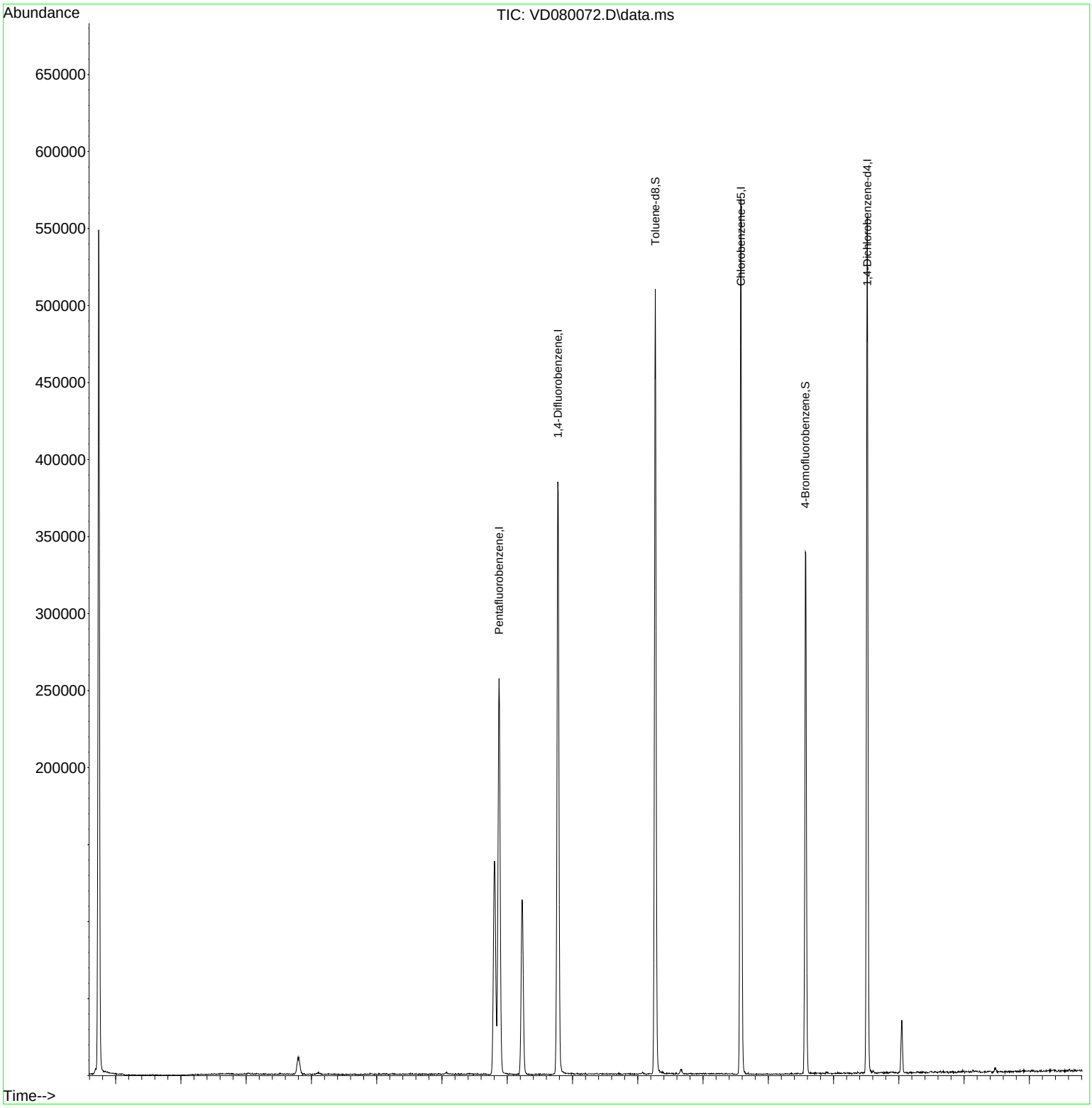
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 213473 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.775 | 114 | 350981 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 340318 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 150840 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 92578 | 42.121 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 84.240% | | | |
| 35) Dibromofluoromethane | 7.804 | 113 | 102719 | 43.974 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 87.940% | | | |
| 50) Toluene-d8 | 10.269 | 98 | 353984 | 40.207 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 80.420% | | | |
| 62) 4-Bromofluorobenzene | 12.569 | 95 | 107786 | 37.316 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 74.640% | | | |
| Target Compounds | | | | | | Qvalue |

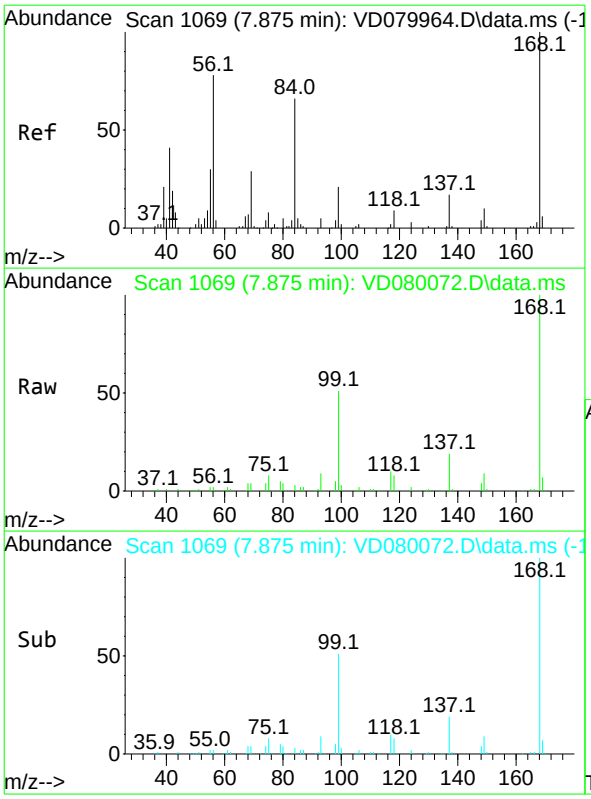
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080072.D
Acq On : 18 Nov 2024 16:39
Operator : RP/MD
Sample : P4860-01
Misc : 6.22G/5ml/MSVOA_D/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
DUP-01

Quant Time: Nov 19 04:48:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration



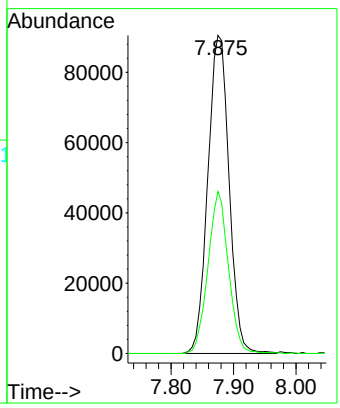


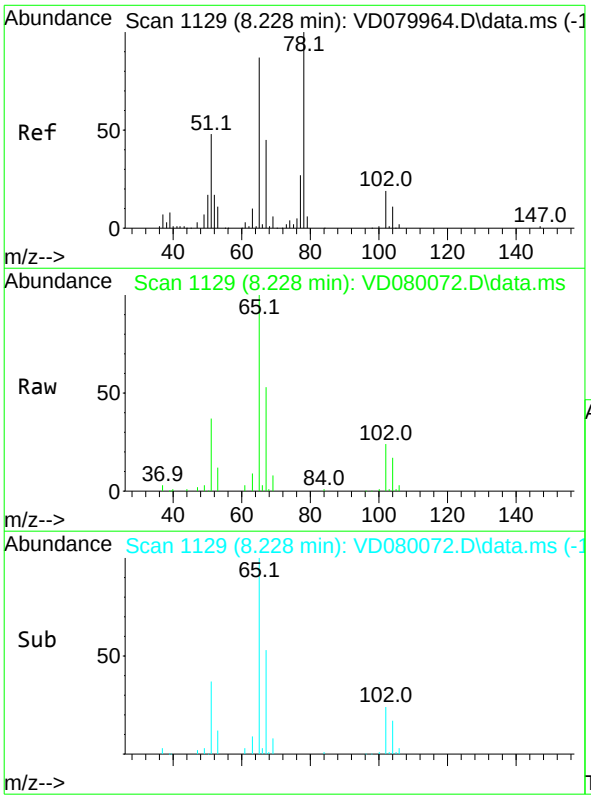

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 10
Delta R.T. 0.000 min
Lab File: VD080072.D
Acq: 18 Nov 2024 16:39

**Instrument :**
MSVOA_D
**ClientSampleId :**
DUP-01

Tgt Ion:168 Resp: 213473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 50.9 | 46.0 | 69.0 |

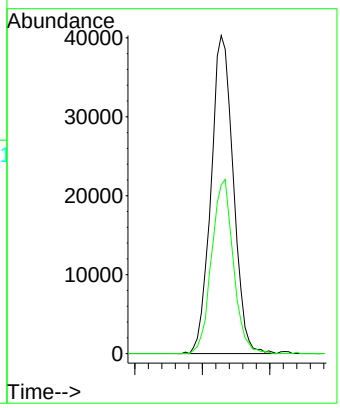



#33
1,2-Dichloroethane-d4
Concen: 42.121 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VD080072.D
Acq: 18 Nov 2024 16:39

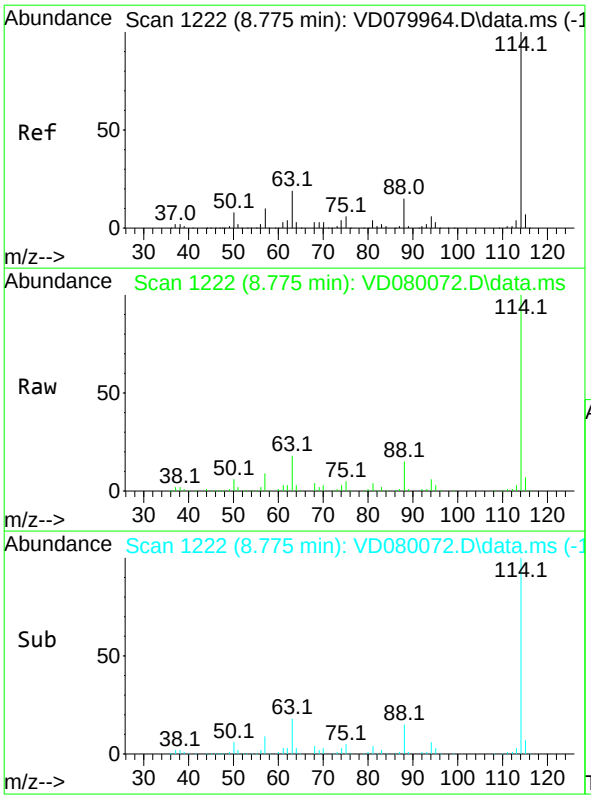
Tgt Ion: 65 Resp: 92578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.3 | 0.0 | 109.2 |



5

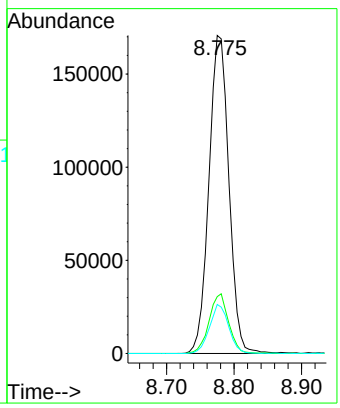
**Instrument :**
MSVOA_D
**ClientSampleId :**
DUP-01

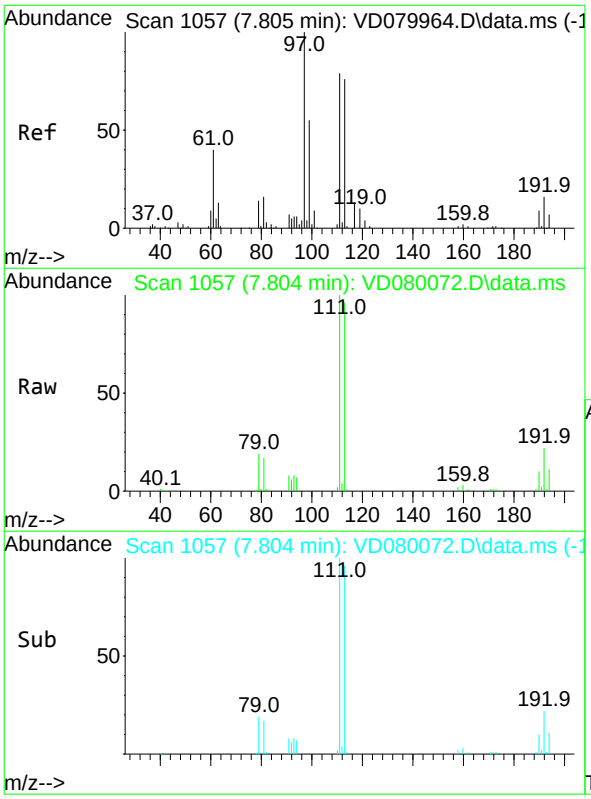



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.775 min Scan# 12
Delta R.T. 0.000 min
Lab File: VD080072.D
Acq: 18 Nov 2024 16:39

Tgt Ion:114 Resp: 350981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.9 | 0.0 | 38.8 |
| 88 | 15.4 | 0.0 | 30.6 |

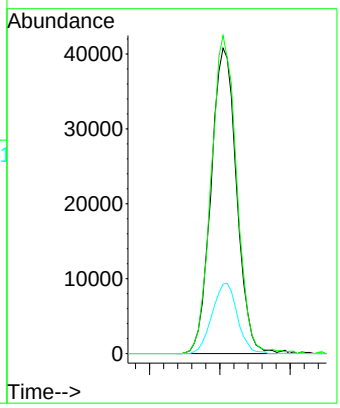


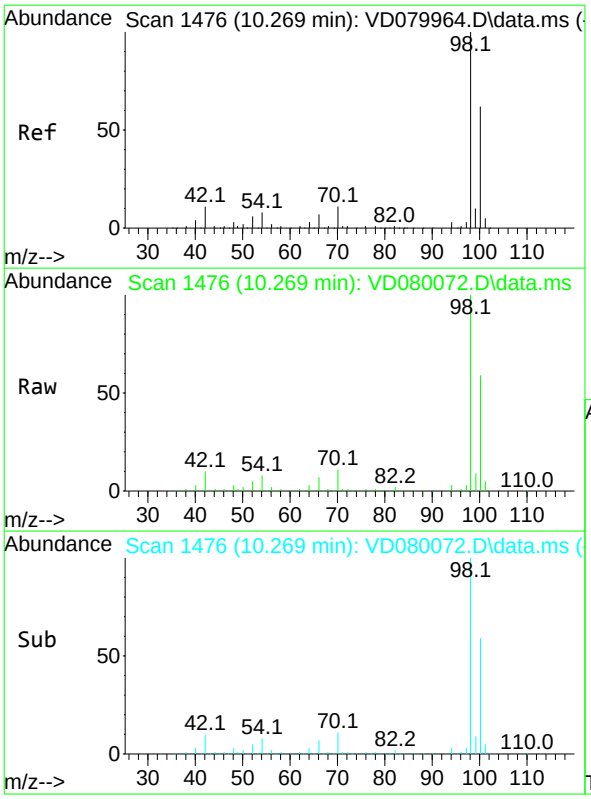




#35
Dibromofluoromethane
Concen: 43.974 ug/l
RT: 7.804 min Scan# 1057
Delta R.T. -0.001 min
Lab File: VD080072.D
Acq: 18 Nov 2024 16:39

Tgt Ion:113 Resp: 102719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.3 | 82.5 | 123.7 |
| 192 | 22.8 | 16.6 | 25.0 |



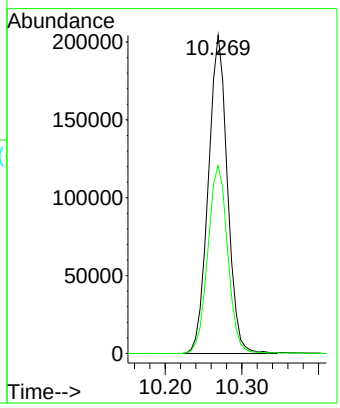


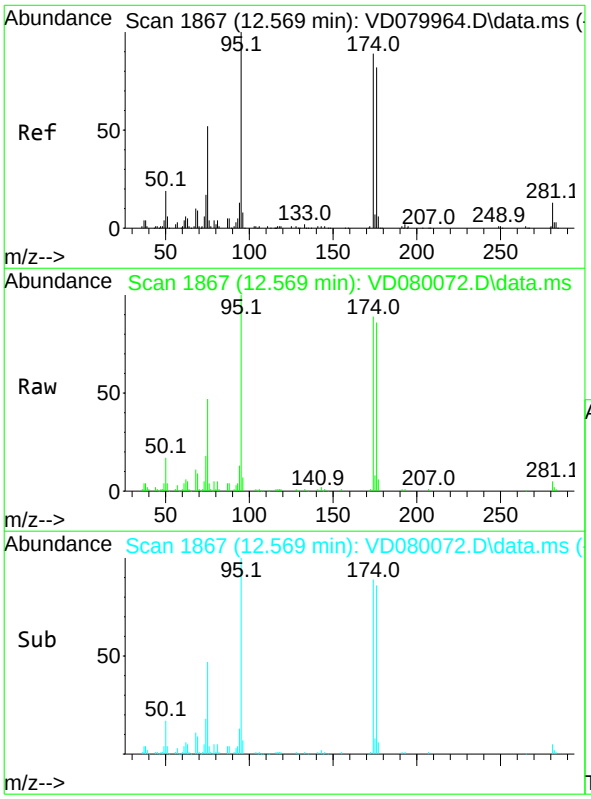

#50
Toluene-d8
Concen: 40.207 ug/l
RT: 10.269 min Scan# 14
Delta R.T. 0.000 min
Lab File: VD080072.D
Acq: 18 Nov 2024 16:39

**Instrument :**
MSVOA_D
**ClientSampleId :**
DUP-01

Tgt Ion: 98 Resp: 353984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 61.3 | 50.2 | 75.4 |

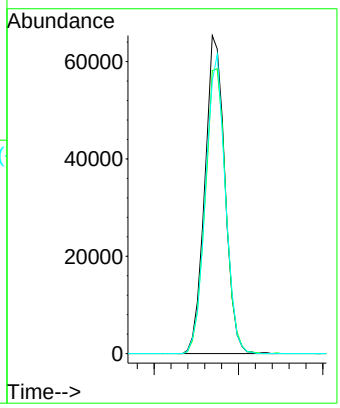


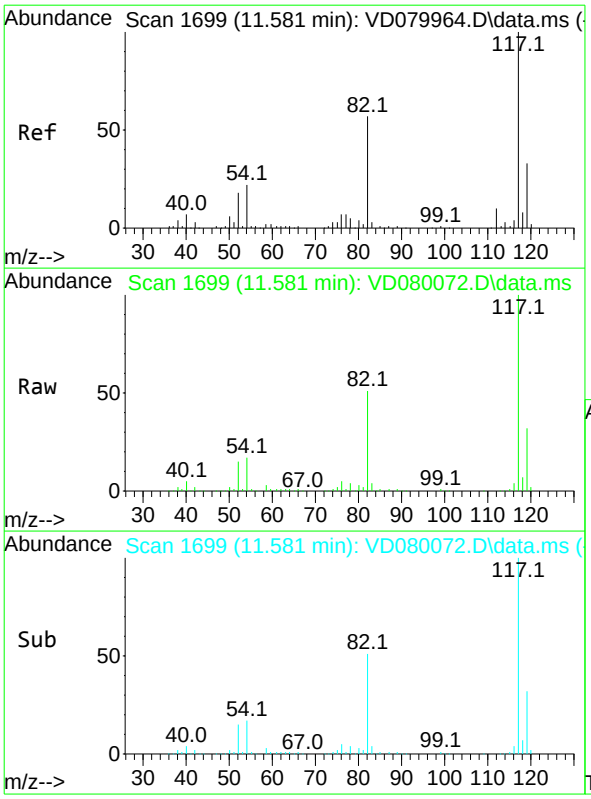




#62
4-Bromofluorobenzene
Concen: 37.316 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VD080072.D
Acq: 18 Nov 2024 16:39

Tgt Ion: 95 Resp: 107786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 92.2 | 0.0 | 173.4 |
| 176 | 92.6 | 0.0 | 166.6 |



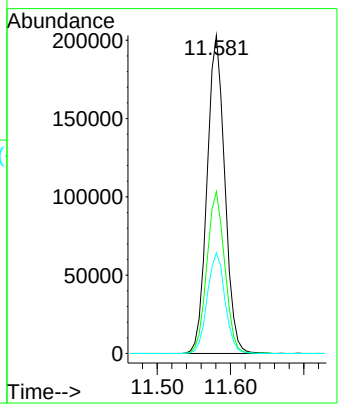


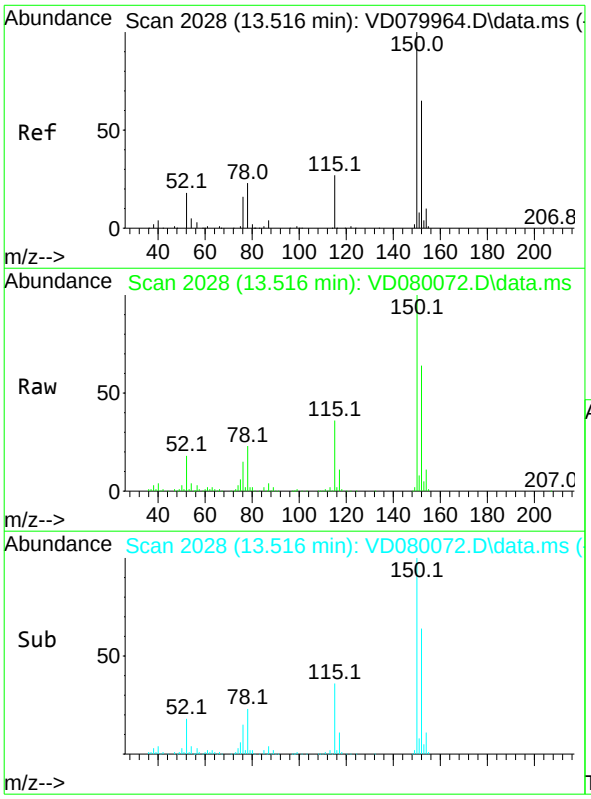

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 16
Delta R.T. -0.000 min
Lab File: VD080072.D
Acq: 18 Nov 2024 16:39

**Instrument :**
MSVOA_D
**ClientSampleId :**
DUP-01

Tgt Ion:117 Resp: 340318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 50.9 | 45.8 | 68.6 |
| 119 | 31.6 | 26.2 | 39.2 |

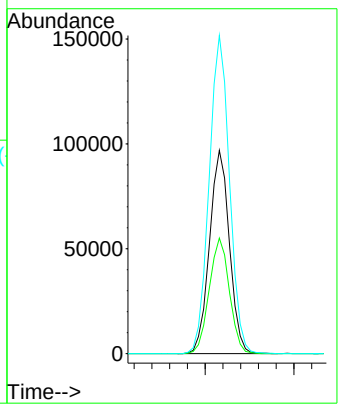



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.000 min
Lab File: VD080072.D
Acq: 18 Nov 2024 16:39

Tgt Ion:152 Resp: 150840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.4 | 28.9 | 86.8 |
| 150 | 159.9 | 0.0 | 354.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080072.D
Acq On : 18 Nov 2024 16:39
Operator : RP/MD
Sample : P4860-01
Misc : 6.22G/5ml/MSVOA_D/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
DUP-01

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_D\Method\82D111524S.M
Title : SW846 8260

Signal : TIC: VD080072.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.740 | 19 | 26 | 36 | rVB | 545530 | 853469 | 89.10% | 13.713% |
| 2 | 4.793 | 536 | 545 | 546 | rBV | 10660 | 17292 | 1.81% | 0.278% |
| 3 | 7.804 | 1047 | 1057 | 1063 | rBV | 138550 | 347083 | 36.23% | 5.577% |
| 4 | 7.875 | 1063 | 1069 | 1082 | rVB | 256403 | 584621 | 61.03% | 9.393% |
| 5 | 8.228 | 1121 | 1129 | 1144 | rBV | 113629 | 264166 | 27.58% | 4.244% |
| 6 | 8.775 | 1213 | 1222 | 1235 | rBV | 384269 | 789200 | 82.39% | 12.680% |
| 7 | 10.269 | 1466 | 1476 | 1485 | rBV | 509489 | 896075 | 93.55% | 14.397% |
| 8 | 11.581 | 1691 | 1699 | 1712 | rVB | 568540 | 957886 | 100.00% | 15.390% |
| 9 | 12.569 | 1861 | 1867 | 1877 | rVB | 338559 | 579088 | 60.45% | 9.304% |
| 10 | 13.516 | 2021 | 2028 | 2036 | rBV | 555819 | 880357 | 91.91% | 14.145% |
| 11 | 14.045 | 2112 | 2118 | 2126 | rVB2 | 34249 | 54704 | 5.71% | 0.879% |

Sum of corrected areas: 6223941

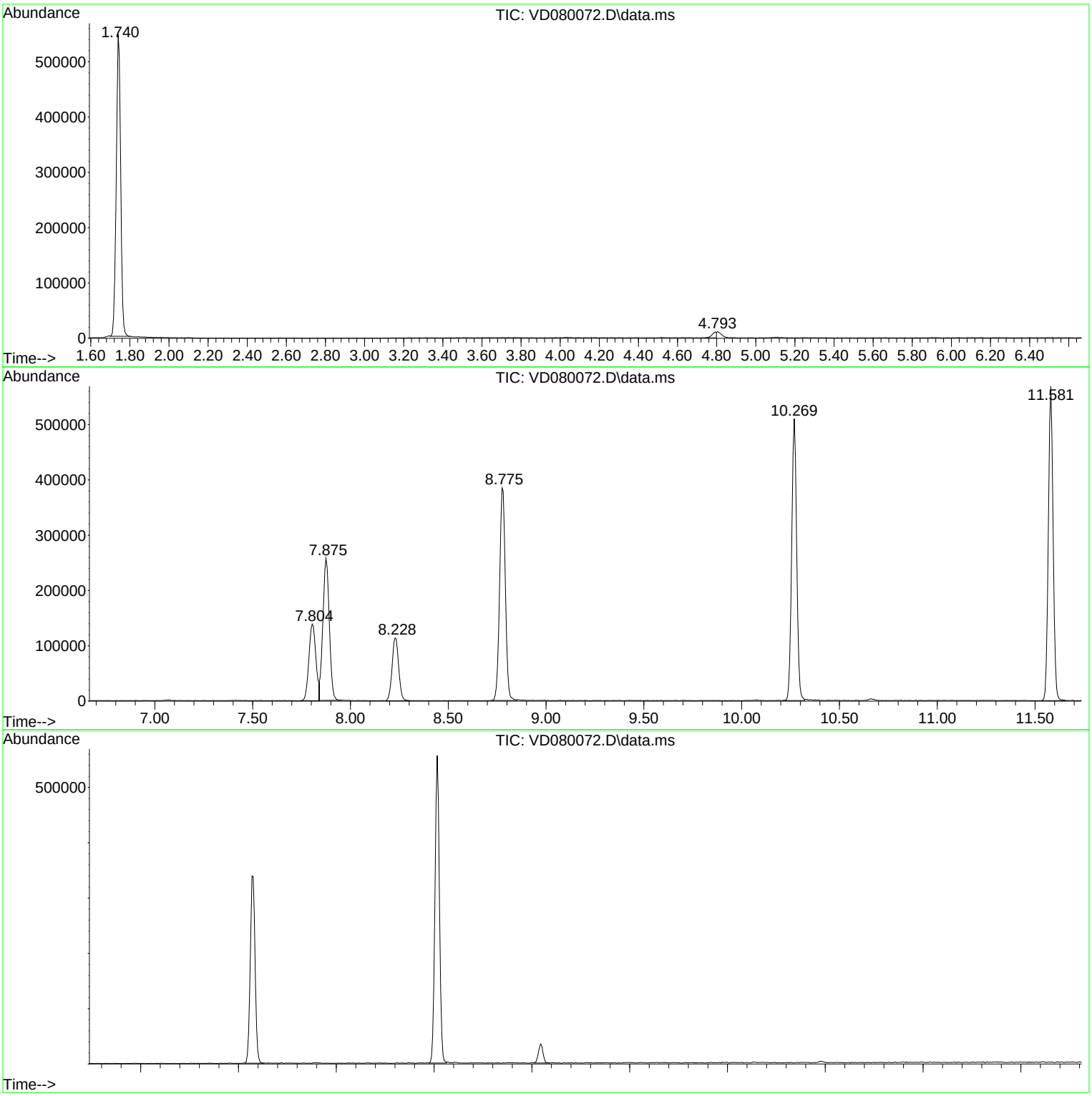
Sample Results: **VD080072.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080072.D
Acq On : 18 Nov 2024 16:39
Operator : RP/MD
Sample : P4860-01
Misc : 6.22G/5ml/MSVOA_D/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
DUP-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080072.D
Acq On : 18 Nov 2024 16:39
Operator : RP/MD
Sample : P4860-01
Misc : 6.22G/5ml/MSVOA_D/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
DUP-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.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_D\Data\VD111824\
Data File : VD080072.D
Acq On : 18 Nov 2024 16:39
Operator : RP/MD
Sample : P4860-01
Misc : 6.22G/5ml/MSVOA_D/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
DUP-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.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_D\Data\VD111824\
Data File : VD080073.D
Acq On : 18 Nov 2024 17:06
Operator : RP/MD
Sample : P4860-02
Misc : 6.44G/5ml/MSVOA_D/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-001

Quant Time: Nov 19 04:49:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

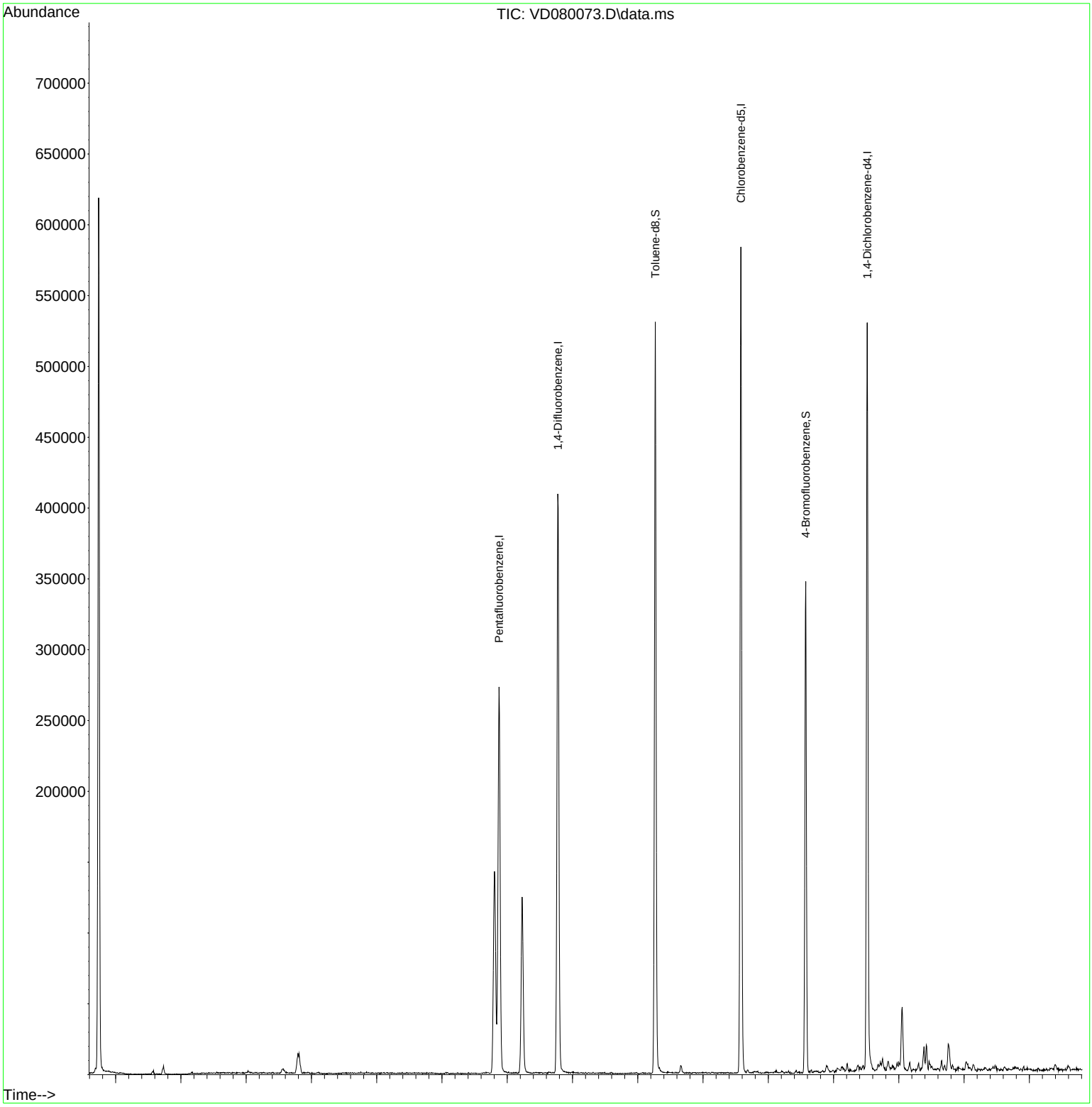
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 219259 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.775 | 114 | 366320 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 329102 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 146457 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 97508 | 43.193 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 86.380% | | |
| 35) Dibromofluoromethane | 7.804 | 113 | 102655 | 42.107 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 84.220% | | |
| 50) Toluene-d8 | 10.269 | 98 | 362809 | 39.484 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 78.960% | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 107667 | 35.714 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 71.420% | | |
| Target Compounds | | | | | | Qvalue |
| 18) Methyl Acetate | 4.569 | 43 | 5483 | 5.047 | ug/l | 98 |

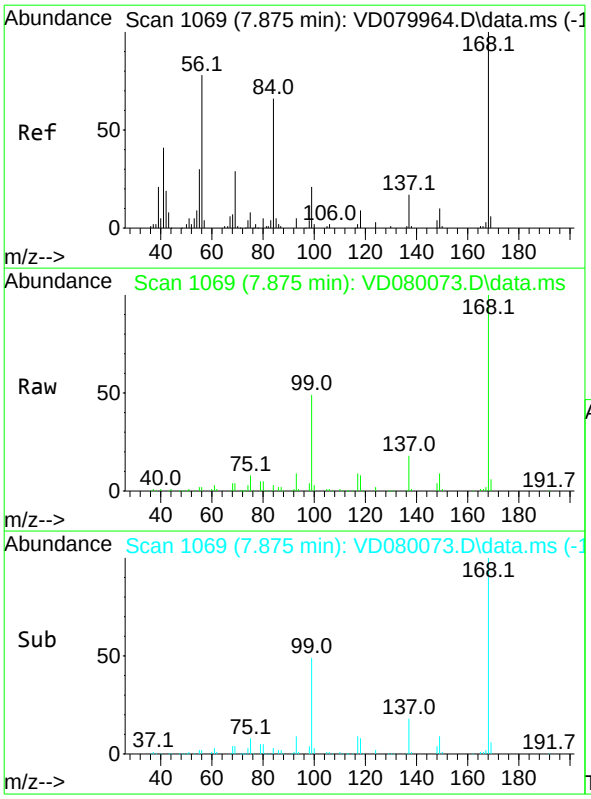
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080073.D
Acq On : 18 Nov 2024 17:06
Operator : RP/MD
Sample : P4860-02
Misc : 6.44G/5ml/MSVOA_D/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-001

Quant Time: Nov 19 04:49:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration



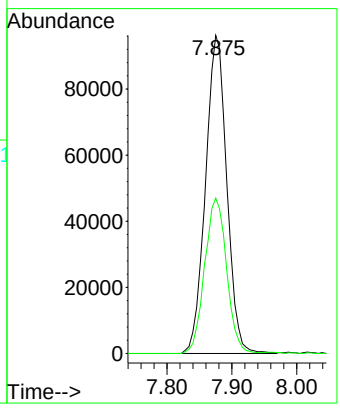


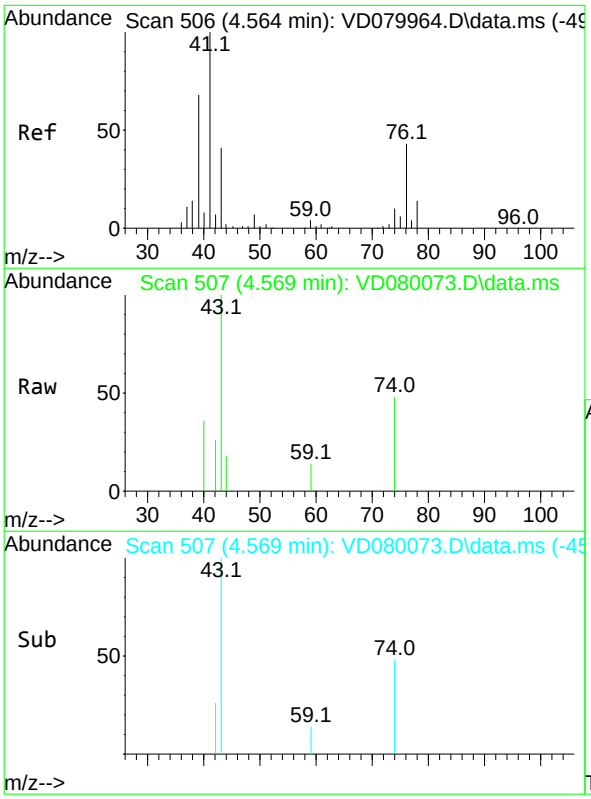

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 10
Delta R.T. 0.000 min
Lab File: VD080073.D
Acq: 18 Nov 2024 17:06

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-001

Tgt Ion:168 Resp: 219259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 48.9 | 46.0 | 69.0 |

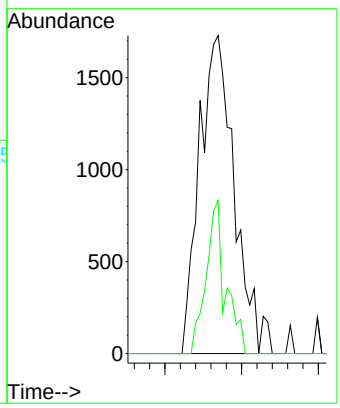


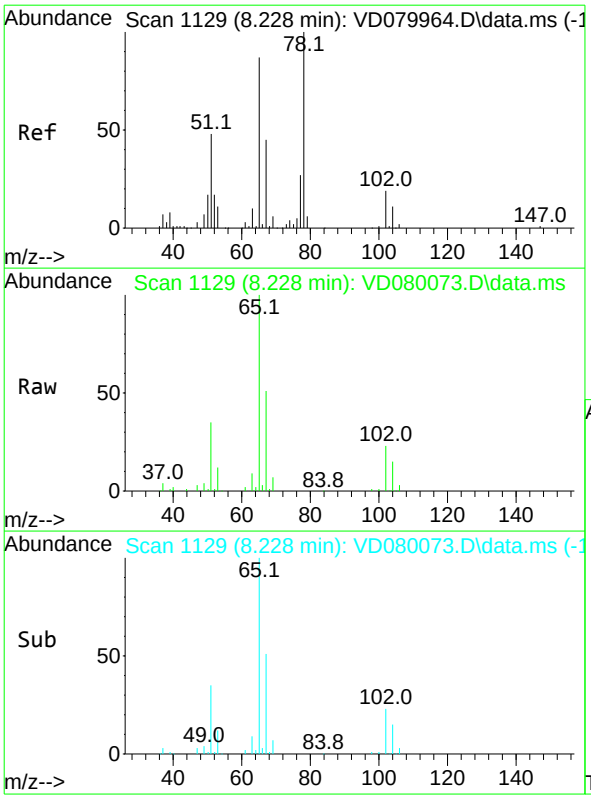




#18
Methyl Acetate
Concen: 5.047 ug/l
RT: 4.569 min Scan# 507
Delta R.T. 0.005 min
Lab File: VD080073.D
Acq: 18 Nov 2024 17:06

Tgt Ion: 43 Resp: 5483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.4 | 20.5 | 30.7 |



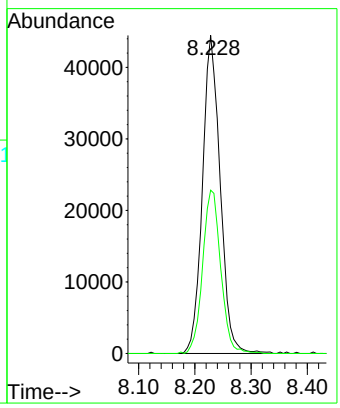


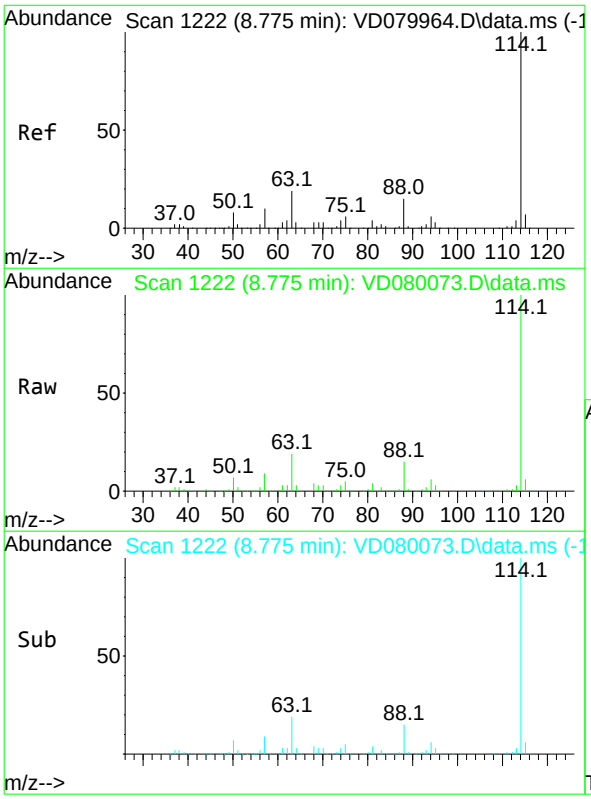

#33
1,2-Dichloroethane-d4
Concen: 43.193 ug/l
RT: 8.228 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD080073.D
Acq: 18 Nov 2024 17:06

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-001

Tgt Ion: 65 Resp: 97508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.5 | 0.0 | 109.2 |

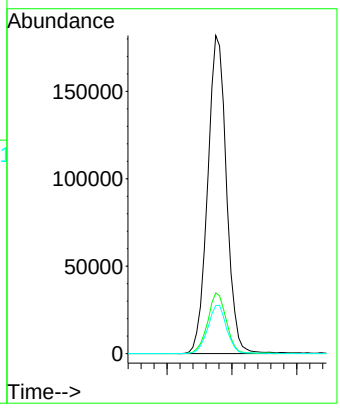


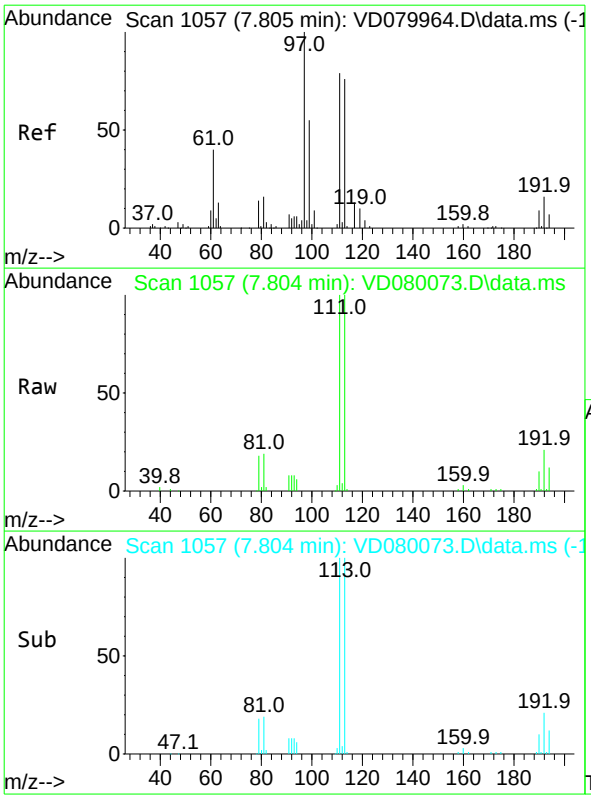




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.775 min Scan# 1222
Delta R.T. 0.000 min
Lab File: VD080073.D
Acq: 18 Nov 2024 17:06

Tgt Ion:114 Resp: 366320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.1 | 0.0 | 38.8 |
| 88 | 15.1 | 0.0 | 30.6 |



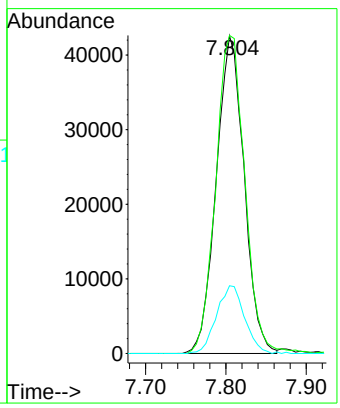


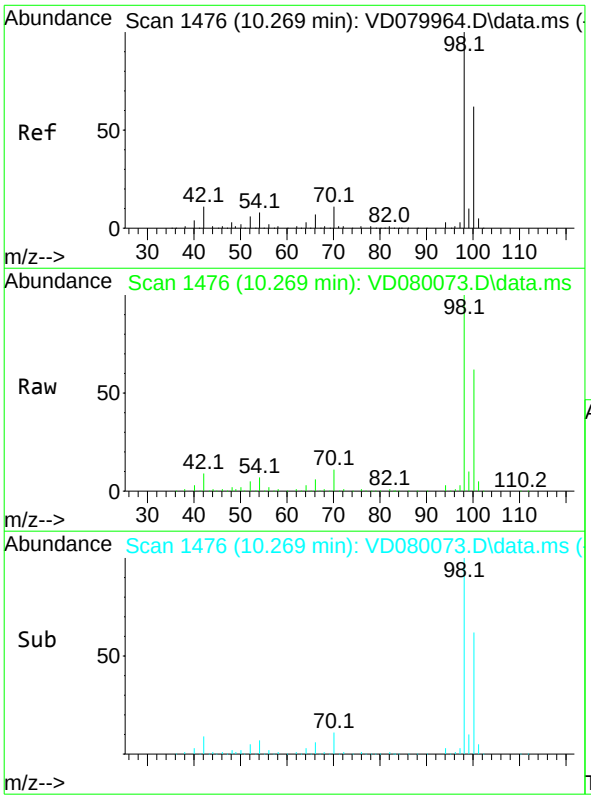

#35
Dibromofluoromethane
Concen: 42.107 ug/l
RT: 7.804 min Scan# 10
Delta R.T. -0.001 min
Lab File: VD080073.D
Acq: 18 Nov 2024 17:06

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-001

Tgt Ion:113 Resp: 102655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.4 | 82.5 | 123.7 |
| 192 | 21.6 | 16.6 | 25.0 |

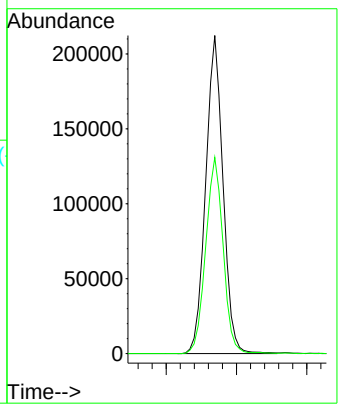


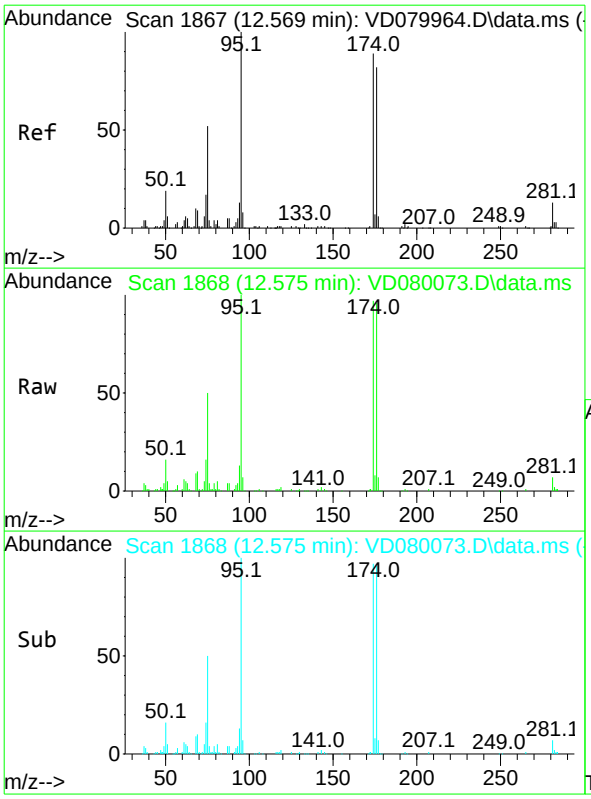




#50
Toluene-d8
Concen: 39.484 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD080073.D
Acq: 18 Nov 2024 17:06

Tgt Ion: 98 Resp: 362809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 62.2 | 50.2 | 75.4 |



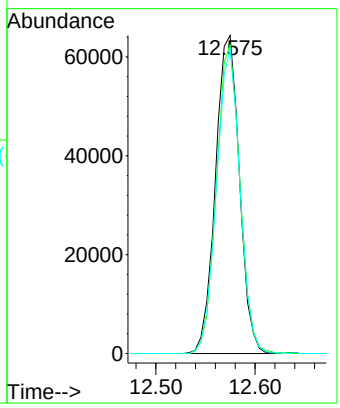


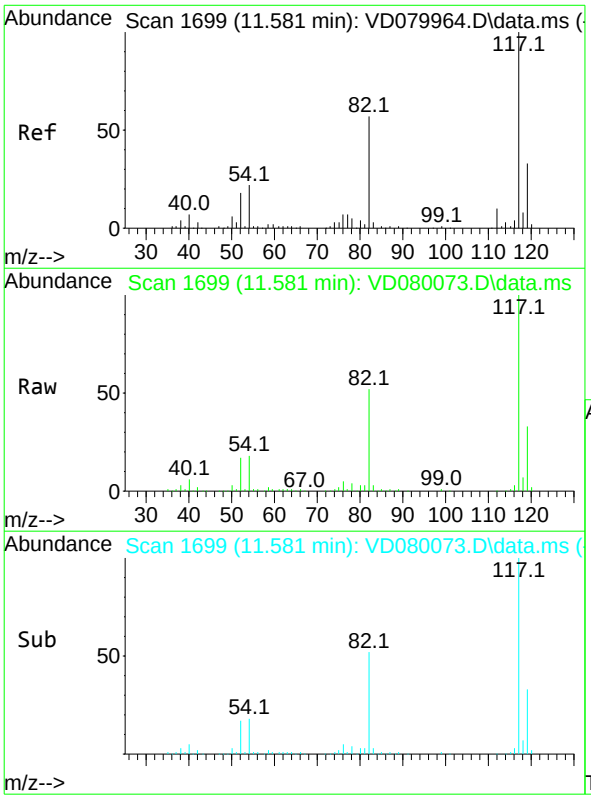

#62
4-Bromofluorobenzene
Concen: 35.714 ug/l
RT: 12.575 min Scan# 18
Delta R.T. 0.006 min
Lab File: VD080073.D
Acq: 18 Nov 2024 17:06

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-001

Tgt Ion: 95 Resp: 107667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 95.6 | 0.0 | 173.4 |
| 176 | 93.6 | 0.0 | 166.6 |

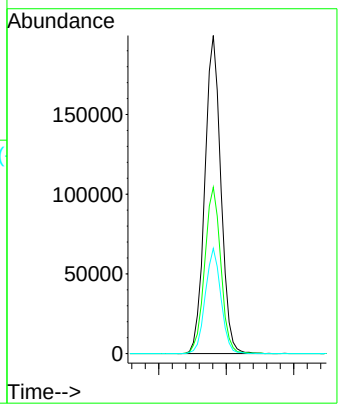


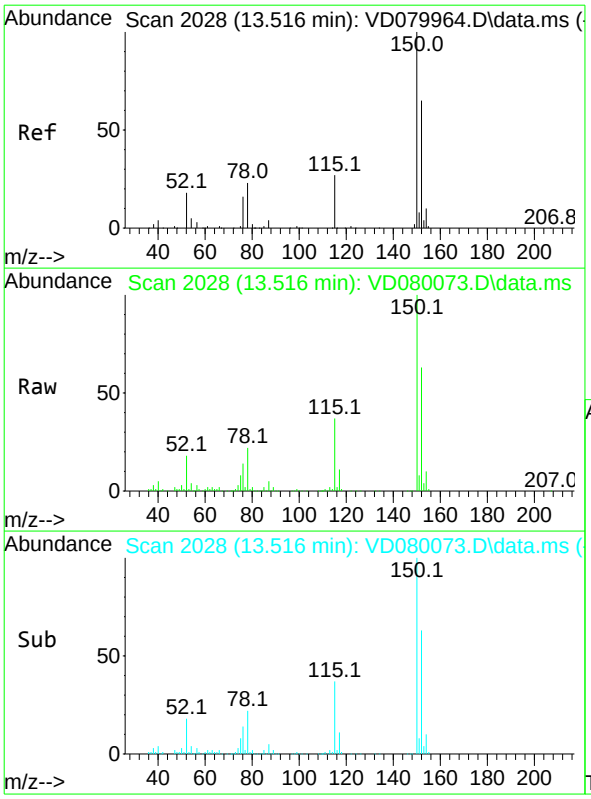




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VD080073.D
Acq: 18 Nov 2024 17:06

Tgt Ion:117 Resp: 329102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.3 | 45.8 | 68.6 |
| 119 | 33.1 | 26.2 | 39.2 |



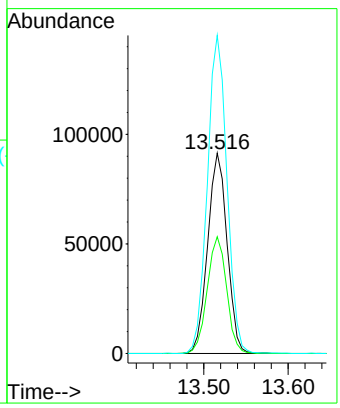



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 20
Delta R.T. -0.000 min
Lab File: VD080073.D
Acq: 18 Nov 2024 17:06

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-001

Tgt Ion:152 Resp: 146457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.1 | 28.9 | 86.8 |
| 150 | 160.2 | 0.0 | 354.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080073.D
Acq On : 18 Nov 2024 17:06
Operator : RP/MD
Sample : P4860-02
Misc : 6.44G/5ml/MSVOA_D/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-001

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_D\Method\82D111524S.M
Title : SW846 8260

Signal : TIC: VD080073.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.740 | 19 | 26 | 38 | rVB | 616296 | 949902 | 97.74% | 14.267% |
| 2 | 4.793 | 537 | 545 | 547 | rBV3 | 13832 | 26646 | 2.74% | 0.400% |
| 3 | 7.804 | 1047 | 1057 | 1063 | rBV2 | 142493 | 352766 | 36.30% | 5.298% |
| 4 | 7.875 | 1063 | 1069 | 1083 | rVB | 272035 | 614537 | 63.23% | 9.230% |
| 5 | 8.228 | 1121 | 1129 | 1142 | rBV | 124054 | 271735 | 27.96% | 4.081% |
| 6 | 8.775 | 1213 | 1222 | 1238 | rBV | 408888 | 834639 | 85.88% | 12.536% |
| 7 | 10.269 | 1468 | 1476 | 1486 | rBV | 530045 | 920345 | 94.70% | 13.823% |
| 8 | 10.657 | 1534 | 1542 | 1547 | rBV2 | 5372 | 9965 | 1.03% | 0.150% |
| 9 | 11.581 | 1690 | 1699 | 1713 | rVB | 583151 | 971889 | 100.00% | 14.597% |
| 10 | 12.575 | 1859 | 1868 | 1876 | rBV | 347208 | 574144 | 59.08% | 8.623% |
| 11 | 12.892 | 1916 | 1922 | 1931 | rBV10 | 4688 | 10941 | 1.13% | 0.164% |
| 12 | 13.516 | 2021 | 2028 | 2045 | rVB | 527365 | 886240 | 91.19% | 13.311% |
| 13 | 13.751 | 2065 | 2068 | 2074 | rVB5 | 7753 | 11254 | 1.16% | 0.169% |
| 14 | 13.834 | 2078 | 2082 | 2088 | rBV6 | 6546 | 12733 | 1.31% | 0.191% |
| 15 | 14.051 | 2113 | 2119 | 2125 | rVB2 | 43356 | 81111 | 8.35% | 1.218% |
| 16 | 14.169 | 2133 | 2139 | 2143 | rVB6 | 6541 | 10613 | 1.09% | 0.159% |
| 17 | 14.387 | 2166 | 2176 | 2179 | rBV2 | 17219 | 30294 | 3.12% | 0.455% |
| 18 | 14.422 | 2179 | 2182 | 2187 | rVB2 | 17428 | 24364 | 2.51% | 0.366% |
| 19 | 14.657 | 2217 | 2222 | 2226 | rBV5 | 7319 | 11037 | 1.14% | 0.166% |
| 20 | 14.757 | 2234 | 2239 | 2248 | rBV3 | 18881 | 42508 | 4.37% | 0.638% |
| 21 | 15.034 | 2282 | 2286 | 2289 | rBV5 | 5653 | 10268 | 1.06% | 0.154% |

Sum of corrected areas: 6657931

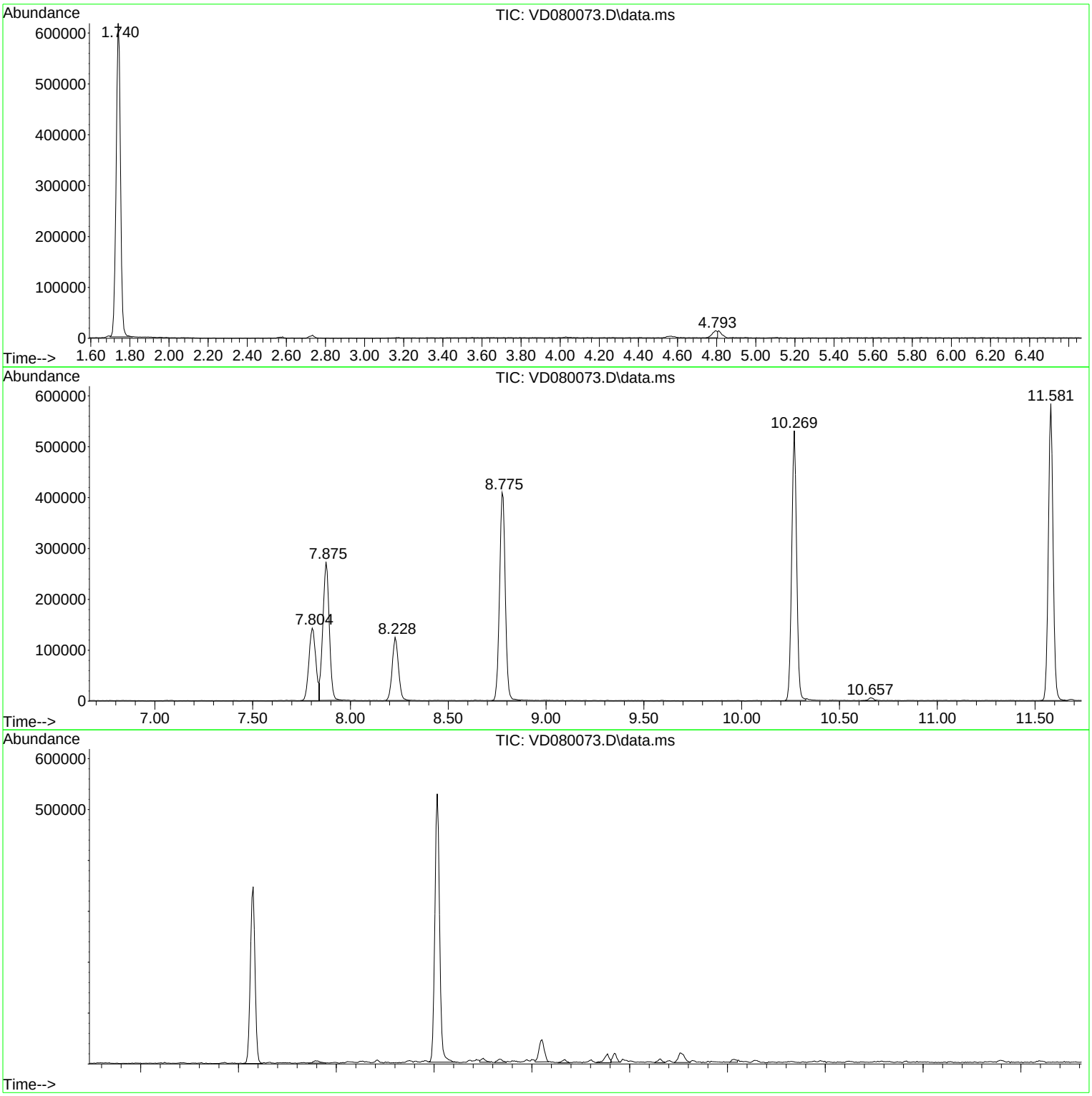
Sample Results: **VD080073.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080073.D
Acq On : 18 Nov 2024 17:06
Operator : RP/MD
Sample : P4860-02
Misc : 6.44G/5ml/MSVOA_D/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-001

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080073.D
Acq On : 18 Nov 2024 17:06
Operator : RP/MD
Sample : P4860-02
Misc : 6.44G/5ml/MSVOA_D/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-001

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.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_D\Data\VD111824\
Data File : VD080073.D
Acq On : 18 Nov 2024 17:06
Operator : RP/MD
Sample : P4860-02
Misc : 6.44G/5ml/MSVOA_D/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-001

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.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\VY112024\
Data File : VY020368.D
Acq On : 20 Nov 2024 18:35
Operator : SY/MD
Sample : P4860-03
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-002

Quant Time: Nov 21 04:41:26 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

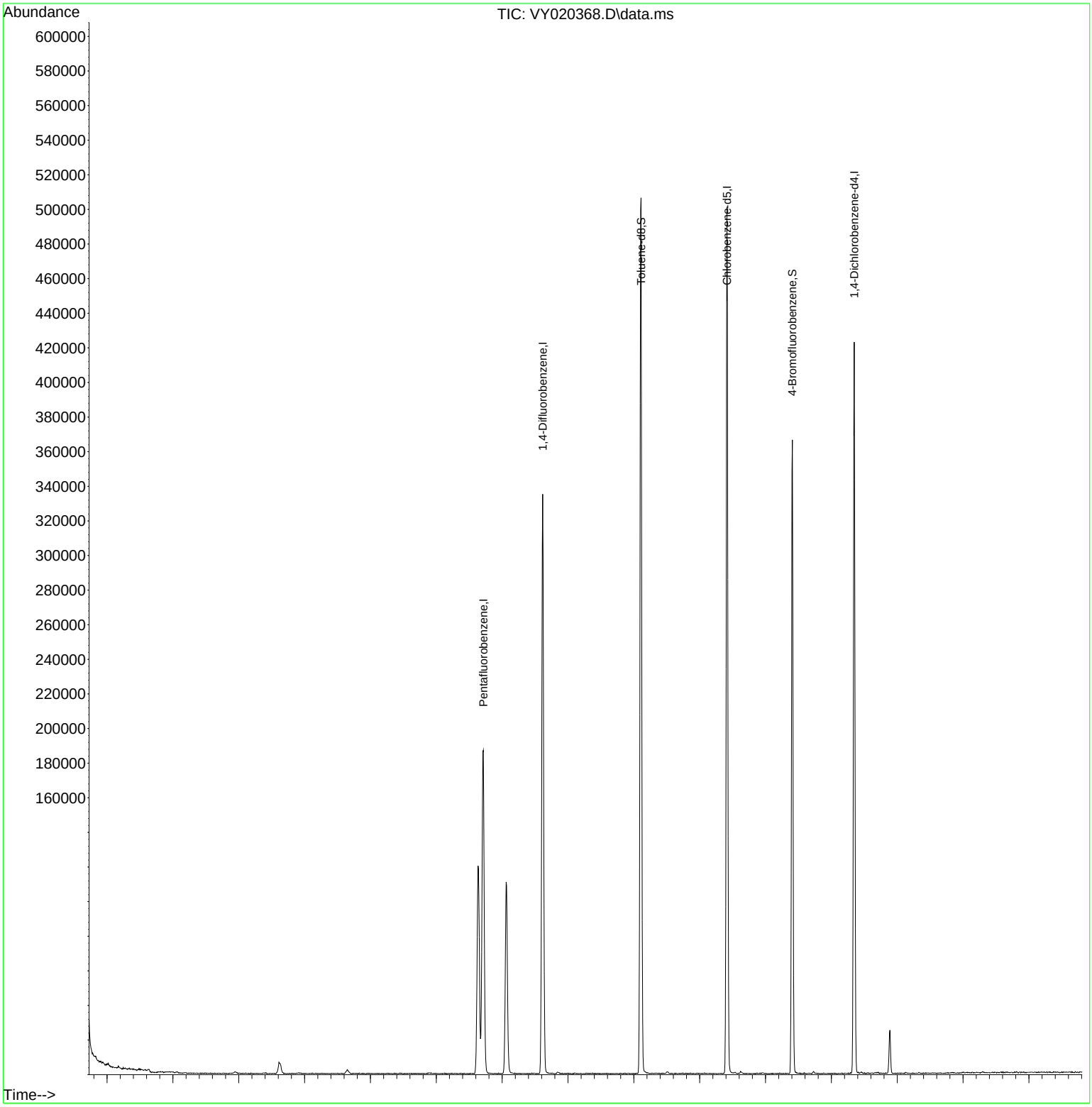
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 137679 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 269671 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 257307 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 102362 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 92673 | 58.588 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 117.180% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 86578 | 50.068 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.140% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 333450 | 48.952 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 97.900% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 113373 | 51.775 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 103.540% | | | |
| Target Compounds | | | | | | Qvalue |

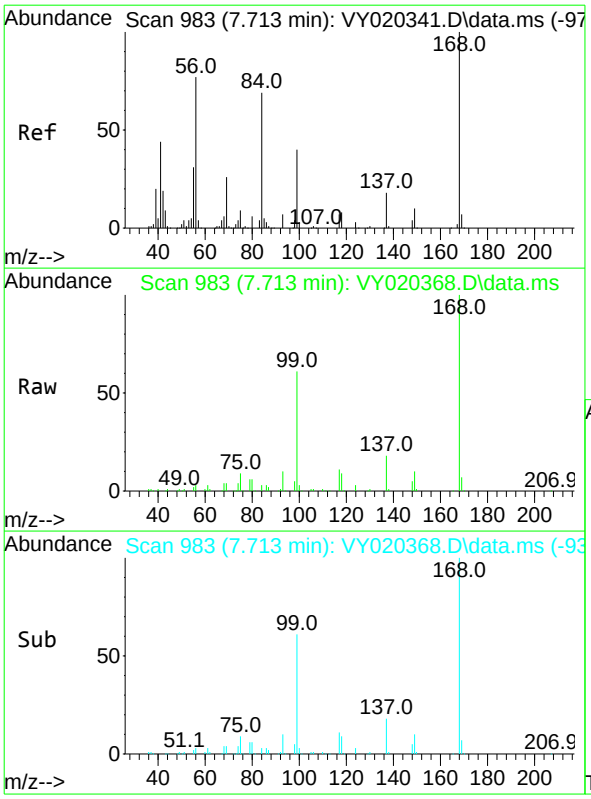
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020368.D
Acq On : 20 Nov 2024 18:35
Operator : SY/MD
Sample : P4860-03
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-002

Quant Time: Nov 21 04:41:26 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



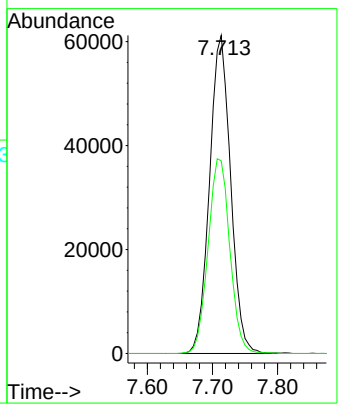


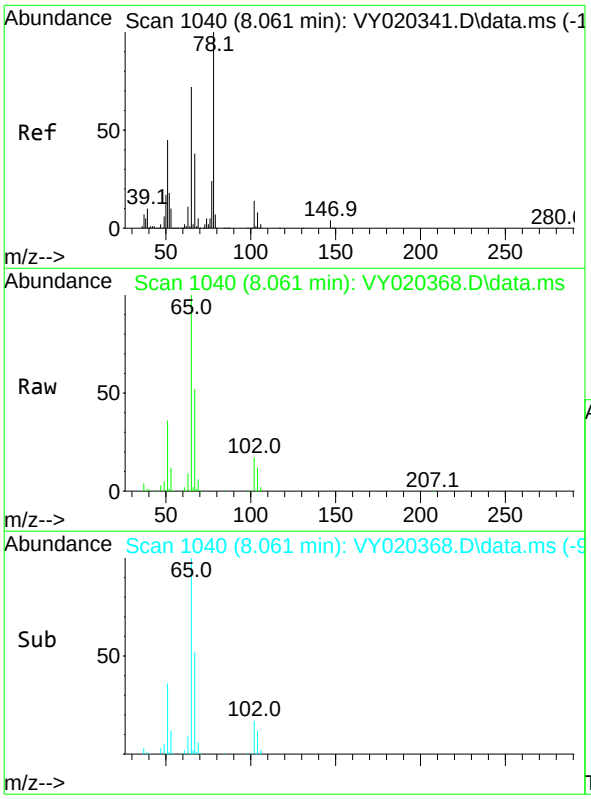

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020368.D
Acq: 20 Nov 2024 18:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-002

Tgt Ion:168 Resp: 137679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.6 | 46.6 | 69.8 |

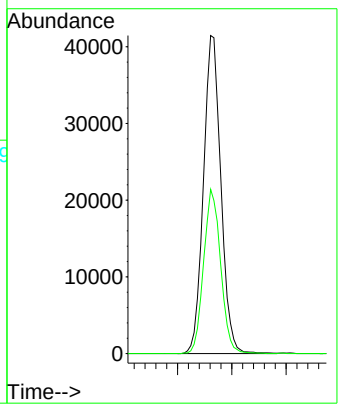


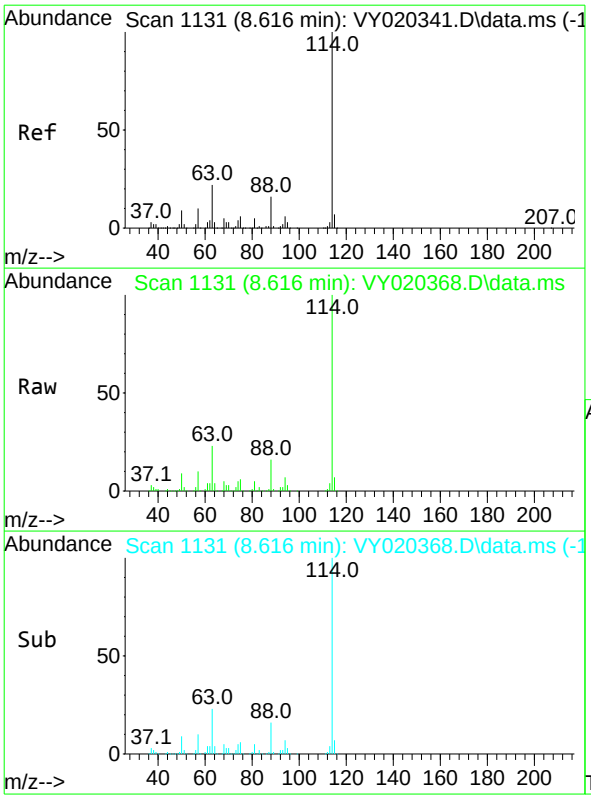




#33
1,2-Dichloroethane-d4
Concen: 58.588 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY020368.D
Acq: 20 Nov 2024 18:35

Tgt Ion: 65 Resp: 92673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.4 | 0.0 | 105.8 |



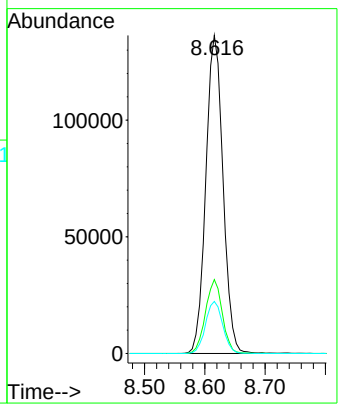


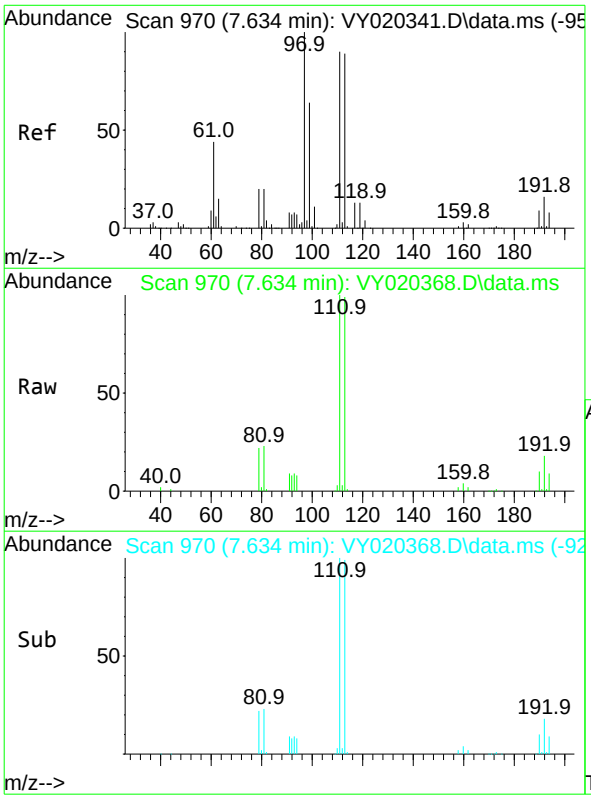

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY020368.D
Acq: 20 Nov 2024 18:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-002

Tgt Ion:114 Resp: 269671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.2 | 0.0 | 44.8 |
| 88 | 16.4 | 0.0 | 32.0 |

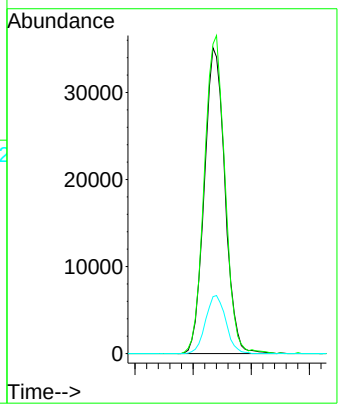


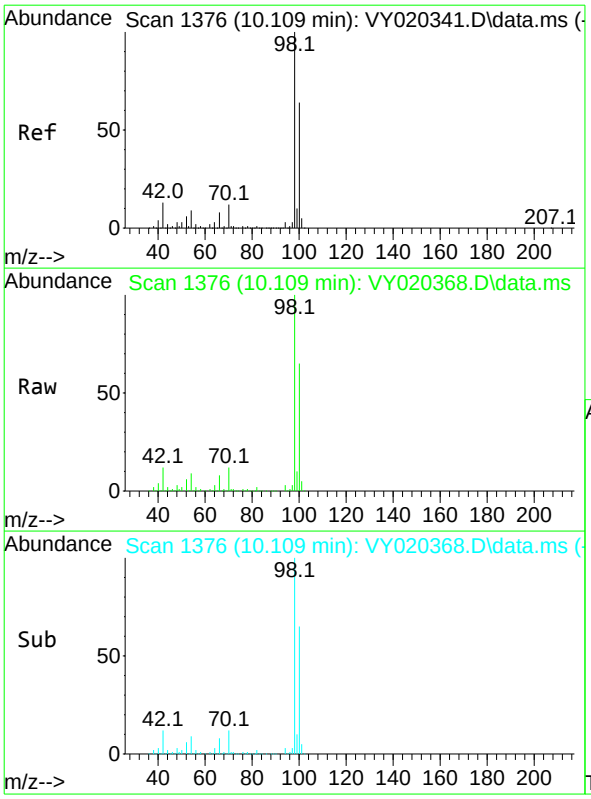




#35
Dibromofluoromethane
Concen: 50.068 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY020368.D
Acq: 20 Nov 2024 18:35

Tgt Ion:113 Resp: 86578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.1 | 81.4 | 122.0 |
| 192 | 18.7 | 15.1 | 22.7 |



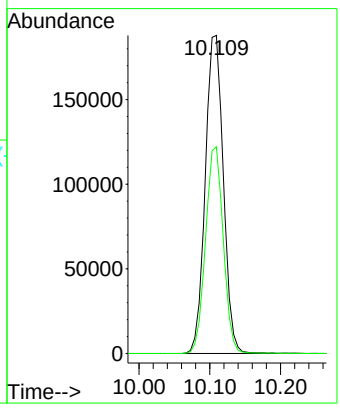


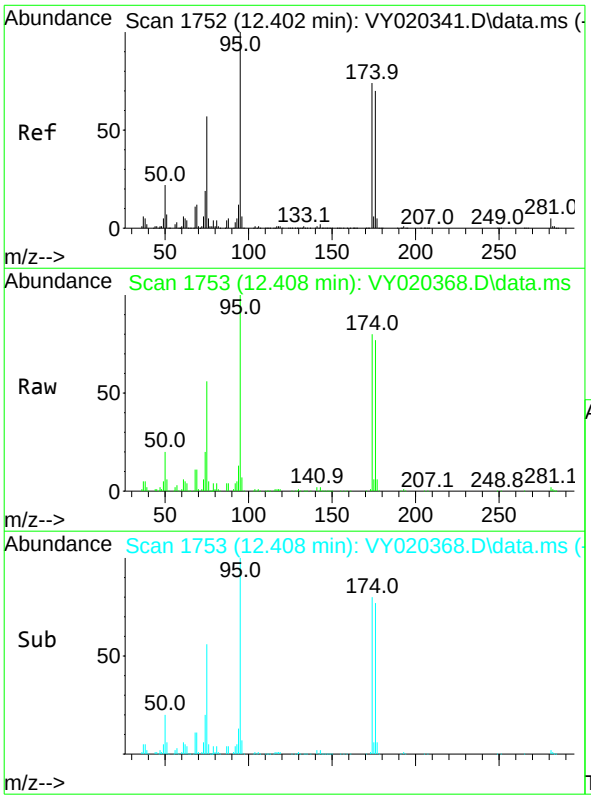

#50
Toluene-d8
Concen: 48.952 ug/l
RT: 10.109 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY020368.D
Acq: 20 Nov 2024 18:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-002

Tgt Ion: 98 Resp: 333450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.9 | 51.3 | 76.9 |

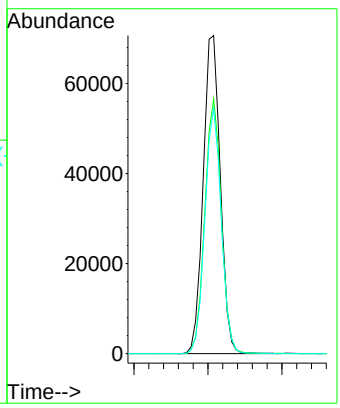


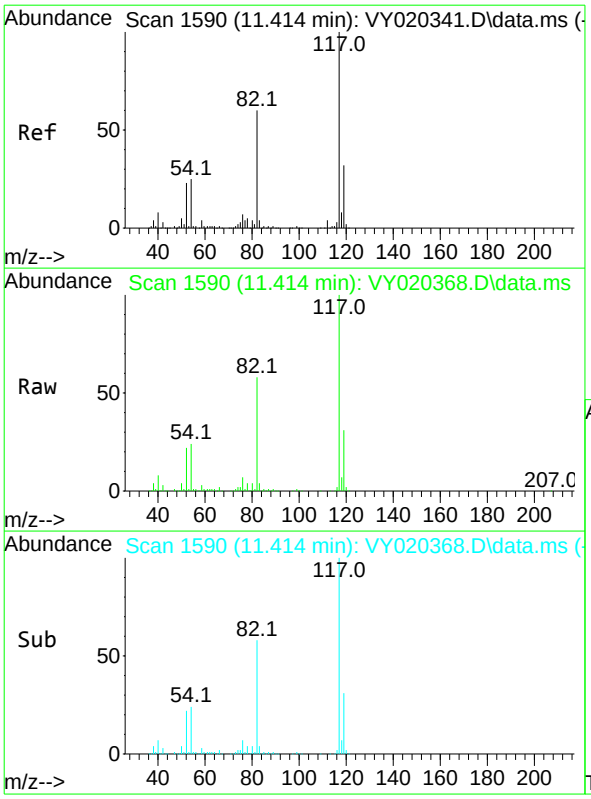




#62
4-Bromofluorobenzene
Concen: 51.775 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020368.D
Acq: 20 Nov 2024 18:35

Tgt Ion: 95 Resp: 113373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 77.4 | 0.0 | 156.8 |
| 176 | 73.9 | 0.0 | 152.0 |



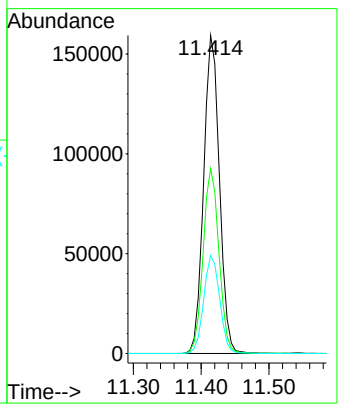


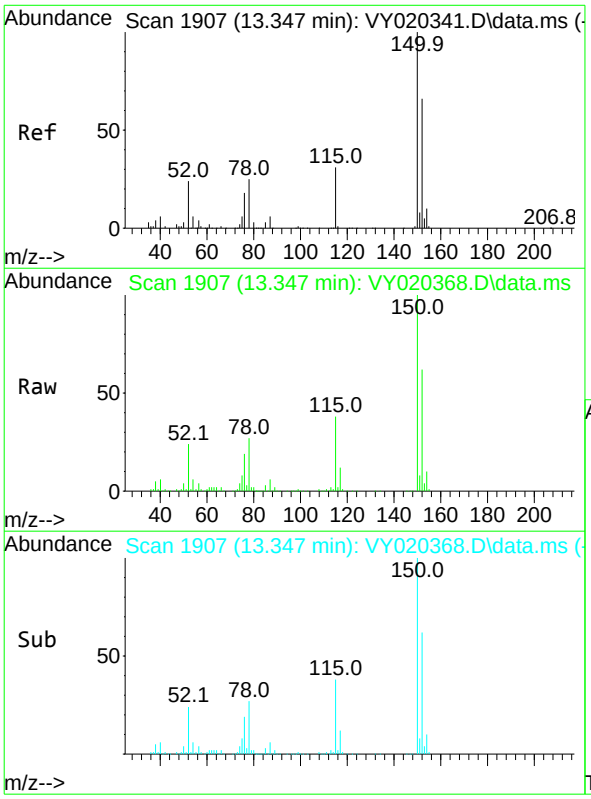

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY020368.D
Acq: 20 Nov 2024 18:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-002

Tgt Ion:117 Resp: 257307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.2 | 48.2 | 72.4 |
| 119 | 30.8 | 25.8 | 38.8 |

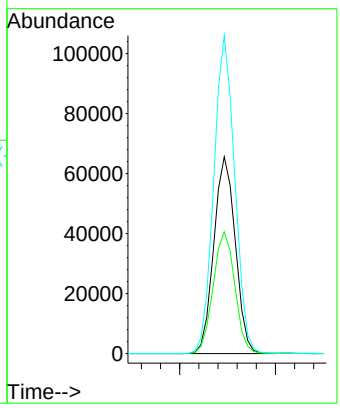



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY020368.D
Acq: 20 Nov 2024 18:35

Tgt Ion:152 Resp: 102362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.3 | 30.0 | 90.0 |
| 150 | 157.7 | 0.0 | 348.2 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020368.D
Acq On : 20 Nov 2024 18:35
Operator : SY/MD
Sample : P4860-03
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-002

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: VY020368.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.610 | 466 | 474 | 486 | rBV3 | 6691 | 20495 | 2.29% | 0.441% |
| 2 | 7.634 | 961 | 970 | 976 | rBV | 120170 | 293680 | 32.75% | 6.320% |
| 3 | 7.713 | 976 | 983 | 995 | rVB | 186683 | 435313 | 48.54% | 9.369% |
| 4 | 8.061 | 1029 | 1040 | 1052 | rBV | 110715 | 247930 | 27.64% | 5.336% |
| 5 | 8.616 | 1121 | 1131 | 1143 | rBV | 334886 | 658606 | 73.43% | 14.174% |
| 6 | 10.109 | 1367 | 1376 | 1385 | rBV | 506047 | 896859 | 100.00% | 19.302% |
| 7 | 11.414 | 1582 | 1590 | 1604 | rBV | 500682 | 813729 | 90.73% | 17.513% |
| 8 | 12.408 | 1746 | 1753 | 1761 | rBV | 366039 | 582648 | 64.97% | 12.540% |
| 9 | 13.347 | 1899 | 1907 | 1916 | rBV | 422516 | 657084 | 73.27% | 14.142% |
| 10 | 13.889 | 1987 | 1996 | 2003 | rBV2 | 25020 | 40146 | 4.48% | 0.864% |

Sum of corrected areas: 4646490

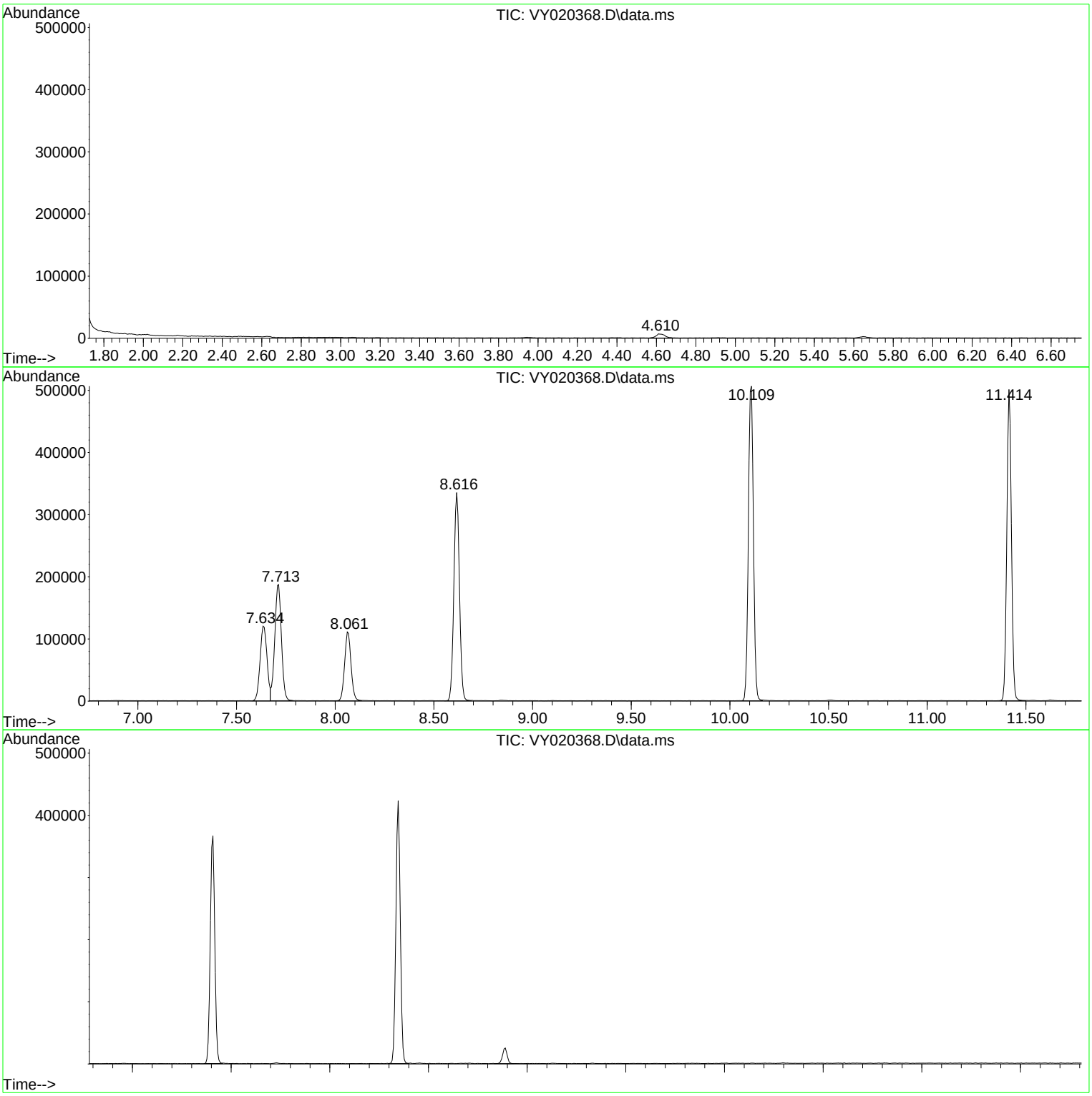
Sample Results: **VY020368.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020368.D
Acq On : 20 Nov 2024 18:35
Operator : SY/MD
Sample : P4860-03
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-002

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\VY112024\
Data File : VY020368.D
Acq On : 20 Nov 2024 18:35
Operator : SY/MD
Sample : P4860-03
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-002

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\VY112024\
Data File : VY020368.D
Acq On : 20 Nov 2024 18:35
Operator : SY/MD
Sample : P4860-03
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-002

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_D\Data\VD111824\
Data File : VD080075.D
Acq On : 18 Nov 2024 18:00
Operator : RP/MD
Sample : P4860-04
Misc : 6.28G/5ml/MSVOA_D/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-003

Quant Time: Nov 19 04:50:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 207332 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 367976 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 326426 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 150989 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 84545 | 39.605 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 79.220% | | |
| 35) Dibromofluoromethane | 7.804 | 113 | 94139 | 38.440 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 76.880% | | |
| 50) Toluene-d8 | 10.269 | 98 | 314551 | 34.078 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 68.160% | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 92979 | 30.703 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 61.400% | | |

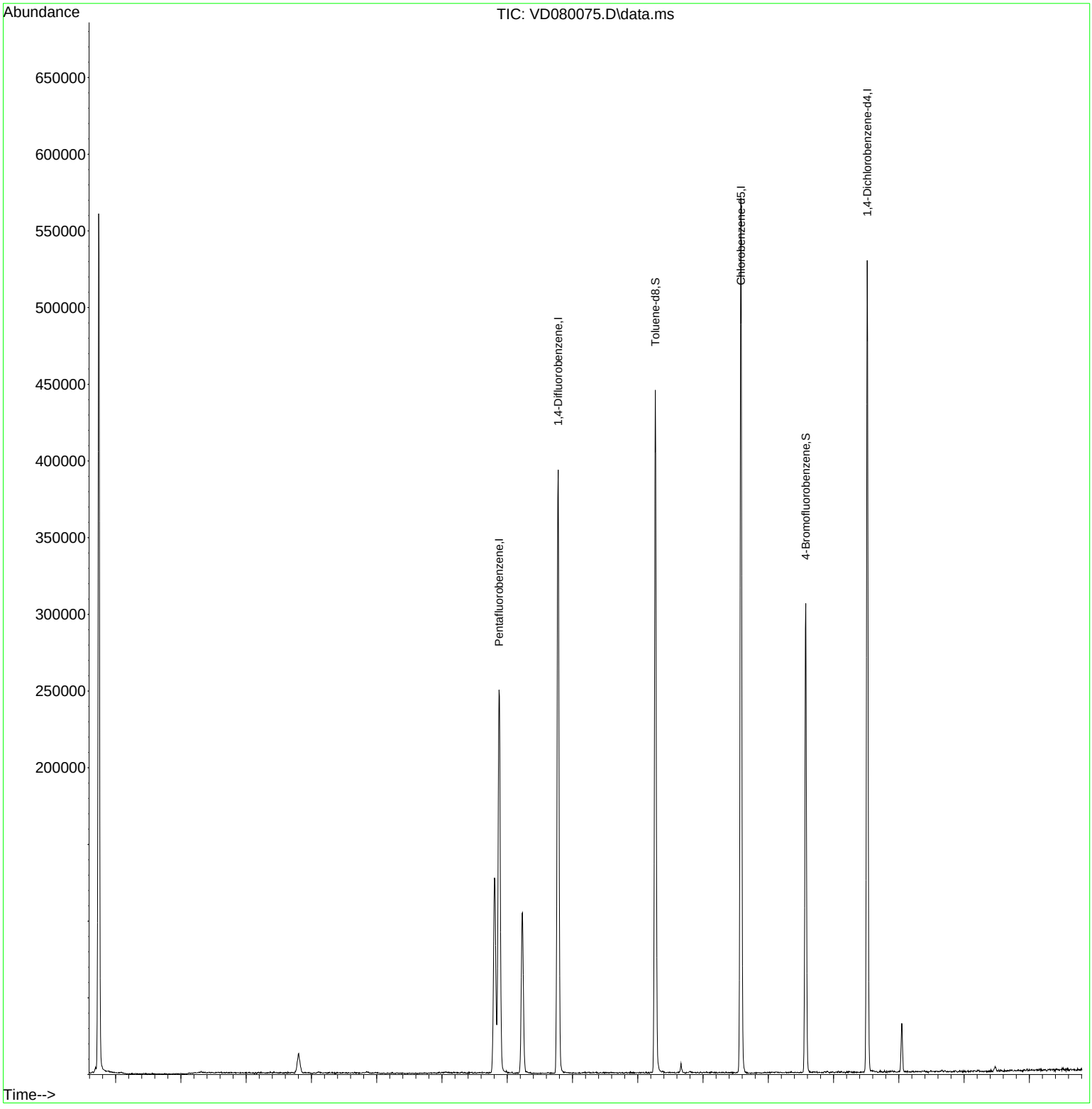
Target Compounds Qvalue

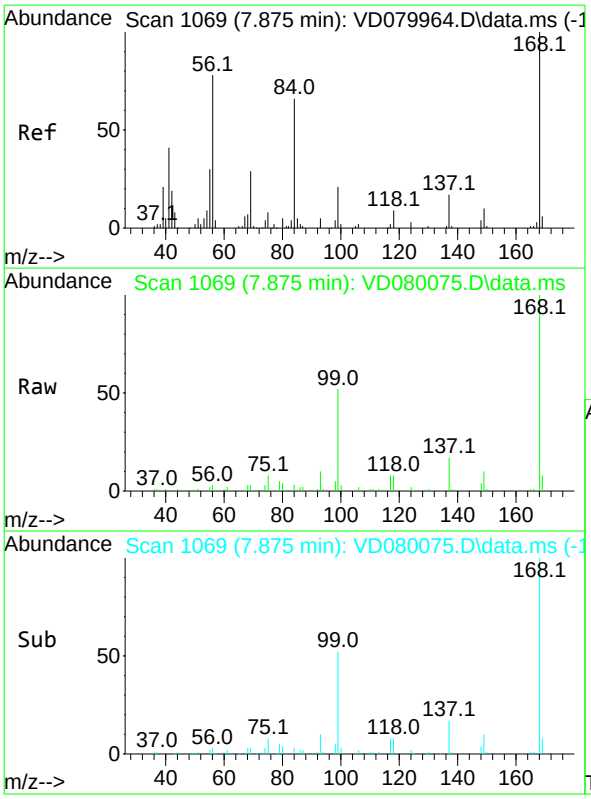
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080075.D
Acq On : 18 Nov 2024 18:00
Operator : RP/MD
Sample : P4860-04
Misc : 6.28G/5ml/MSVOA_D/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-003

Quant Time: Nov 19 04:50:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration



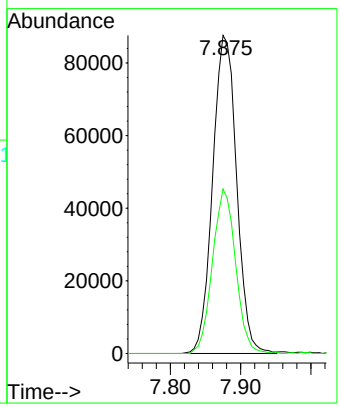


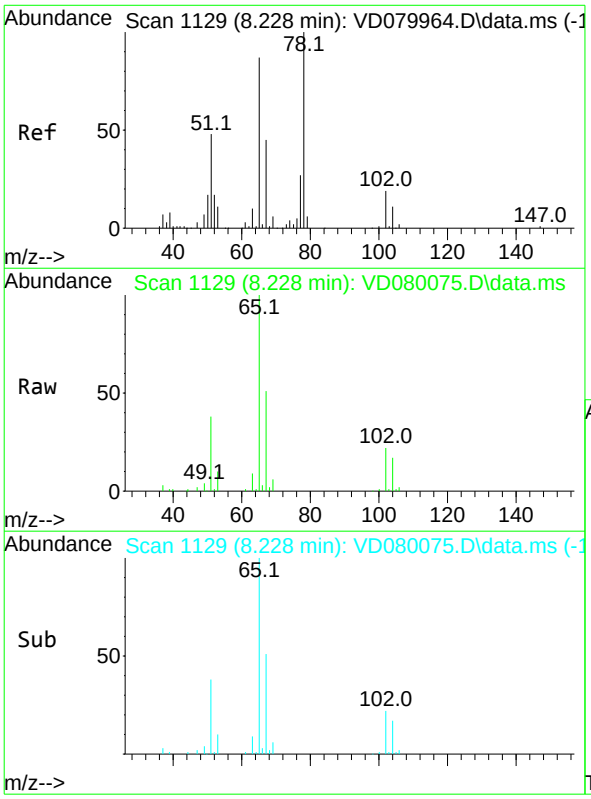

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 10
Delta R.T. -0.000 min
Lab File: VD080075.D
Acq: 18 Nov 2024 18:00

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-003

Tgt Ion:168 Resp: 207332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.7 | 46.0 | 69.0 |

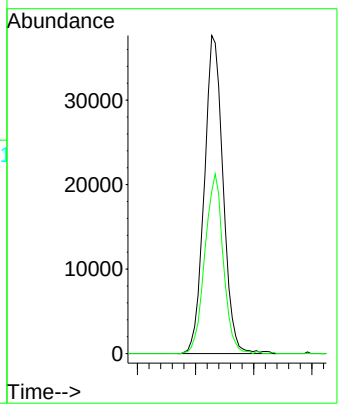


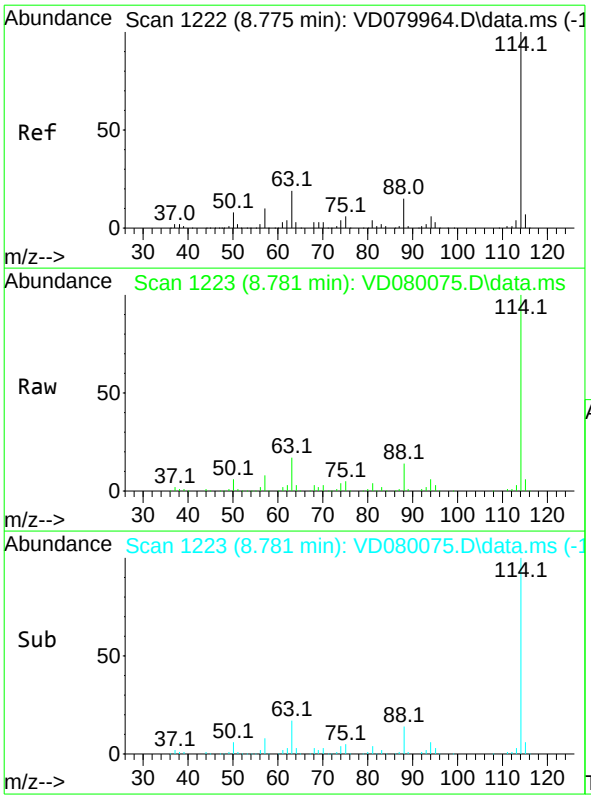




#33
1,2-Dichloroethane-d4
Concen: 39.605 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VD080075.D
Acq: 18 Nov 2024 18:00

Tgt Ion: 65 Resp: 84545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 55.2 | 0.0 | 109.2 |



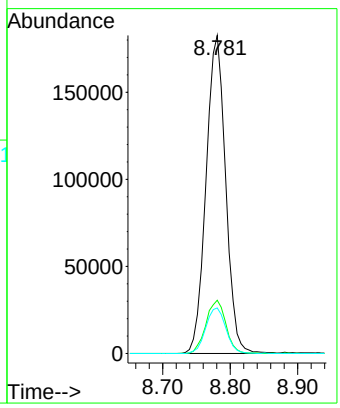


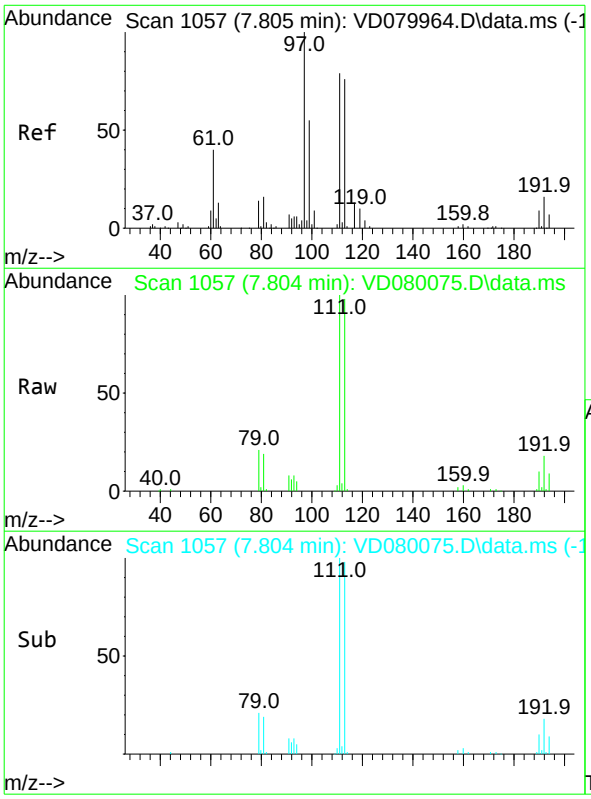

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.781 min Scan# 12
Delta R.T. 0.006 min
Lab File: VD080075.D
Acq: 18 Nov 2024 18:00

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-003

Tgt Ion:114 Resp: 367976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 16.7 | 0.0 | 38.8 |
| 88 | 14.3 | 0.0 | 30.6 |

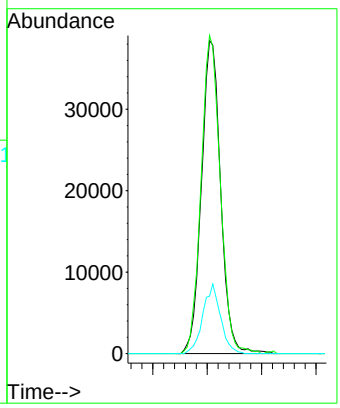


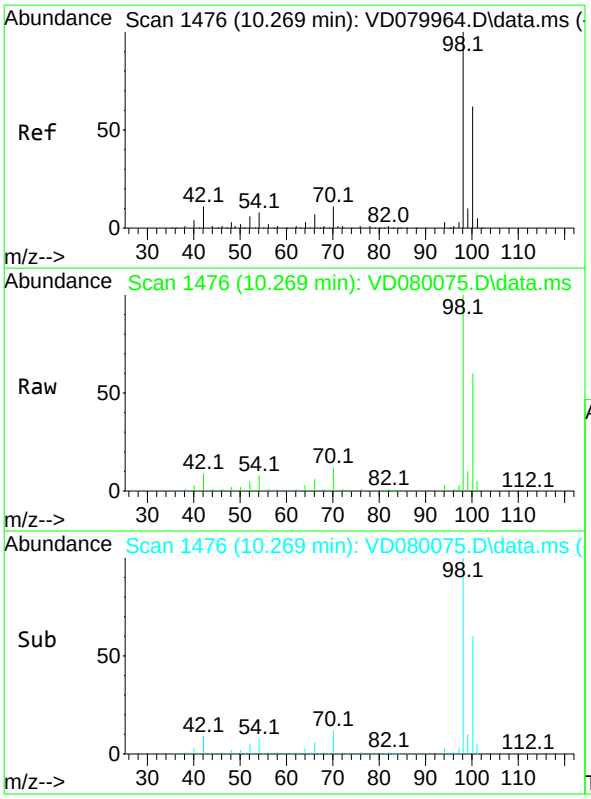




#35
Dibromofluoromethane
Concen: 38.440 ug/l
RT: 7.804 min Scan# 1057
Delta R.T. -0.001 min
Lab File: VD080075.D
Acq: 18 Nov 2024 18:00

Tgt Ion:113 Resp: 94139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.6 | 82.5 | 123.7 |
| 192 | 20.5 | 16.6 | 25.0 |



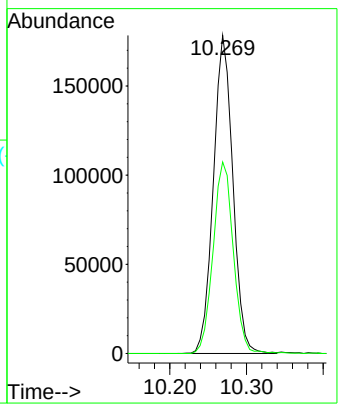


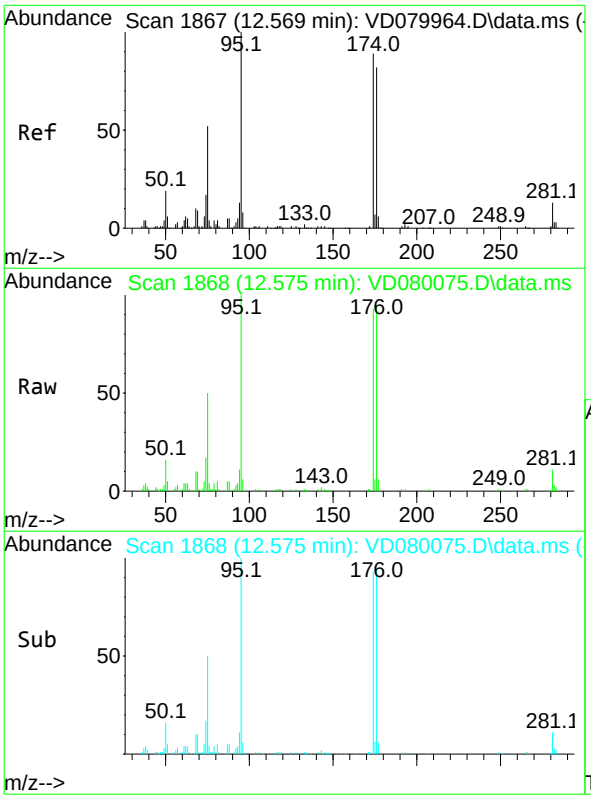

#50
Toluene-d8
Concen: 34.078 ug/l
RT: 10.269 min Scan# 14
Delta R.T. -0.000 min
Lab File: VD080075.D
Acq: 18 Nov 2024 18:00

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-003

Tgt Ion: 98 Resp: 314551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 62.5 | 50.2 | 75.4 |

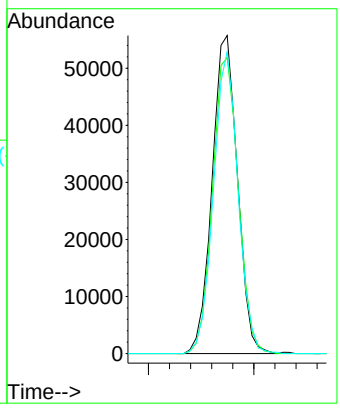


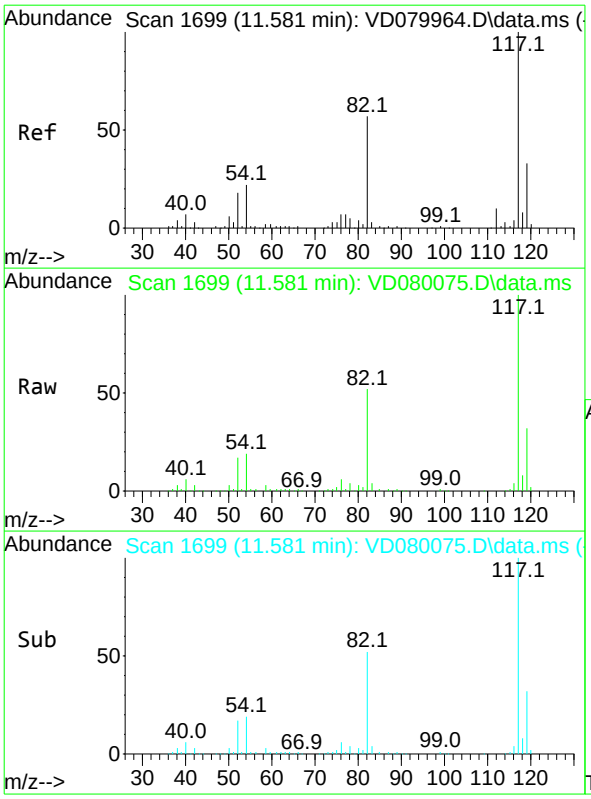

#62
4-Bromofluorobenzene
Concen: 30.703 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VD080075.D
Acq: 18 Nov 2024 18:00

Tgt Ion: 95 Resp: 92979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 94.8 | 0.0 | 173.4 |
| 176 | 91.9 | 0.0 | 166.6 |



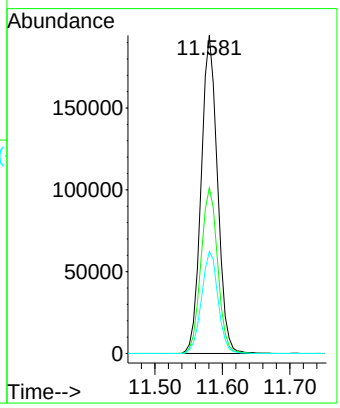
**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-003

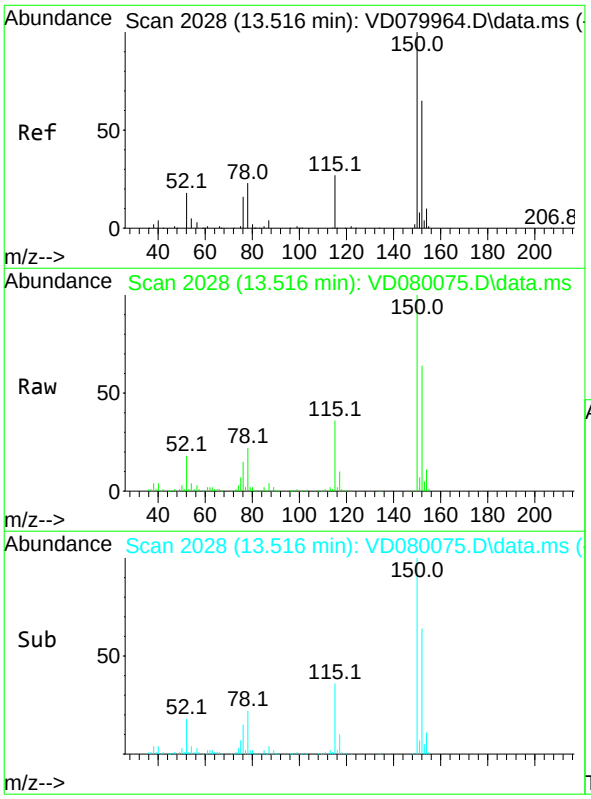



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 16
Delta R.T. -0.000 min
Lab File: VD080075.D
Acq: 18 Nov 2024 18:00

Tgt Ion:117 Resp: 326426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.1 | 45.8 | 68.6 |
| 119 | 32.1 | 26.2 | 39.2 |

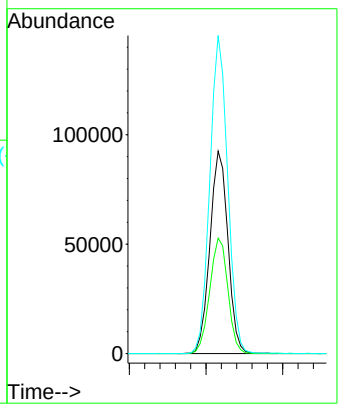



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.000 min
Lab File: VD080075.D
Acq: 18 Nov 2024 18:00

Tgt Ion:152 Resp: 150989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.3 | 28.9 | 86.8 |
| 150 | 155.6 | 0.0 | 354.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080075.D
Acq On : 18 Nov 2024 18:00
Operator : RP/MD
Sample : P4860-04
Misc : 6.28G/5ml/MSVOA_D/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-003

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_D\Method\82D111524S.M
Title : SW846 8260

Signal : TIC: VD080075.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.740 | 19 | 26 | 45 | rVB | 559274 | 880011 | 91.71% | 14.520% |
| 2 | 4.805 | 537 | 547 | 560 | rBV2 | 13008 | 39434 | 4.11% | 0.651% |
| 3 | 7.804 | 1047 | 1057 | 1063 | rBV2 | 127236 | 313111 | 32.63% | 5.166% |
| 4 | 7.875 | 1063 | 1069 | 1084 | rVB | 249031 | 588907 | 61.37% | 9.717% |
| 5 | 8.234 | 1119 | 1130 | 1140 | rBV2 | 104842 | 240801 | 25.10% | 3.973% |
| 6 | 8.781 | 1214 | 1223 | 1236 | rBV | 393387 | 800537 | 83.43% | 13.209% |
| 7 | 10.269 | 1468 | 1476 | 1493 | rBV | 444924 | 806645 | 84.07% | 13.310% |
| 8 | 11.581 | 1689 | 1699 | 1710 | rBV | 570480 | 959546 | 100.00% | 15.833% |
| 9 | 12.575 | 1858 | 1868 | 1880 | rBV | 305845 | 514075 | 53.57% | 8.482% |
| 10 | 13.516 | 2019 | 2028 | 2037 | rBV | 529550 | 868602 | 90.52% | 14.332% |
| 11 | 14.045 | 2112 | 2118 | 2124 | rBV2 | 31710 | 48920 | 5.10% | 0.807% |

Sum of corrected areas: 6060589

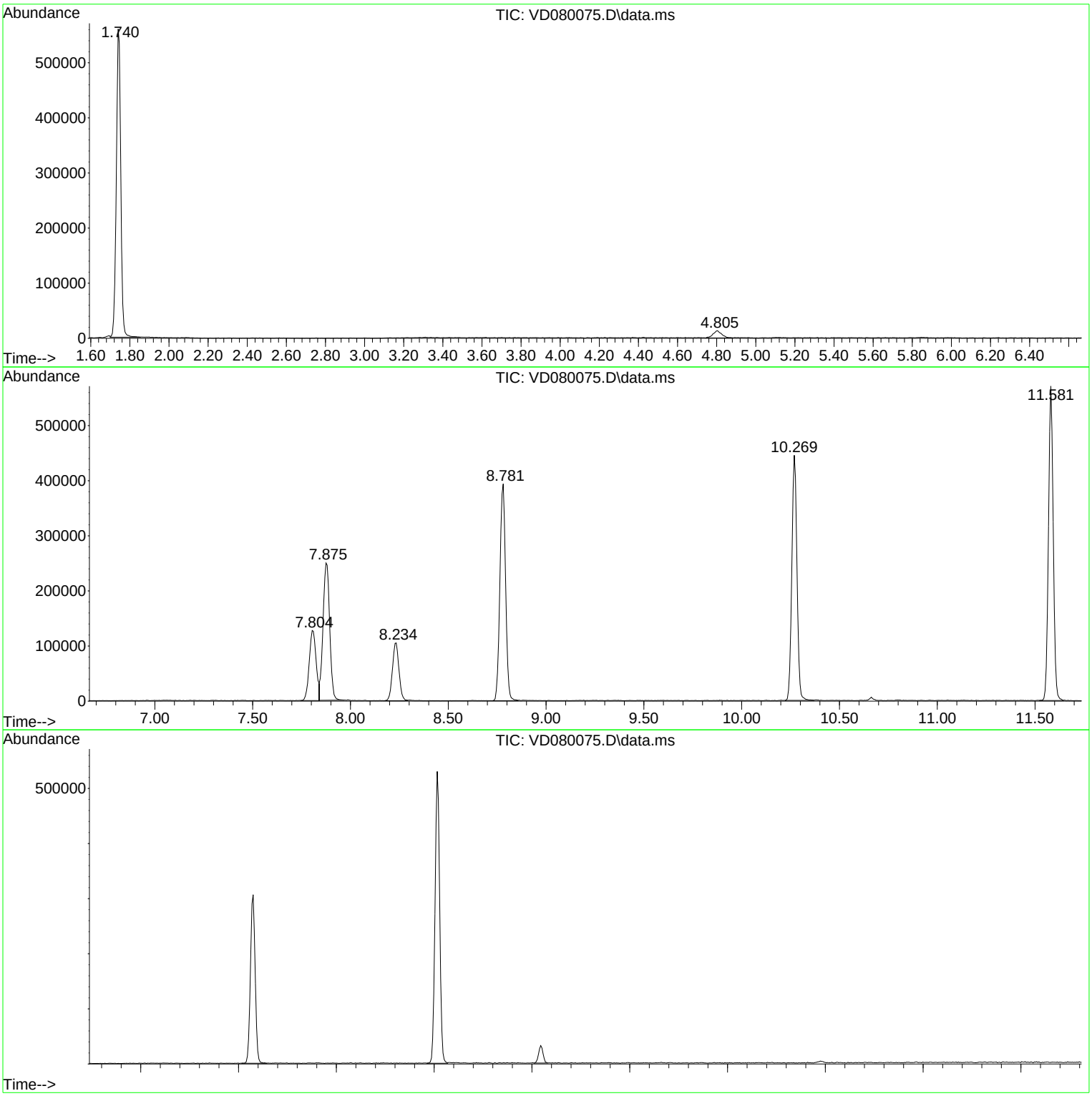
Sample Results: **VD080075.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080075.D
Acq On : 18 Nov 2024 18:00
Operator : RP/MD
Sample : P4860-04
Misc : 6.28G/5ml/MSVOA_D/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-003

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080075.D
Acq On : 18 Nov 2024 18:00
Operator : RP/MD
Sample : P4860-04
Misc : 6.28G/5ml/MSVOA_D/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-003

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.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_D\Data\VD111824\
Data File : VD080075.D
Acq On : 18 Nov 2024 18:00
Operator : RP/MD
Sample : P4860-04
Misc : 6.28G/5ml/MSVOA_D/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-003

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.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_D\Data\VD111824\
Data File : VD080076.D
Acq On : 18 Nov 2024 18:28
Operator : RP/MD
Sample : P4860-05
Misc : 6.25G/5ml/MSVOA_D/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-004

Quant Time: Nov 19 04:50:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 200921 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.780 | 114 | 364222 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.580 | 117 | 324341 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 143861 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.233 | 65 | 84226 | 40.715 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 81.420% | | | |
| 35) Dibromofluoromethane | 7.810 | 113 | 91562 | 37.773 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 75.540% | | | |
| 50) Toluene-d8 | 10.269 | 98 | 290784 | 31.828 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 63.660% | | | |
| 62) 4-Bromofluorobenzene | 12.574 | 95 | 91664 | 30.581 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 61.160% | | | |

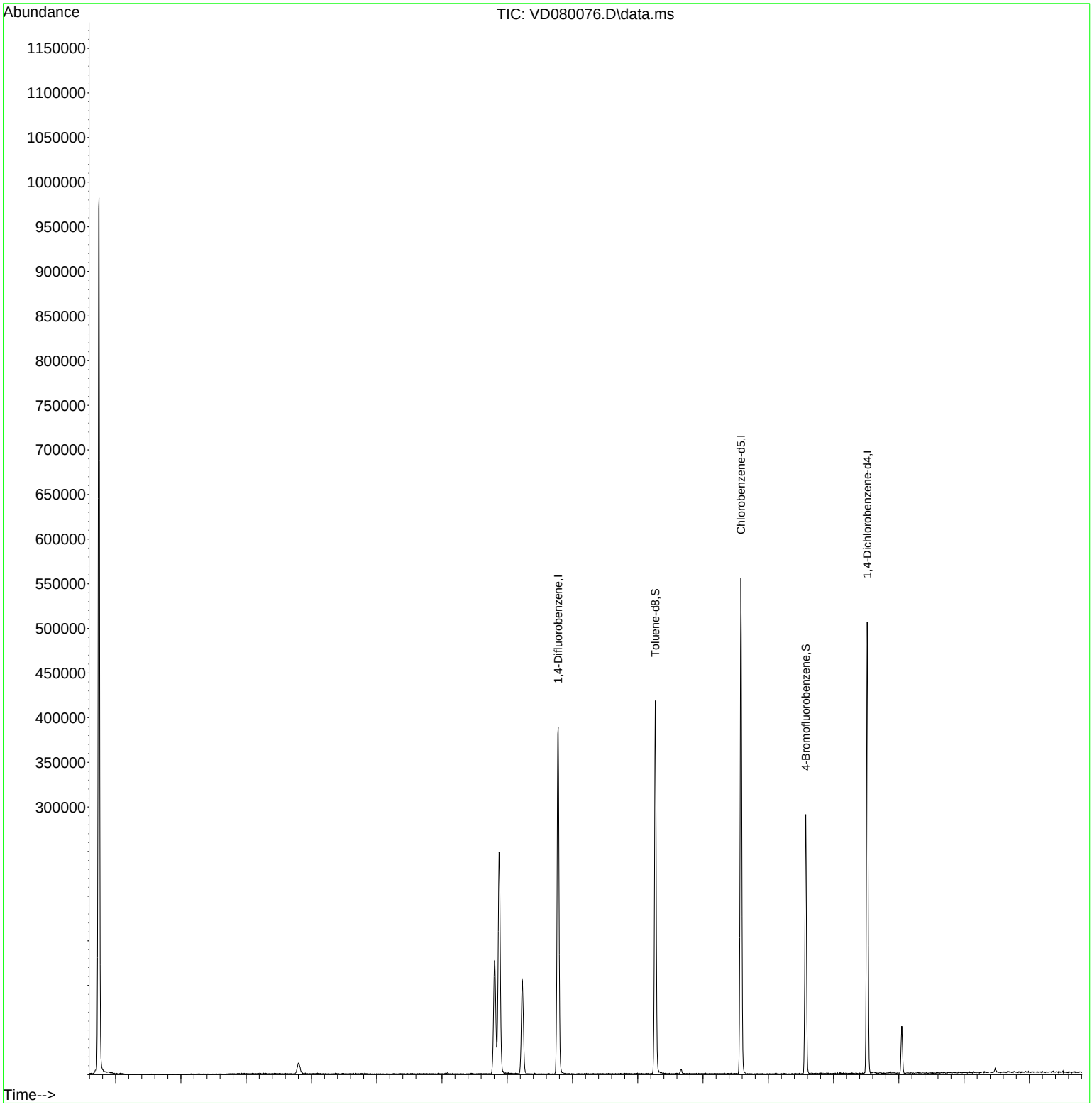
Target Compounds Qvalue

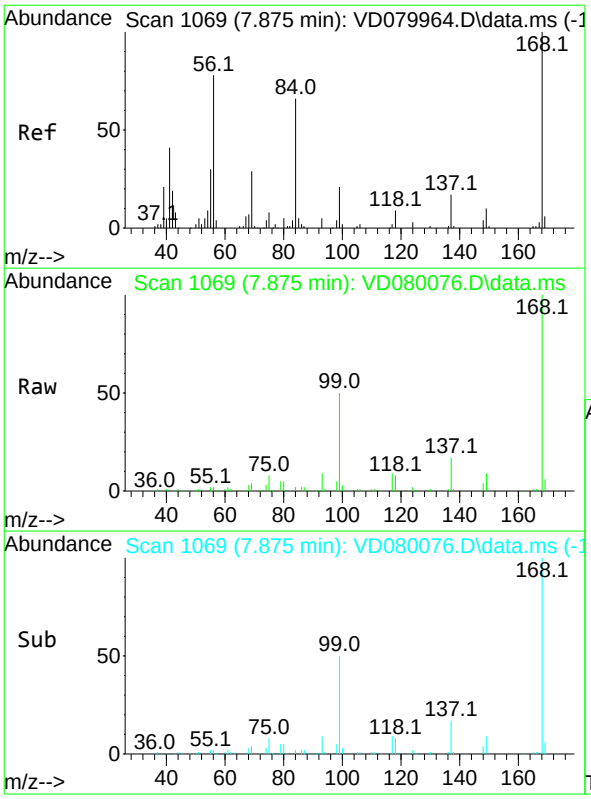
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080076.D
Acq On : 18 Nov 2024 18:28
Operator : RP/MD
Sample : P4860-05
Misc : 6.25G/5ml/MSVOA_D/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-004

Quant Time: Nov 19 04:50:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration



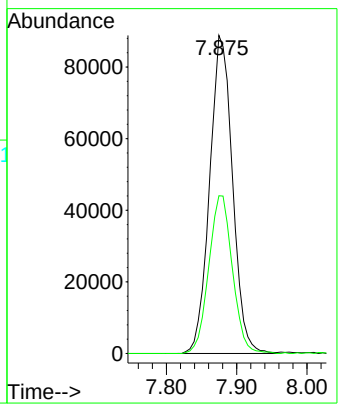


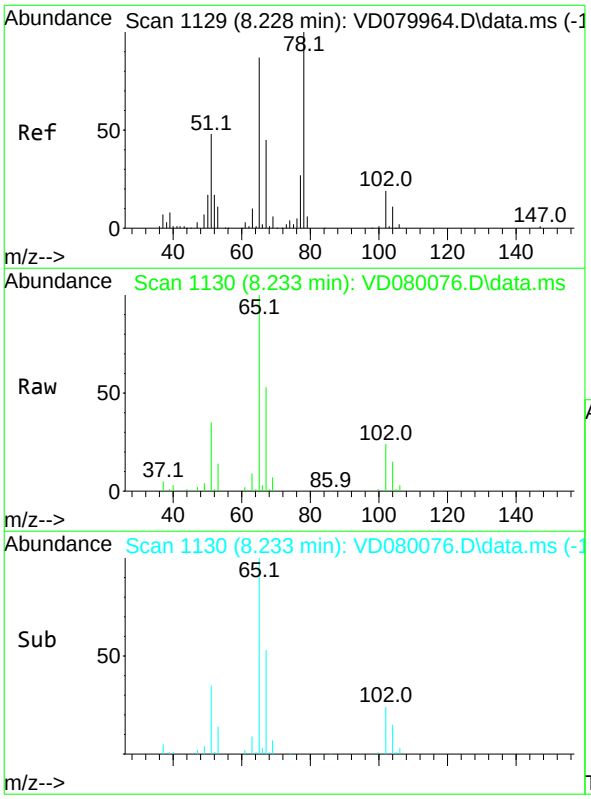

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 10
Delta R.T. -0.000 min
Lab File: VD080076.D
Acq: 18 Nov 2024 18:28

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-004

Tgt Ion:168 Resp: 200921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 49.6 | 46.0 | 69.0 |

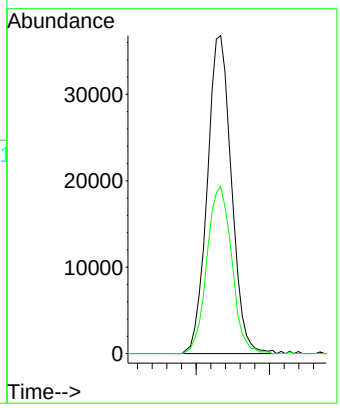



#33
1,2-Dichloroethane-d4
Concen: 40.715 ug/l
RT: 8.233 min Scan# 1130
Delta R.T. 0.005 min
Lab File: VD080076.D
Acq: 18 Nov 2024 18:28

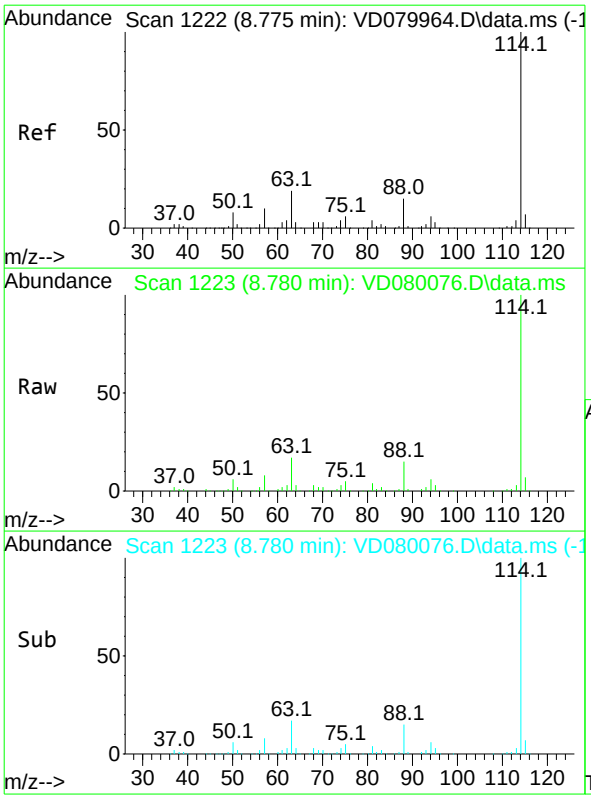
Tgt Ion: 65 Resp: 84226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.9 | 0.0 | 109.2 |



5

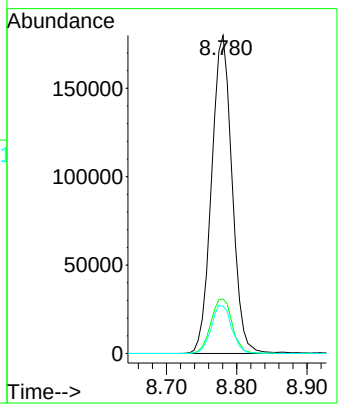
**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-004

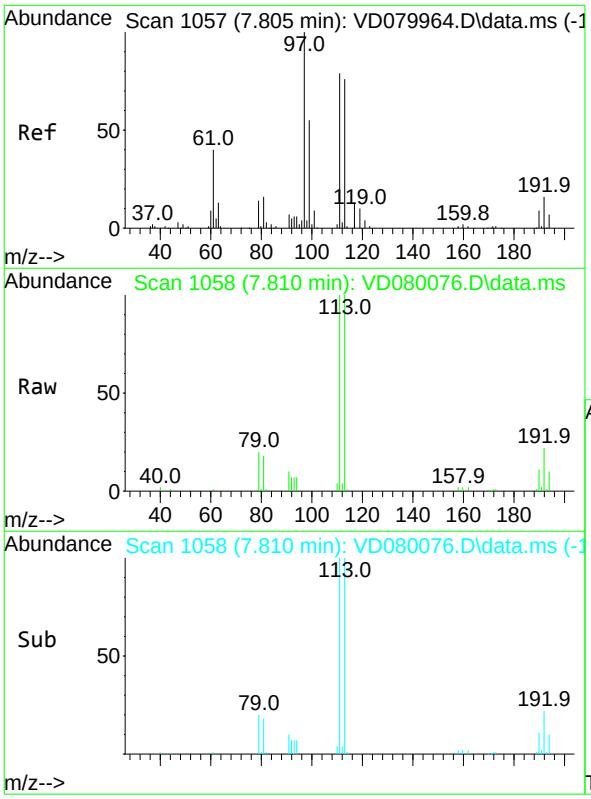



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.780 min Scan# 12
Delta R.T. 0.005 min
Lab File: VD080076.D
Acq: 18 Nov 2024 18:28

Tgt Ion:114 Resp: 364222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.1 | 0.0 | 38.8 |
| 88 | 14.8 | 0.0 | 30.6 |

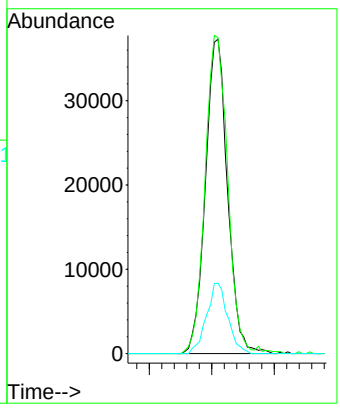


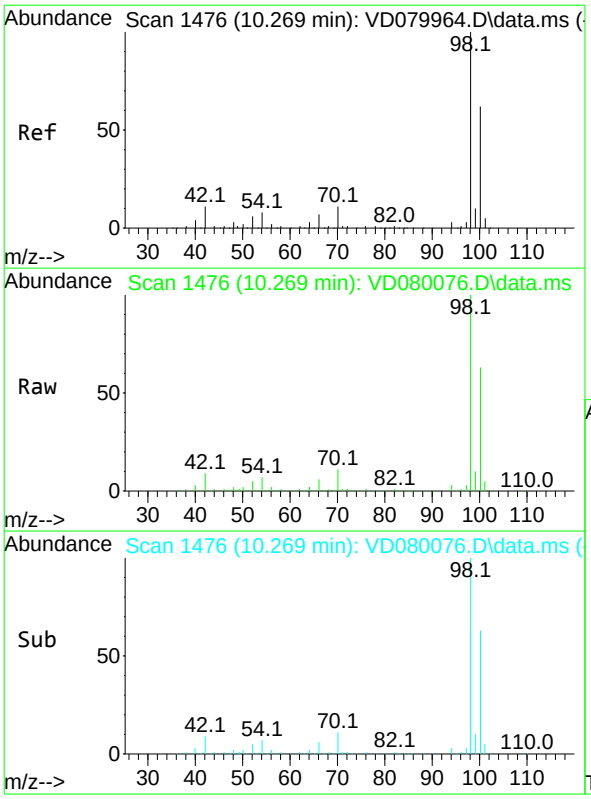




#35
Dibromofluoromethane
Concen: 37.773 ug/l
RT: 7.810 min Scan# 1058
Delta R.T. 0.005 min
Lab File: VD080076.D
Acq: 18 Nov 2024 18:28

Tgt Ion:113 Resp: 91562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.9 | 82.5 | 123.7 |
| 192 | 21.4 | 16.6 | 25.0 |



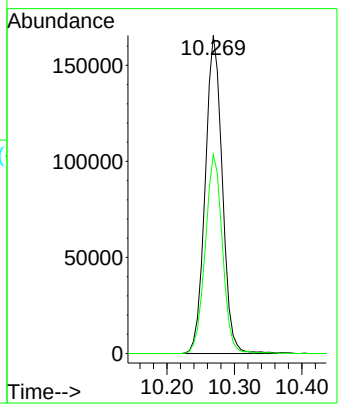


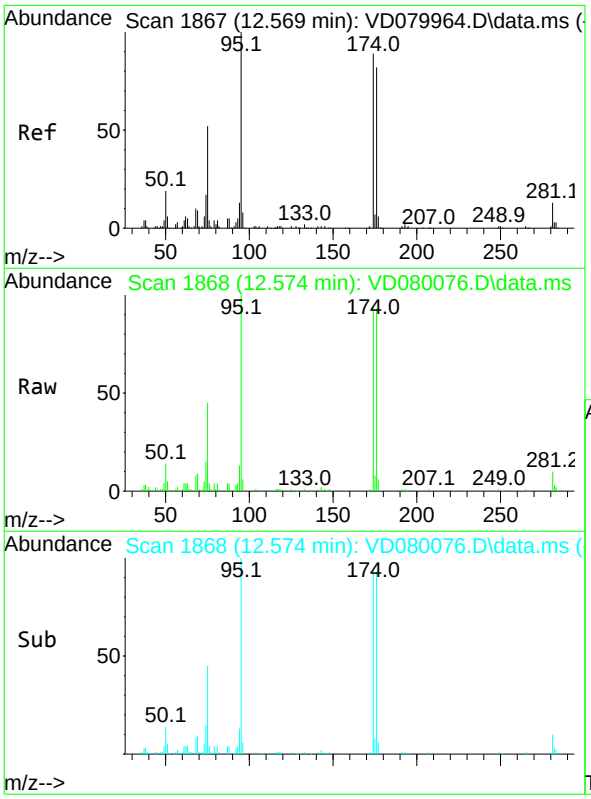

#50
Toluene-d8
Concen: 31.828 ug/l
RT: 10.269 min Scan# 14
Delta R.T. -0.000 min
Lab File: VD080076.D
Acq: 18 Nov 2024 18:28

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-004

Tgt Ion: 98 Resp: 290784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.1 | 50.2 | 75.4 |

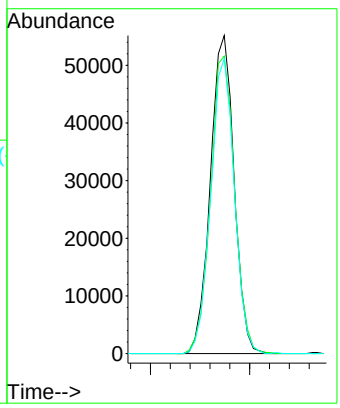


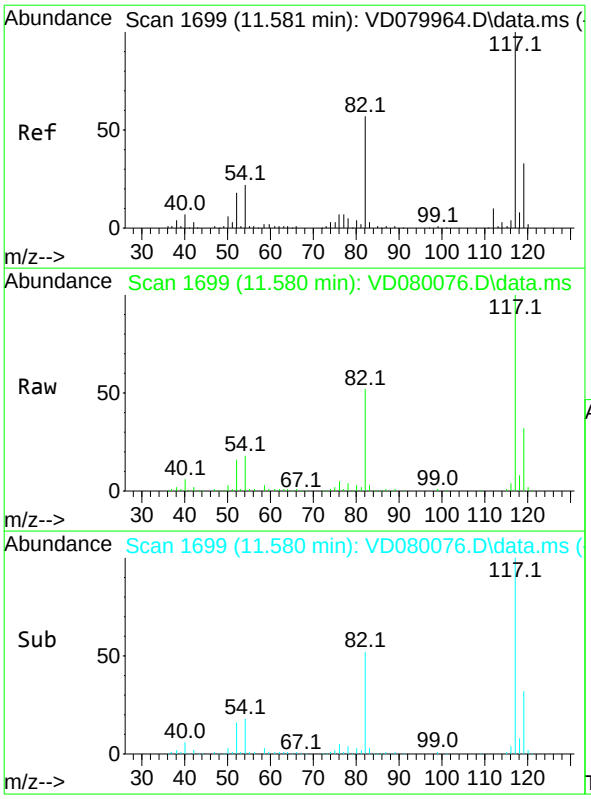




#62
4-Bromofluorobenzene
Concen: 30.581 ug/l
RT: 12.574 min Scan# 1868
Delta R.T. 0.005 min
Lab File: VD080076.D
Acq: 18 Nov 2024 18:28

Tgt Ion: 95 Resp: 91664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 94.9 | 0.0 | 173.4 |
| 176 | 92.0 | 0.0 | 166.6 |



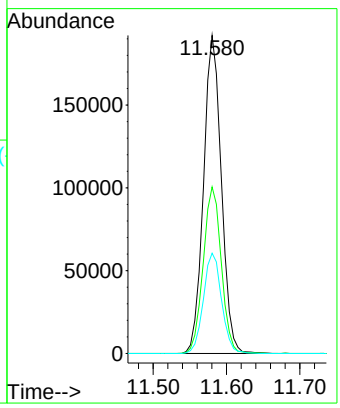


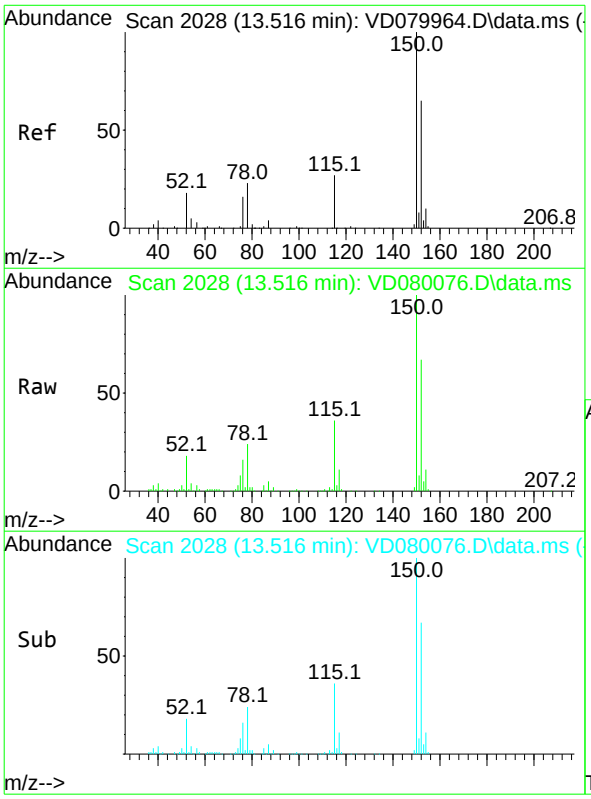

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.580 min Scan# 16
Delta R.T. -0.001 min
Lab File: VD080076.D
Acq: 18 Nov 2024 18:28

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-004

Tgt Ion:117 Resp: 324341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.4 | 45.8 | 68.6 |
| 119 | 31.5 | 26.2 | 39.2 |

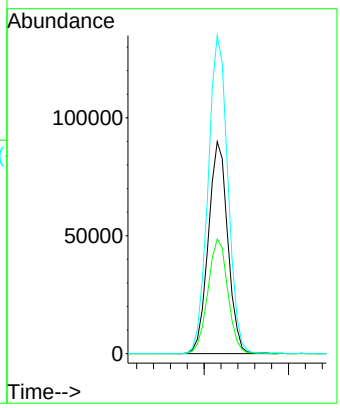



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.000 min
Lab File: VD080076.D
Acq: 18 Nov 2024 18:28

Tgt Ion:152 Resp: 143861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 55.4 | 28.9 | 86.8 |
| 150 | 152.9 | 0.0 | 354.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080076.D
Acq On : 18 Nov 2024 18:28
Operator : RP/MD
Sample : P4860-05
Misc : 6.25G/5ml/MSVOA_D/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-004

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_D\Method\82D111524S.M
Title : SW846 8260

Signal : TIC: VD080076.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.746 | 20 | 27 | 39 | rVB | 978876 | 1517184 | 100.00% | 23.134% |
| 2 | 4.798 | 536 | 546 | 556 | rBV4 | 12063 | 38452 | 2.53% | 0.586% |
| 3 | 7.804 | 1048 | 1057 | 1063 | rBV2 | 126128 | 307406 | 20.26% | 4.687% |
| 4 | 7.875 | 1063 | 1069 | 1084 | rVB | 248015 | 575906 | 37.96% | 8.781% |
| 5 | 8.233 | 1121 | 1130 | 1142 | rBV | 104026 | 235438 | 15.52% | 3.590% |
| 6 | 8.780 | 1210 | 1223 | 1241 | rBV | 388659 | 808262 | 53.27% | 12.324% |
| 7 | 10.269 | 1468 | 1476 | 1486 | rBV | 417822 | 743612 | 49.01% | 11.339% |
| 8 | 11.580 | 1691 | 1699 | 1714 | rVB | 555196 | 945490 | 62.32% | 14.417% |
| 9 | 12.574 | 1861 | 1868 | 1876 | rBV | 290330 | 487980 | 32.16% | 7.441% |
| 10 | 13.516 | 2021 | 2028 | 2036 | rBV | 505439 | 816990 | 53.85% | 12.457% |
| 11 | 14.045 | 2112 | 2118 | 2125 | rVB | 52736 | 81513 | 5.37% | 1.243% |

Sum of corrected areas: 6558233

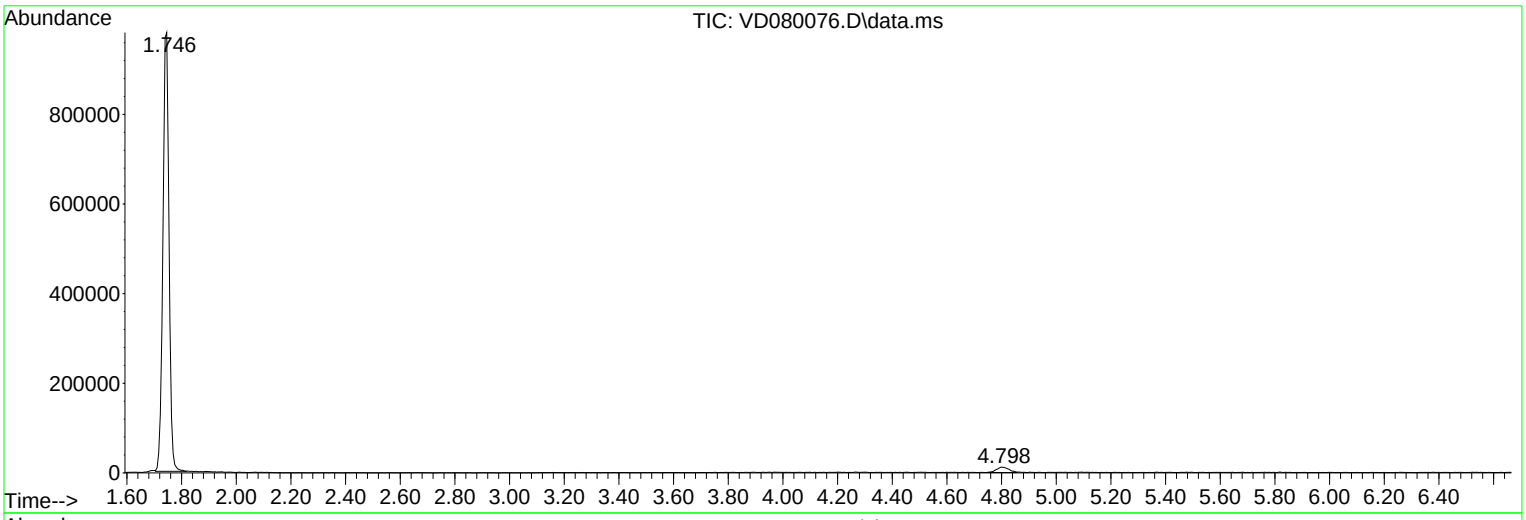
Sample Results: **VD080076.D**

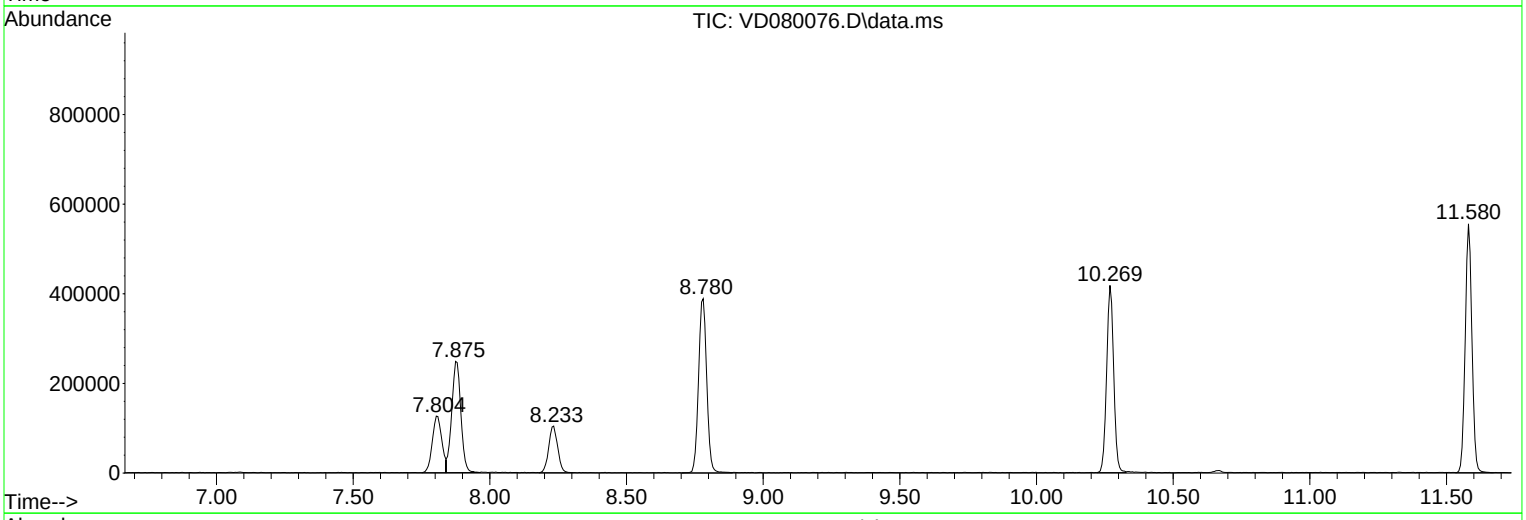
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080076.D
Acq On : 18 Nov 2024 18:28
Operator : RP/MD
Sample : P4860-05
Misc : 6.25G/5ml/MSVOA_D/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

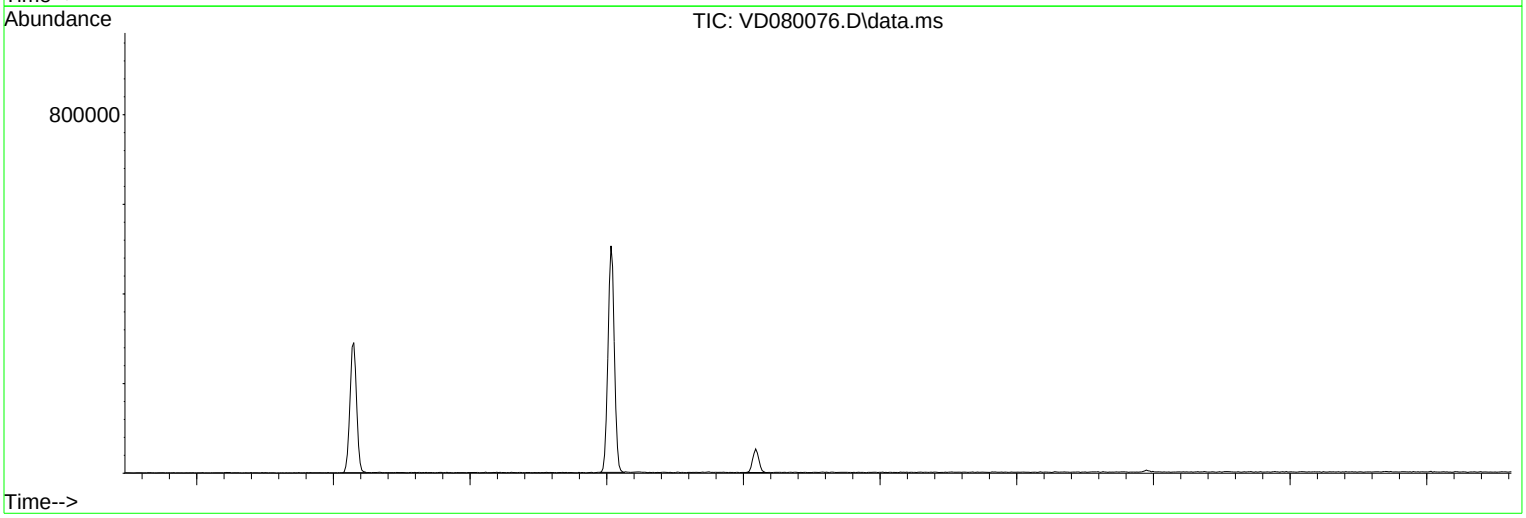
**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-004

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080076.D
Acq On : 18 Nov 2024 18:28
Operator : RP/MD
Sample : P4860-05
Misc : 6.25G/5ml/MSVOA_D/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-004

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.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_D\Data\VD111824\
Data File : VD080076.D
Acq On : 18 Nov 2024 18:28
Operator : RP/MD
Sample : P4860-05
Misc : 6.25G/5ml/MSVOA_D/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-004

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.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\VY112024\
Data File : VY020369.D
Acq On : 20 Nov 2024 18:58
Operator : SY/MD
Sample : P4860-06
Misc : 7.41g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-009

Quant Time: Nov 21 00:52:29 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

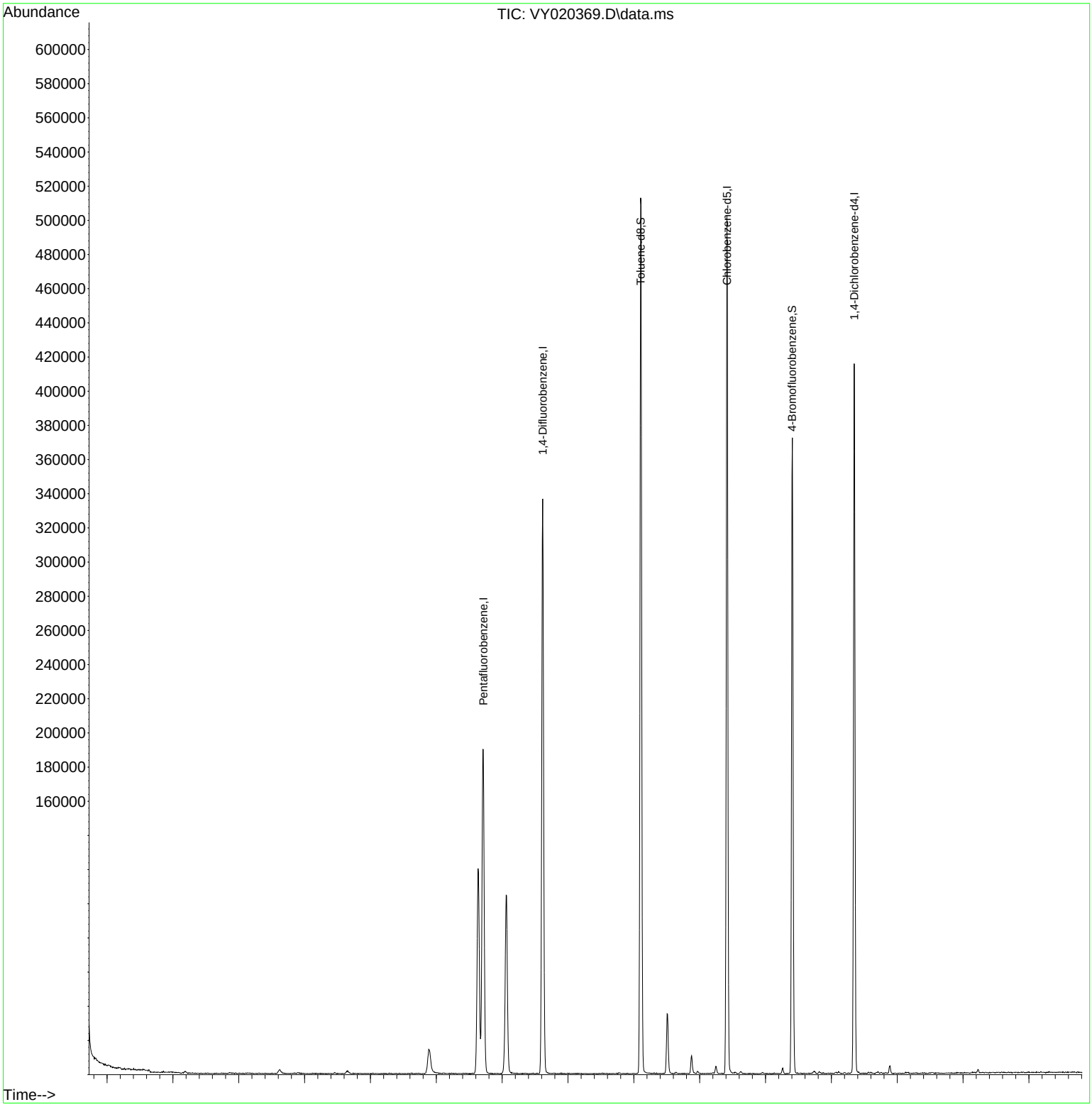
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 142975 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 273649 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 253521 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 99327 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 84547 | 51.471 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 102.940% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 84465 | 48.136 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 96.280% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 332194 | 48.059 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 96.120% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 111020 | 49.963 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 99.920% | | | |
| Target Compounds | | | | | | Qvalue |

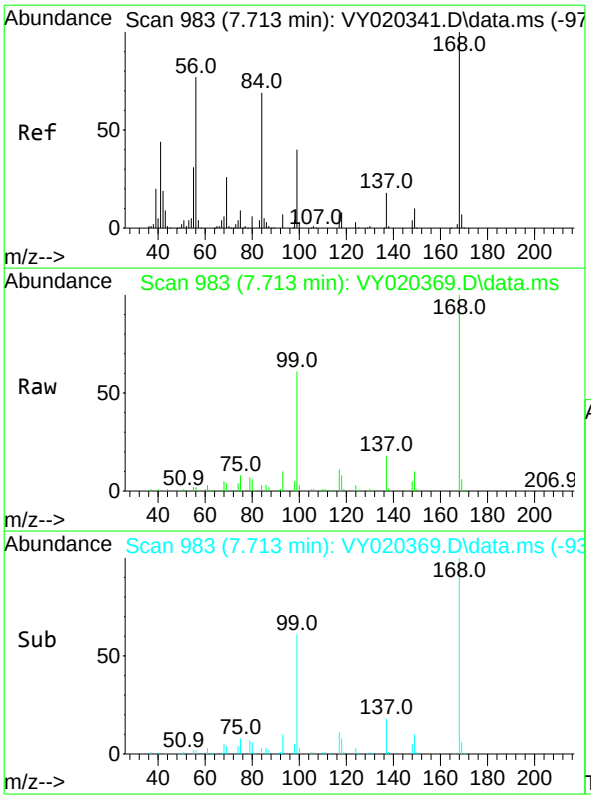
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020369.D
Acq On : 20 Nov 2024 18:58
Operator : SY/MD
Sample : P4860-06
Misc : 7.41g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-009

Quant Time: Nov 21 00:52:29 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



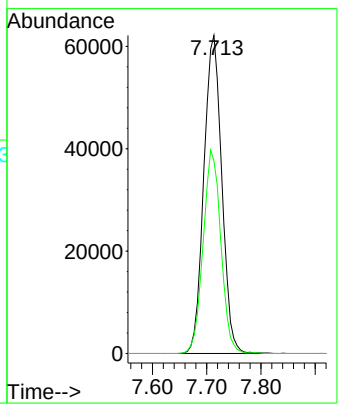


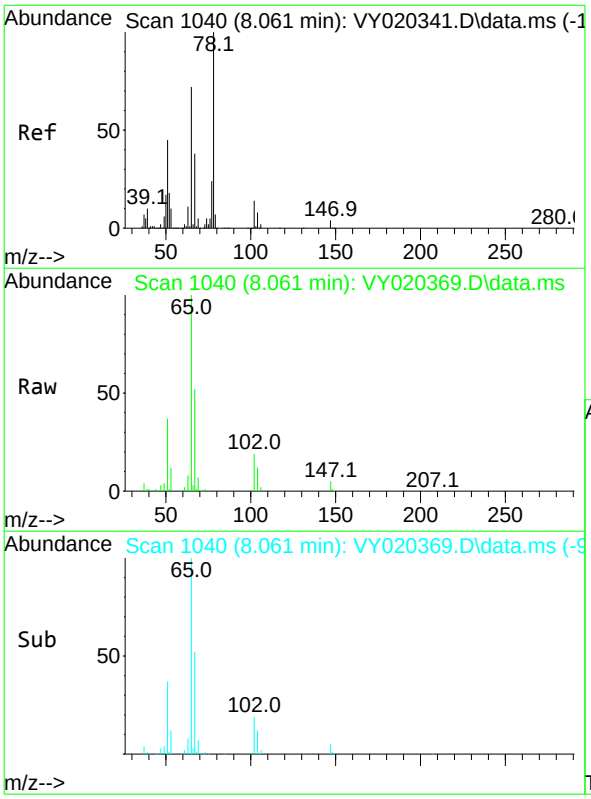

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020369.D
Acq: 20 Nov 2024 18:58

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-009

Tgt Ion:168 Resp: 142975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.5 | 46.6 | 69.8 |

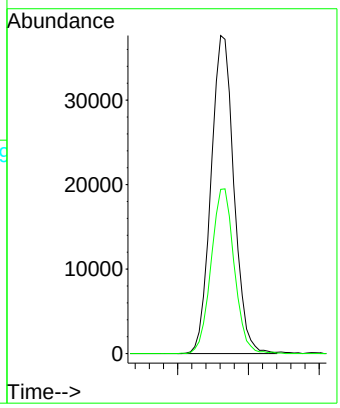


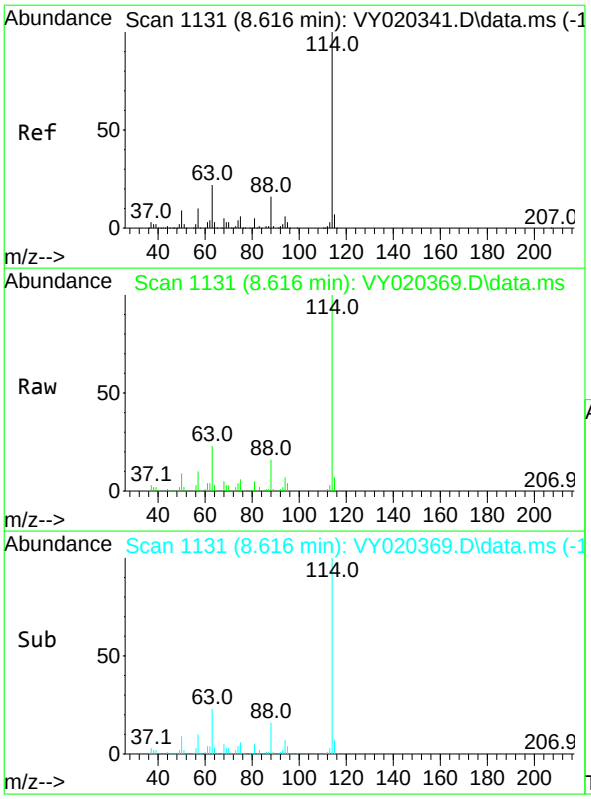




#33
1,2-Dichloroethane-d4
Concen: 51.471 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY020369.D
Acq: 20 Nov 2024 18:58

Tgt Ion: 65 Resp: 84547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.4 | 0.0 | 105.8 |



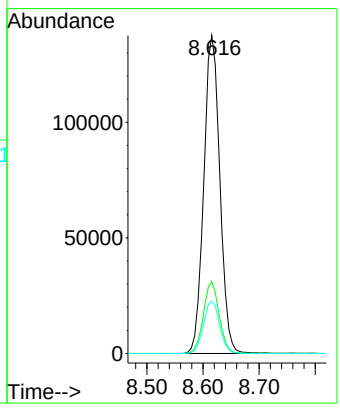


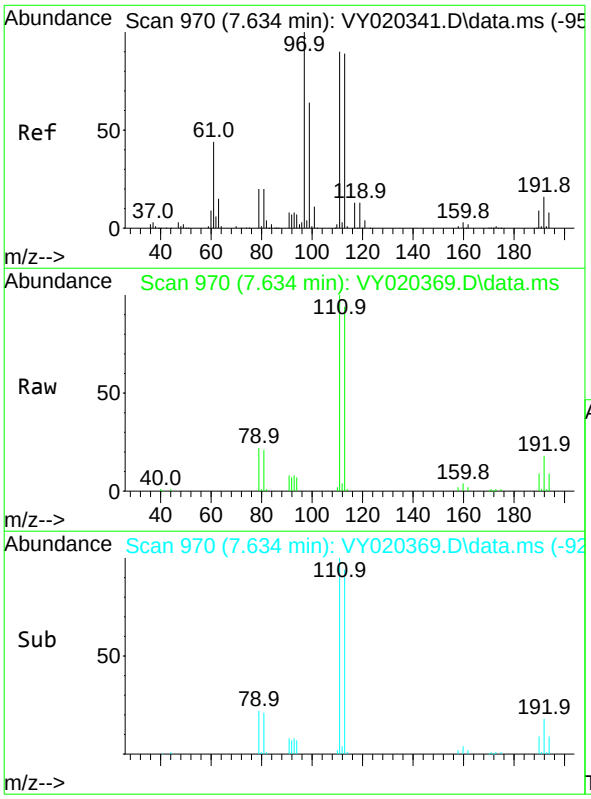

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY020369.D
Acq: 20 Nov 2024 18:58

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-009

Tgt Ion:114 Resp: 273649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.6 | 0.0 | 44.8 |
| 88 | 16.4 | 0.0 | 32.0 |

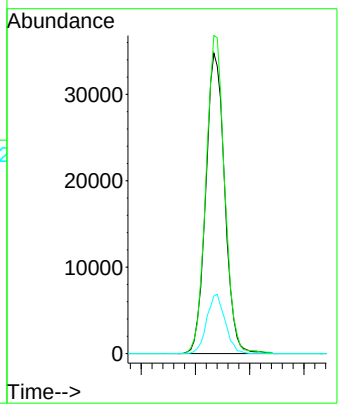


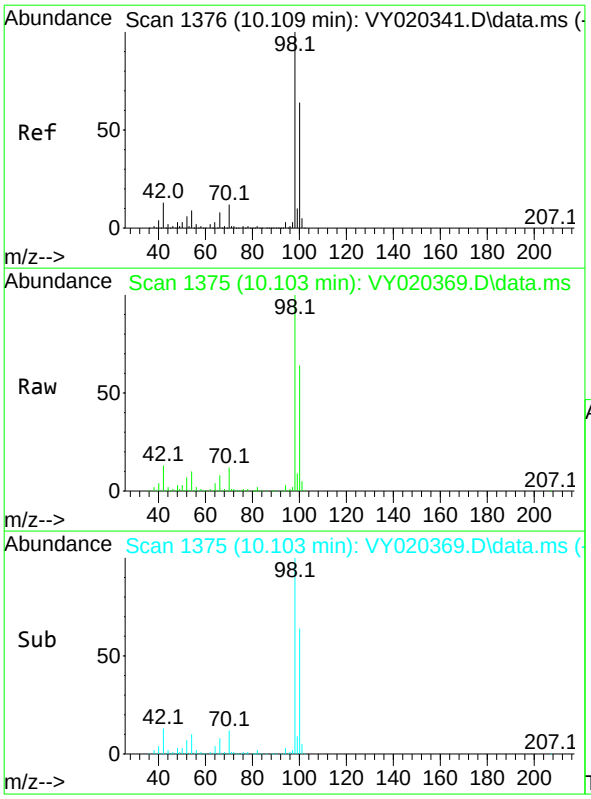




#35
Dibromofluoromethane
Concen: 48.136 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY020369.D
Acq: 20 Nov 2024 18:58

Tgt Ion:113 Resp: 84465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.5 | 81.4 | 122.0 |
| 192 | 19.1 | 15.1 | 22.7 |



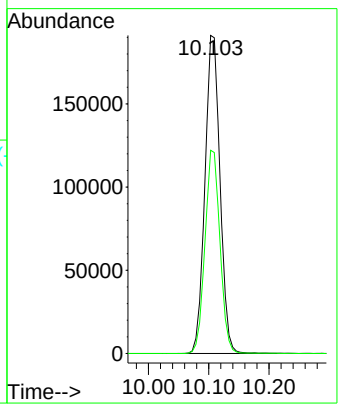


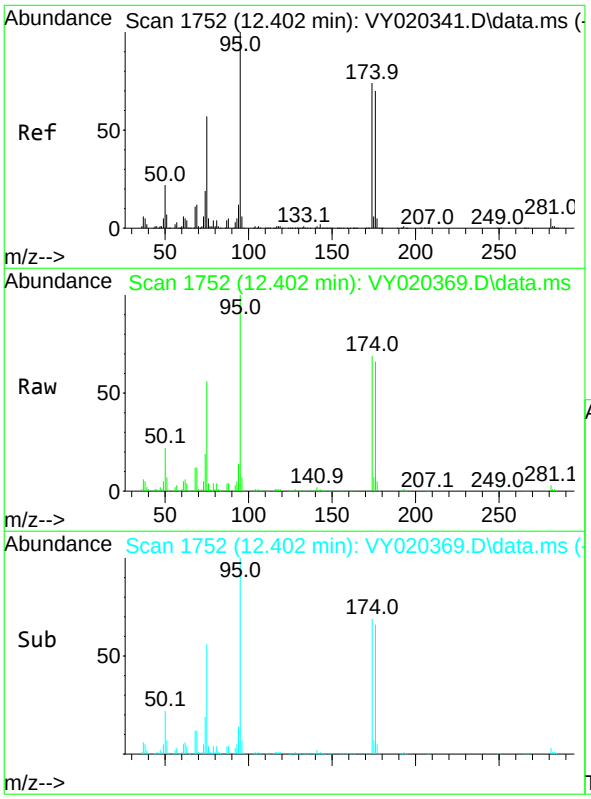

#50
Toluene-d8
Concen: 48.059 ug/l
RT: 10.103 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020369.D
Acq: 20 Nov 2024 18:58

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-009

Tgt Ion: 98 Resp: 332194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.6 | 51.3 | 76.9 |

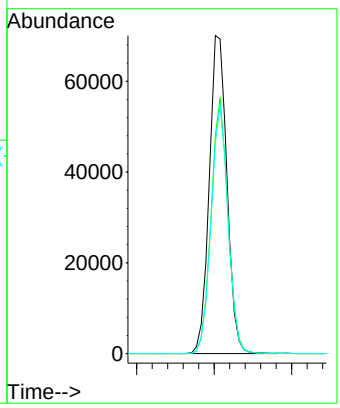


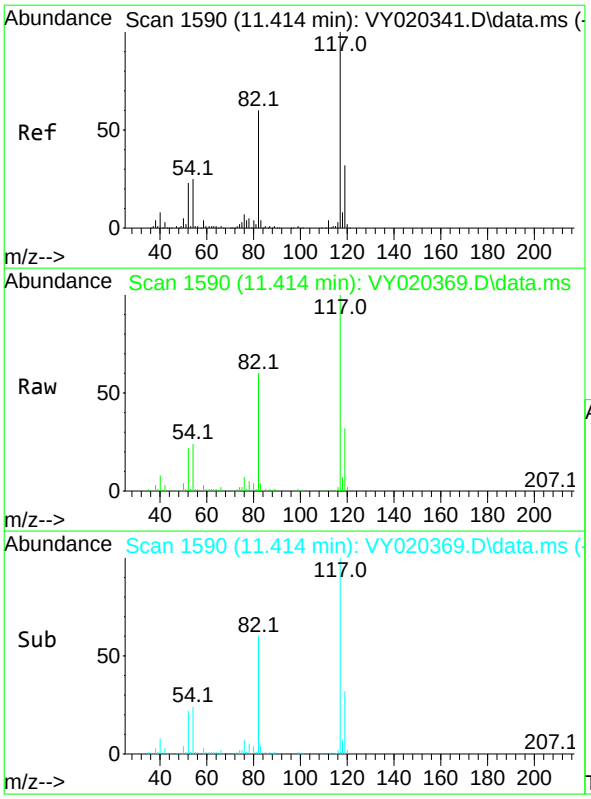




#62
4-Bromofluorobenzene
Concen: 49.963 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY020369.D
Acq: 20 Nov 2024 18:58

Tgt Ion: 95 Resp: 111020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 76.6 | 0.0 | 156.8 |
| 176 | 74.7 | 0.0 | 152.0 |



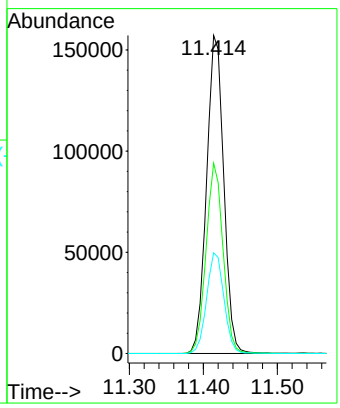


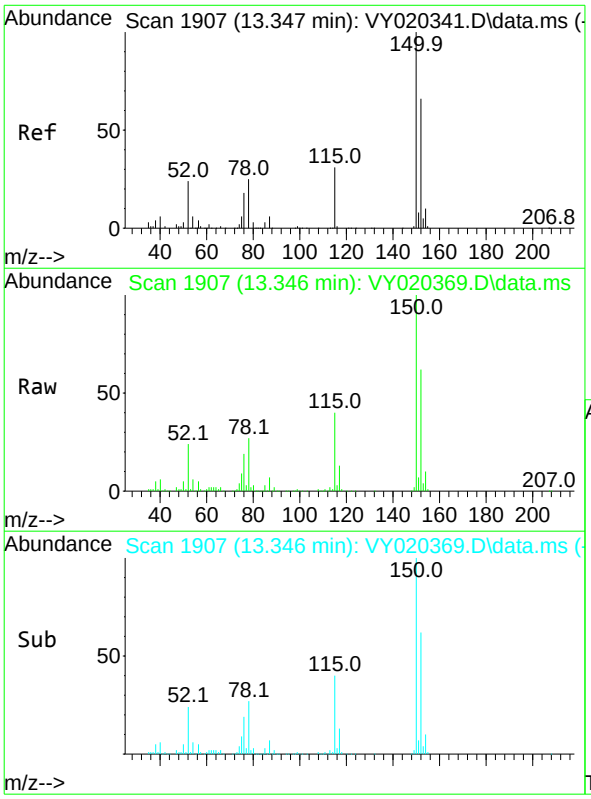

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY020369.D
Acq: 20 Nov 2024 18:58

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-009

Tgt Ion:117 Resp: 253521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.8 | 48.2 | 72.4 |
| 119 | 31.7 | 25.8 | 38.8 |

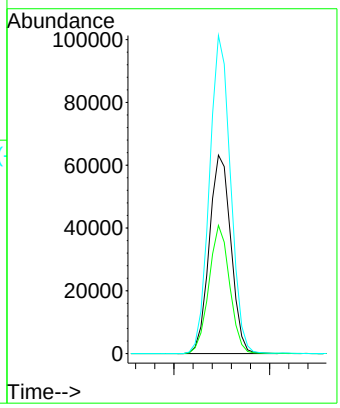



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY020369.D
Acq: 20 Nov 2024 18:58

Tgt Ion:152 Resp: 99327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.8 | 30.0 | 90.0 |
| 150 | 155.9 | 0.0 | 348.2 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020369.D
Acq On : 20 Nov 2024 18:58
Operator : SY/MD
Sample : P4860-06
Misc : 7.41g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-009

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: VY020369.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 6.884 | 837 | 847 | 861 | rBV | 14366 | 49114 | 5.48% | 1.039% |
| 2 | 7.634 | 959 | 970 | 976 | rBV | 120036 | 287101 | 32.05% | 6.072% |
| 3 | 7.707 | 976 | 982 | 998 | rVB | 189741 | 449032 | 50.13% | 9.497% |
| 4 | 8.061 | 1028 | 1040 | 1053 | rBV | 104526 | 247387 | 27.62% | 5.232% |
| 5 | 8.616 | 1121 | 1131 | 1141 | rBV | 336447 | 666153 | 74.37% | 14.089% |
| 6 | 10.103 | 1368 | 1375 | 1386 | rBV | 512213 | 895730 | 100.00% | 18.944% |
| 7 | 10.506 | 1434 | 1441 | 1452 | rBV2 | 34939 | 65011 | 7.26% | 1.375% |
| 8 | 10.877 | 1495 | 1502 | 1513 | rBV2 | 10455 | 18429 | 2.06% | 0.390% |
| 9 | 11.414 | 1583 | 1590 | 1604 | rBV | 501741 | 806127 | 90.00% | 17.049% |
| 10 | 12.408 | 1746 | 1753 | 1763 | rVB2 | 371932 | 608376 | 67.92% | 12.867% |
| 11 | 13.346 | 1897 | 1907 | 1917 | rBV | 415353 | 635774 | 70.98% | 13.446% |

Sum of corrected areas: 4728234

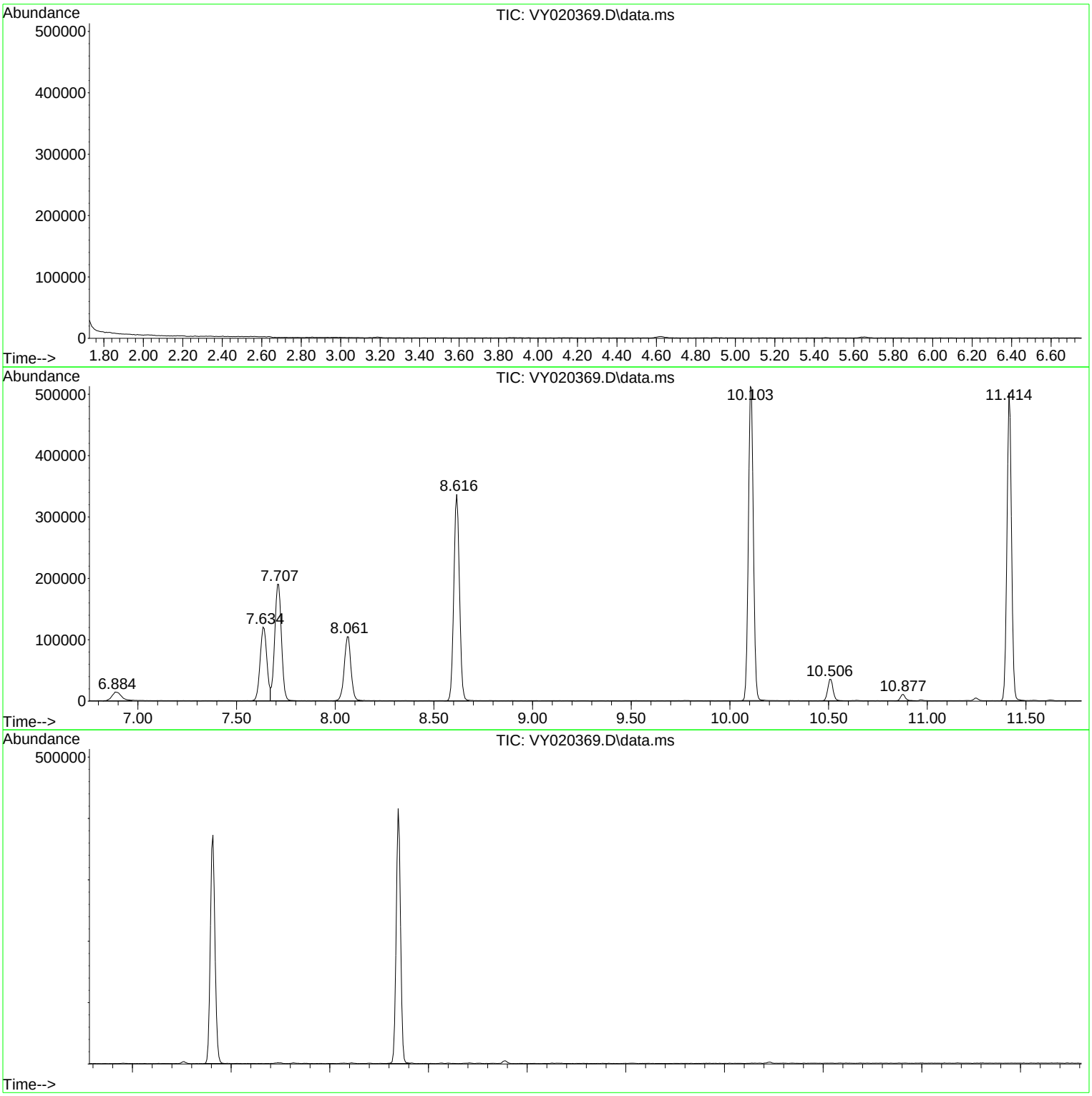
Sample Results: **VY020369.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020369.D
Acq On : 20 Nov 2024 18:58
Operator : SY/MD
Sample : P4860-06
Misc : 7.41g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-009

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\VY112024\
Data File : VY020369.D
Acq On : 20 Nov 2024 18:58
Operator : SY/MD
Sample : P4860-06
Misc : 7.41g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-009

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\VY112024\
Data File : VY020369.D
Acq On : 20 Nov 2024 18:58
Operator : SY/MD
Sample : P4860-06
Misc : 7.41g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-009

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_D\Data\VD111824\
Data File : VD080078.D
Acq On : 18 Nov 2024 19:22
Operator : RP/MD
Sample : P4860-07
Misc : 6.20G/5ml/MSVOA_D/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-008

Quant Time: Nov 19 04:51:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

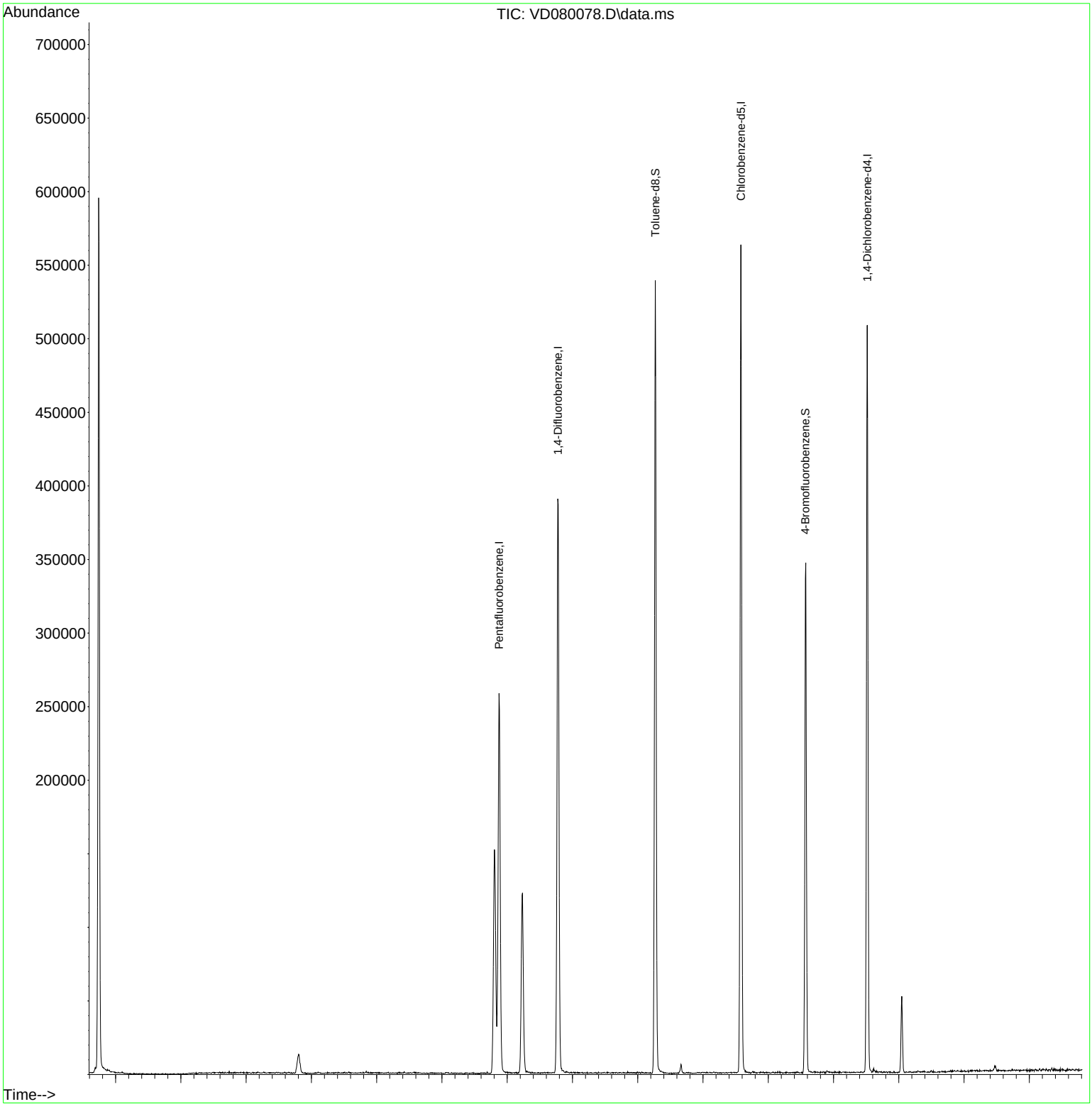
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 209792 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.775 | 114 | 360025 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 320832 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 141967 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 96108 | 44.494 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 88.980% | | | |
| 35) Dibromofluoromethane | 7.805 | 113 | 110302 | 46.034 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 92.060% | | | |
| 50) Toluene-d8 | 10.269 | 98 | 377907 | 41.846 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 83.700% | | | |
| 62) 4-Bromofluorobenzene | 12.569 | 95 | 107643 | 36.330 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 72.660% | | | |
| Target Compounds | | | | | | Qvalue |

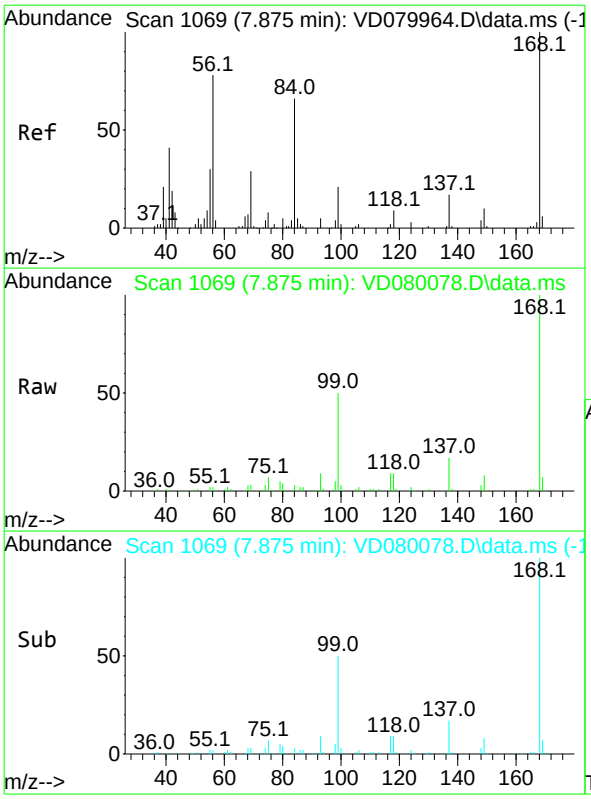
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080078.D
Acq On : 18 Nov 2024 19:22
Operator : RP/MD
Sample : P4860-07
Misc : 6.20G/5ml/MSVOA_D/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-008

Quant Time: Nov 19 04:51:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration



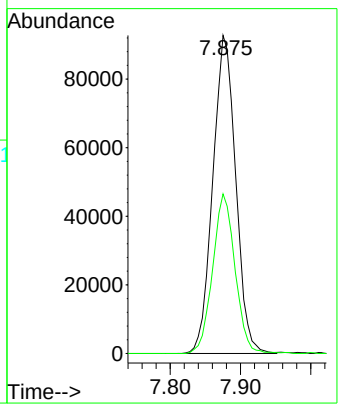


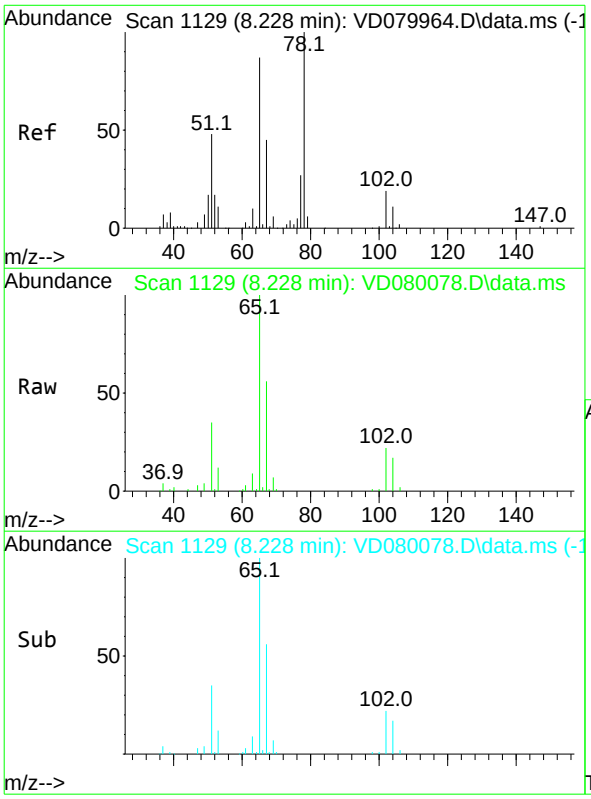

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 10
Delta R.T. 0.000 min
Lab File: VD080078.D
Acq: 18 Nov 2024 19:22

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-008

Tgt Ion:168 Resp: 209792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 50.2 | 46.0 | 69.0 |

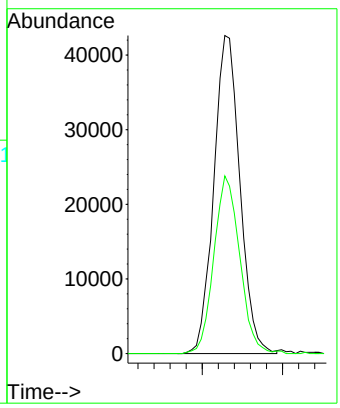


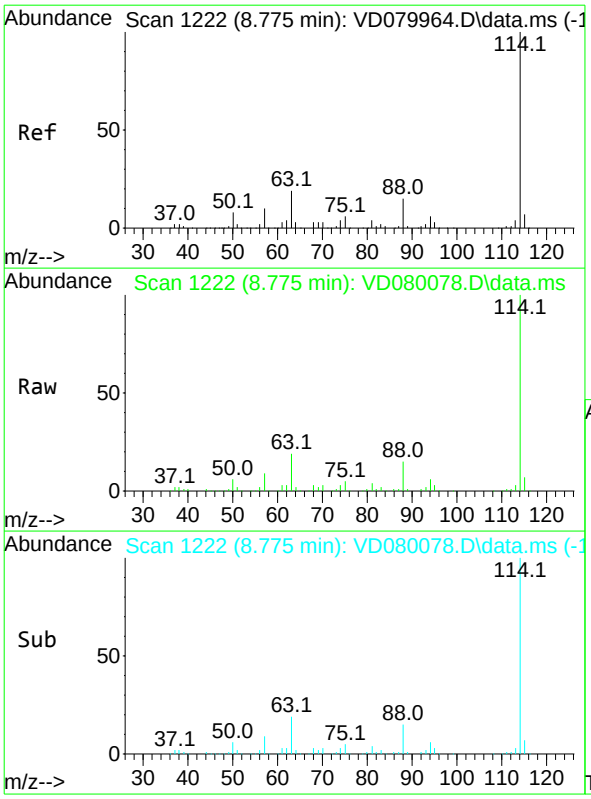




#33
1,2-Dichloroethane-d4
Concen: 44.494 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VD080078.D
Acq: 18 Nov 2024 19:22

Tgt Ion: 65 Resp: 96108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 55.4 | 0.0 | 109.2 |



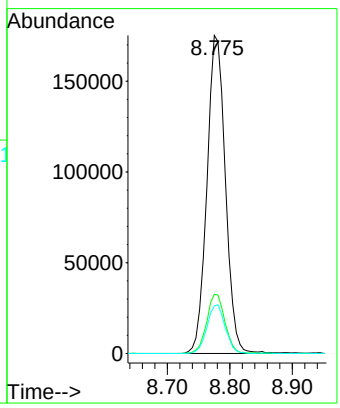


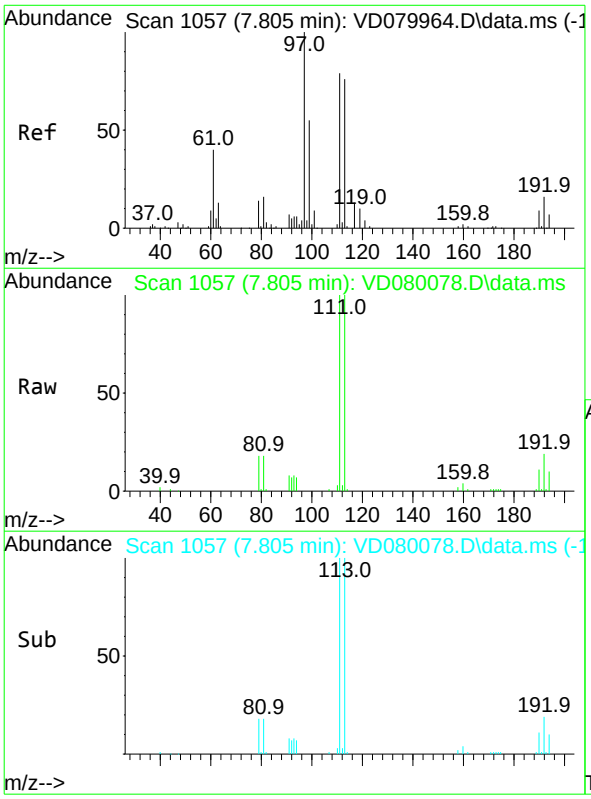

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.775 min Scan# 12
Delta R.T. 0.000 min
Lab File: VD080078.D
Acq: 18 Nov 2024 19:22

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-008

Tgt Ion:114 Resp: 360025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.6 | 0.0 | 38.8 |
| 88 | 14.9 | 0.0 | 30.6 |

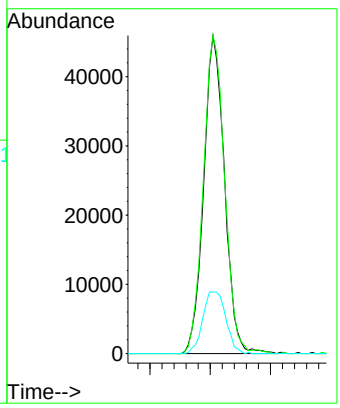


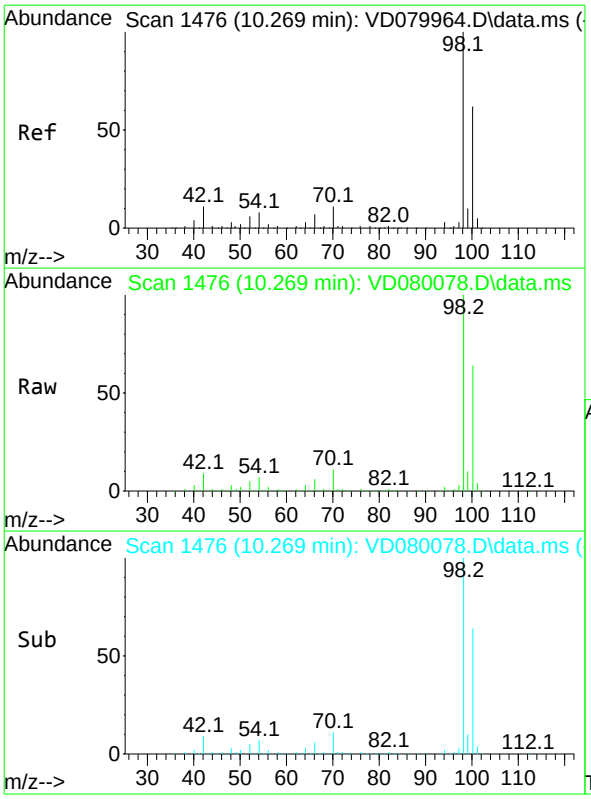




#35
Dibromofluoromethane
Concen: 46.034 ug/l
RT: 7.805 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VD080078.D
Acq: 18 Nov 2024 19:22

Tgt Ion:113 Resp: 110302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.0 | 82.5 | 123.7 |
| 192 | 21.5 | 16.6 | 25.0 |



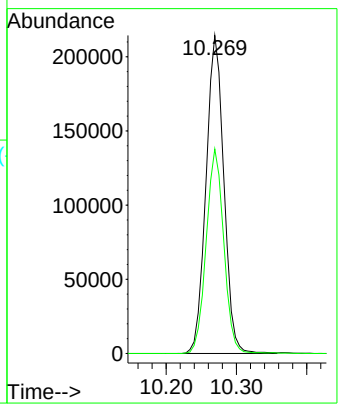


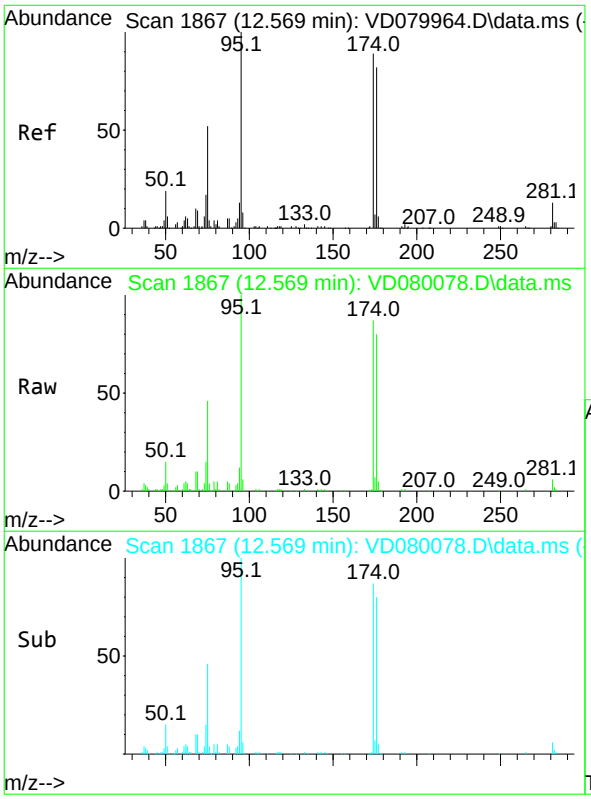

#50
Toluene-d8
Concen: 41.846 ug/l
RT: 10.269 min Scan# 14
Delta R.T. 0.000 min
Lab File: VD080078.D
Acq: 18 Nov 2024 19:22

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-008

Tgt Ion: 98 Resp: 377907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.3 | 50.2 | 75.4 |

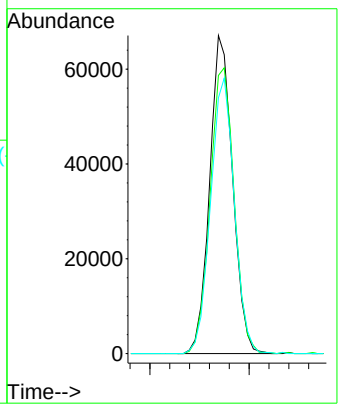


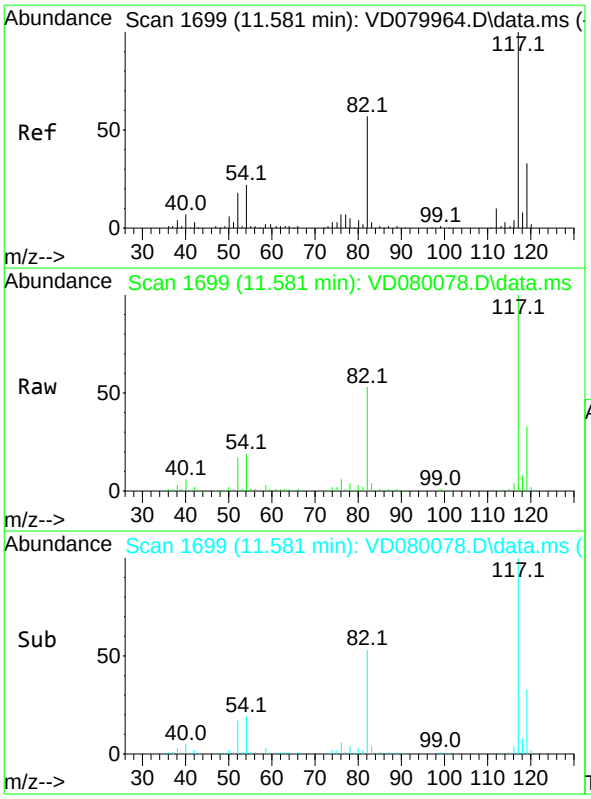




#62
4-Bromofluorobenzene
Concen: 36.330 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VD080078.D
Acq: 18 Nov 2024 19:22

Tgt Ion: 95 Resp: 107643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 94.3 | 0.0 | 173.4 |
| 176 | 89.6 | 0.0 | 166.6 |



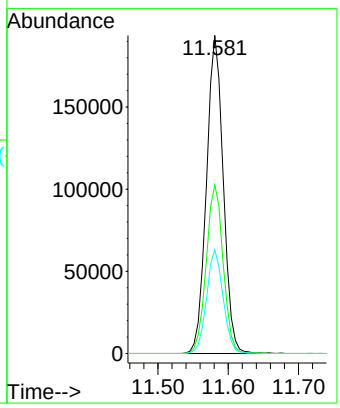


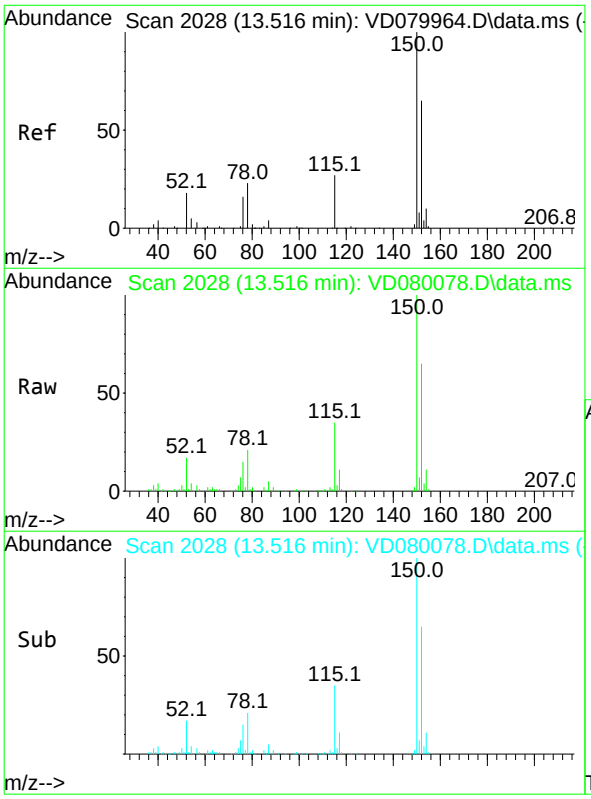

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 16
Delta R.T. -0.000 min
Lab File: VD080078.D
Acq: 18 Nov 2024 19:22

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-008

Tgt Ion:117 Resp: 320832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.0 | 45.8 | 68.6 |
| 119 | 32.6 | 26.2 | 39.2 |

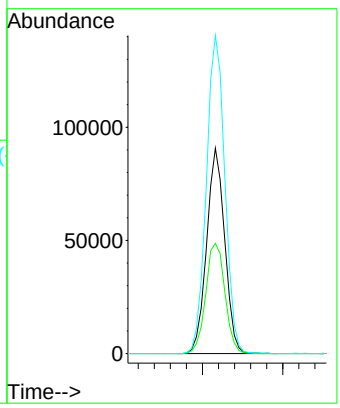



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. 0.000 min
Lab File: VD080078.D
Acq: 18 Nov 2024 19:22

Tgt Ion:152 Resp: 141967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.0 | 28.9 | 86.8 |
| 150 | 158.3 | 0.0 | 354.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080078.D
Acq On : 18 Nov 2024 19:22
Operator : RP/MD
Sample : P4860-07
Misc : 6.20G/5ml/MSVOA_D/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-008

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_D\Method\82D111524S.M
Title : SW846 8260

Signal : TIC: VD080078.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.740 | 19 | 26 | 44 | rVB | 592729 | 930625 | 98.11% | 14.570% |
| 2 | 4.805 | 537 | 547 | 560 | rBV4 | 12997 | 39633 | 4.18% | 0.621% |
| 3 | 7.805 | 1047 | 1057 | 1063 | rBV | 152098 | 368888 | 38.89% | 5.775% |
| 4 | 7.875 | 1063 | 1069 | 1086 | rVB | 258019 | 580583 | 61.21% | 9.090% |
| 5 | 8.234 | 1118 | 1130 | 1139 | rBV | 122609 | 278468 | 29.36% | 4.360% |
| 6 | 8.775 | 1213 | 1222 | 1233 | rBV | 390241 | 806531 | 85.03% | 12.627% |
| 7 | 10.269 | 1467 | 1476 | 1489 | rBV | 538831 | 948574 | 100.00% | 14.851% |
| 8 | 10.663 | 1537 | 1543 | 1550 | rBV2 | 6118 | 10011 | 1.06% | 0.157% |
| 9 | 11.581 | 1689 | 1699 | 1710 | rBV | 562647 | 940217 | 99.12% | 14.720% |
| 10 | 12.575 | 1860 | 1868 | 1877 | rBV | 346796 | 580929 | 61.24% | 9.095% |
| 11 | 13.516 | 2020 | 2028 | 2040 | rVB | 507819 | 822016 | 86.66% | 12.870% |
| 12 | 14.045 | 2112 | 2118 | 2125 | rVB | 51864 | 80726 | 8.51% | 1.264% |

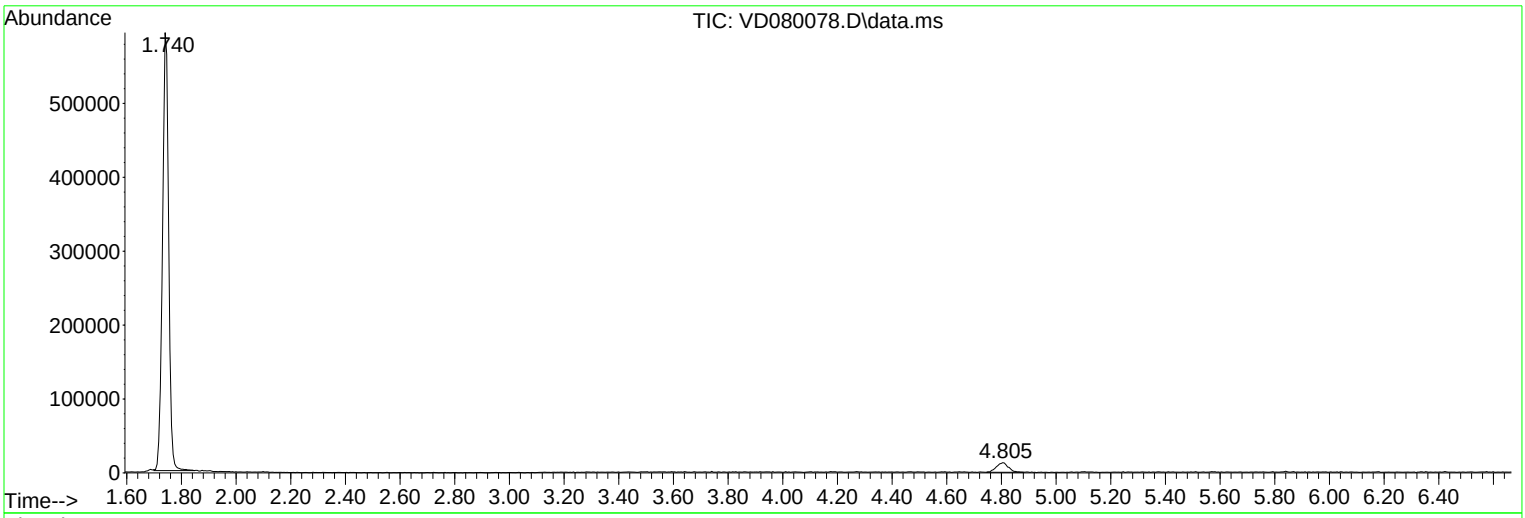
Sum of corrected areas: 6387201

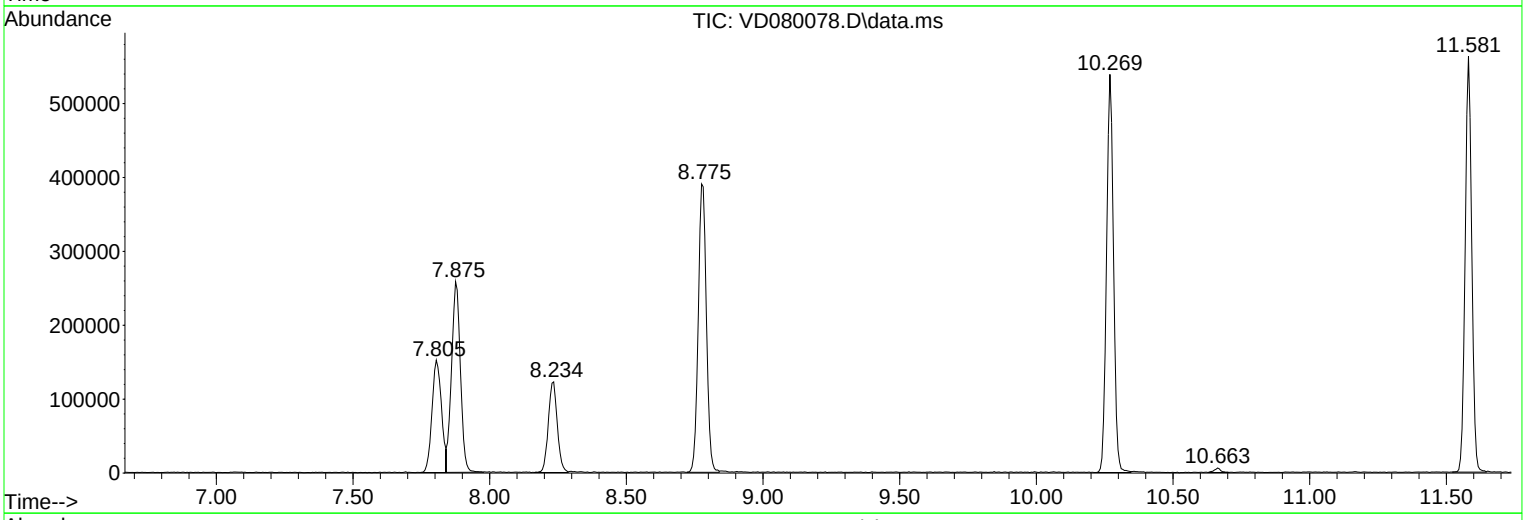
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080078.D
Acq On : 18 Nov 2024 19:22
Operator : RP/MD
Sample : P4860-07
Misc : 6.20G/5ml/MSVOA_D/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

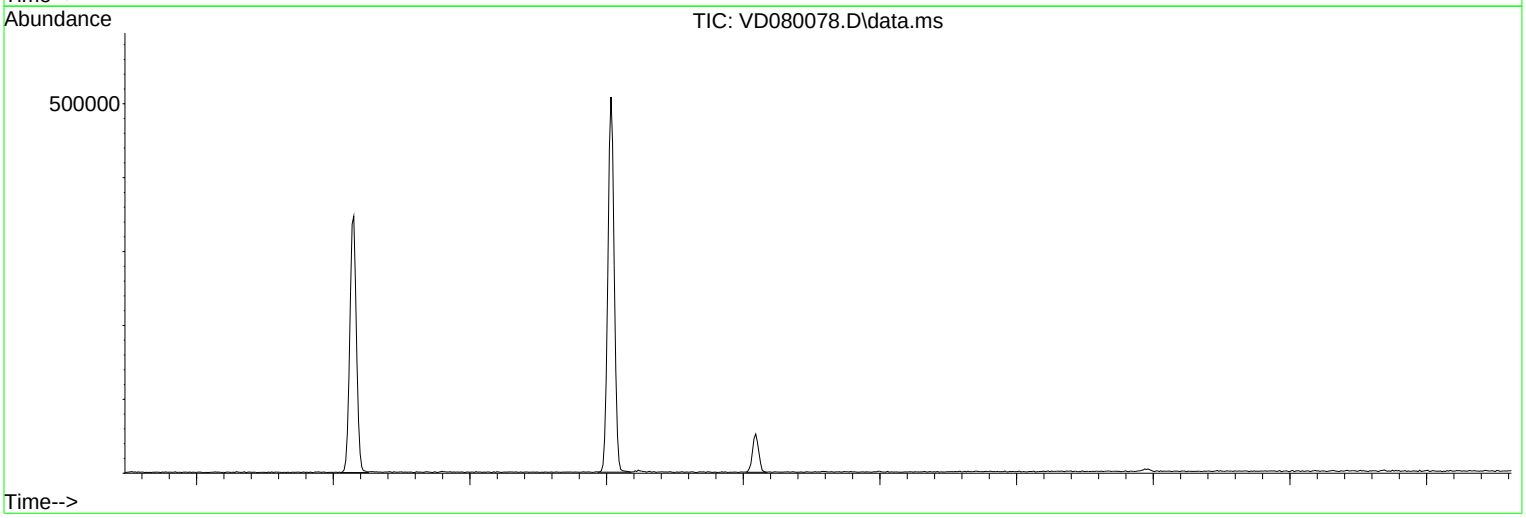
**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-008

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080078.D
Acq On : 18 Nov 2024 19:22
Operator : RP/MD
Sample : P4860-07
Misc : 6.20G/5ml/MSVOA_D/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-008

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.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_D\Data\VD111824\
Data File : VD080078.D
Acq On : 18 Nov 2024 19:22
Operator : RP/MD
Sample : P4860-07
Misc : 6.20G/5ml/MSVOA_D/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-008

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.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_D\Data\VD111824\
Data File : VD080079.D
Acq On : 18 Nov 2024 19:49
Operator : RP/MD
Sample : P4860-08
Misc : 6.33G/5ml/MSVOA_D/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-007

Quant Time: Nov 19 04:51:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

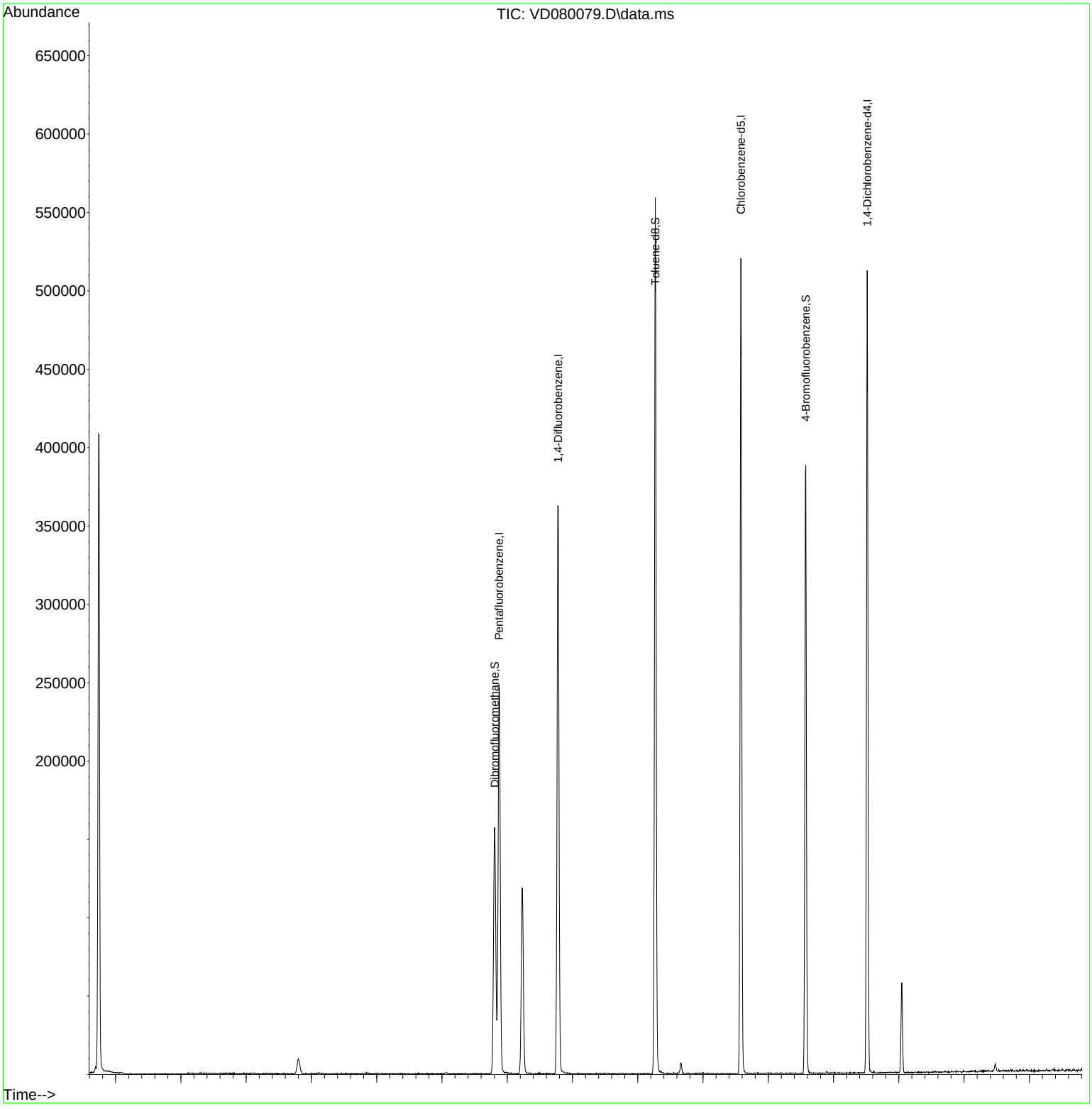
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 216854 | 50.000 | ug/l | # 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 352745 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 326096 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 151026 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 96719 | 43.319 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 86.640% | | |
| 35) Dibromofluoromethane | 7.810 | 113 | 115447 | 49.176 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 98.360% | | |
| 50) Toluene-d8 | 10.269 | 98 | 399589 | 45.161 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 90.320% | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 122092 | 42.057 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 84.120% | | |
| Target Compounds | | | | | | Qvalue |

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

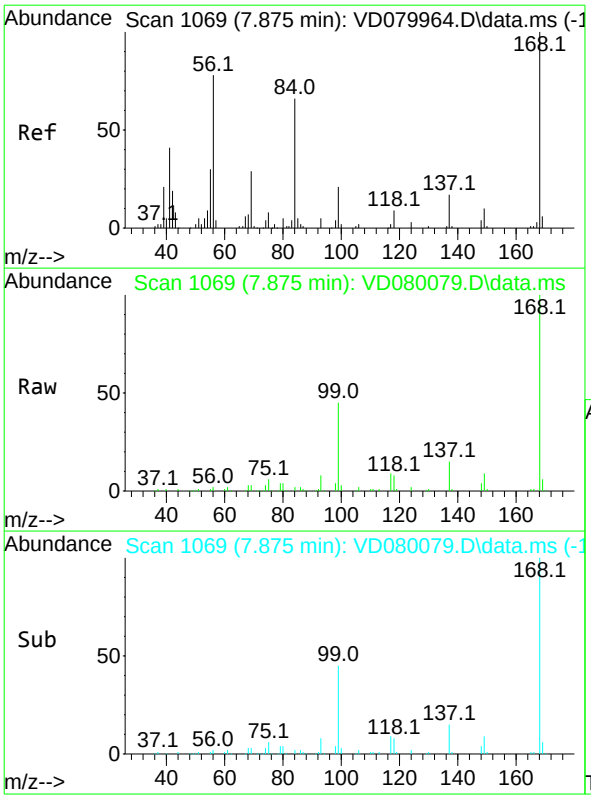
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080079.D
Acq On : 18 Nov 2024 19:49
Operator : RP/MD
Sample : P4860-08
Misc : 6.33G/5ml/MSVOA_D/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-007

Quant Time: Nov 19 04:51:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration



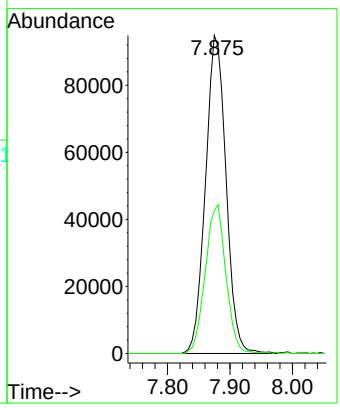
**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-007

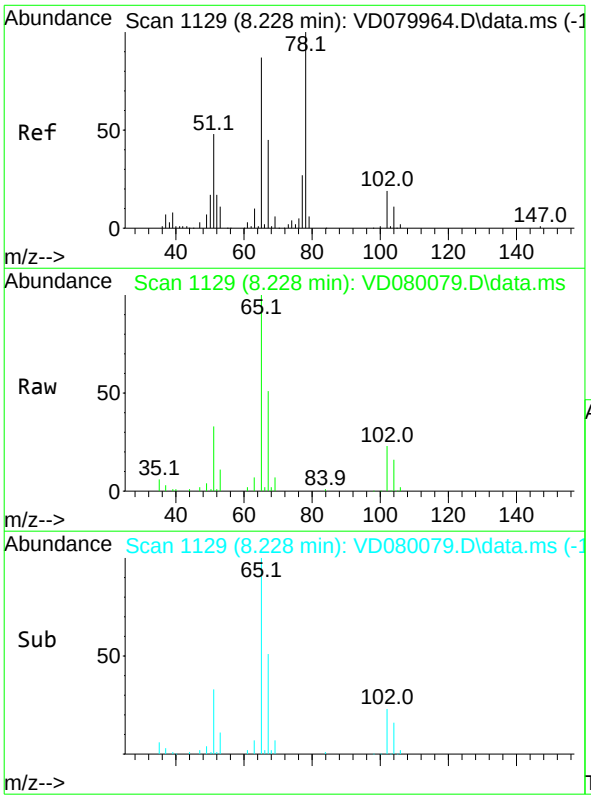



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 10
Delta R.T. -0.000 min
Lab File: VD080079.D
Acq: 18 Nov 2024 19:49

Tgt Ion:168 Resp: 216854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 44.9 | 46.0 | 69.0# |

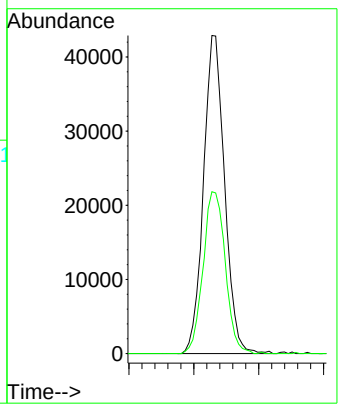


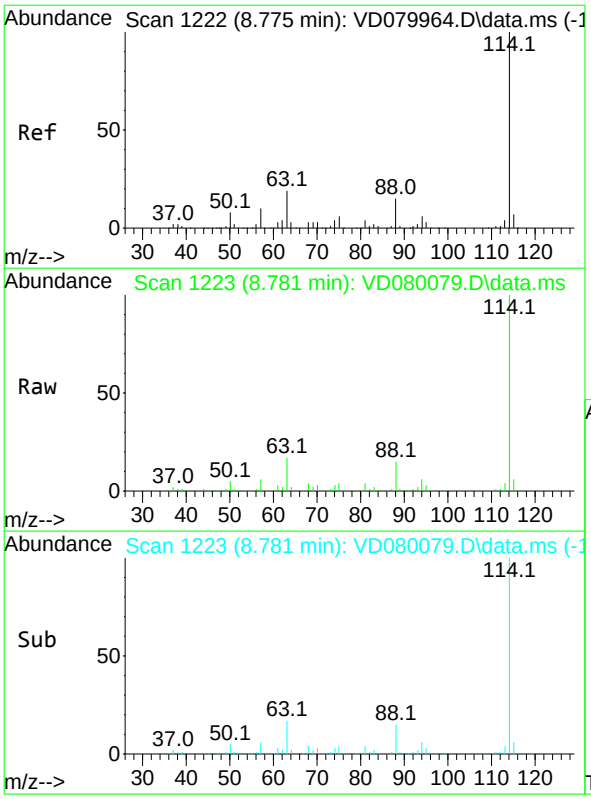




#33
1,2-Dichloroethane-d4
Concen: 43.319 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VD080079.D
Acq: 18 Nov 2024 19:49

Tgt Ion: 65 Resp: 96719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.6 | 0.0 | 109.2 |



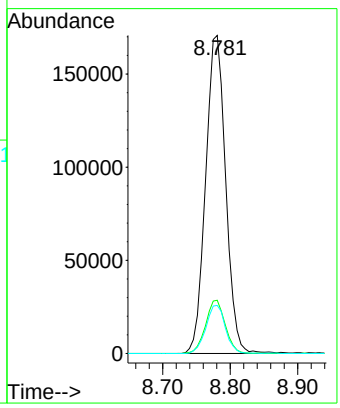


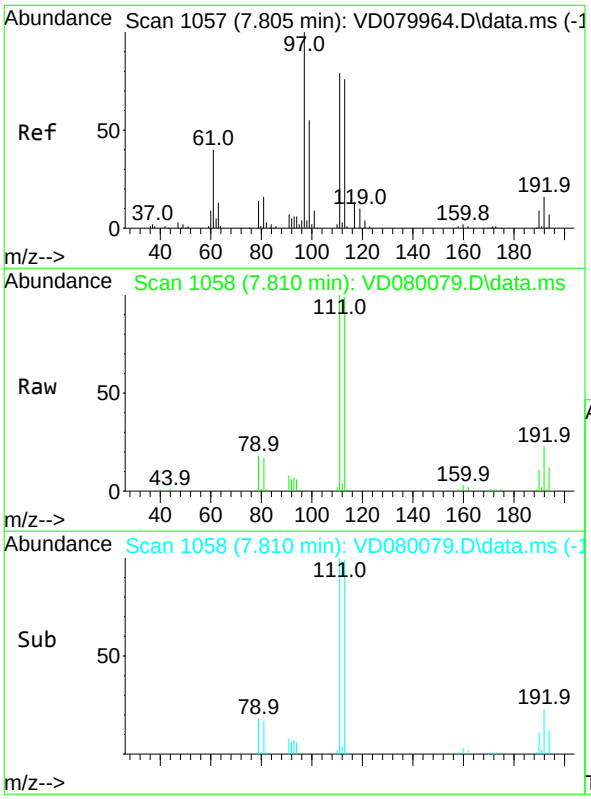

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.781 min Scan# 12
Delta R.T. 0.006 min
Lab File: VD080079.D
Acq: 18 Nov 2024 19:49

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-007

Tgt Ion:114 Resp: 352745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 16.7 | 0.0 | 38.8 |
| 88 | 15.1 | 0.0 | 30.6 |

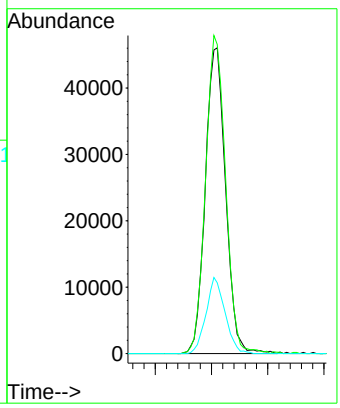


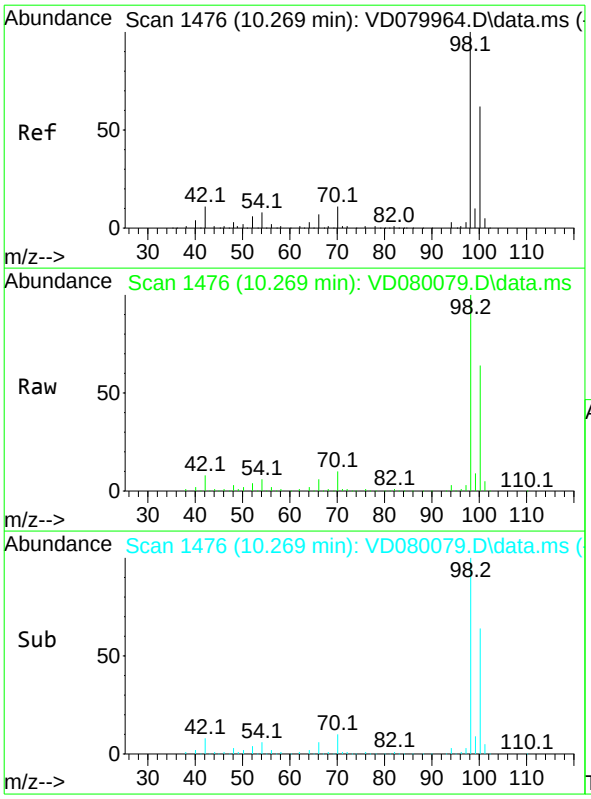




#35
Dibromofluoromethane
Concen: 49.176 ug/l
RT: 7.810 min Scan# 1058
Delta R.T. 0.005 min
Lab File: VD080079.D
Acq: 18 Nov 2024 19:49

Tgt Ion:113 Resp: 115447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.5 | 82.5 | 123.7 |
| 192 | 23.3 | 16.6 | 25.0 |



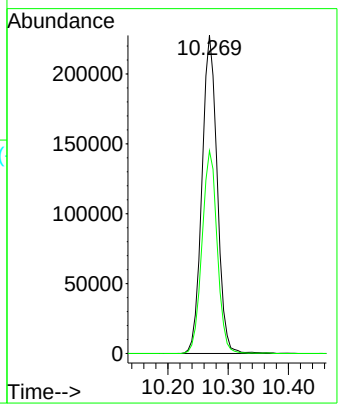


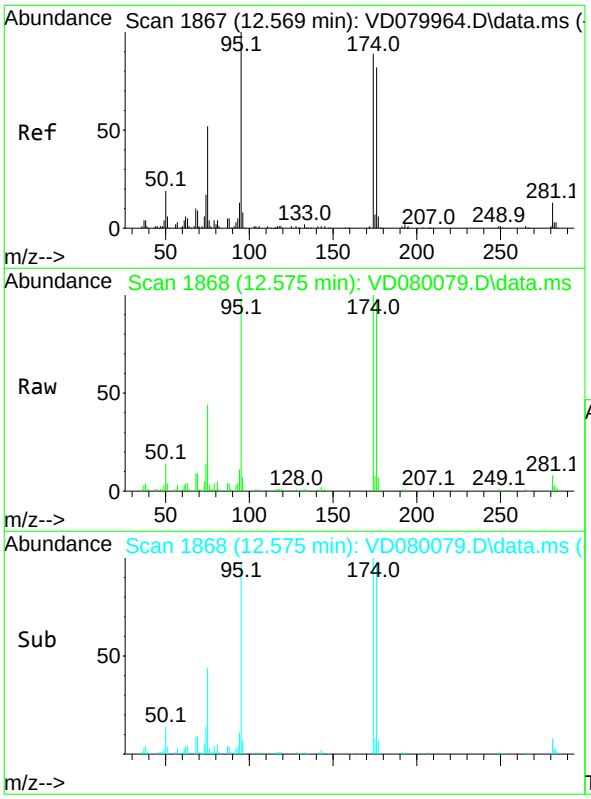

#50
Toluene-d8
Concen: 45.161 ug/l
RT: 10.269 min Scan# 14
Delta R.T. -0.000 min
Lab File: VD080079.D
Acq: 18 Nov 2024 19:49

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-007

Tgt Ion: 98 Resp: 399589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.6 | 50.2 | 75.4 |

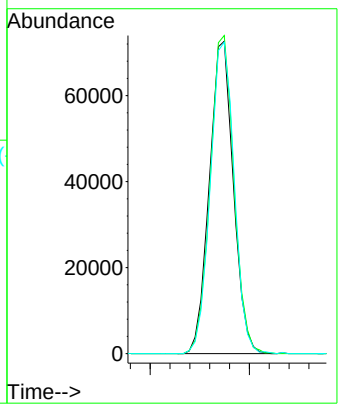


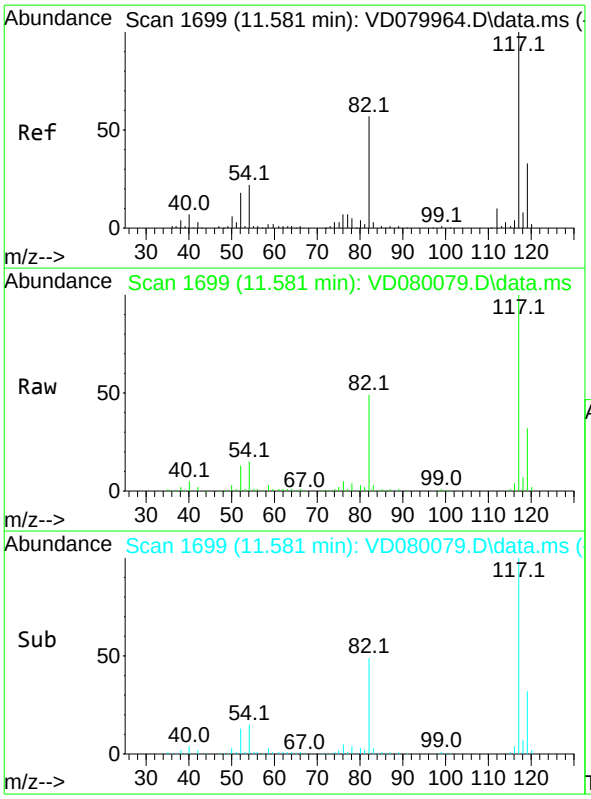

#62
4-Bromofluorobenzene
Concen: 42.057 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VD080079.D
Acq: 18 Nov 2024 19:49

Tgt Ion: 95 Resp: 122092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 100.7 | 0.0 | 173.4 |
| 176 | 99.1 | 0.0 | 166.6 |



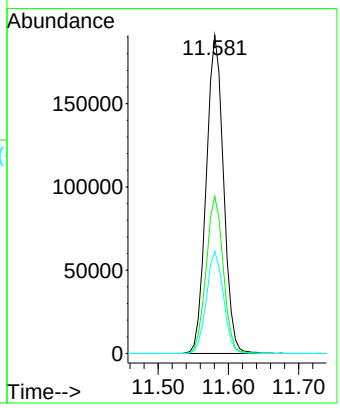
**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-007

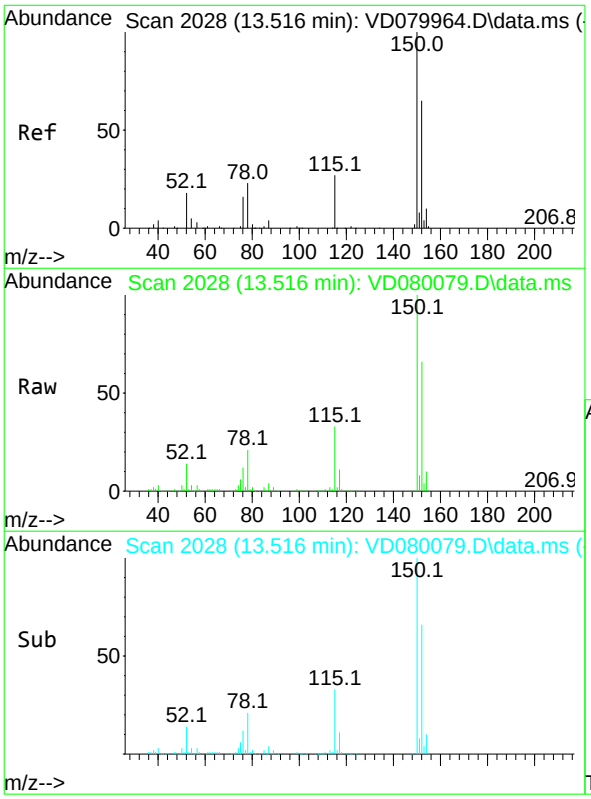



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 16
Delta R.T. -0.000 min
Lab File: VD080079.D
Acq: 18 Nov 2024 19:49

Tgt Ion:117 Resp: 326096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 49.3 | 45.8 | 68.6 |
| 119 | 32.1 | 26.2 | 39.2 |

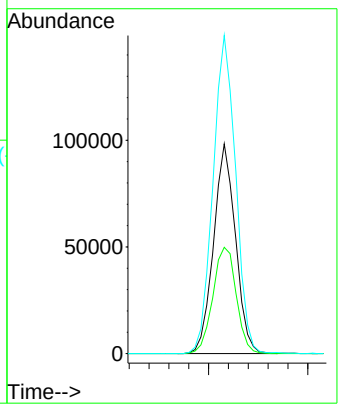



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.000 min
Lab File: VD080079.D
Acq: 18 Nov 2024 19:49

Tgt Ion:152 Resp: 151026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 54.1 | 28.9 | 86.8 |
| 150 | 156.4 | 0.0 | 354.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080079.D
Acq On : 18 Nov 2024 19:49
Operator : RP/MD
Sample : P4860-08
Misc : 6.33G/5ml/MSVOA_D/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-007

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_D\Method\82D111524S.M
Title : SW846 8260

Signal : TIC: VD080079.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.740 | 19 | 26 | 42 | rVB | 406384 | 682944 | 69.23% | 11.158% |
| 2 | 4.799 | 535 | 546 | 556 | rBV | 9596 | 29221 | 2.96% | 0.477% |
| 3 | 7.804 | 1047 | 1057 | 1063 | rBV | 156976 | 382894 | 38.82% | 6.256% |
| 4 | 7.875 | 1063 | 1069 | 1083 | rVB | 247937 | 572234 | 58.01% | 9.350% |
| 5 | 8.228 | 1120 | 1129 | 1143 | rBV | 118457 | 272604 | 27.64% | 4.454% |
| 6 | 8.775 | 1214 | 1222 | 1235 | rBV | 362449 | 750274 | 76.06% | 12.258% |
| 7 | 10.269 | 1468 | 1476 | 1487 | rBV | 558920 | 986425 | 100.00% | 16.117% |
| 8 | 10.657 | 1537 | 1542 | 1551 | rVB3 | 6825 | 12831 | 1.30% | 0.210% |
| 9 | 11.581 | 1691 | 1699 | 1712 | rBV | 520107 | 886351 | 89.85% | 14.482% |
| 10 | 12.575 | 1861 | 1868 | 1877 | rBV | 388018 | 645264 | 65.41% | 10.543% |
| 11 | 13.516 | 2020 | 2028 | 2035 | rBV | 511983 | 808726 | 81.99% | 13.214% |
| 12 | 14.045 | 2112 | 2118 | 2126 | rVB2 | 57654 | 90675 | 9.19% | 1.482% |

Sum of corrected areas: 6120443

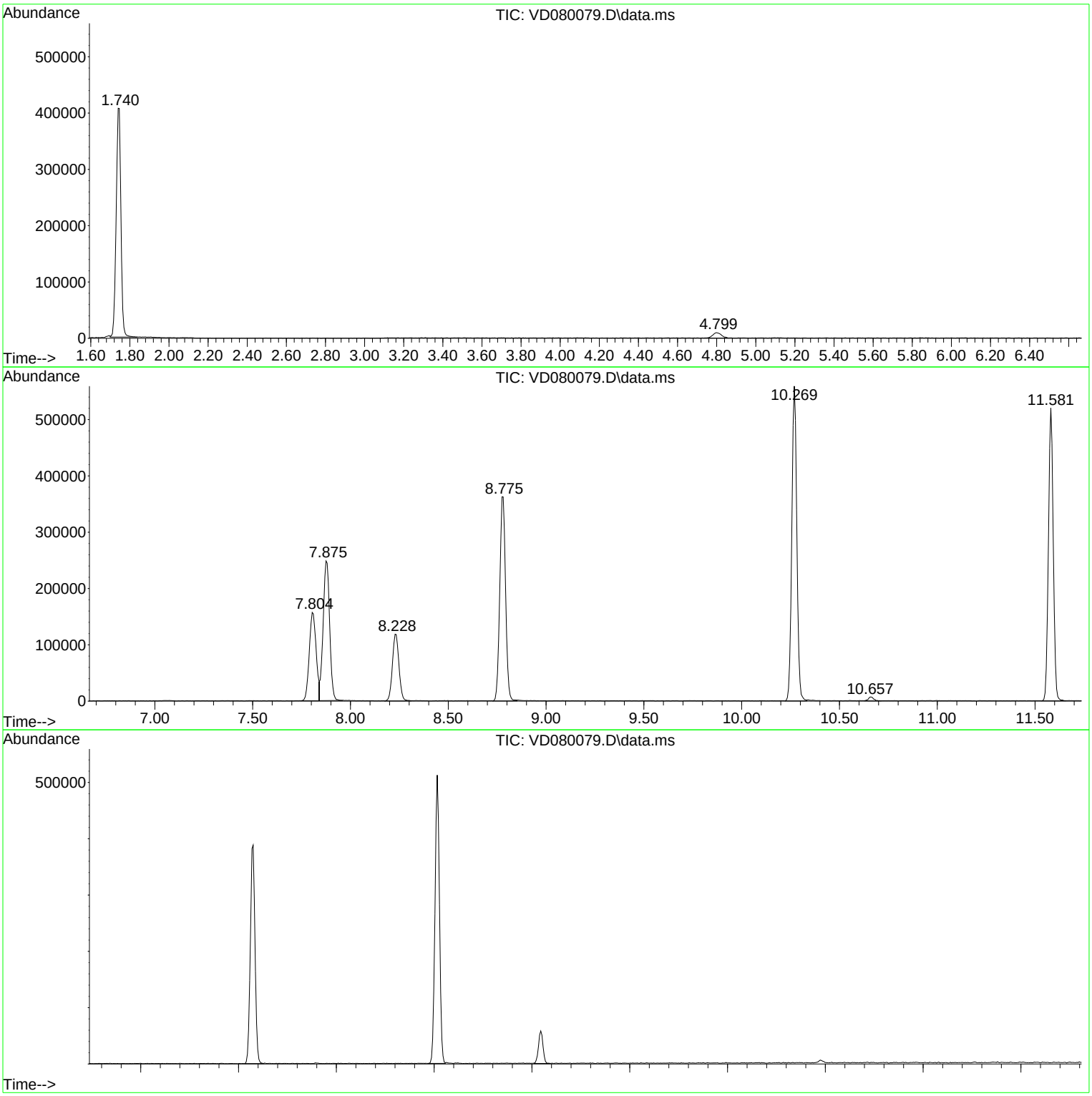
Sample Results: **VD080079.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080079.D
Acq On : 18 Nov 2024 19:49
Operator : RP/MD
Sample : P4860-08
Misc : 6.33G/5ml/MSVOA_D/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-007

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080079.D
Acq On : 18 Nov 2024 19:49
Operator : RP/MD
Sample : P4860-08
Misc : 6.33G/5ml/MSVOA_D/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-007

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.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_D\Data\VD111824\
Data File : VD080079.D
Acq On : 18 Nov 2024 19:49
Operator : RP/MD
Sample : P4860-08
Misc : 6.33G/5ml/MSVOA_D/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
PH2-BOT-007

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.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 : VY020390.D
Acq On : 21 Nov 2024 16:30
Operator : SY/MD
Sample : P4860-09
Misc : 6.28g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-006

Quant Time: Nov 22 00:26:36 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 | 7.707 | 168 | 140871 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 273565 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 262252 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 106466 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 92933 | 57.421 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 114.840% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 88559 | 50.485 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.960% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 333481 | 48.260 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 96.520% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 116929 | 52.638 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 105.280% | | | |

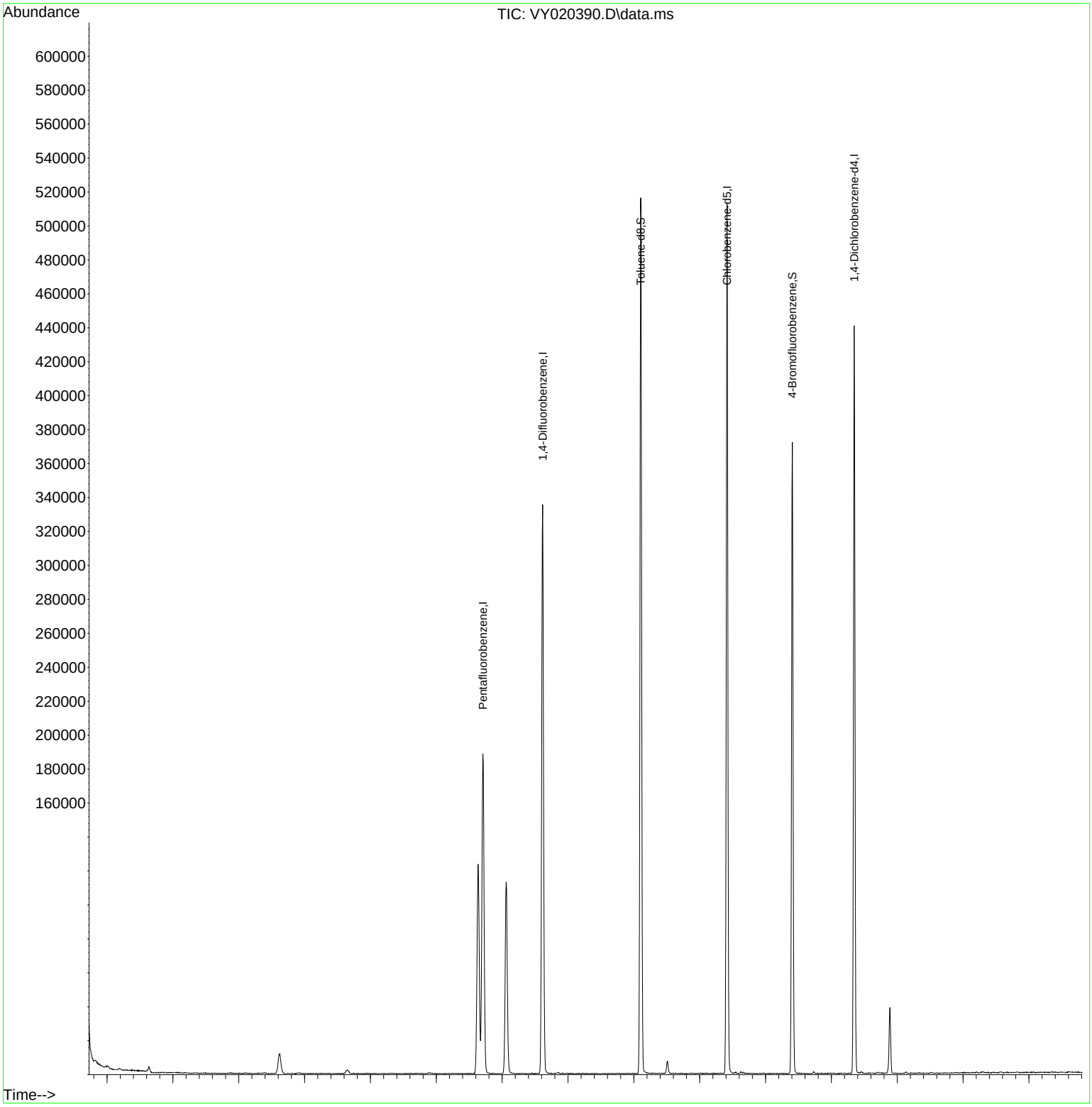
Target Compounds Qvalue

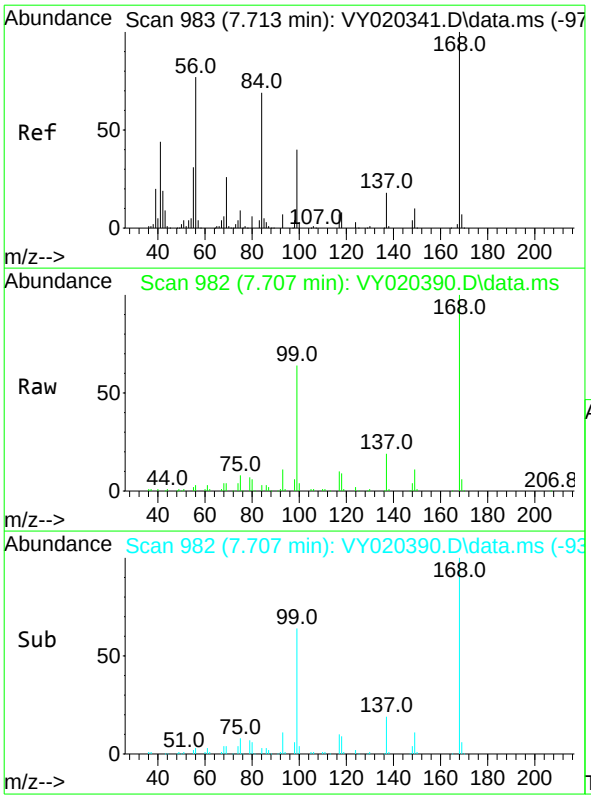
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020390.D
Acq On : 21 Nov 2024 16:30
Operator : SY/MD
Sample : P4860-09
Misc : 6.28g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-006

Quant Time: Nov 22 00:26:36 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



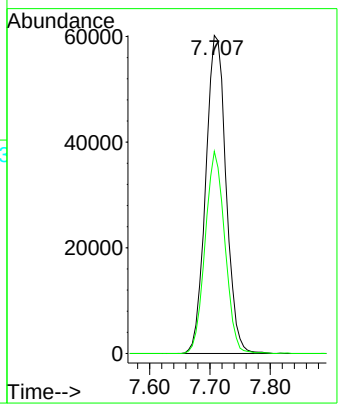


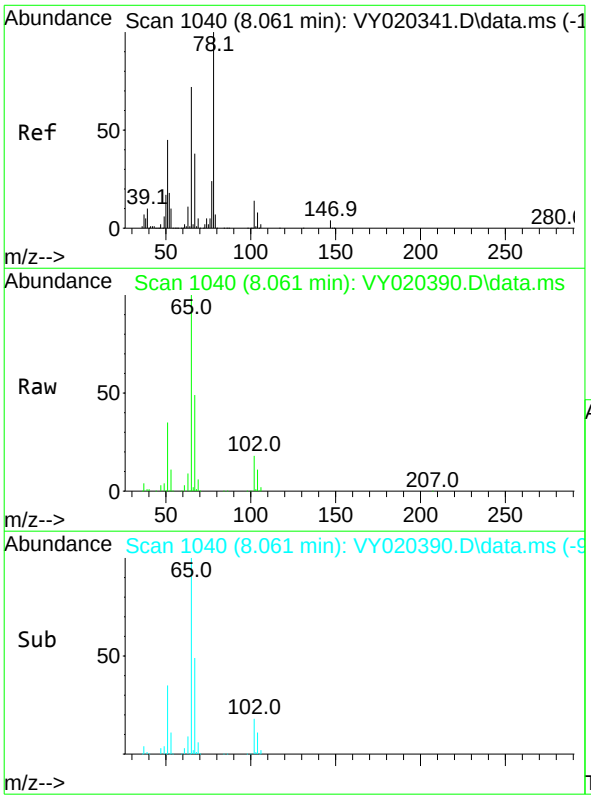

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020390.D
Acq: 21 Nov 2024 16:30

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-006

Tgt Ion:168 Resp: 140871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.5 | 46.6 | 69.8 |

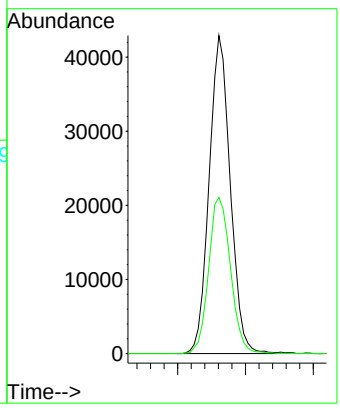


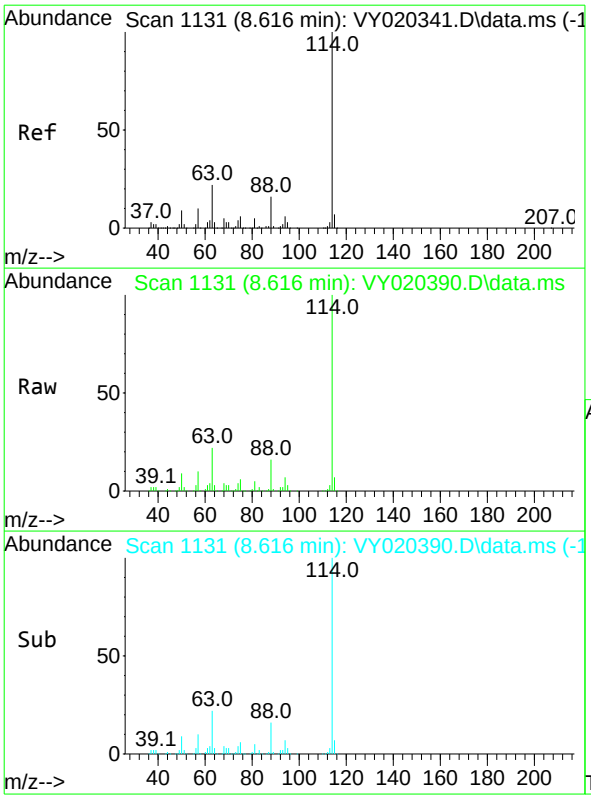




#33
1,2-Dichloroethane-d4
Concen: 57.421 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY020390.D
Acq: 21 Nov 2024 16:30

Tgt Ion: 65 Resp: 92933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.9 | 0.0 | 105.8 |



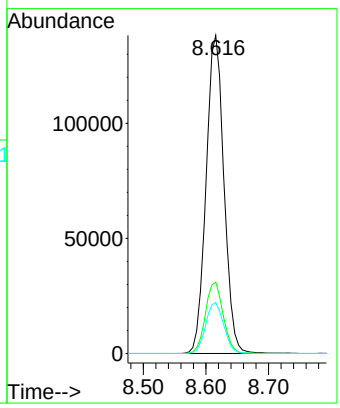


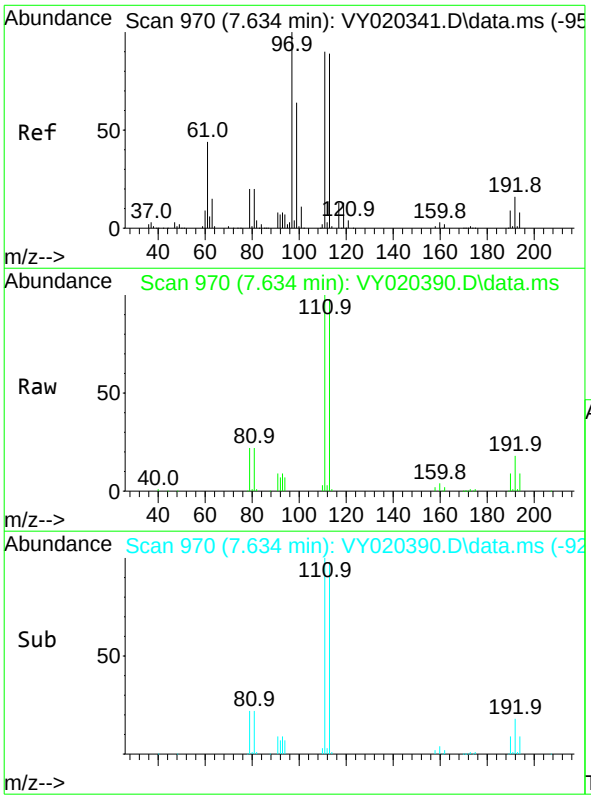

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY020390.D
Acq: 21 Nov 2024 16:30

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-006

Tgt Ion:114 Resp: 273565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.5 | 0.0 | 44.8 |
| 88 | 16.0 | 0.0 | 32.0 |

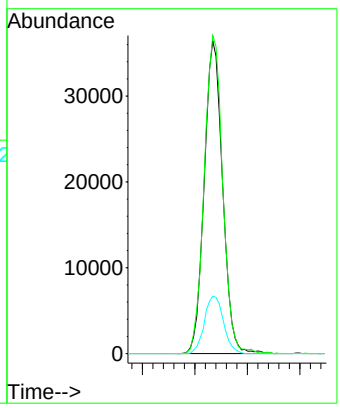


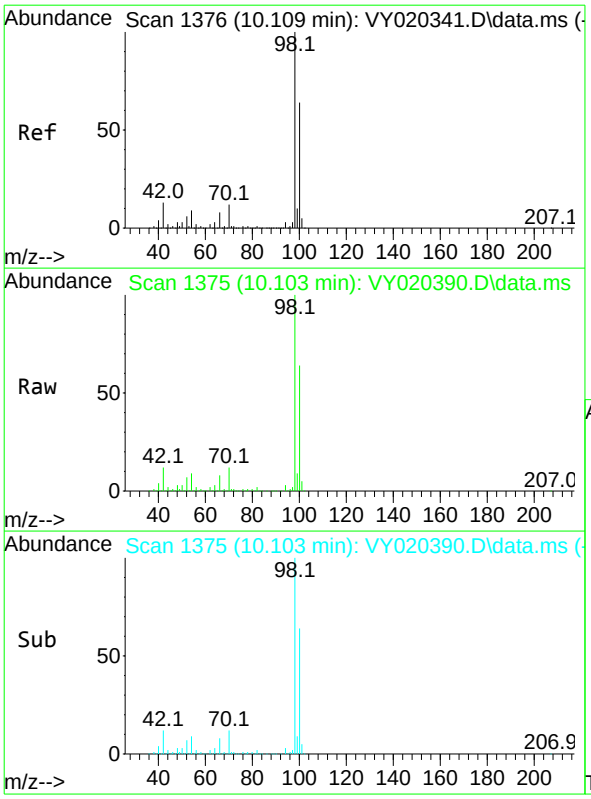




#35
Dibromofluoromethane
Concen: 50.485 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY020390.D
Acq: 21 Nov 2024 16:30

Tgt Ion:113 Resp: 88559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.6 | 81.4 | 122.0 |
| 192 | 19.1 | 15.1 | 22.7 |



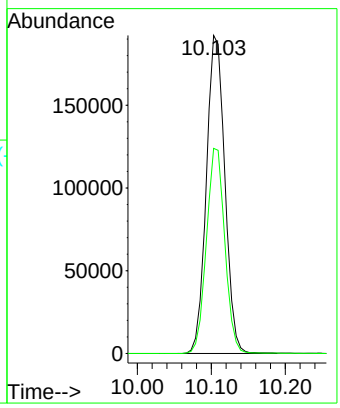


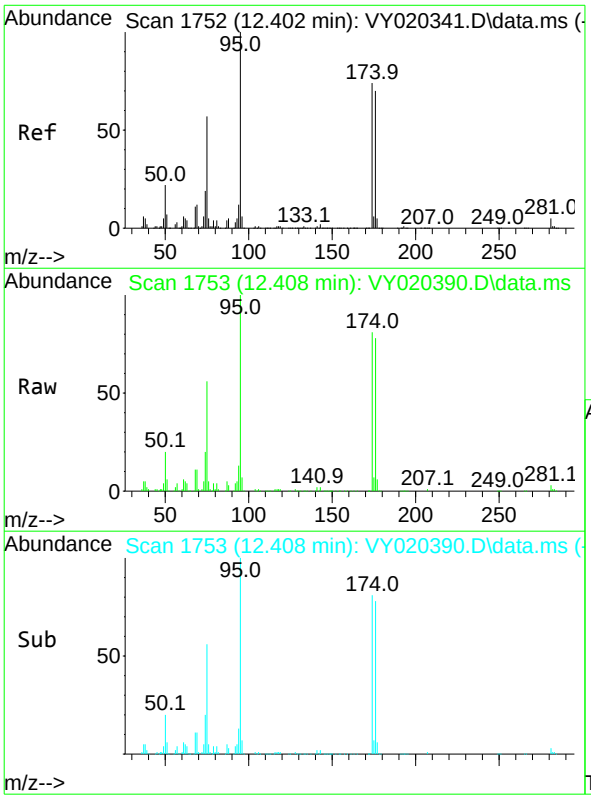

#50
Toluene-d8
Concen: 48.260 ug/l
RT: 10.103 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020390.D
Acq: 21 Nov 2024 16:30

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-006

Tgt Ion: 98 Resp: 333481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.2 | 51.3 | 76.9 |

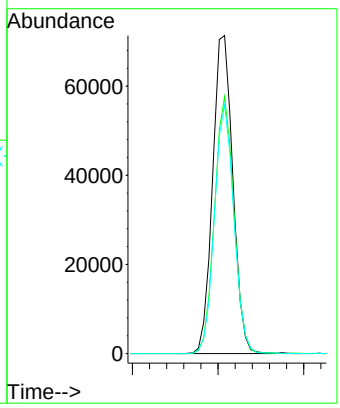


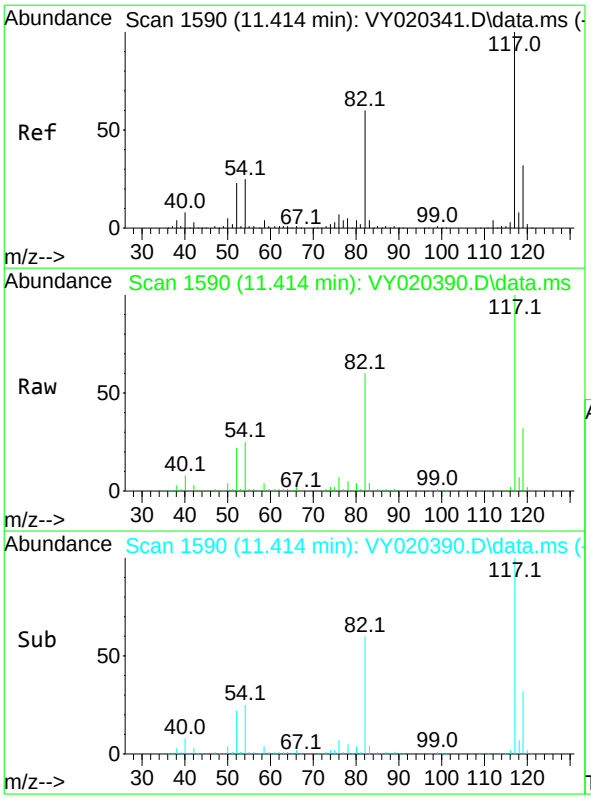




#62
4-Bromofluorobenzene
Concen: 52.638 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020390.D
Acq: 21 Nov 2024 16:30

Tgt Ion: 95 Resp: 116929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 77.8 | 0.0 | 156.8 |
| 176 | 75.2 | 0.0 | 152.0 |



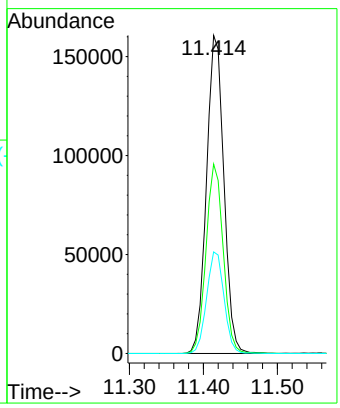


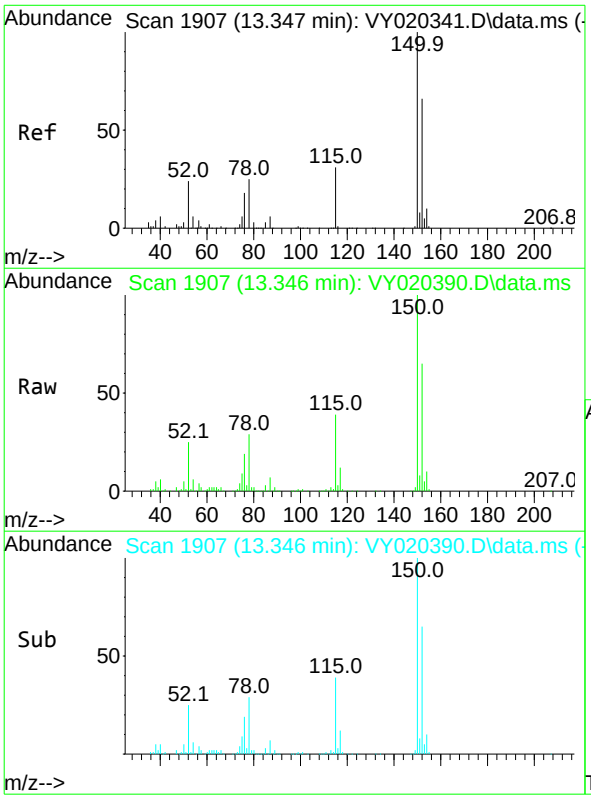

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY020390.D
Acq: 21 Nov 2024 16:30

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-006

Tgt Ion:117 Resp: 262252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.6 | 48.2 | 72.4 |
| 119 | 31.9 | 25.8 | 38.8 |

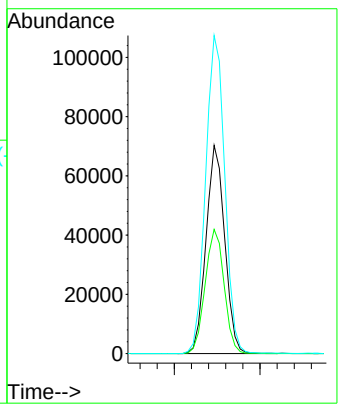



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY020390.D
Acq: 21 Nov 2024 16:30

Tgt Ion:152 Resp: 106466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.5 | 30.0 | 90.0 |
| 150 | 156.6 | 0.0 | 348.2 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020390.D
Acq On : 21 Nov 2024 16:30
Operator : SY/MD
Sample : P4860-09
Misc : 6.28g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-006

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: VY020390.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.622 | 465 | 476 | 487 | rBV2 | 11568 | 34997 | 3.89% | 0.733% |
| 2 | 7.634 | 961 | 970 | 976 | rBV | 123534 | 298051 | 33.13% | 6.246% |
| 3 | 7.707 | 976 | 982 | 999 | rVB | 188575 | 437911 | 48.68% | 9.177% |
| 4 | 8.061 | 1030 | 1040 | 1055 | rBV | 112877 | 251896 | 28.00% | 5.279% |
| 5 | 8.616 | 1121 | 1131 | 1145 | rBV | 335278 | 662855 | 73.69% | 13.891% |
| 6 | 10.103 | 1368 | 1375 | 1385 | rBV | 516009 | 899509 | 100.00% | 18.850% |
| 7 | 10.512 | 1434 | 1442 | 1451 | rVB3 | 7289 | 13785 | 1.53% | 0.289% |
| 8 | 11.414 | 1583 | 1590 | 1604 | rVB | 513018 | 827880 | 92.04% | 17.349% |
| 9 | 12.408 | 1746 | 1753 | 1765 | rVB | 371933 | 605181 | 67.28% | 12.682% |
| 10 | 13.346 | 1899 | 1907 | 1917 | rBV | 440698 | 675925 | 75.14% | 14.165% |
| 11 | 13.889 | 1988 | 1996 | 2003 | rVB | 38797 | 63866 | 7.10% | 1.338% |

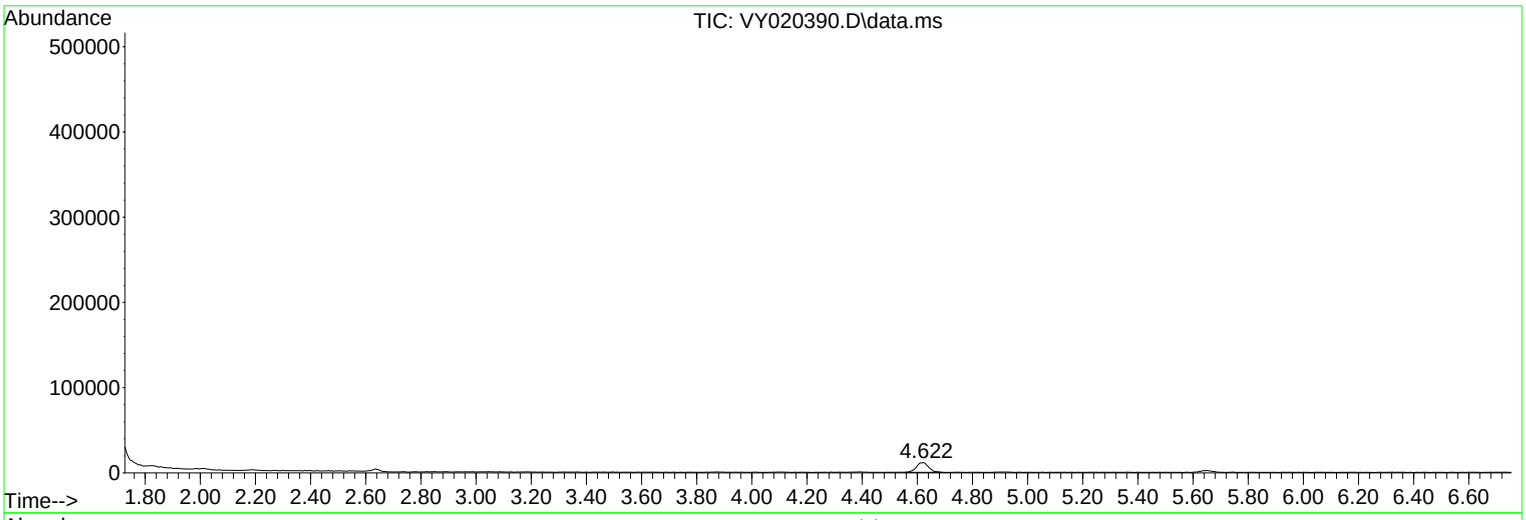
Sum of corrected areas: 4771856

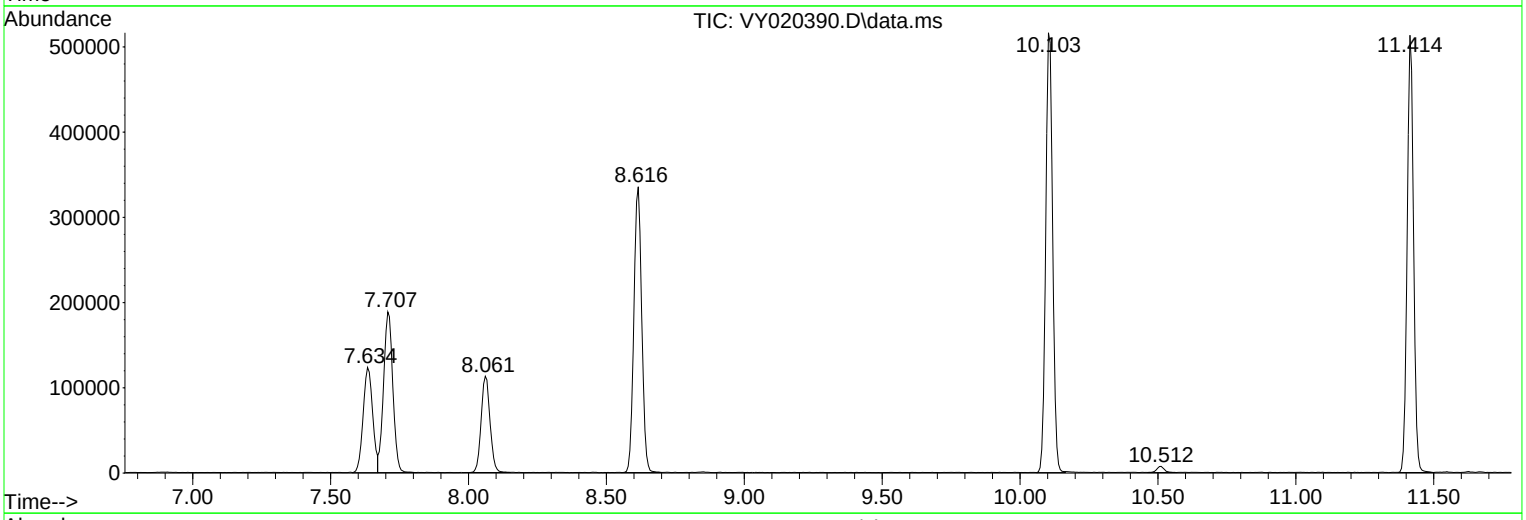
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020390.D
Acq On : 21 Nov 2024 16:30
Operator : SY/MD
Sample : P4860-09
Misc : 6.28g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

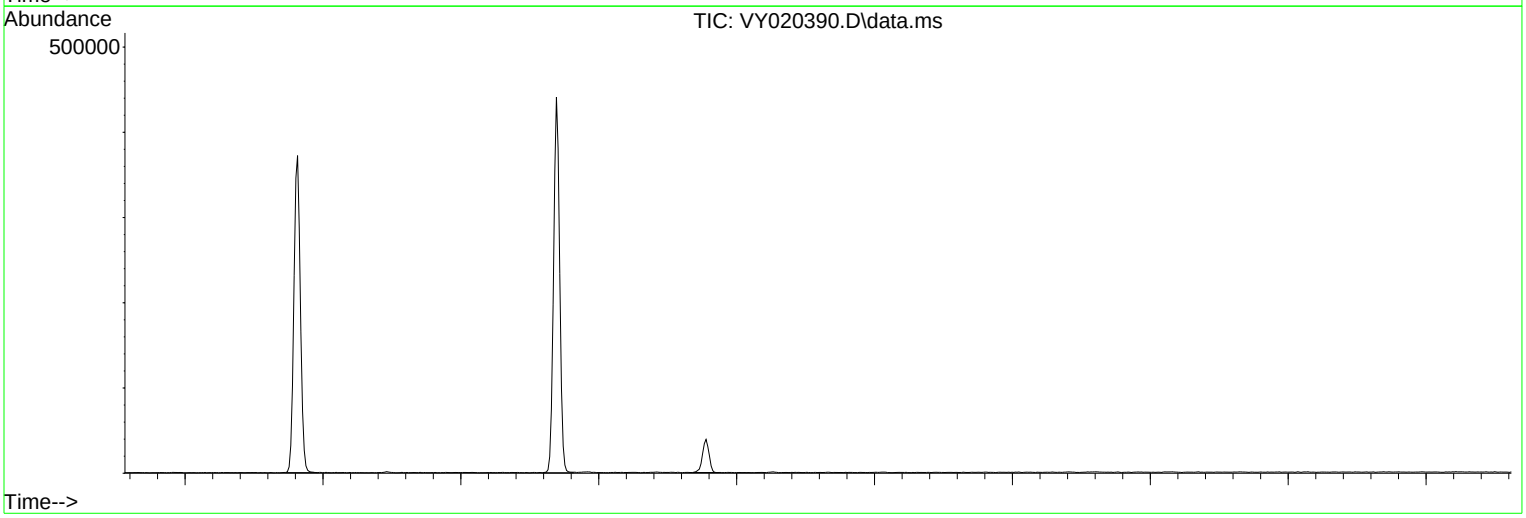
**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-006

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 : VY020390.D
Acq On : 21 Nov 2024 16:30
Operator : SY/MD
Sample : P4860-09
Misc : 6.28g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-006

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\VY112124\
Data File : VY020390.D
Acq On : 21 Nov 2024 16:30
Operator : SY/MD
Sample : P4860-09
Misc : 6.28g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-006

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020389.D
Acq On : 21 Nov 2024 16:06
Operator : SY/MD
Sample : P4860-10
Misc : 5.93g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-005

Quant Time: Nov 22 00:26:15 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

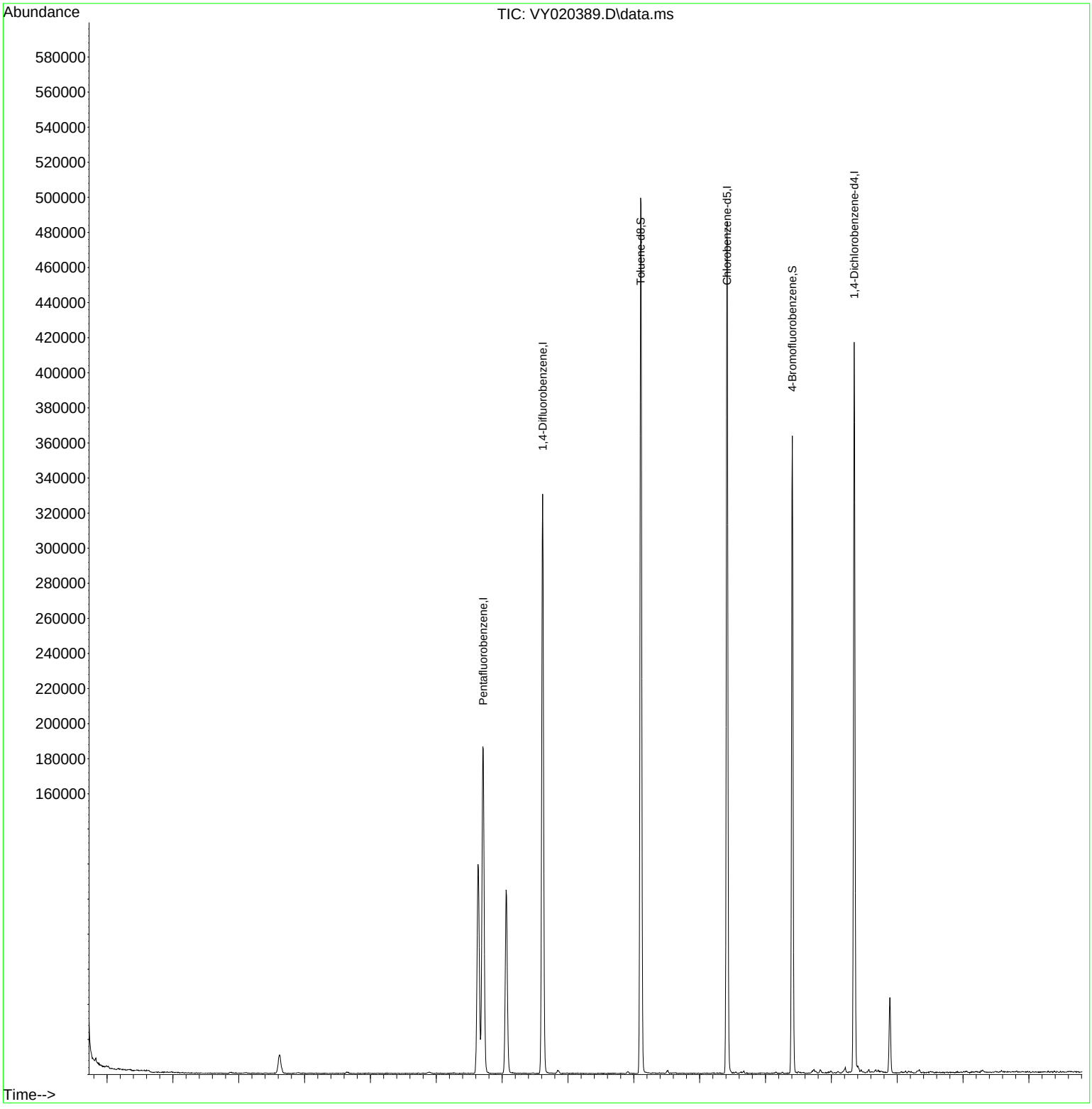
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 140636 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 270374 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 252016 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 101642 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 85018 | 52.618 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 105.240% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 84394 | 48.678 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 97.360% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 327171 | 47.906 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 95.820% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 110710 | 50.427 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 100.860% | | | |
| Target Compounds | | | | | | Qvalue |

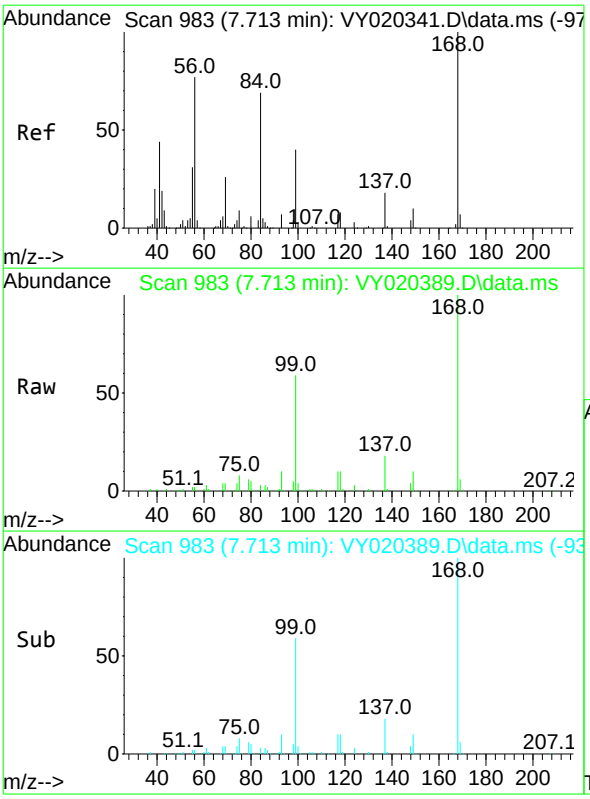
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020389.D
Acq On : 21 Nov 2024 16:06
Operator : SY/MD
Sample : P4860-10
Misc : 5.93g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-005

Quant Time: Nov 22 00:26:15 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



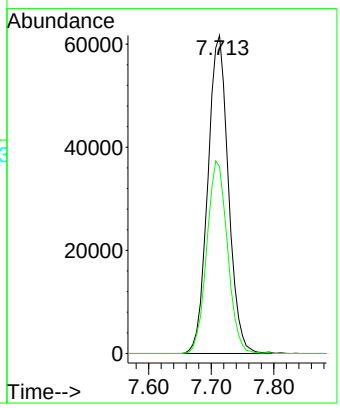


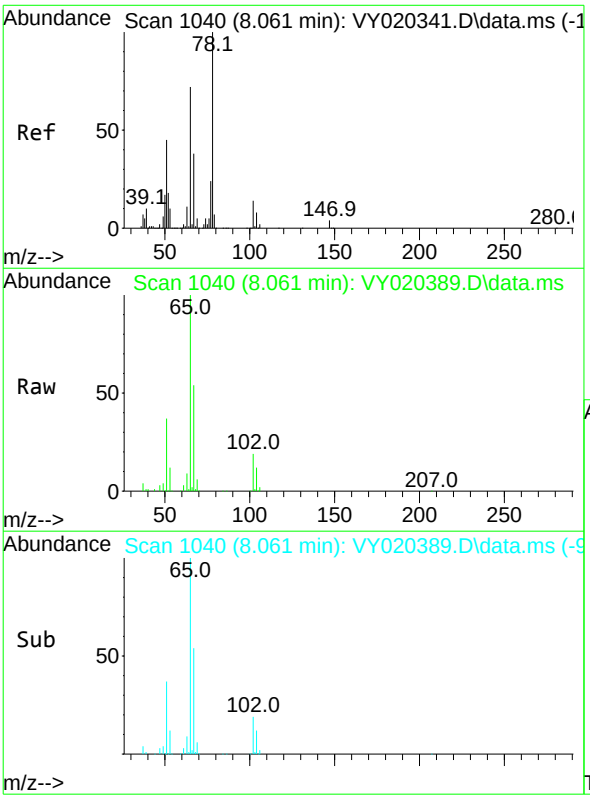

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020389.D
Acq: 21 Nov 2024 16:06

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-005

Tgt Ion:168 Resp: 140636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.7 | 46.6 | 69.8 |

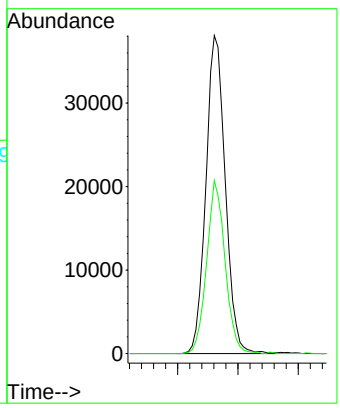


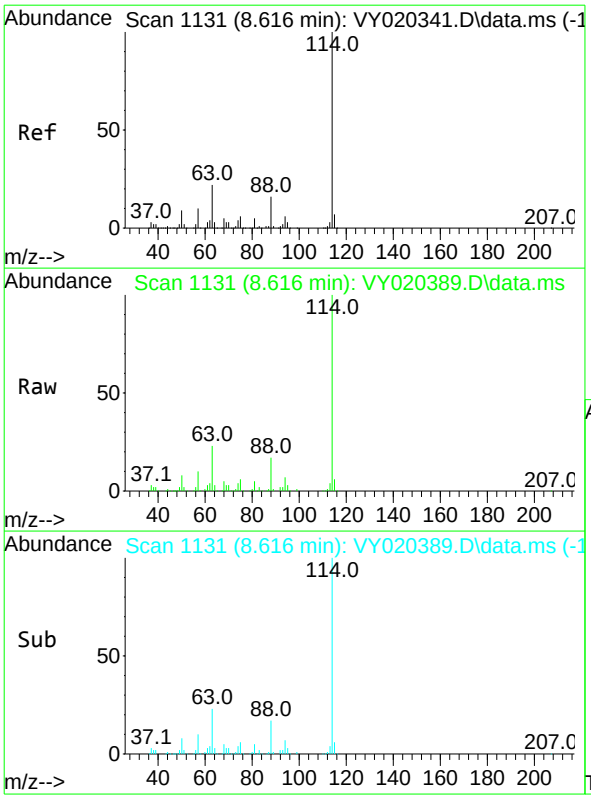

#33
1,2-Dichloroethane-d4
Concen: 52.618 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY020389.D
Acq: 21 Nov 2024 16:06

Tgt Ion: 65 Resp: 85018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.6 | 0.0 | 105.8 |



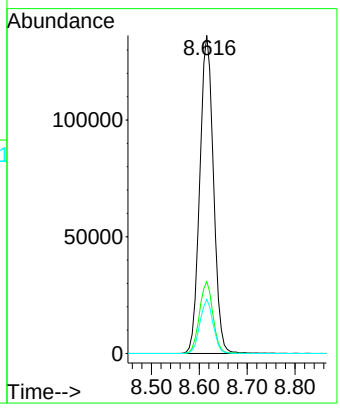
**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-005

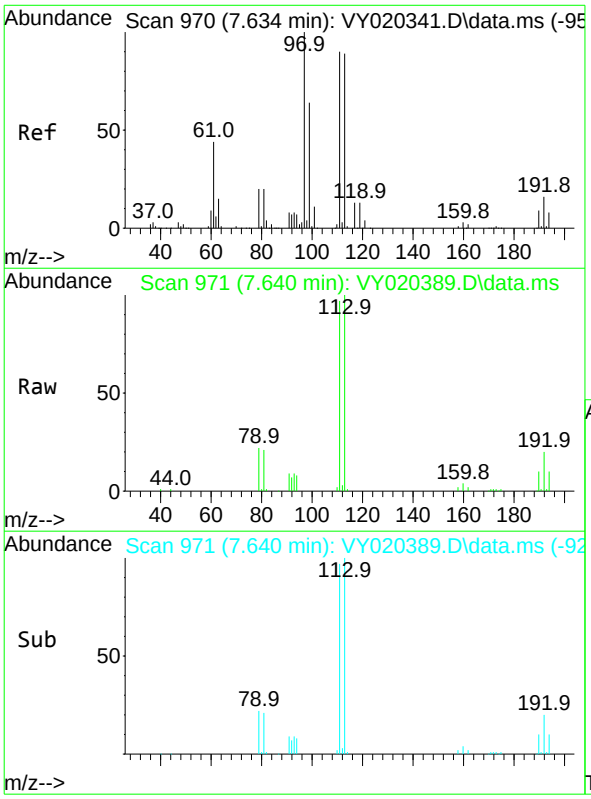



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY020389.D
Acq: 21 Nov 2024 16:06

Tgt Ion:114 Resp: 270374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.6 | 0.0 | 44.8 |
| 88 | 17.0 | 0.0 | 32.0 |

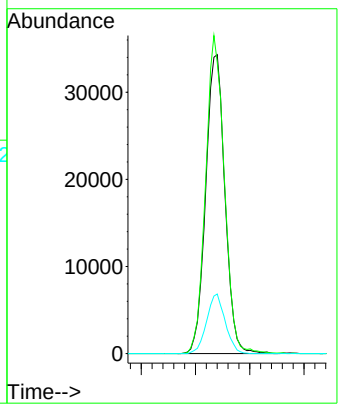


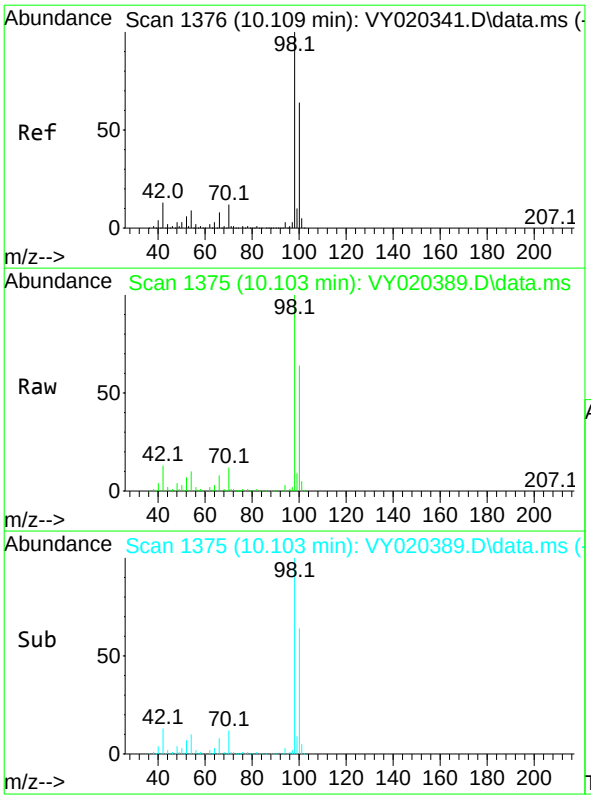




#35
Dibromofluoromethane
Concen: 48.678 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020389.D
Acq: 21 Nov 2024 16:06

Tgt Ion:113 Resp: 84394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.0 | 81.4 | 122.0 |
| 192 | 19.3 | 15.1 | 22.7 |



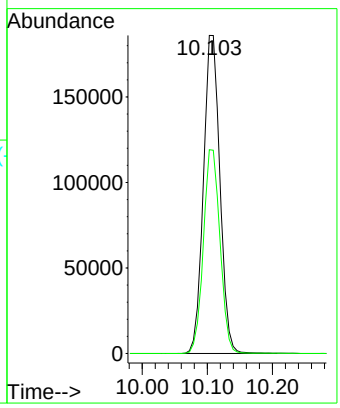


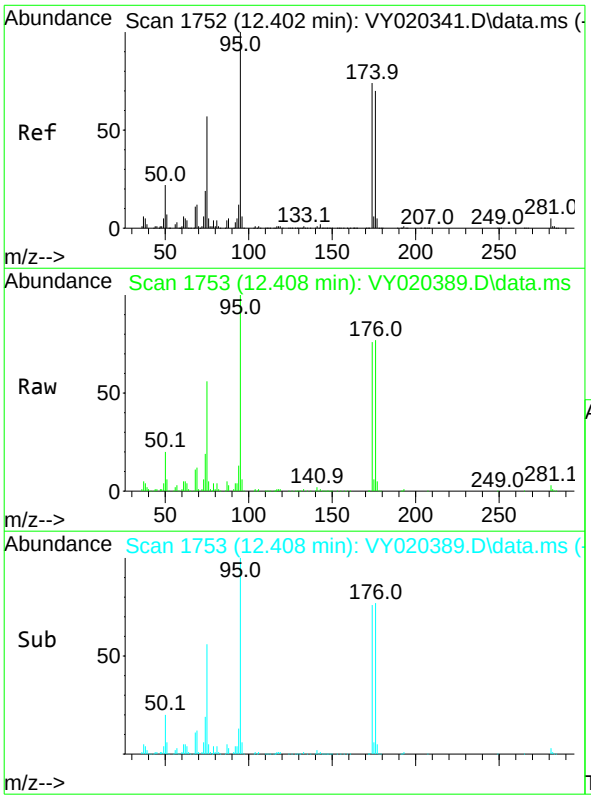

#50
Toluene-d8
Concen: 47.906 ug/l
RT: 10.103 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020389.D
Acq: 21 Nov 2024 16:06

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-005

Tgt Ion: 98 Resp: 327171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.5 | 51.3 | 76.9 |

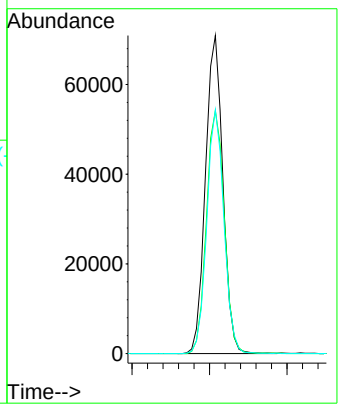


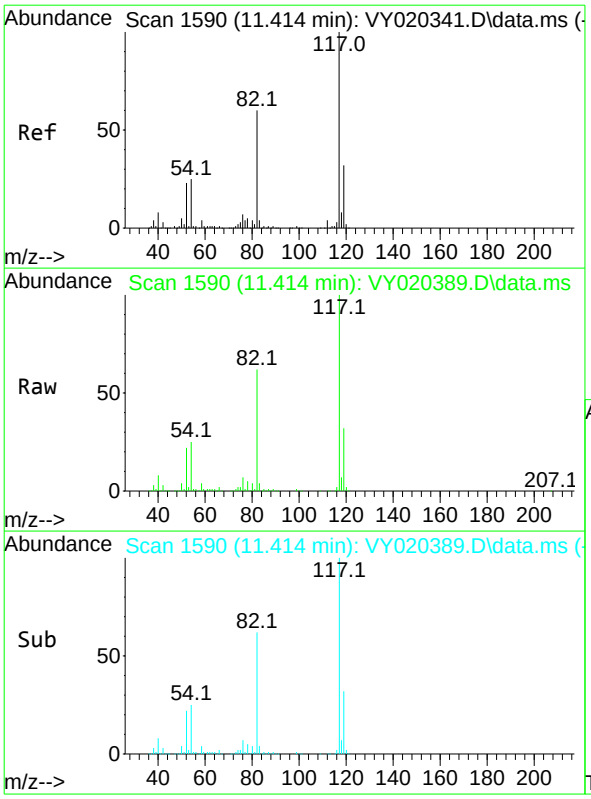




#62
4-Bromofluorobenzene
Concen: 50.427 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020389.D
Acq: 21 Nov 2024 16:06

Tgt Ion: 95 Resp: 110710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 78.3 | 0.0 | 156.8 |
| 176 | 75.3 | 0.0 | 152.0 |



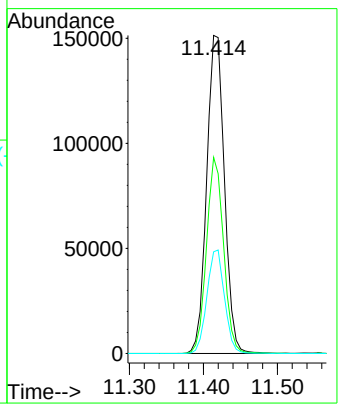


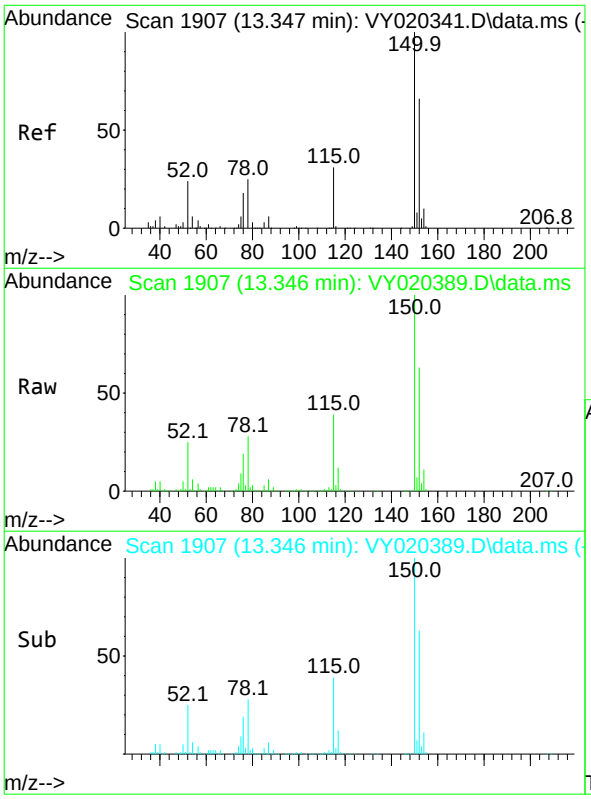

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY020389.D
Acq: 21 Nov 2024 16:06

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-005

Tgt Ion:117 Resp: 252016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 61.7 | 48.2 | 72.4 |
| 119 | 32.0 | 25.8 | 38.8 |

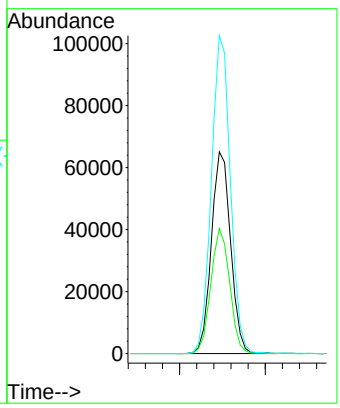



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY020389.D
Acq: 21 Nov 2024 16:06

Tgt Ion:152 Resp: 101642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.6 | 30.0 | 90.0 |
| 150 | 155.2 | 0.0 | 348.2 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020389.D
Acq On : 21 Nov 2024 16:06
Operator : SY/MD
Sample : P4860-10
Misc : 5.93g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-005

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: VY020389.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.622 | 466 | 476 | 488 | rBV3 | 10487 | 32035 | 3.63% | 0.695% |
| 2 | 7.634 | 958 | 970 | 976 | rBV | 119173 | 287111 | 32.55% | 6.230% |
| 3 | 7.707 | 976 | 982 | 995 | rVB | 185860 | 434380 | 49.24% | 9.425% |
| 4 | 8.061 | 1030 | 1040 | 1053 | rBV | 104608 | 229352 | 26.00% | 4.977% |
| 5 | 8.616 | 1122 | 1131 | 1142 | rBV | 330284 | 652998 | 74.03% | 14.169% |
| 6 | 10.103 | 1368 | 1375 | 1386 | rBV | 499068 | 882098 | 100.00% | 19.140% |
| 7 | 11.414 | 1583 | 1590 | 1603 | rBV | 485330 | 799502 | 90.64% | 17.348% |
| 8 | 12.408 | 1746 | 1753 | 1762 | rBV | 363271 | 578759 | 65.61% | 12.558% |
| 9 | 13.346 | 1897 | 1907 | 1914 | rBV | 416173 | 643431 | 72.94% | 13.961% |
| 10 | 13.889 | 1988 | 1996 | 2004 | rVB | 43008 | 68956 | 7.82% | 1.496% |

Sum of corrected areas: 4608622

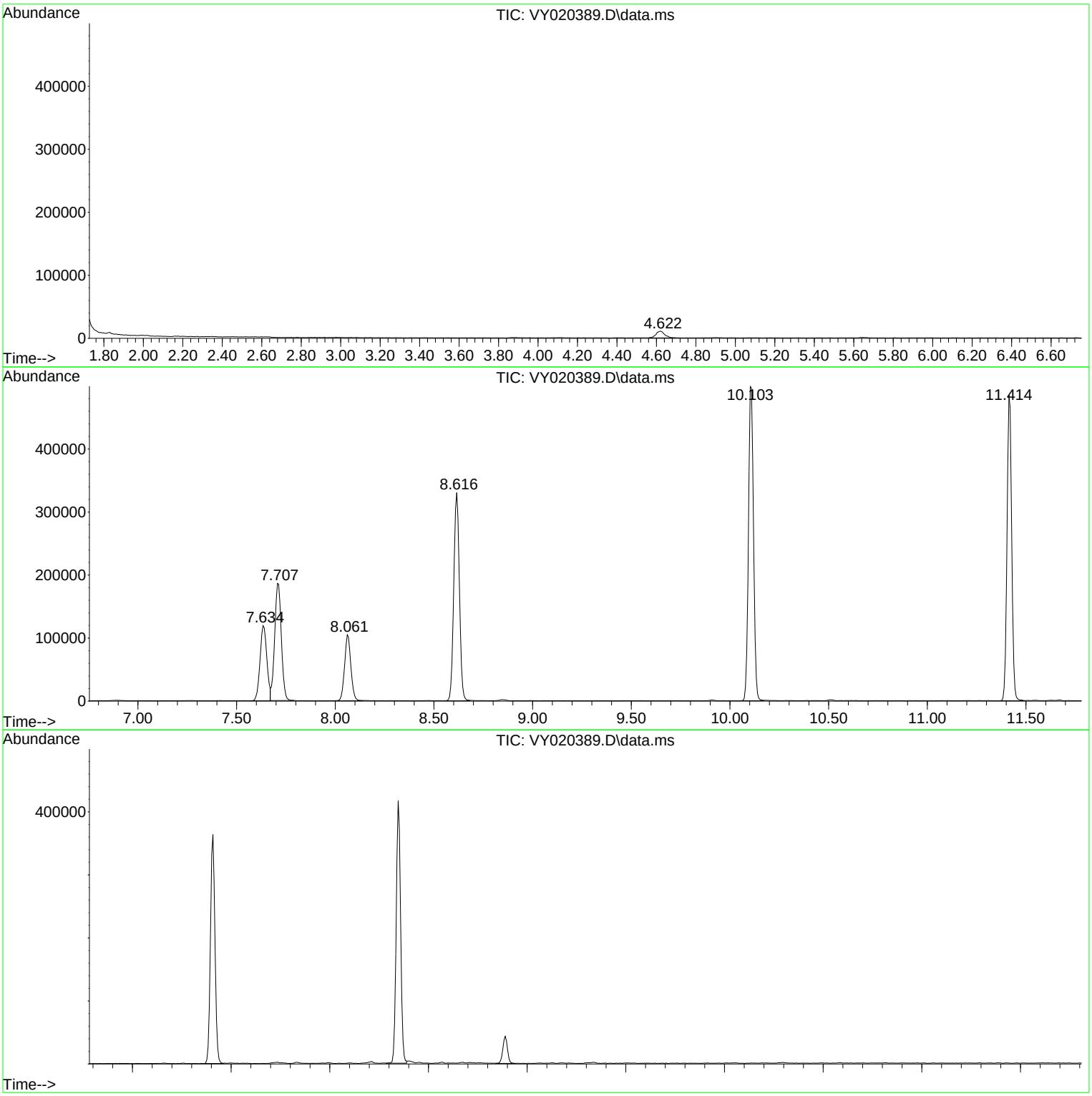
Sample Results: **VY020389.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020389.D
Acq On : 21 Nov 2024 16:06
Operator : SY/MD
Sample : P4860-10
Misc : 5.93g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-005

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 : VY020389.D
Acq On : 21 Nov 2024 16:06
Operator : SY/MD
Sample : P4860-10
Misc : 5.93g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-005

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\VY112124\
Data File : VY020389.D
Acq On : 21 Nov 2024 16:06
Operator : SY/MD
Sample : P4860-10
Misc : 5.93g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
PH2-BOT-005

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_D\Data\VD111824\
Data File : VD080059.D
Acq On : 18 Nov 2024 10:27
Operator : RP/MD
Sample : VD1118SBL01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBL01

Quant Time: Nov 19 04:43:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 175706 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 294729 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 273326 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 122131 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 89573 | 49.513 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 99.020% | | |
| 35) Dibromofluoromethane | 7.804 | 113 | 95998 | 48.941 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 97.880% | | |
| 50) Toluene-d8 | 10.269 | 98 | 328392 | 44.420 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 88.840% | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 99895 | 41.185 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 82.360% | | |

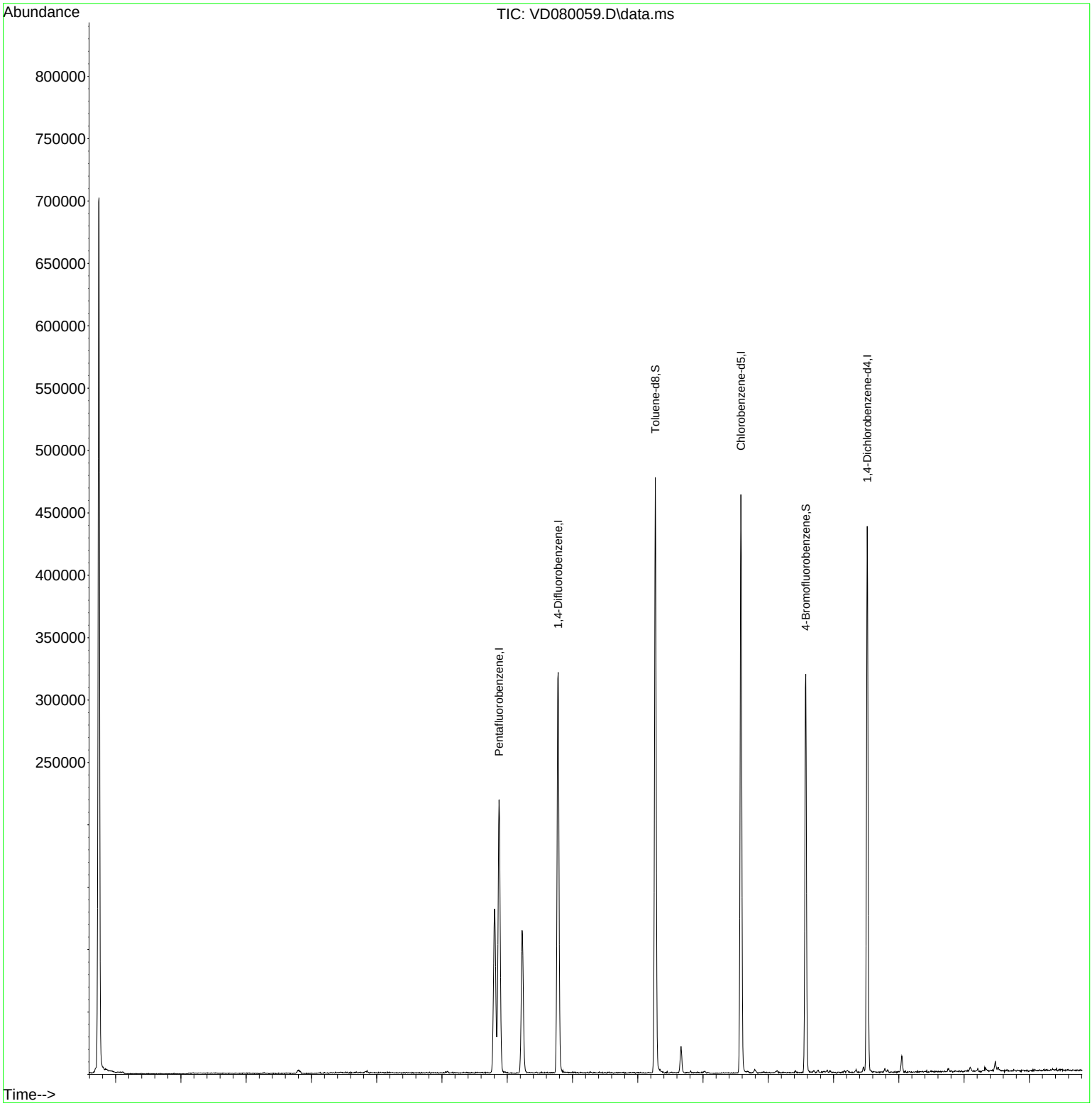
Target Compounds Qvalue

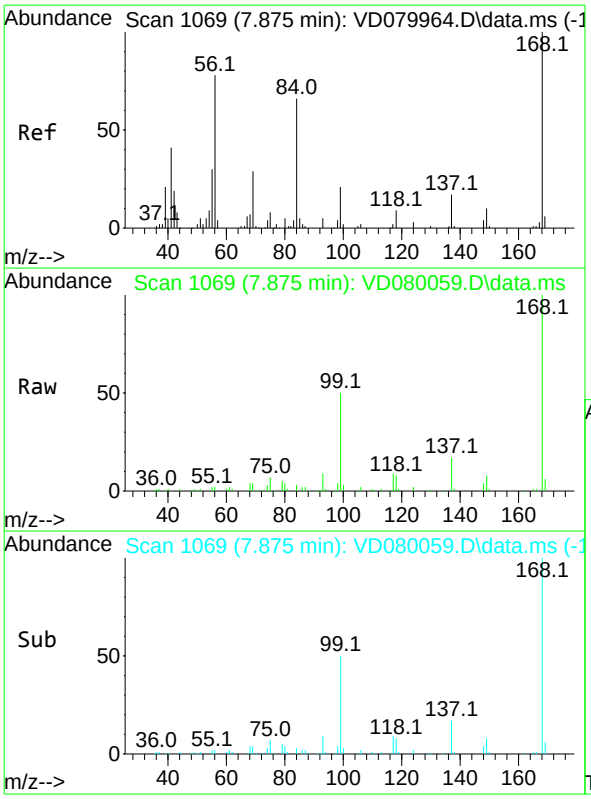
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080059.D
Acq On : 18 Nov 2024 10:27
Operator : RP/MD
Sample : VD1118SBL01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBL01

Quant Time: Nov 19 04:43:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration



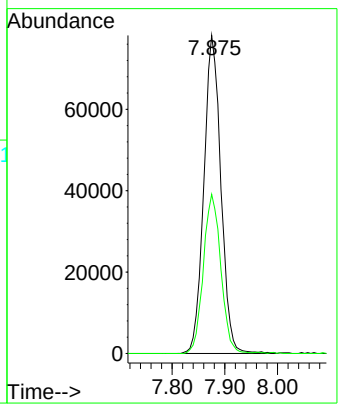


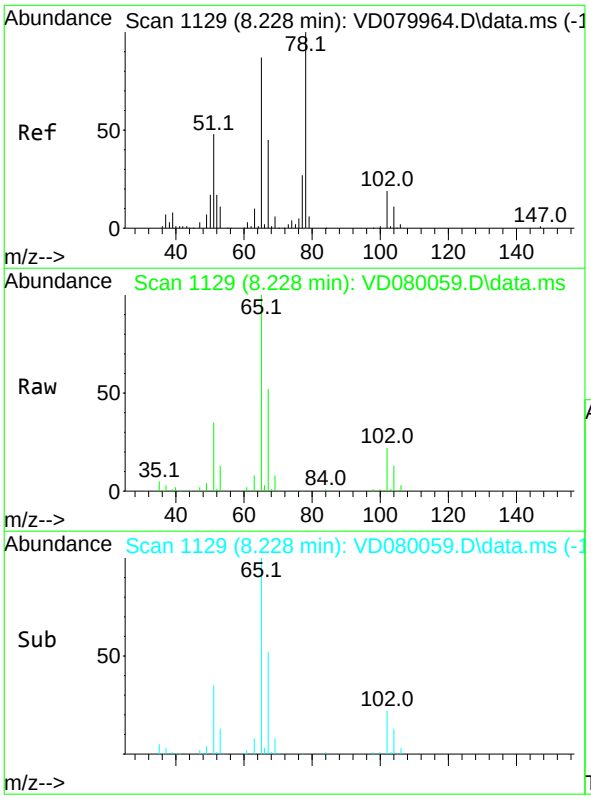

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 10
Delta R.T. 0.000 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBL01

Tgt Ion:168 Resp: 175706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 50.0 | 46.0 | 69.0 |

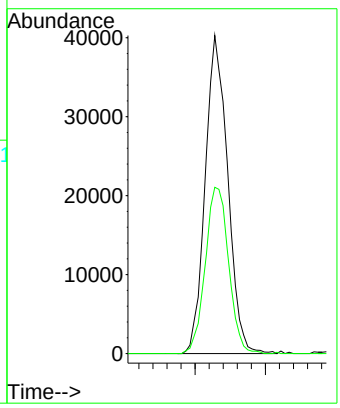


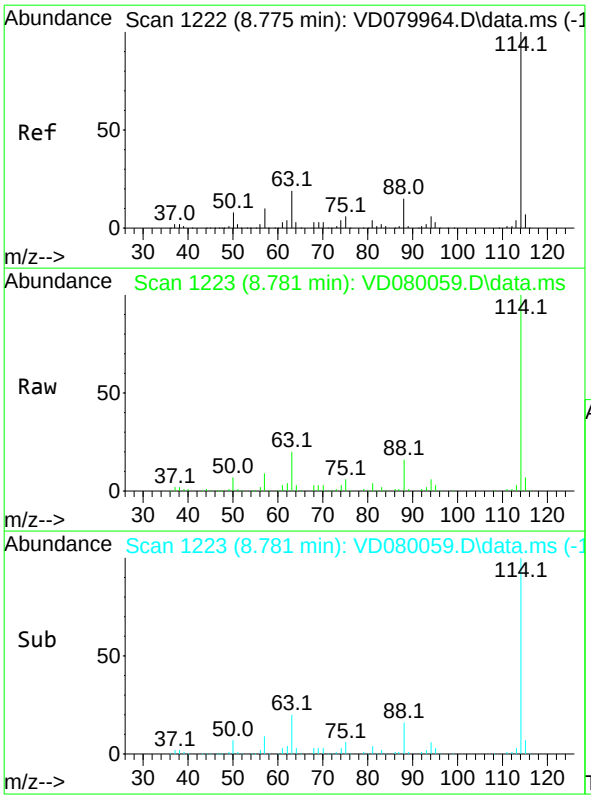




#33
1,2-Dichloroethane-d4
Concen: 49.513 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

Tgt Ion: 65 Resp: 89573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.3 | 0.0 | 109.2 |



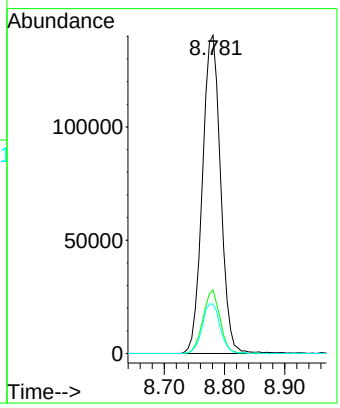


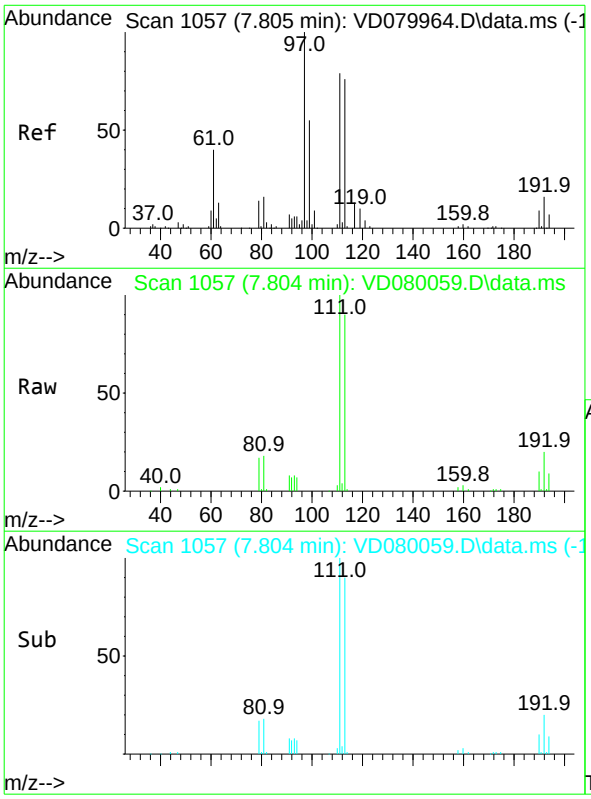

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.781 min Scan# 12
Delta R.T. 0.006 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBL01

Tgt Ion:114 Resp: 294729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.0 | 0.0 | 38.8 |
| 88 | 15.5 | 0.0 | 30.6 |

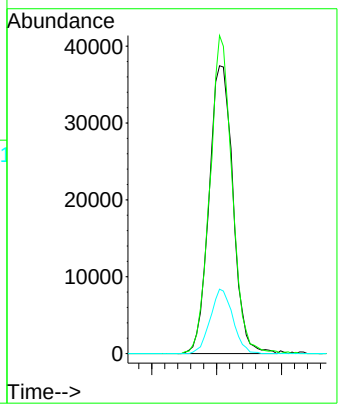


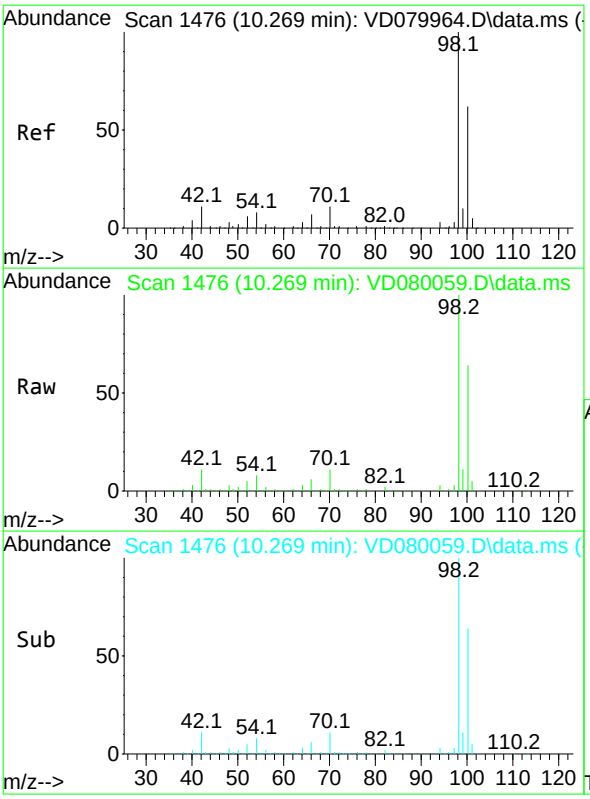

#35
Dibromofluoromethane
Concen: 48.941 ug/l
RT: 7.804 min Scan# 1057
Delta R.T. -0.001 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

Tgt Ion:113 Resp: 95998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.6 | 82.5 | 123.7 |
| 192 | 21.1 | 16.6 | 25.0 |



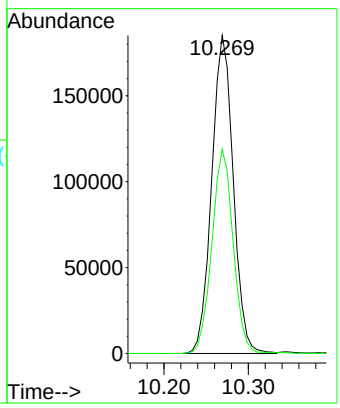
**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBL01

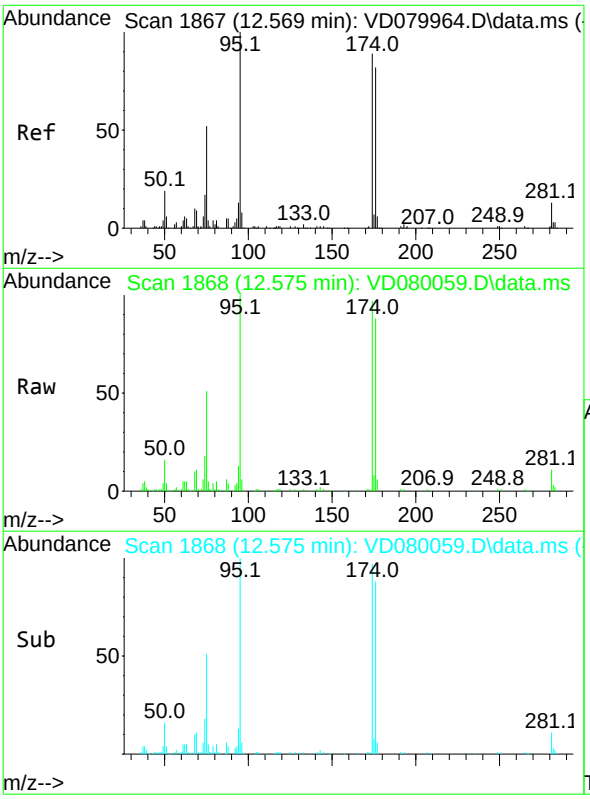



#50
Toluene-d8
Concen: 44.420 ug/l
RT: 10.269 min Scan# 14
Delta R.T. 0.000 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

Tgt Ion: 98 Resp: 328392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.5 | 50.2 | 75.4 |

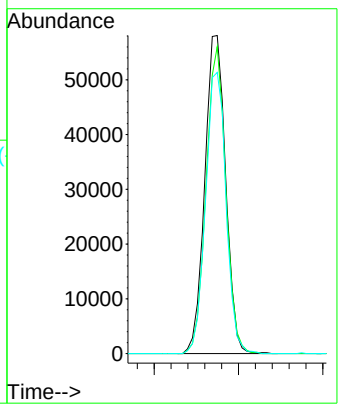


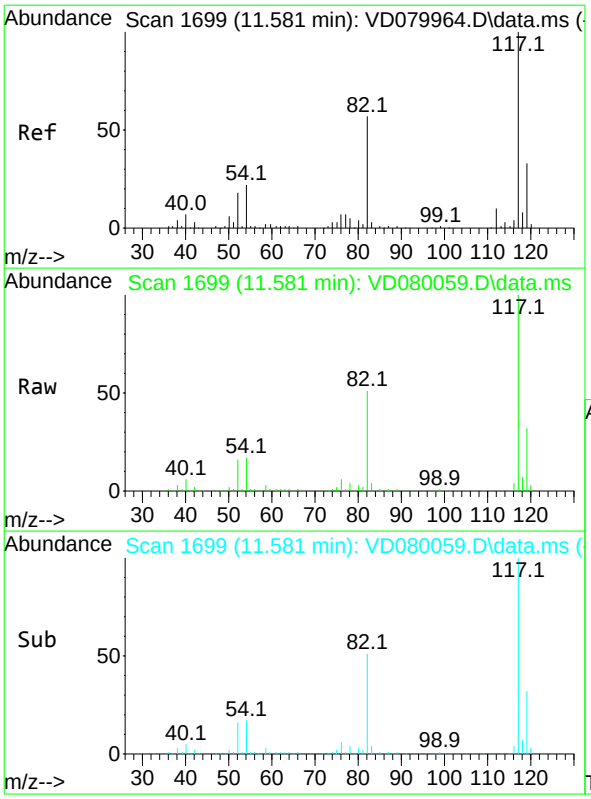




#62
4-Bromofluorobenzene
Concen: 41.185 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

Tgt Ion: 95 Resp: 99895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 90.8 | 0.0 | 173.4 |
| 176 | 86.6 | 0.0 | 166.6 |



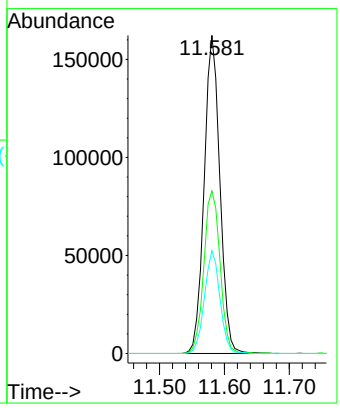


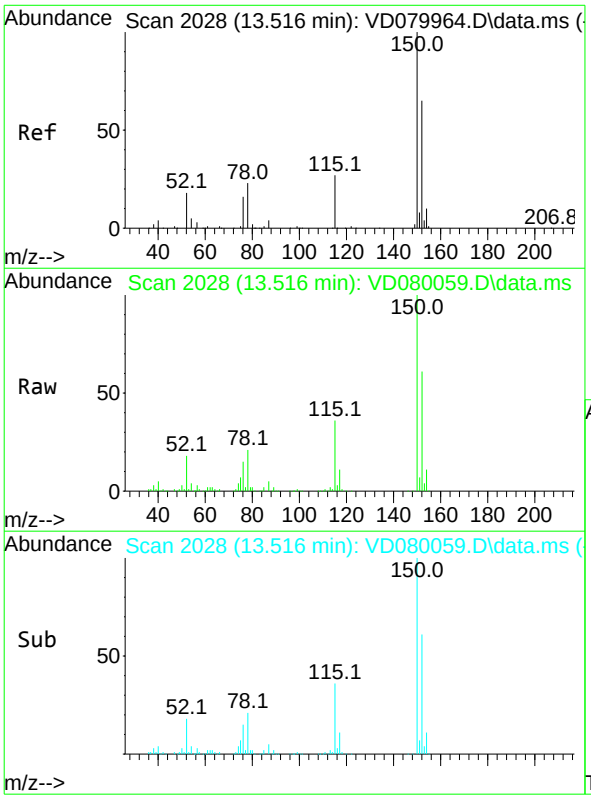

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 16
Delta R.T. -0.000 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBL01

Tgt Ion:117 Resp: 273326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 51.1 | 45.8 | 68.6 |
| 119 | 32.3 | 26.2 | 39.2 |

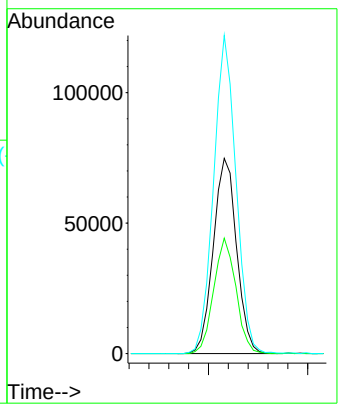



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.000 min
Lab File: VD080059.D
Acq: 18 Nov 2024 10:27

Tgt Ion:152 Resp: 122131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.3 | 28.9 | 86.8 |
| 150 | 156.9 | 0.0 | 354.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080059.D
Acq On : 18 Nov 2024 10:27
Operator : RP/MD
Sample : VD1118SBL01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBL01

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_D\Method\82D111524S.M
Title : SW846 8260

Signal : TIC: VD080059.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.746 | 19 | 27 | 37 | rBV | 697362 | 1120192 | 100.00% | 19.234% |
| 2 | 7.804 | 1046 | 1057 | 1063 | rBV | 131431 | 319677 | 28.54% | 5.489% |
| 3 | 7.875 | 1063 | 1069 | 1081 | rVB | 218603 | 499658 | 44.60% | 8.579% |
| 4 | 8.228 | 1120 | 1129 | 1139 | rBV2 | 114221 | 257654 | 23.00% | 4.424% |
| 5 | 8.781 | 1213 | 1223 | 1234 | rBV | 321152 | 670848 | 59.89% | 11.519% |
| 6 | 10.269 | 1467 | 1476 | 1487 | rBV | 477239 | 847680 | 75.67% | 14.555% |
| 7 | 10.663 | 1537 | 1543 | 1553 | rVB2 | 21312 | 38245 | 3.41% | 0.657% |
| 8 | 11.581 | 1691 | 1699 | 1710 | rBV | 463672 | 794131 | 70.89% | 13.635% |
| 9 | 12.575 | 1861 | 1868 | 1875 | rBV | 319151 | 533516 | 47.63% | 9.161% |
| 10 | 13.516 | 2021 | 2028 | 2035 | rBV | 436399 | 707754 | 63.18% | 12.152% |
| 11 | 14.045 | 2111 | 2118 | 2124 | rVB2 | 13225 | 22016 | 1.97% | 0.378% |
| 12 | 15.481 | 2357 | 2362 | 2366 | rBV4 | 7654 | 12704 | 1.13% | 0.218% |

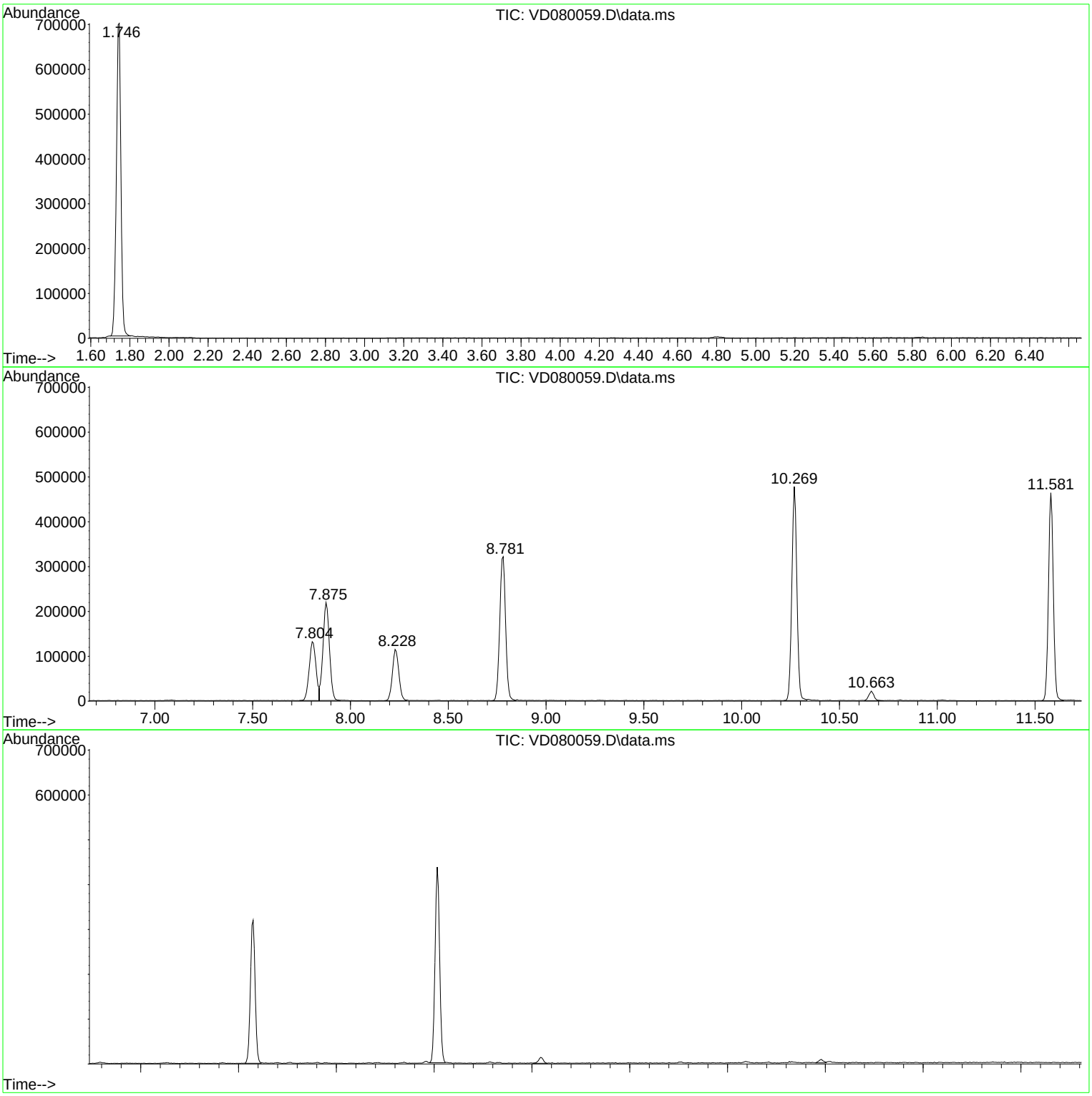
Sum of corrected areas: 5824075

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080059.D
Acq On : 18 Nov 2024 10:27
Operator : RP/MD
Sample : VD1118SBL01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080059.D
Acq On : 18 Nov 2024 10:27
Operator : RP/MD
Sample : VD1118SBL01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.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_D\Data\VD111824\
Data File : VD080059.D
Acq On : 18 Nov 2024 10:27
Operator : RP/MD
Sample : VD1118SBL01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.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\VY112024\
Data File : VY020348.D
Acq On : 20 Nov 2024 10:07
Operator : SY/MD
Sample : VY1120SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1120SBL01

Quant Time: Nov 21 00:42:36 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 | 160712 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 312610 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 282610 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 104132 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 98287 | 53.232 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 106.460% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 96868 | 48.324 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 96.640% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 379920 | 48.113 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 96.220% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 122604 | 48.299 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 96.600% | | | |

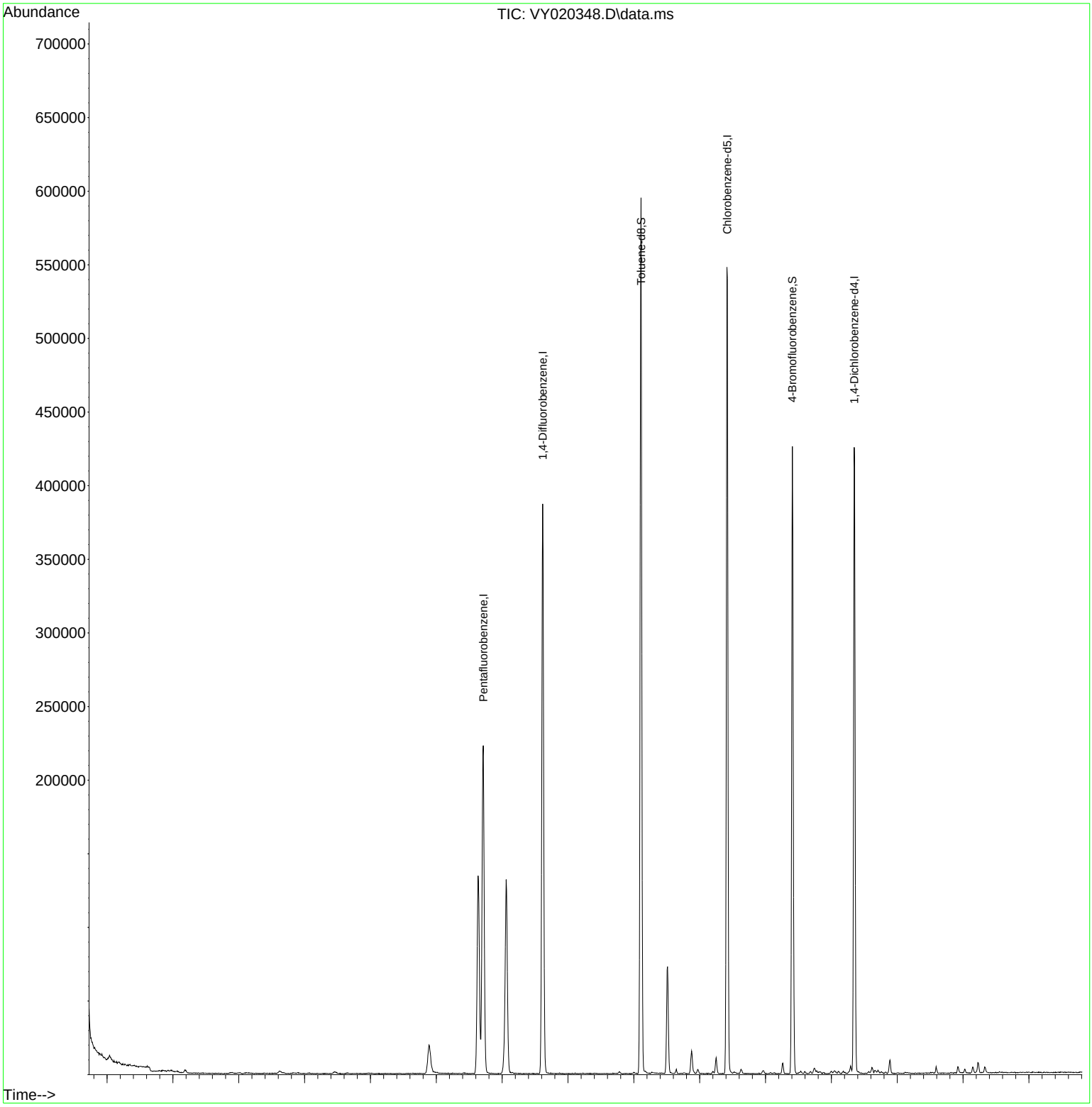
Target Compounds Qvalue

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

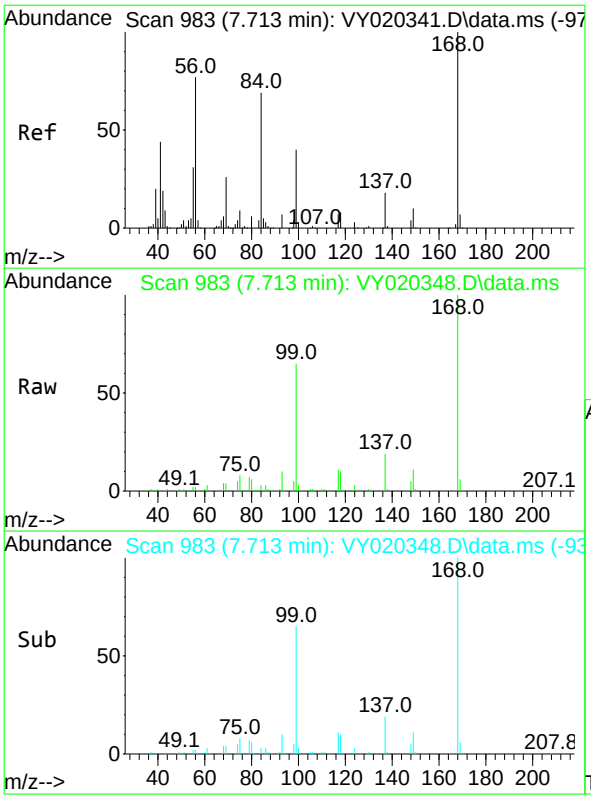
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020348.D
Acq On : 20 Nov 2024 10:07
Operator : SY/MD
Sample : VY1120SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1120SBL01

Quant Time: Nov 21 00:42:36 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



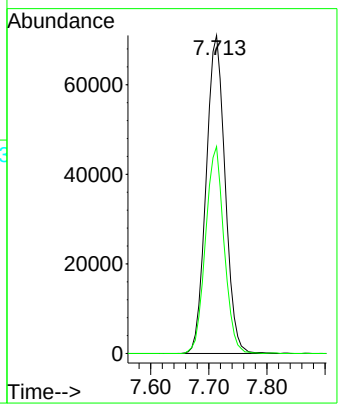
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1120SBL01

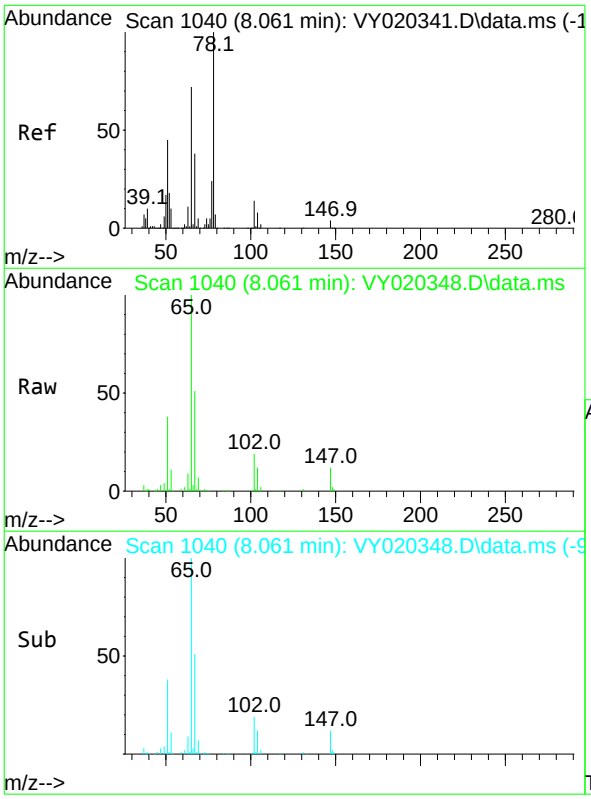



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020348.D
Acq: 20 Nov 2024 10:07

Tgt Ion:168 Resp: 160712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.0 | 46.6 | 69.8 |

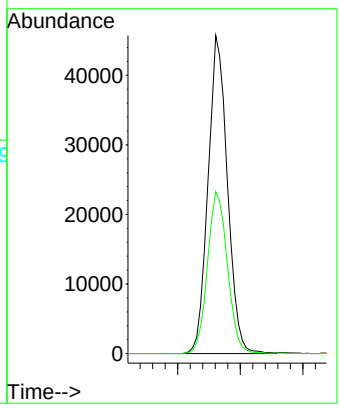


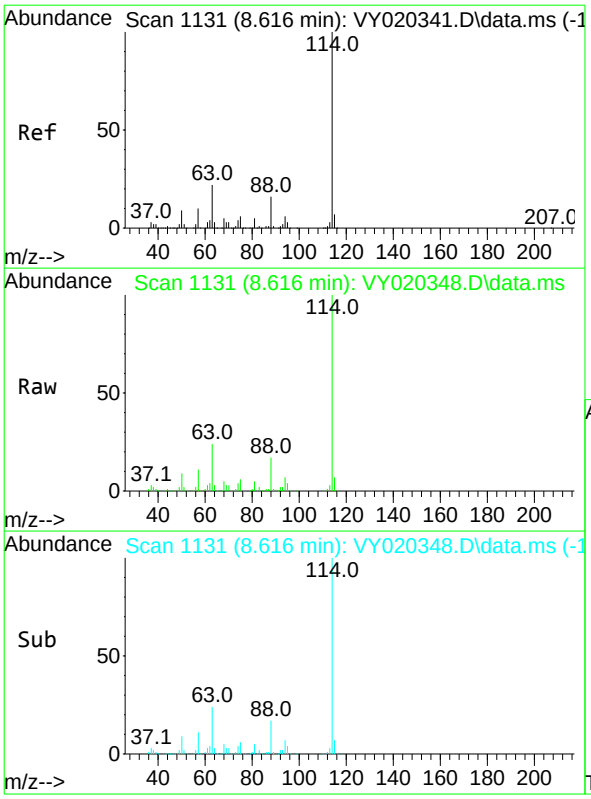




#33
1,2-Dichloroethane-d4
Concen: 53.232 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY020348.D
Acq: 20 Nov 2024 10:07

Tgt Ion: 65 Resp: 98287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.4 | 0.0 | 105.8 |



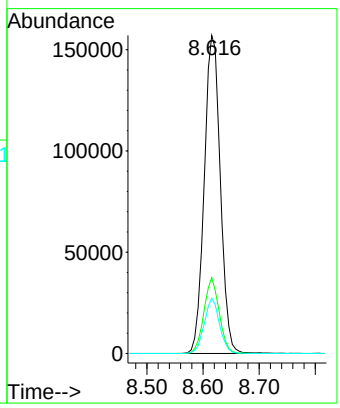


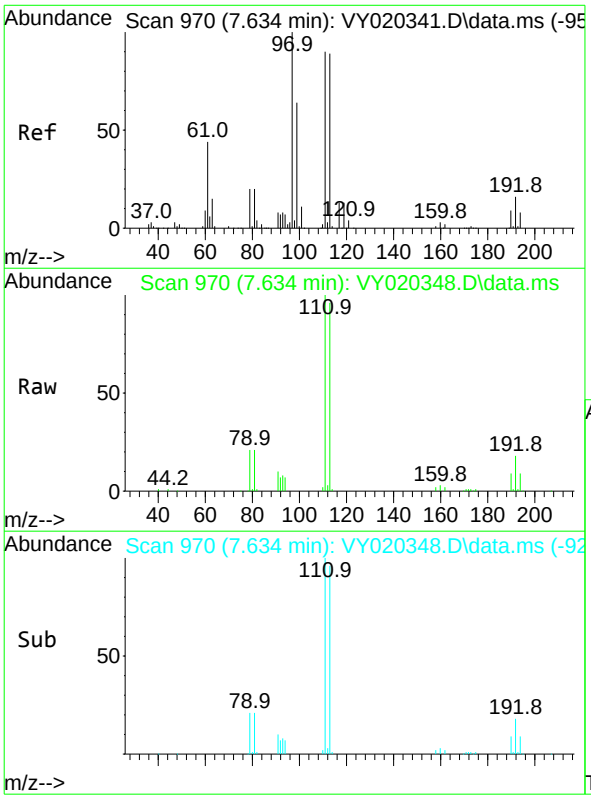

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY020348.D
Acq: 20 Nov 2024 10:07

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1120SBL01

Tgt Ion:114 Resp: 312610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.8 | 0.0 | 44.8 |
| 88 | 17.4 | 0.0 | 32.0 |

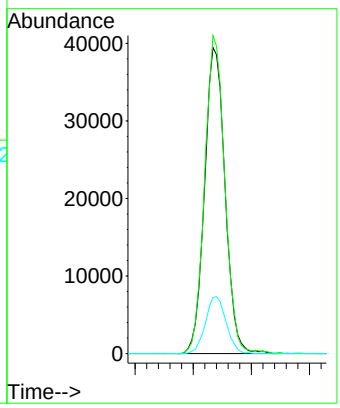


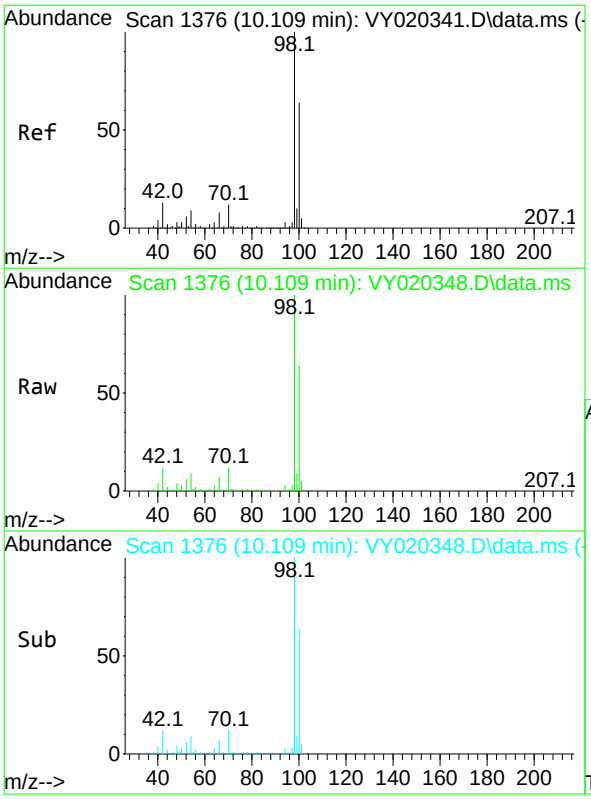




#35
Dibromofluoromethane
Concen: 48.324 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY020348.D
Acq: 20 Nov 2024 10:07

Tgt Ion:113 Resp: 96868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.1 | 81.4 | 122.0 |
| 192 | 18.7 | 15.1 | 22.7 |



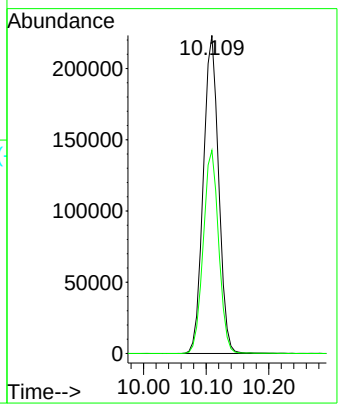


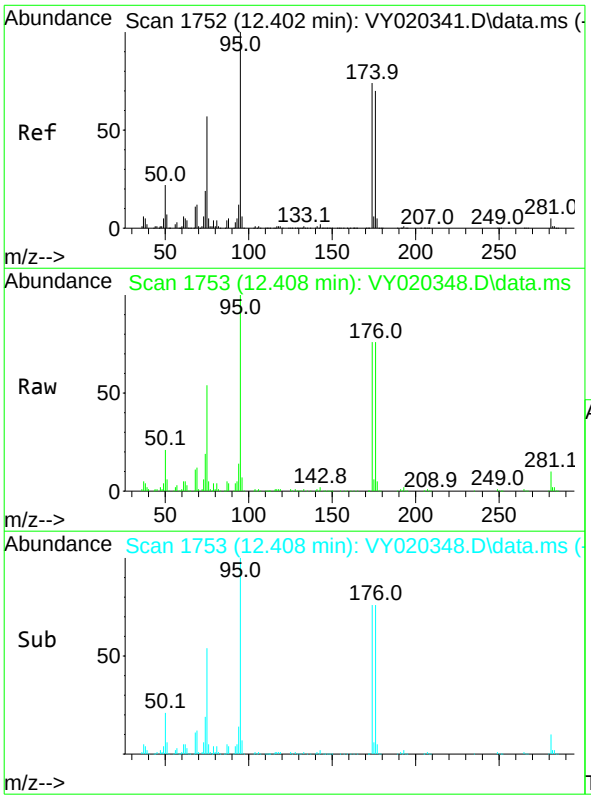

#50
Toluene-d8
Concen: 48.113 ug/l
RT: 10.109 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY020348.D
Acq: 20 Nov 2024 10:07

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1120SBL01

Tgt Ion: 98 Resp: 379920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.4 | 51.3 | 76.9 |

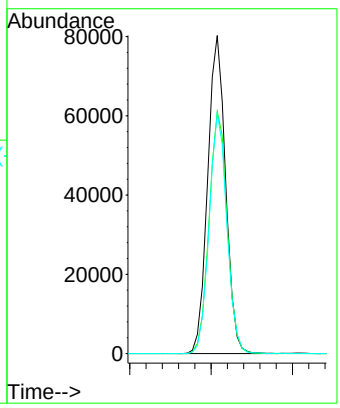


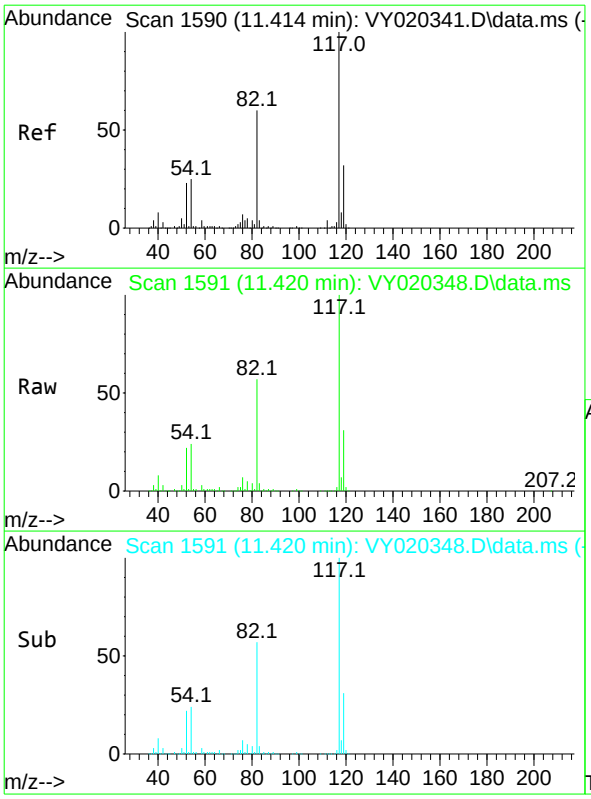




#62
4-Bromofluorobenzene
Concen: 48.299 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020348.D
Acq: 20 Nov 2024 10:07

Tgt Ion: 95 Resp: 122604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 76.7 | 0.0 | 156.8 |
| 176 | 74.4 | 0.0 | 152.0 |



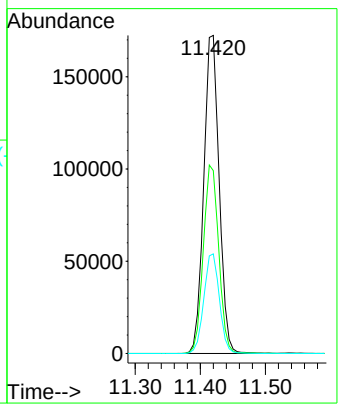


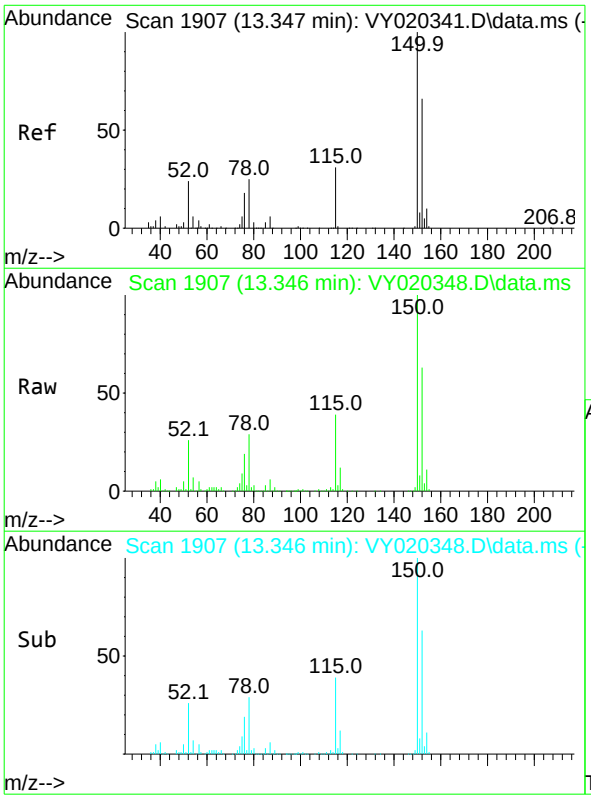

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020348.D
Acq: 20 Nov 2024 10:07

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1120SBL01

Tgt Ion:117 Resp: 282610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.5 | 48.2 | 72.4 |
| 119 | 31.3 | 25.8 | 38.8 |

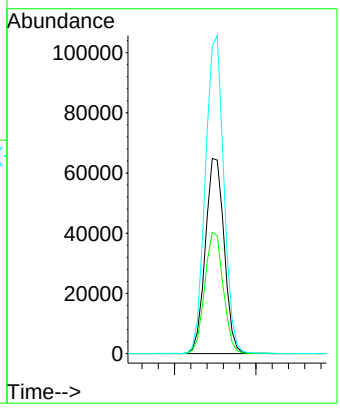



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY020348.D
Acq: 20 Nov 2024 10:07

Tgt Ion:152 Resp: 104132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.2 | 30.0 | 90.0 |
| 150 | 159.5 | 0.0 | 348.2 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020348.D
Acq On : 20 Nov 2024 10:07
Operator : SY/MD
Sample : VY1120SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1120SBL01

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: VY020348.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 | 836 | 848 | 858 | rBV | 19458 | 61951 | 6.02% | 1.128% |
| 2 | 7.634 | 961 | 970 | 977 | rBV | 134437 | 332264 | 32.28% | 6.052% |
| 3 | 7.713 | 977 | 983 | 993 | rVB | 222162 | 498269 | 48.41% | 9.076% |
| 4 | 8.061 | 1026 | 1040 | 1050 | rBV2 | 131688 | 316038 | 30.70% | 5.757% |
| 5 | 8.616 | 1122 | 1131 | 1143 | rBV | 386949 | 758752 | 73.71% | 13.821% |
| 6 | 10.109 | 1367 | 1376 | 1385 | rBV | 594946 | 1029315 | 100.00% | 18.750% |
| 7 | 10.512 | 1435 | 1442 | 1449 | rBV | 72544 | 133669 | 12.99% | 2.435% |
| 8 | 10.877 | 1496 | 1502 | 1511 | rBV | 15267 | 28757 | 2.79% | 0.524% |
| 9 | 11.249 | 1558 | 1563 | 1571 | rVB3 | 10748 | 17399 | 1.69% | 0.317% |
| 10 | 11.414 | 1582 | 1590 | 1604 | rBV | 547726 | 904377 | 87.86% | 16.474% |
| 11 | 12.261 | 1721 | 1729 | 1734 | rBV2 | 7109 | 11177 | 1.09% | 0.204% |
| 12 | 12.408 | 1746 | 1753 | 1763 | rVB2 | 425994 | 695263 | 67.55% | 12.665% |
| 13 | 13.346 | 1901 | 1907 | 1917 | rVB | 424383 | 674121 | 65.49% | 12.280% |
| 14 | 13.889 | 1989 | 1996 | 2002 | rBV2 | 9229 | 15808 | 1.54% | 0.288% |
| 15 | 15.224 | 2211 | 2215 | 2222 | rVV3 | 7229 | 12640 | 1.23% | 0.230% |

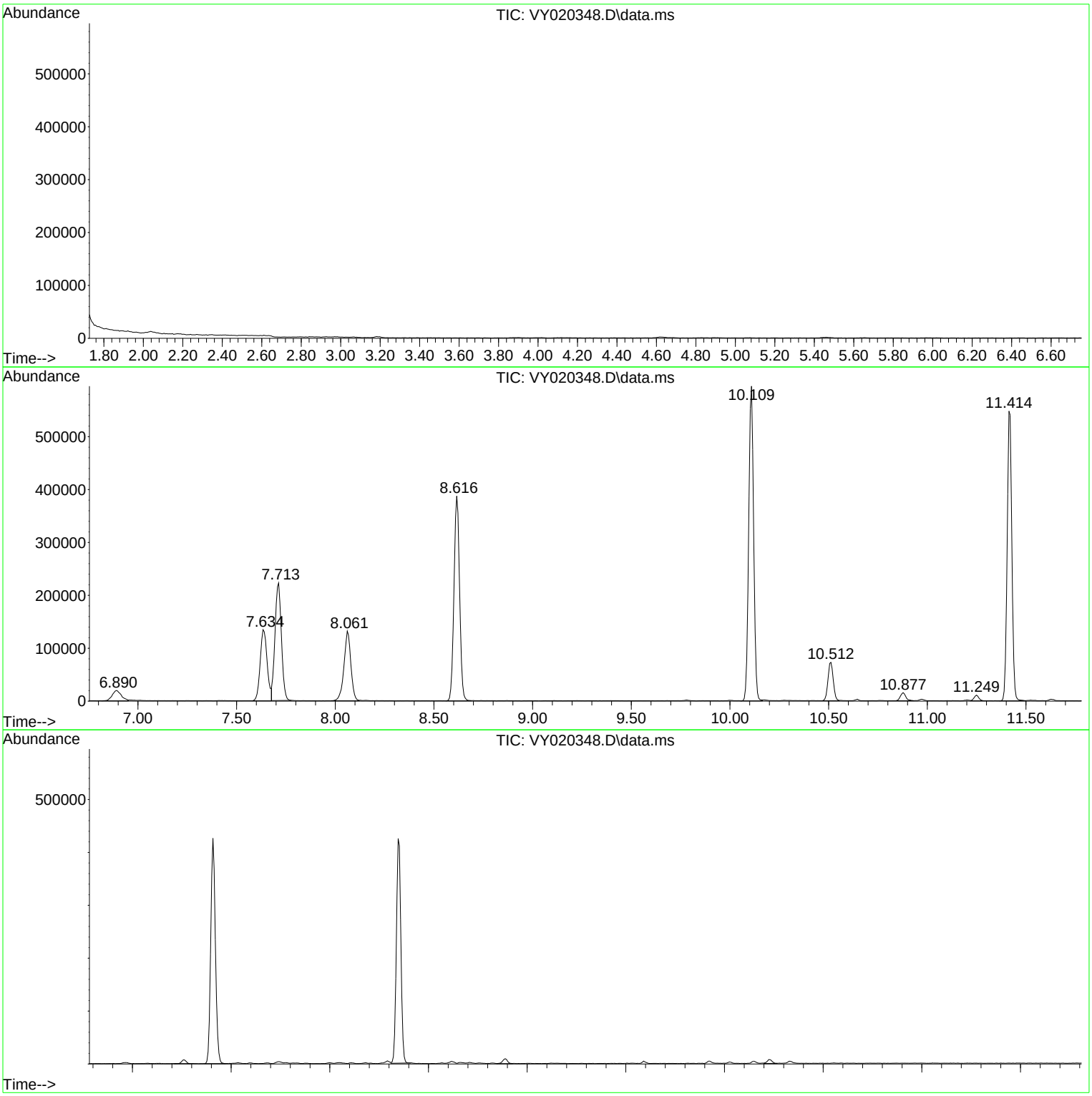
Sum of corrected areas: 5489800

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020348.D
Acq On : 20 Nov 2024 10:07
Operator : SY/MD
Sample : VY1120SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1120SBL01

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\VY112024\
Data File : VY020348.D
Acq On : 20 Nov 2024 10:07
Operator : SY/MD
Sample : VY1120SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1120SBL01

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\VY112024\
Data File : VY020348.D
Acq On : 20 Nov 2024 10:07
Operator : SY/MD
Sample : VY1120SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1120SBL01

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\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% | | | |

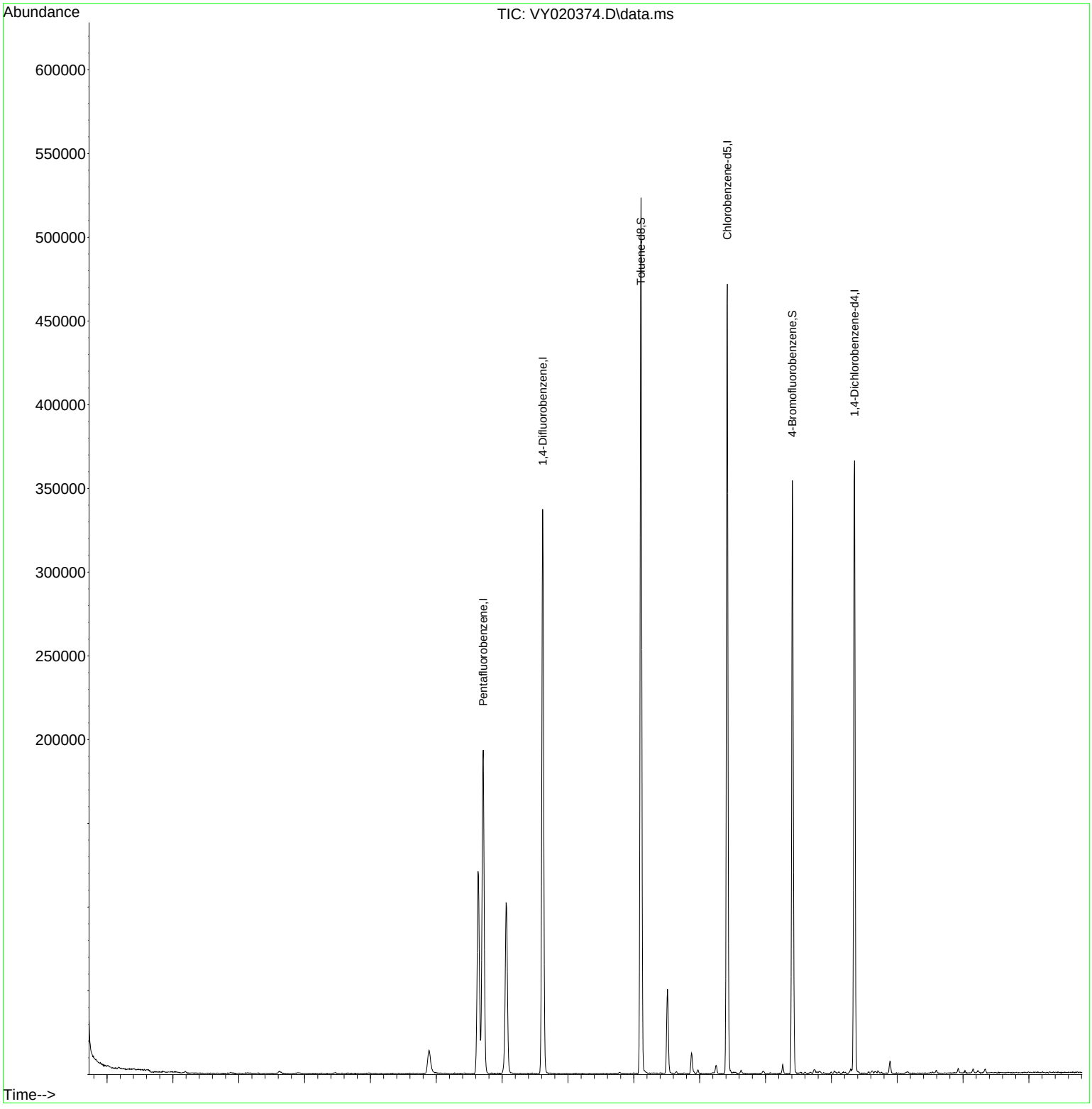
Target Compounds Qvalue

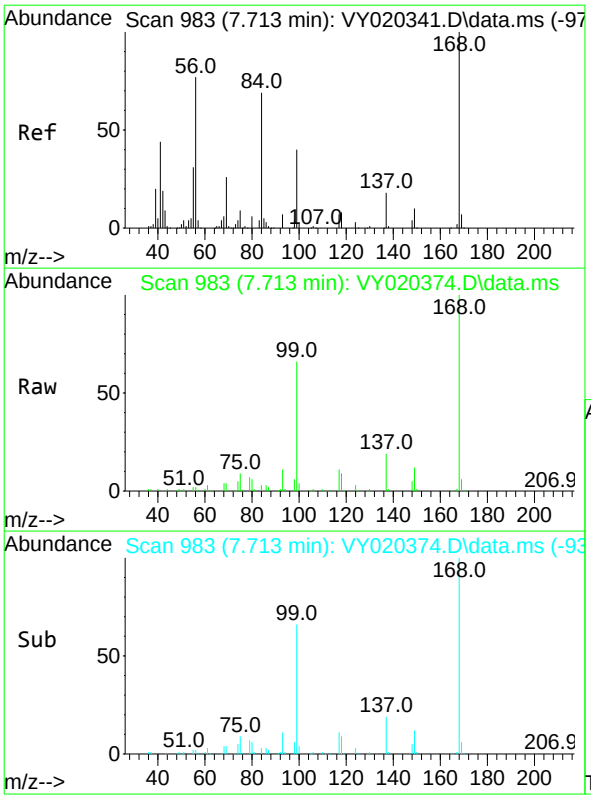
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



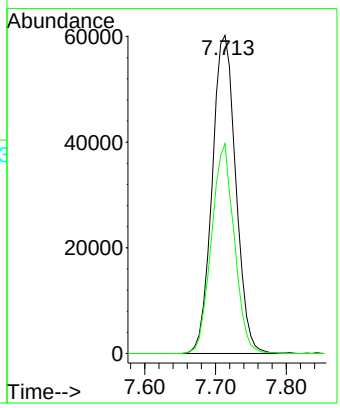


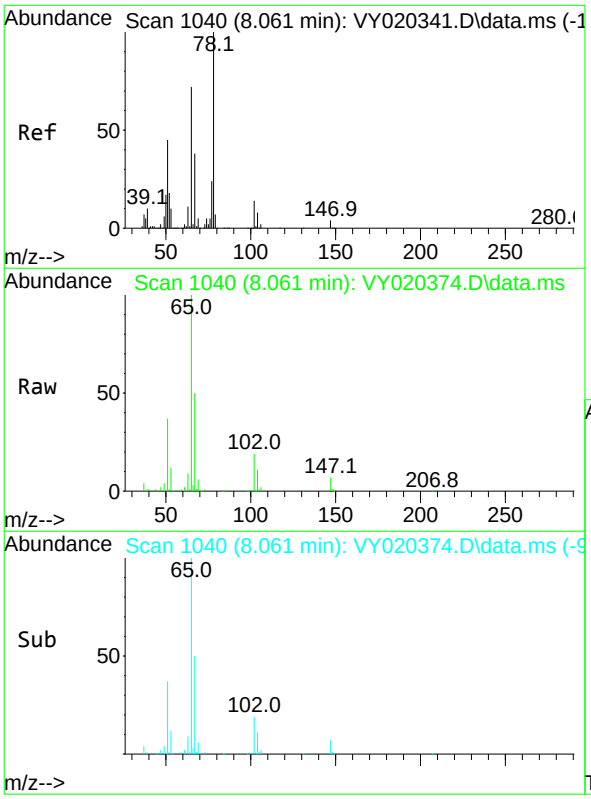

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1121SBL01

Tgt Ion:168 Resp: 139506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 66.0 | 46.6 | 69.8 |

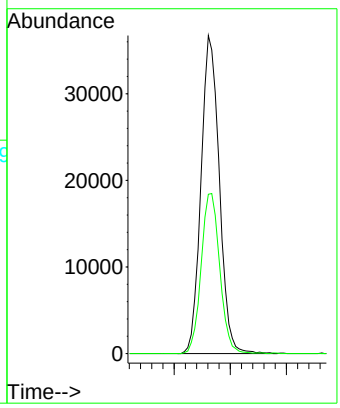


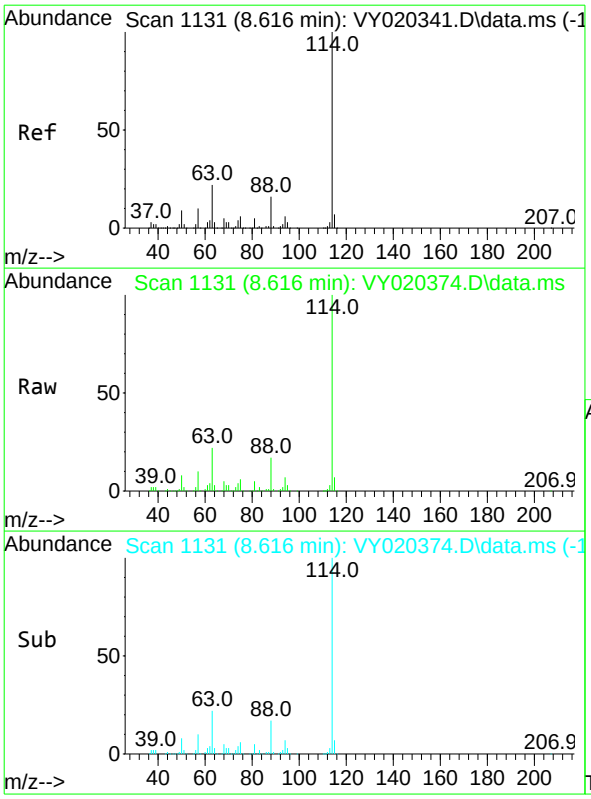




#33
1,2-Dichloroethane-d4
Concen: 51.857 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

Tgt Ion: 65 Resp: 83114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.2 | 0.0 | 105.8 |



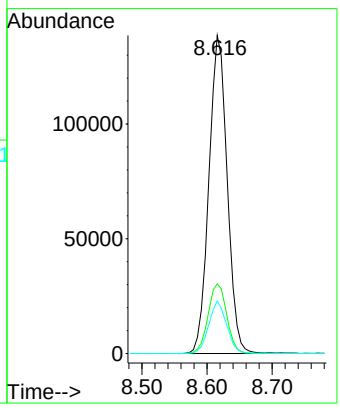


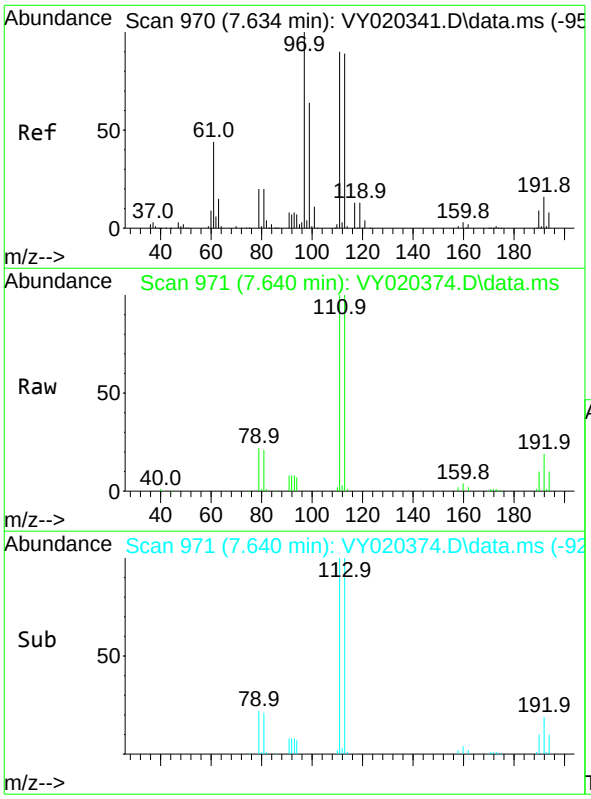

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

**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 |

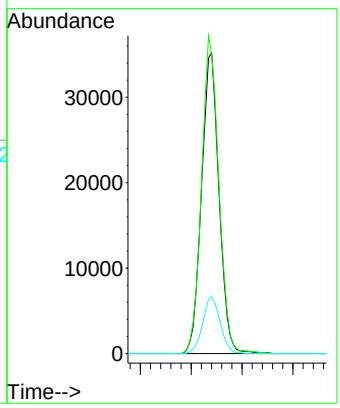


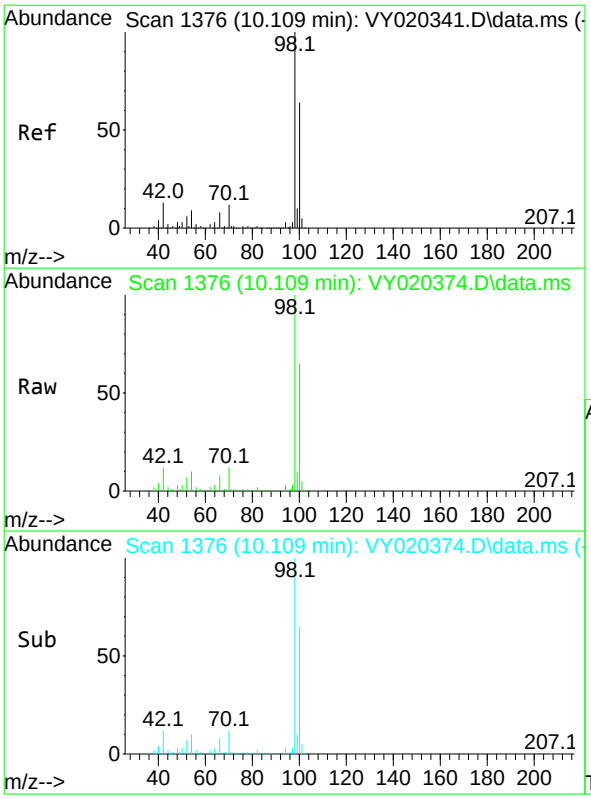




#35
Dibromofluoromethane
Concen: 48.450 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

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 |



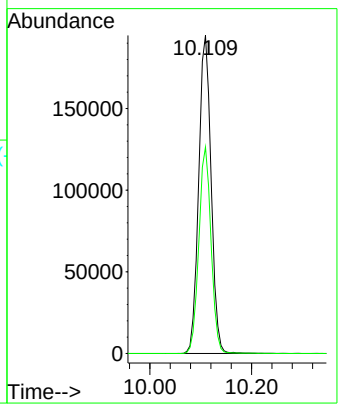


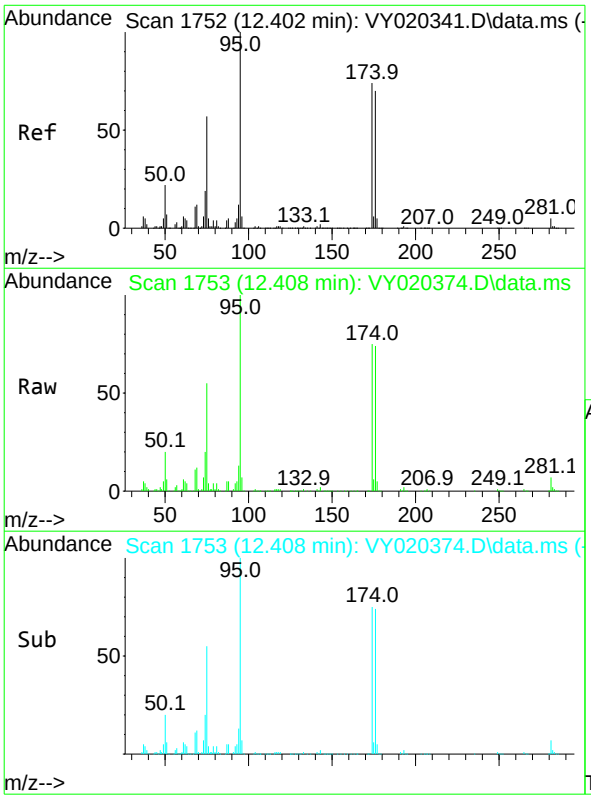

#50
Toluene-d8
Concen: 48.218 ug/l
RT: 10.109 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1121SBL01

Tgt Ion: 98 Resp: 329763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.9 | 51.3 | 76.9 |

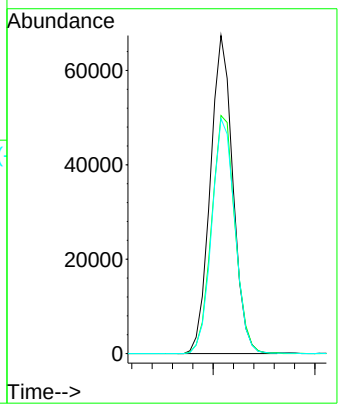


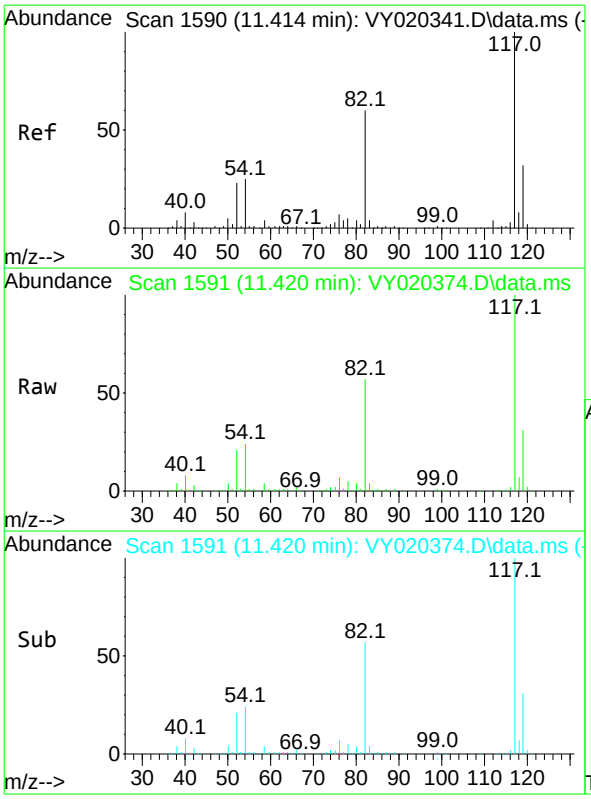

#62
4-Bromofluorobenzene
Concen: 47.324 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

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 |



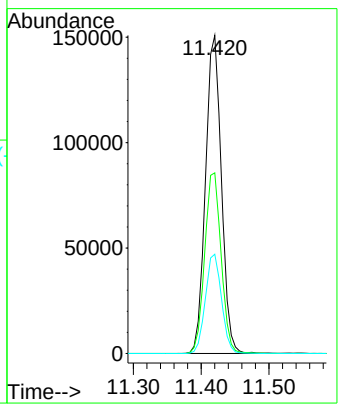
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1121SBL01

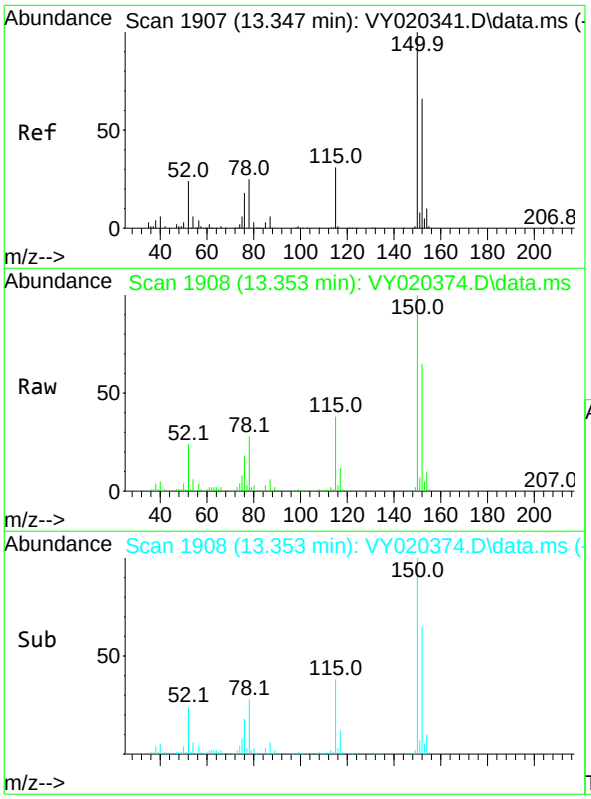



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

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 |

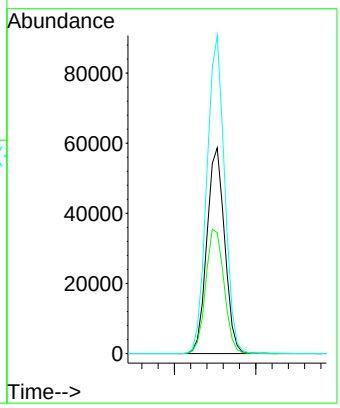



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020374.D
Acq: 21 Nov 2024 09:59

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% |

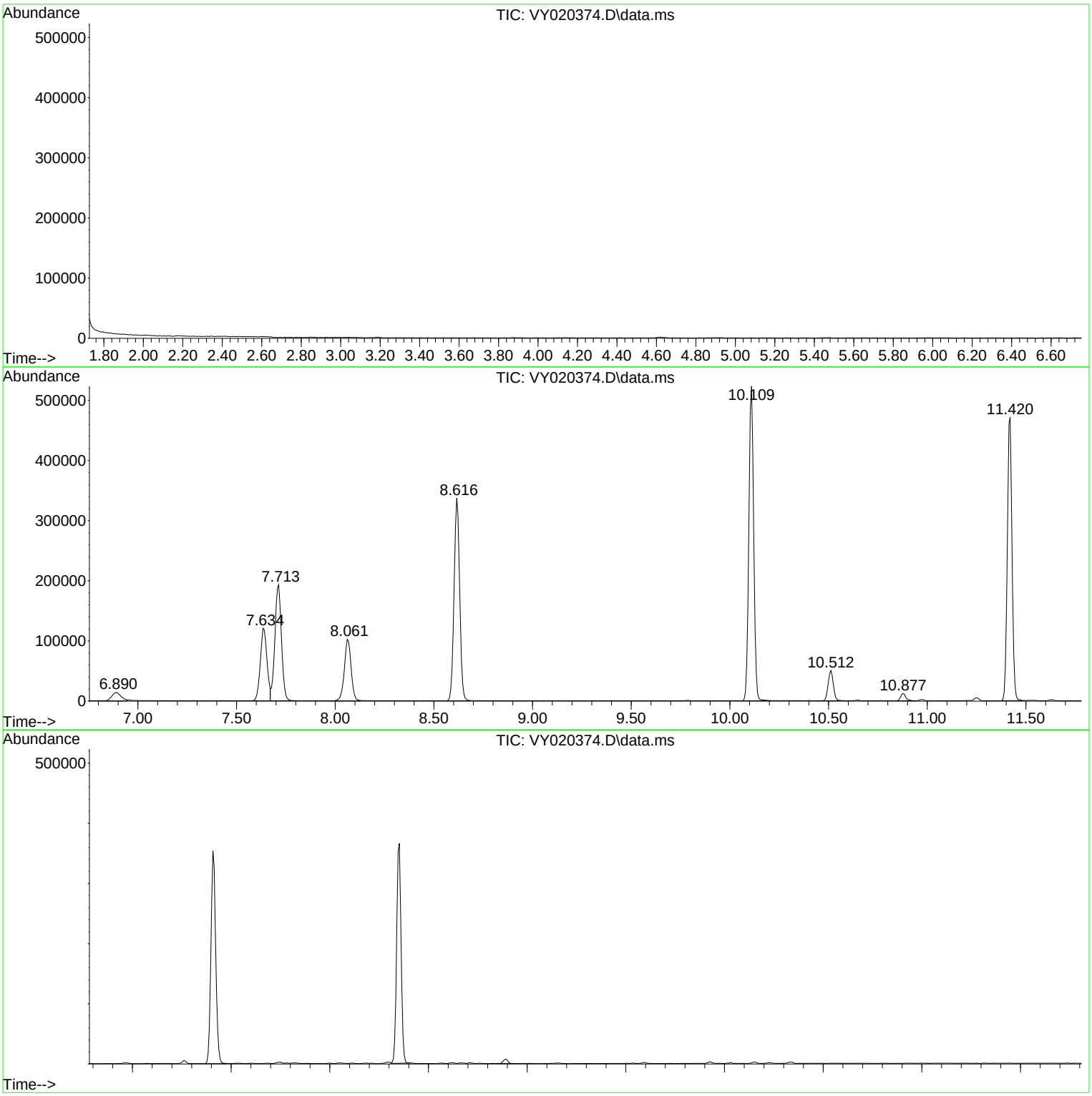
Sum of corrected areas: 4633840

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

**********

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_D\Data\VD111824\
Data File : VD080060.D
Acq On : 18 Nov 2024 10:55
Operator : RP/MD
Sample : VD1118SBS01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 04:44:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBS01

**Manual Integrations APPROVED**
Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 178101 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.775 | 114 | 282863 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 258933 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 141556 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 90569 | 49.391 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 98.780% | | | |
| 35) Dibromofluoromethane | 7.805 | 113 | 93698 | 49.772 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 99.540% | | | |
| 50) Toluene-d8 | 10.269 | 98 | 361952 | 51.013 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 102.020% | | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 117407 | 50.435 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 100.880% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 26054 | 18.227 | ug/l | 89 |
| 3) Chloromethane | 2.146 | 50 | 20830 | 19.816 | ug/l | 97 |
| 4) Vinyl Chloride | 2.281 | 62 | 24350 | 20.291 | ug/l | 96 |
| 5) Bromomethane | 2.687 | 94 | 28089 | 21.323 | ug/l | 95 |
| 6) Chloroethane | 2.834 | 64 | 19340 | 22.547 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.175 | 101 | 62694 | 21.270 | ug/l | 98 |
| 8) Diethyl Ether | 3.593 | 74 | 15504 | 18.019 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.970 | 101 | 37911 | 20.590 | ug/l | 97 |
| 10) Methyl Iodide | 4.164 | 142 | 40594 | 17.811 | ug/l | 100 |
| 11) Tert butyl alcohol | 5.058 | 59 | 9009 | 94.407 | ug/l # | 96 |
| 12) 1,1-Dichloroethene | 3.940 | 96 | 35104 | 19.022 | ug/l | 95 |
| 13) Acrolein | 3.793 | 56 | 15145 | 82.712 | ug/l | 99 |
| 14) Allyl chloride | 4.569 | 41 | 46809 | 17.894 | ug/l | 97 |
| 15) Acrylonitrile | 5.264 | 53 | 34894 | 91.286 | ug/l | 98 |
| 16) Acetone | 4.022 | 43 | 38546 | 96.882 | ug/l | 97 |
| 17) Carbon Disulfide | 4.275 | 76 | 111711 | 18.799 | ug/l | 96 |
| 18) Methyl Acetate | 4.569 | 43 | 16953 | 19.213 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.322 | 73 | 68637 | 18.231 | ug/l | 93 |
| 20) Methylene Chloride | 4.805 | 84 | 42508 | 19.922 | ug/l | 91 |
| 21) trans-1,2-Dichloroethene | 5.311 | 96 | 37754 | 18.505 | ug/l | 93 |
| 22) Diisopropyl ether | 6.222 | 45 | 98725 | 18.637 | ug/l # | 97 |
| 23) Vinyl Acetate | 6.158 | 43 | 260471 | 85.823 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.111 | 63 | 67114 | 19.049 | ug/l | 97 |
| 25) 2-Butanone | 7.087 | 43 | 43277 | 83.238 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.081 | 77 | 57476 | 18.768 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 43193 | 18.449 | ug/l | 93 |
| 28) Bromochloromethane | 7.428 | 49 | 28037 | 17.882 | ug/l | 93 |
| 29) Tetrahydrofuran | 7.452 | 42 | 26750 | 93.926 | ug/l | 99 |
| 30) Chloroform | 7.599 | 83 | 74516 | 20.075 | ug/l | 100 |
| 31) Cyclohexane | 7.875 | 56 | 54643 | 18.299 | ug/l # | 85 |
| 32) 1,1,1-Trichloroethane | 7.793 | 97 | 65921 | 20.753 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.005 | 75 | 50832 | 19.747 | ug/l | 99 |
| 37) Ethyl Acetate | 7.169 | 43 | 18960 | 17.136 | ug/l # | 94 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 55666 | 19.793 | ug/l | 93 |
| 39) Methylcyclohexane | 9.275 | 83 | 56196 | 18.336 | ug/l | 92 |
| 40) Benzene | 8.252 | 78 | 154630 | 19.271 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080060.D
Acq On : 18 Nov 2024 10:55
Operator : RP/MD
Sample : VD1118SBS01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 04:44:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBS01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.399 | 41 | 10823 | 18.125 ug/l # | 86 |
| 42) 1,2-Dichloroethane | 8.328 | 62 | 42056 | 20.253 ug/l | 99 |
| 43) Isopropyl Acetate | 8.358 | 43 | 37665 | 18.779 ug/l # | 88 |
| 44) Trichloroethene | 9.028 | 130 | 40613 | 19.560 ug/l | 97 |
| 45) 1,2-Dichloropropane | 9.305 | 63 | 38653 | 20.046 ug/l | 96 |
| 46) Dibromomethane | 9.393 | 93 | 22400 | 19.972 ug/l | 96 |
| 47) Bromodichloromethane | 9.587 | 83 | 54740 | 19.499 ug/l # | 98 |
| 48) Methyl methacrylate | 9.381 | 41 | 17744 | 18.531 ug/l | 93 |
| 49) 1,4-Dioxane | 9.387 | 88 | 4518 | 439.129 ug/l # | 88 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 100223 | 98.490 ug/l | 99 |
| 52) Toluene | 10.334 | 92 | 97423 | 19.538 ug/l | 94 |
| 53) t-1,3-Dichloropropene | 10.552 | 75 | 45844 | 18.319 ug/l | 92 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 57049 | 19.256 ug/l | 94 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 30157 | 20.324 ug/l | 97 |
| 56) Ethyl methacrylate | 10.599 | 69 | 29695 | 17.210 ug/l | 90 |
| 57) 1,3-Dichloropropane | 10.875 | 76 | 46019 | 19.065 ug/l | 96 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 62492 | 95.761 ug/l | 96 |
| 59) 2-Hexanone | 10.922 | 43 | 68836 | 91.966 ug/l | 99 |
| 60) Dibromochloromethane | 11.075 | 129 | 39861 | 20.871 ug/l | 98 |
| 61) 1,2-Dibromoethane | 11.175 | 107 | 29169 | 20.850 ug/l | 98 |
| 64) Tetrachloroethene | 10.810 | 164 | 39119 | 21.215 ug/l | 95 |
| 65) Chlorobenzene | 11.604 | 112 | 111434 | 19.729 ug/l | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131 | 39681 | 20.182 ug/l | 96 |
| 67) Ethyl Benzene | 11.681 | 91 | 175565 | 18.524 ug/l | 97 |
| 68) m/p-Xylenes | 11.793 | 106 | 143395 | 38.715 ug/l | 99 |
| 69) o-Xylene | 12.116 | 106 | 65428 | 19.651 ug/l | 93 |
| 70) Styrene | 12.134 | 104 | 114050 | 19.192 ug/l | 99 |
| 71) Bromoform | 12.298 | 173 | 23467 | 20.243 ug/l # | 98 |
| 73) Isopropylbenzene | 12.422 | 105 | 168564 | 18.465 ug/l | 99 |
| 74) N-amyl acetate | 12.234 | 43 | 37701 | 18.743 ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83 | 34967 | 19.931 ug/l | 98 |
| 76) 1,2,3-Trichloropropane | 12.722 | 75 | 21810m | 17.448 ug/l | |
| 77) Bromobenzene | 12.698 | 156 | 45573 | 19.210 ug/l | 96 |
| 78) n-propylbenzene | 12.763 | 91 | 215707 | 19.120 ug/l | 98 |
| 79) 2-Chlorotoluene | 12.846 | 91 | 125865 | 19.025 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 146186 | 18.921 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 11793 | 19.309 ug/l | 99 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 135386 | 19.142 ug/l | 99 |
| 83) tert-Butylbenzene | 13.163 | 119 | 122734 | 18.342 ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 149083 | 19.209 ug/l | 99 |
| 85) sec-Butylbenzene | 13.345 | 105 | 194603 | 19.676 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.457 | 119 | 163152 | 19.515 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 94084 | 19.585 ug/l | 98 |
| 88) 1,4-Dichlorobenzene | 13.534 | 146 | 94116 | 19.507 ug/l | 98 |
| 89) n-Butylbenzene | 13.787 | 91 | 149507 | 19.009 ug/l | 99 |
| 90) Hexachloroethane | 14.051 | 117 | 35475 | 19.794 ug/l | 97 |
| 91) 1,2-Dichlorobenzene | 13.828 | 146 | 81242 | 19.394 ug/l | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.440 | 75 | 4950 | 18.659 ug/l | 85 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 53659 | 20.428 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.198 | 225 | 29847 | 21.024 ug/l | 93 |
| 95) Naphthalene | 15.328 | 128 | 83816 | 18.786 ug/l | 97 |
| 96) 1,2,3-Trichlorobenzene | 15.516 | 180 | 47186 | 20.455 ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080060.D
Acq On : 18 Nov 2024 10:55
Operator : RP/MD
Sample : VD1118SBS01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 04:44:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBS01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

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

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

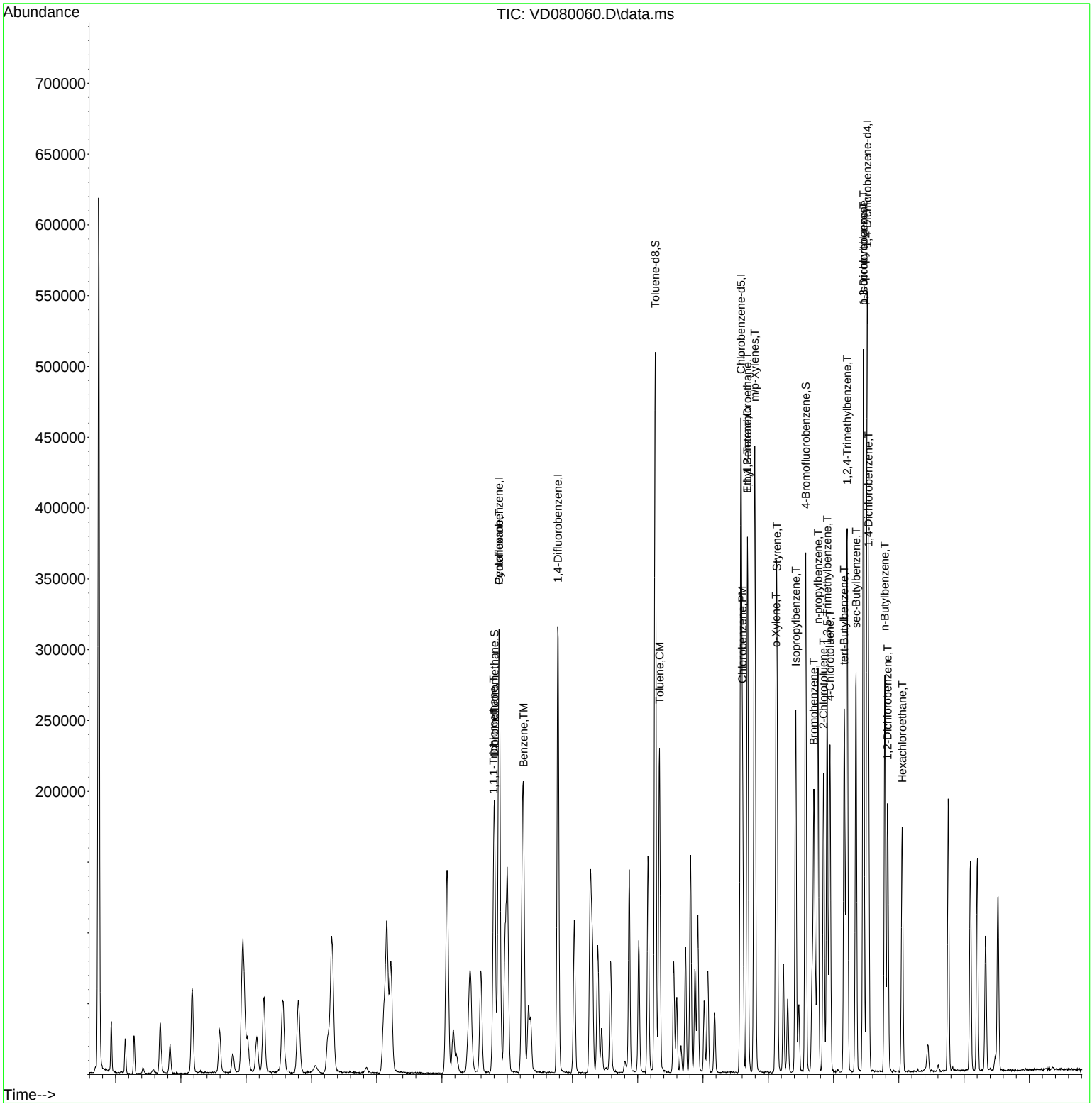
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080060.D
Acq On : 18 Nov 2024 10:55
Operator : RP/MD
Sample : VD1118SBS01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 04:44:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBS01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020349.D
Acq On : 20 Nov 2024 10:53
Operator : SY/MD
Sample : VY1120SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 00:43:02 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 :**
VY1120SBS01

**Manual Integrations APPROVED**

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

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 210349 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 347339 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 288195 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 135305 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 104695 | 43.322 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 86.640% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 92069 | 41.338 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 82.680% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 374295 | 42.662 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 85.320% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 124792 | 44.246 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 88.500% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 44542 | 21.815 | ug/l | 96 |
| 3) Chloromethane | 2.074 | 50 | 47600 | 14.524 | ug/l | 97 |
| 4) Vinyl Chloride | 2.208 | 62 | 44857 | 16.014 | ug/l | 99 |
| 5) Bromomethane | 2.598 | 94 | 23155 | 16.552 | ug/l | 97 |
| 6) Chloroethane | 2.739 | 64 | 26010 | 15.918 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 74348 | 19.100 | ug/l | 97 |
| 8) Diethyl Ether | 3.458 | 74 | 21497 | 17.504 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 42301 | 18.248 | ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 53198 | 17.133 | ug/l | 94 |
| 11) Tert butyl alcohol | 4.860 | 59 | 15294 | 80.697 | ug/l # | 73 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 41036 | 17.883 | ug/l | 99 |
| 13) Acrolein | 3.659 | 56 | 17734 | 118.509 | ug/l | 99 |
| 14) Allyl chloride | 4.385 | 41 | 77268 | 17.413 | ug/l | 93 |
| 15) Acrylonitrile | 5.067 | 53 | 48016 | 88.443 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 49582 | 85.583 | ug/l | 95 |
| 17) Carbon Disulfide | 4.110 | 76 | 132661 | 17.160 | ug/l | 98 |
| 18) Methyl Acetate | 4.391 | 43 | 22014 | 16.301 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 104902 | 17.598 | ug/l | 99 |
| 20) Methylene Chloride | 4.622 | 84 | 42492 | 17.320 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 43797 | 17.185 | ug/l | 86 |
| 22) Diisopropyl ether | 6.025 | 45 | 153700 | 17.577 | ug/l | 98 |
| 23) Vinyl Acetate | 5.964 | 43 | 423950 | 86.755 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 86954 | 17.614 | ug/l | 99 |
| 25) 2-Butanone | 6.902 | 43 | 69106 | 92.655 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 77244 | 18.932 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 50560 | 18.011 | ug/l | 96 |
| 28) Bromochloromethane | 7.250 | 49 | 36015 | 17.334 | ug/l | 95 |
| 29) Tetrahydrofuran | 7.268 | 42 | 40198 | 90.176 | ug/l | 98 |
| 30) Chloroform | 7.427 | 83 | 83960 | 17.613 | ug/l | 98 |
| 31) Cyclohexane | 7.707 | 56 | 83104 | 18.447 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 78369 | 18.723 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 65647 | 19.298 | ug/l | 97 |
| 37) Ethyl Acetate | 6.988 | 43 | 29576 | 18.979 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 71712 | 20.190 | ug/l | 97 |
| 39) Methylcyclohexane | 9.109 | 83 | 82939 | 19.481 | ug/l | 97 |
| 40) Benzene | 8.085 | 78 | 188187 | 18.877 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020349.D
Acq On : 20 Nov 2024 10:53
Operator : SY/MD
Sample : VY1120SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 00:43:02 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 :**
VY1120SBS01

**Manual Integrations APPROVED**

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

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 15336 | 17.296 ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 51081 | 18.983 ug/l | | 98 |
| 43) Isopropyl Acetate | 8.201 | 43 | 56097 | 18.511 ug/l | | 98 |
| 44) Trichloroethene | 8.866 | 130 | 43825 | 18.554 ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 43294 | 18.202 ug/l | | 98 |
| 46) Dibromomethane | 9.231 | 93 | 22071 | 18.104 ug/l | | 99 |
| 47) Bromodichloromethane | 9.426 | 83 | 61888 | 18.390 ug/l | | 96 |
| 48) Methyl methacrylate | 9.225 | 41 | 26668 | 18.406 ug/l | | 96 |
| 49) 1,4-Dioxane | 9.231 | 88 | 4839 | 385.821 ug/l | | 93 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 143304 | 93.180 ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 115311 | 18.924 ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 57785 | 18.158 ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 68828 | 18.893 ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 28937 | 17.882 ug/l | | 99 |
| 56) Ethyl methacrylate | 10.438 | 69 | 42601 | 17.530 ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 53070 | 18.248 ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 117864 | 102.283 ug/l | | 100 |
| 59) 2-Hexanone | 10.762 | 43 | 103150 | 94.718 ug/l | | 100 |
| 60) Dibromochloromethane | 10.914 | 129 | 37413 | 17.937 ug/l | | 95 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 26457 | 17.644 ug/l | | 100 |
| 64) Tetrachloroethene | 10.652 | 164 | 38299 | 18.436 ug/l | | 95 |
| 65) Chlorobenzene | 11.444 | 112 | 117902 | 18.348 ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 40272 | 18.761 ug/l | | 98 |
| 67) Ethyl Benzene | 11.524 | 91 | 222103 | 18.736 ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 162580 | 38.075 ug/l | | 97 |
| 69) o-Xylene | 11.956 | 106 | 75181 | 18.563 ug/l | | 95 |
| 70) Styrene | 11.969 | 104 | 129129 | 19.190 ug/l | | 98 |
| 71) Bromoform | 12.133 | 173 | 20923 | 18.702 ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 211498 | 18.452 ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 49071 | 17.716 ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 31996 | 17.272 ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 21610m | 16.945 ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 42295 | 17.613 ug/l | | 94 |
| 78) n-propylbenzene | 12.597 | 91 | 254825 | 18.525 ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 141572 | 17.900 ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 171185 | 18.480 ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 11591 | 17.809 ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 145630 | 17.841 ug/l | | 98 |
| 83) tert-Butylbenzene | 12.999 | 119 | 150086 | 18.360 ug/l | | 96 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 168413 | 18.338 ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 221967 | 17.224 ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 188045 | 18.872 ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 86339 | 17.781 ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 83938 | 18.093 ug/l | | 98 |
| 89) n-Butylbenzene | 13.621 | 91 | 178851 | 18.744 ug/l | | 100 |
| 90) Hexachloroethane | 13.883 | 117 | 34199 | 17.783 ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 72425 | 17.902 ug/l | | 97 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 5270 | 17.337 ug/l | | 91 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 44429 | 18.163 ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 29500 | 19.758 ug/l | | 98 |
| 95) Naphthalene | 15.151 | 128 | 77085 | 18.298 ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 38068 | 18.202 ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020349.D
Acq On : 20 Nov 2024 10:53
Operator : SY/MD
Sample : VY1120SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 00:43:02 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 :**
VY1120SBS01

**Manual Integrations APPROVED**

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

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

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

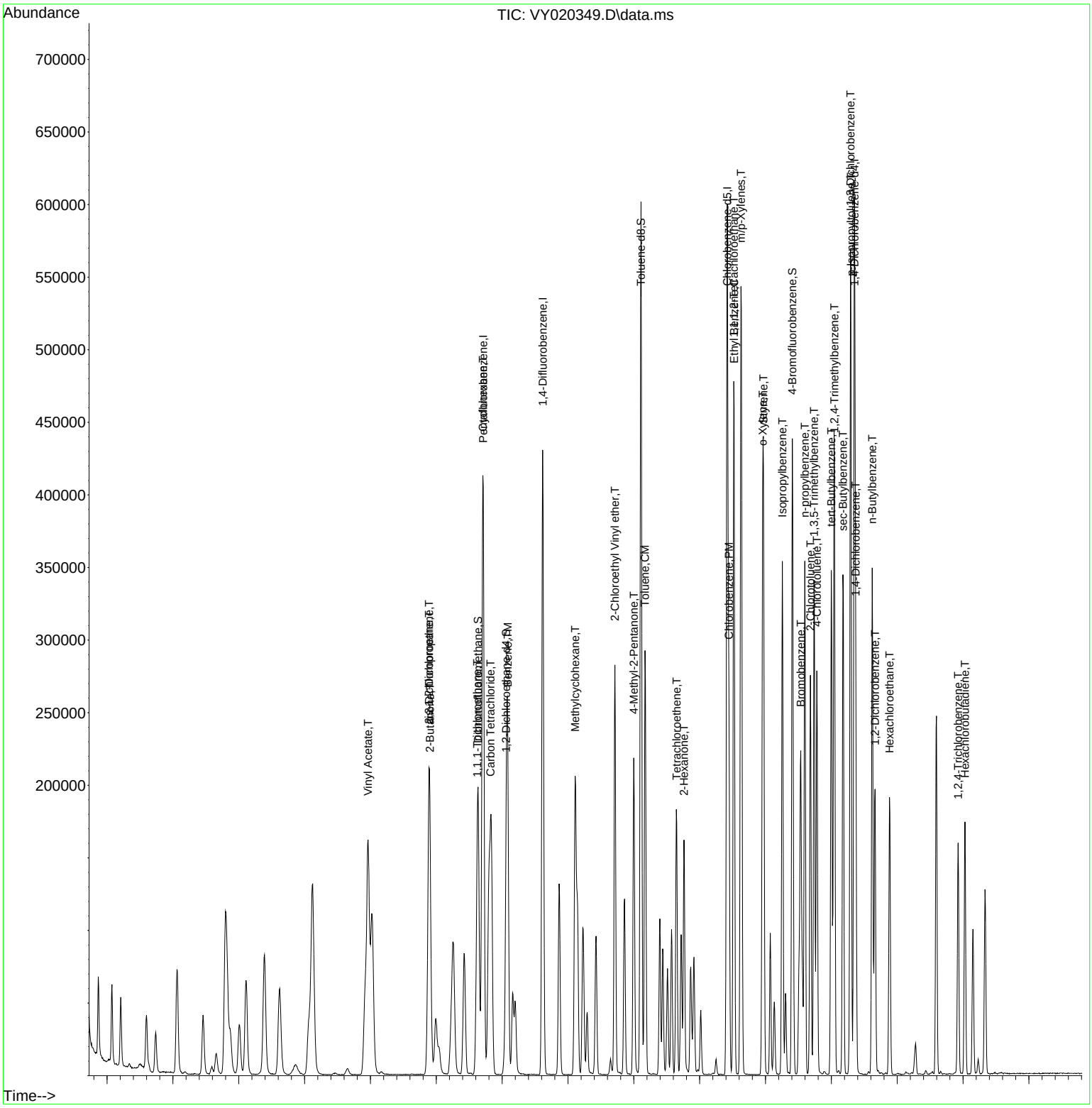
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112024\
Data File : VY020349.D
Acq On : 20 Nov 2024 10:53
Operator : SY/MD
Sample : VY1120SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 00:43:02 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 :**
VY1120SBS01

**Manual Integrations APPROVED**

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

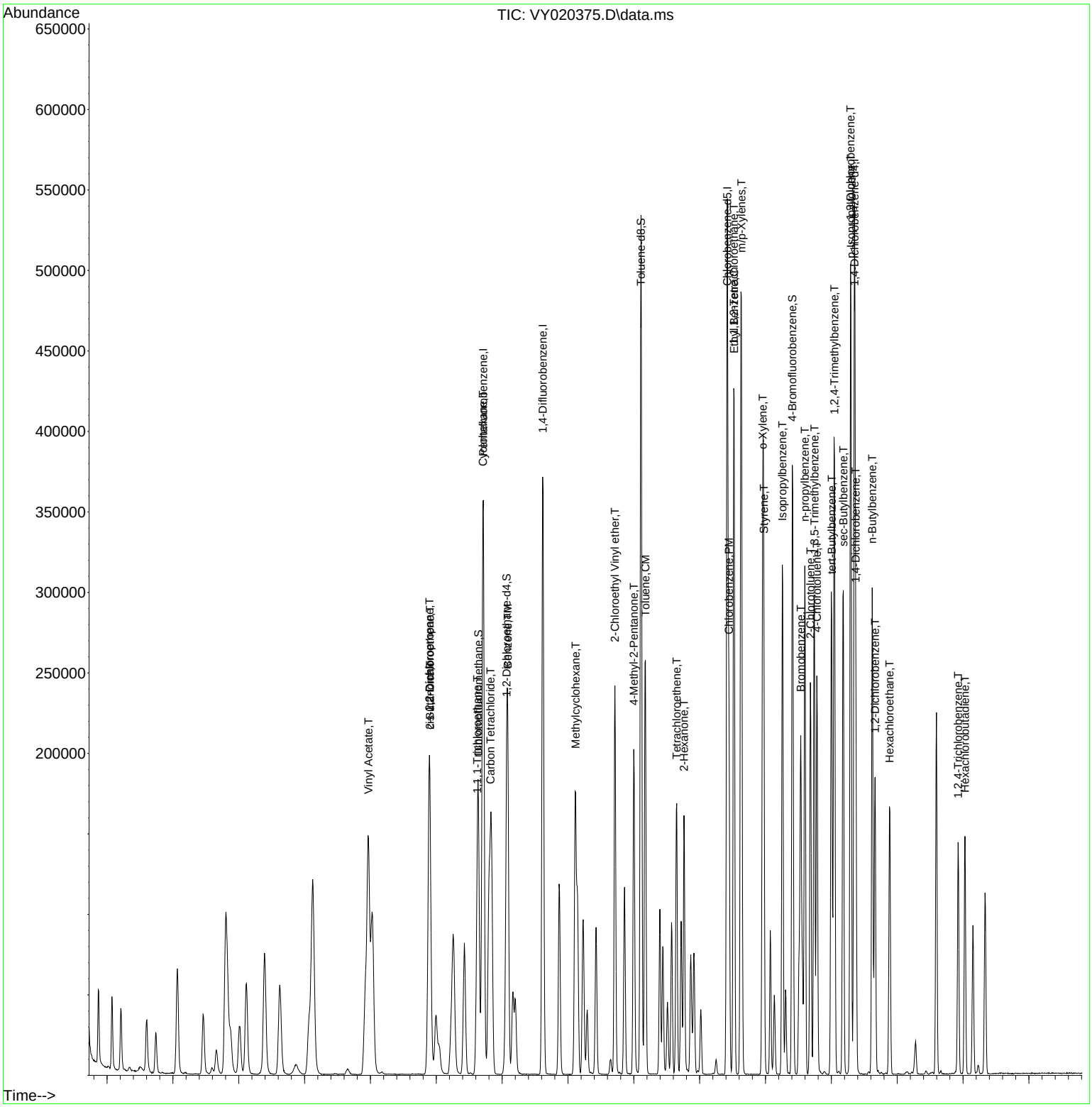
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112124\
Data File : VY020375.D
Acq On : 21 Nov 2024 10:39
Operator : SY/MD
Sample : VY1121SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080061.D
Acq On : 18 Nov 2024 11:22
Operator : RP/MD
Sample : VD1118SBSD01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 04:45:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBSD01

**Manual Integrations APPROVED**
Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 185362 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.781 | 114 | 285036 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.581 | 117 | 278035 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152 | 143766 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.234 | 65 | 91520 | 47.954 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 95.900% | | | |
| 35) Dibromofluoromethane | 7.804 | 113 | 95269 | 50.221 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.440% | | | |
| 50) Toluene-d8 | 10.269 | 98 | 357642 | 50.021 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 100.040% | | | |
| 62) 4-Bromofluorobenzene | 12.569 | 95 | 118231 | 50.402 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 100.800% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 27711 | 18.627 | ug/l | 96 |
| 3) Chloromethane | 2.146 | 50 | 18864 | 17.243 | ug/l | 98 |
| 4) Vinyl Chloride | 2.287 | 62 | 22305 | 17.859 | ug/l | 95 |
| 5) Bromomethane | 2.681 | 94 | 23735 | 17.107 | ug/l | 99 |
| 6) Chloroethane | 2.828 | 64 | 15612 | 17.487 | ug/l | 94 |
| 7) Trichlorofluoromethane | 3.175 | 101 | 60472 | 19.713 | ug/l | 98 |
| 8) Diethyl Ether | 3.593 | 74 | 18549 | 20.713 | ug/l | 91 |
| 9) 1,1,2-Trichlorotrifluo... | 3.963 | 101 | 40273 | 21.016 | ug/l | 96 |
| 10) Methyl Iodide | 4.163 | 142 | 44539 | 18.777 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.058 | 59 | 11246 | 113.233 | ug/l # | 89 |
| 12) 1,1-Dichloroethene | 3.940 | 96 | 38601 | 20.097 | ug/l | 92 |
| 13) Acrolein | 3.805 | 56 | 19112 | 100.288 | ug/l | 97 |
| 14) Allyl chloride | 4.569 | 41 | 52572 | 19.309 | ug/l | 97 |
| 15) Acrylonitrile | 5.263 | 53 | 40436 | 101.641 | ug/l | 99 |
| 16) Acetone | 4.016 | 43 | 46288 | 111.783 | ug/l | 96 |
| 17) Carbon Disulfide | 4.269 | 76 | 121638 | 19.667 | ug/l | 98 |
| 18) Methyl Acetate | 4.563 | 43 | 19954 | 21.728 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.322 | 73 | 81837 | 20.885 | ug/l | 97 |
| 20) Methylene Chloride | 4.811 | 84 | 47572 | 21.422 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.310 | 96 | 42829 | 20.171 | ug/l # | 81 |
| 22) Diisopropyl ether | 6.216 | 45 | 113961 | 20.670 | ug/l # | 98 |
| 23) Vinyl Acetate | 6.157 | 43 | 321354 | 101.736 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.116 | 63 | 74136 | 20.218 | ug/l | 98 |
| 25) 2-Butanone | 7.087 | 43 | 55369 | 102.323 | ug/l | 95 |
| 26) 2,2-Dichloropropane | 7.075 | 77 | 63815 | 20.021 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.081 | 96 | 49363 | 20.258 | ug/l | 95 |
| 28) Bromochloromethane | 7.428 | 49 | 29656 | 18.174 | ug/l | 89 |
| 29) Tetrahydrofuran | 7.446 | 42 | 31093 | 104.899 | ug/l | 97 |
| 30) Chloroform | 7.593 | 83 | 81001 | 20.968 | ug/l | 100 |
| 31) Cyclohexane | 7.881 | 56 | 59148 | 19.032 | ug/l # | 84 |
| 32) 1,1,1-Trichloroethane | 7.793 | 97 | 68251 | 20.645 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 52869 | 20.382 | ug/l | 99 |
| 37) Ethyl Acetate | 7.169 | 43 | 25388 | 22.770 | ug/l | 96 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 60997 | 21.523 | ug/l | 98 |
| 39) Methylcyclohexane | 9.275 | 83 | 60473 | 19.581 | ug/l | 96 |
| 40) Benzene | 8.252 | 78 | 167798 | 20.753 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080061.D
Acq On : 18 Nov 2024 11:22
Operator : RP/MD
Sample : VD1118SBSD01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 04:45:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBSD01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.404 | 41 | 12073 | 20.065 ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.322 | 62 | 46347 | 22.149 ug/l | | 99 |
| 43) Isopropyl Acetate | 8.363 | 43 | 44072 | 21.806 ug/l | | 96 |
| 44) Trichloroethene | 9.028 | 130 | 42979 | 20.542 ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.304 | 63 | 40991 | 21.096 ug/l | | 99 |
| 46) Dibromomethane | 9.399 | 93 | 24900 | 22.032 ug/l | | 98 |
| 47) Bromodichloromethane | 9.587 | 83 | 61171 | 21.624 ug/l | # | 97 |
| 48) Methyl methacrylate | 9.381 | 41 | 19015 | 19.707 ug/l | | 90 |
| 49) 1,4-Dioxane | 9.387 | 88 | 5756 | 555.192 ug/l | | 93 |
| 51) 4-Methyl-2-Pentanone | 10.157 | 43 | 117209 | 114.304 ug/l | | 99 |
| 52) Toluene | 10.334 | 92 | 107229 | 21.341 ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 10.551 | 75 | 52751 | 20.919 ug/l | | 94 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 65369 | 21.896 ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 33823 | 22.621 ug/l | | 95 |
| 56) Ethyl methacrylate | 10.598 | 69 | 38127 | 21.929 ug/l | | 94 |
| 57) 1,3-Dichloropropane | 10.875 | 76 | 51094 | 21.006 ug/l | | 97 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 64512 | 98.103 ug/l | | 93 |
| 59) 2-Hexanone | 10.922 | 43 | 80591 | 106.850 ug/l | | 96 |
| 60) Dibromochloromethane | 11.075 | 129 | 45076 | 23.421 ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.175 | 107 | 31528 | 22.364 ug/l | | 95 |
| 64) Tetrachloroethene | 10.810 | 164 | 40493 | 20.451 ug/l | | 97 |
| 65) Chlorobenzene | 11.604 | 112 | 122987 | 20.278 ug/l | | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 11.675 | 131 | 43662 | 20.681 ug/l | | 96 |
| 67) Ethyl Benzene | 11.681 | 91 | 196392 | 19.298 ug/l | | 98 |
| 68) m/p-Xylenes | 11.793 | 106 | 157181 | 39.521 ug/l | | 100 |
| 69) o-Xylene | 12.122 | 106 | 70536 | 19.730 ug/l | | 95 |
| 70) Styrene | 12.134 | 104 | 130977 | 20.526 ug/l | | 97 |
| 71) Bromoform | 12.298 | 173 | 26906 | 21.615 ug/l | # | 96 |
| 73) Isopropylbenzene | 12.422 | 105 | 184445 | 19.894 ug/l | | 100 |
| 74) N-amyl acetate | 12.234 | 43 | 43046 | 21.072 ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83 | 38953 | 21.862 ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 12.722 | 75 | 30446m | 23.983 ug/l | | |
| 77) Bromobenzene | 12.698 | 156 | 48840 | 20.271 ug/l | | 100 |
| 78) n-propylbenzene | 12.763 | 91 | 230120 | 20.084 ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.845 | 91 | 136085 | 20.253 ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 159585 | 20.338 ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 13854 | 22.335 ug/l | | 93 |
| 82) 4-Chlorotoluene | 12.945 | 91 | 146095 | 20.339 ug/l | | 97 |
| 83) tert-Butylbenzene | 13.163 | 119 | 129416 | 19.044 ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.210 | 105 | 164138 | 20.823 ug/l | | 99 |
| 85) sec-Butylbenzene | 13.345 | 105 | 205507 | 20.459 ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.457 | 119 | 175424 | 20.661 ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.457 | 146 | 100617 | 20.622 ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.539 | 146 | 100511 | 20.512 ug/l | | 98 |
| 89) n-Butylbenzene | 13.787 | 91 | 159355 | 19.949 ug/l | | 99 |
| 90) Hexachloroethane | 14.051 | 117 | 37599 | 20.657 ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.828 | 146 | 88869 | 20.889 ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75 | 6099 | 22.637 ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 52820 | 19.799 ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.198 | 225 | 29372 | 20.371 ug/l | | 98 |
| 95) Naphthalene | 15.328 | 128 | 93898 | 20.722 ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.516 | 180 | 48809 | 20.834 ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080061.D
Acq On : 18 Nov 2024 11:22
Operator : RP/MD
Sample : VD1118SBSD01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 04:45:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBSD01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

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

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

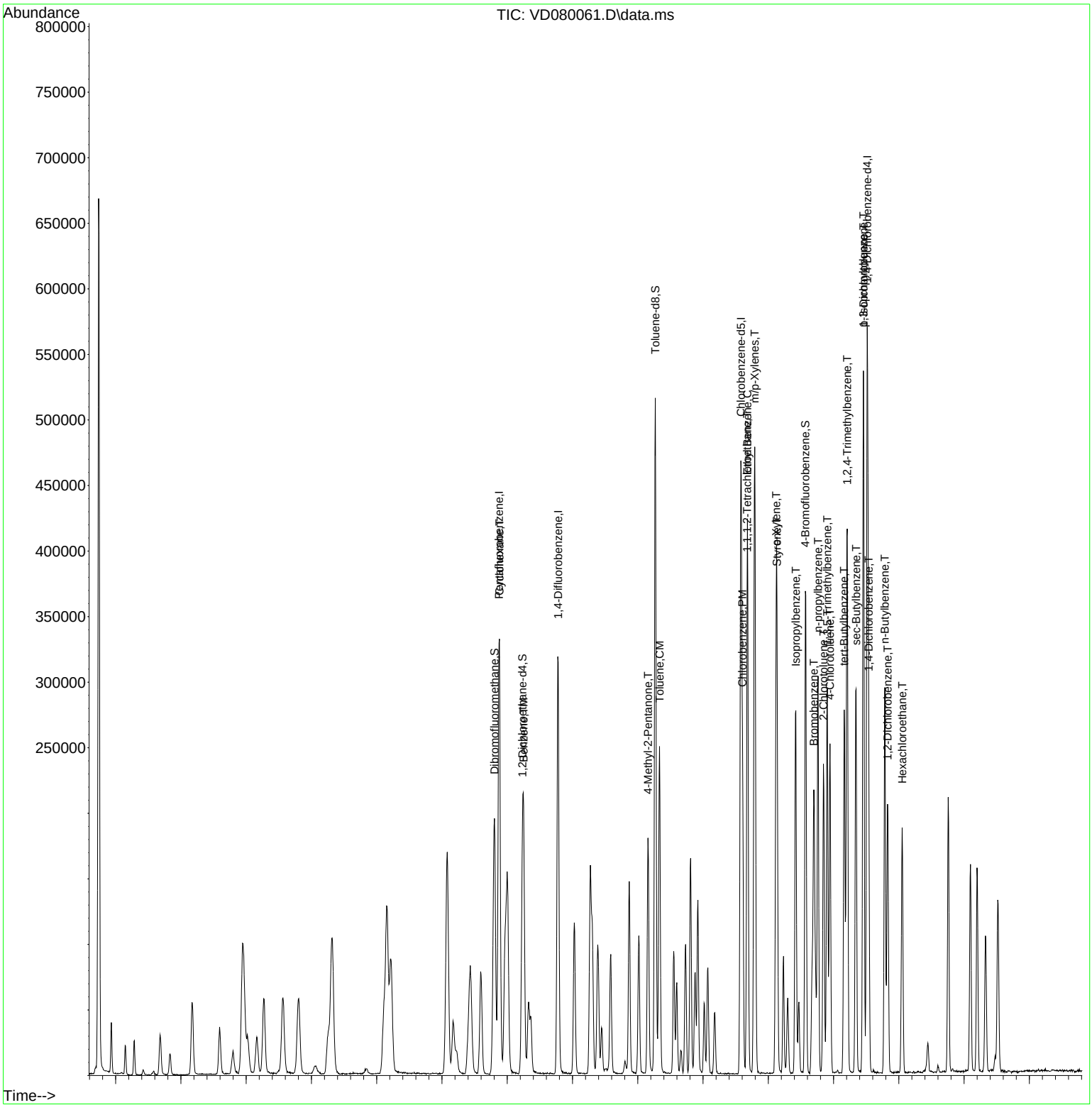
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111824\
Data File : VD080061.D
Acq On : 18 Nov 2024 11:22
Operator : RP/MD
Sample : VD1118SBSD01
Misc : 5.00G/5ml/MSVOA_D/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 04:45:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D111524S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 15 16:25:47 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD1118SBSD01

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024



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# Manual Integration Report

| Sequence: | VD111524 | Instrument | MSVOA_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICV050 | VD080017.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:00 PM | SAM | 11/18/2024 3:16:37 PM | Peak Integrated by Software |
| VSTDICC005 | VD080020.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:02 PM | SAM | 11/18/2024 3:16:39 PM | Peak Integrated by Software |
| VSTDICC005 | VD080020.D | Tert butyl alcohol | MMDadoda | 11/18/2024 3:13:02 PM | SAM | 11/18/2024 3:16:39 PM | Peak Integrated by Software |
| VSTDICC010 | VD080021.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:04 PM | SAM | 11/18/2024 3:16:41 PM | Peak Integrated by Software |
| VSTDICC020 | VD080022.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:06 PM | SAM | 11/18/2024 3:16:42 PM | Peak Integrated by Software |
| VSTDICCC050 | VD080023.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:07 PM | SAM | 11/18/2024 3:16:45 PM | Peak Integrated by Software |
| VSTDICC100 | VD080024.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:09 PM | SAM | 11/18/2024 3:16:46 PM | Peak Integrated by Software |
| VSTDICC150 | VD080025.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:11 PM | SAM | 11/18/2024 3:16:48 PM | Peak Integrated by Software |
| VSTDICV050 | VD080026.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:13 PM | SAM | 11/18/2024 3:16:50 PM | Peak Integrated by Software |
| VSTDCCC050 | VD080036.D | 1,2,3-Trichloropropane | MMDadoda | 11/18/2024 3:13:20 PM | SAM | 11/18/2024 3:16:56 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VD111824 | Instrument | MSVOA_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VD080058.D | 1,2,3-Trichloropropane | Romaben | 11/19/2024 11:04:19 AM | MMDadoda | 11/19/2024 1:21:28 PM | Peak Integrated by Software |
| VD1118SBS01 | VD080060.D | 1,2,3-Trichloropropane | Romaben | 11/19/2024 11:04:25 AM | MMDadoda | 11/19/2024 1:21:28 PM | Peak Integrated by Software |
| VD1118SBSD01 | VD080061.D | 1,2,3-Trichloropropane | Romaben | 11/19/2024 11:04:30 AM | MMDadoda | 11/19/2024 1:21:29 PM | Peak Integrated by Software |
| VSTDCCC050 | VD080080.D | 1,2,3-Trichloropropane | Romaben | 11/19/2024 11:04:35 AM | MMDadoda | 11/19/2024 1:21:31 PM | 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 |

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# Manual Integration Report

| Sequence: | VY112024 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY020347.D | 1,2,3-Trichloropropane | MMDadoda | 11/21/2024 3:23:29 PM | SAM | 11/21/2024 3:24:44 PM | Peak Integrated by Software |
| VY1120SBS01 | VY020349.D | 1,2,3-Trichloropropane | MMDadoda | 11/21/2024 3:23:29 PM | SAM | 11/21/2024 3:24:43 PM | Peak Integrated by Software |
| VSTDCCC050 | VY020371.D | 1,2,3-Trichloropropane | MMDadoda | 11/21/2024 3:23:33 PM | SAM | 11/21/2024 3:24:46 PM | Peak Integrated by Software |

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# 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 |
| 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 |

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Fax : 908 789 8922



**Instrument ID: MSVOA_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # VD111524

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/18/2024 3:13:25 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/18/2024 3:17:20 PM | | |
| SubDirectory | VD111524 | HP Acquire Method | | HP Processing Method | 82d111424s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131514 |
| Initial Calibration Stds | VP131516,VP131518,VP131520,VP131522,VP131524,VP131526 |
| CCC | VP131535,VP131536 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | VP131528 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VD080010.D | 14 Nov 2024 17:14 | RP/MD | Not Ok |
| 2 | VSTDICC005 | VD080011.D | 14 Nov 2024 18:02 | RP/MD | Not Ok |
| 3 | VSTDICC010 | VD080012.D | 14 Nov 2024 18:29 | RP/MD | Not Ok |
| 4 | VSTDICC020 | VD080013.D | 14 Nov 2024 18:56 | RP/MD | Not Ok |
| 5 | VSTDICCC050 | VD080014.D | 14 Nov 2024 19:22 | RP/MD | Not Ok |
| 6 | VSTDICC100 | VD080015.D | 14 Nov 2024 19:49 | RP/MD | Not Ok |
| 7 | VSTDICC150 | VD080016.D | 14 Nov 2024 20:16 | RP/MD | Not Ok |
| 8 | VSTDICV050 | VD080017.D | 14 Nov 2024 20:43 | RP/MD | Not Ok |
| 9 | VIBLK | VD080018.D | 14 Nov 2024 21:36 | RP/MD | Not Ok |
| 10 | BFB | VD080019.D | 15 Nov 2024 09:14 | RP/MD | Ok |
| 11 | VSTDICC005 | VD080020.D | 15 Nov 2024 10:04 | RP/MD | Ok,M |
| 12 | VSTDICC010 | VD080021.D | 15 Nov 2024 10:31 | RP/MD | Ok,M |
| 13 | VSTDICC020 | VD080022.D | 15 Nov 2024 10:58 | RP/MD | Ok,M |
| 14 | VSTDICCC050 | VD080023.D | 15 Nov 2024 11:24 | RP/MD | Ok,M |
| 15 | VSTDICC100 | VD080024.D | 15 Nov 2024 11:51 | RP/MD | Ok,M |
| 16 | VSTDICC150 | VD080025.D | 15 Nov 2024 12:18 | RP/MD | Ok,M |
| 17 | VSTDICV050 | VD080026.D | 15 Nov 2024 15:44 | RP/MD | Ok,M |
| 18 | VD1115SBL01 | VD080027.D | 15 Nov 2024 16:19 | RP/MD | Ok |
| 19 | VD1115SBS01 | VD080028.D | 15 Nov 2024 16:46 | RP/MD | Ok,M |
| 20 | P4837-03 | VD080029.D | 15 Nov 2024 17:13 | RP/MD | Ok |
| 21 | P4836-03 | VD080030.D | 15 Nov 2024 17:40 | RP/MD | ReRun |

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Fax : 908 789 8922



**Instrument ID: MSVOA_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # VD111524

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/18/2024 3:13:25 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/18/2024 3:17:20 PM | | |
| SubDirectory | VD111524 | HP Acquire Method | | HP Processing Method | 82d111424s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131514 |
| Initial Calibration Stds | VP131516,VP131518,VP131520,VP131522,VP131524,VP131526 |
| CCC | VP131535,VP131536 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | VP131528 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P4835-03 | VD080031.D | 15 Nov 2024 18:07 | RP/MD | Ok |
| 23 | P4834-03 | VD080032.D | 15 Nov 2024 18:34 | RP/MD | ReRun |
| 24 | P4838-03 | VD080033.D | 15 Nov 2024 19:01 | RP/MD | ReRun |
| 25 | P4833-03 | VD080034.D | 15 Nov 2024 19:28 | RP/MD | Not Ok |
| 26 | VD1115SBSD01 | VD080035.D | 15 Nov 2024 19:55 | RP/MD | Ok,M |
| 27 | VSTDCCC050 | VD080036.D | 15 Nov 2024 20:22 | RP/MD | Ok,M |

M : Manual Integration

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



**Instrument ID: MSVOA_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # VD111824

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/19/2024 1:21:34 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/19/2024 1:22:24 PM | | |
| SubDirectory | VD111824 | HP Acquire Method | MSVOA_D | HP Processing Method | 82d111424s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131590 |
| Initial Calibration Stds | |
| CCC | VP131593,VP131594 |
| 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 | VD080057.D | 18 Nov 2024 09:21 | RP/MD | Ok |
| 2 | VSTDCCC050 | VD080058.D | 18 Nov 2024 09:51 | RP/MD | Ok,M |
| 3 | VD1118SBL01 | VD080059.D | 18 Nov 2024 10:27 | RP/MD | Ok |
| 4 | VD1118SBS01 | VD080060.D | 18 Nov 2024 10:55 | RP/MD | Ok,M |
| 5 | VD1118SBSD01 | VD080061.D | 18 Nov 2024 11:22 | RP/MD | Ok,M |
| 6 | P4825-01RE | VD080062.D | 18 Nov 2024 12:08 | RP/MD | Confirms |
| 7 | P4824-01RE | VD080063.D | 18 Nov 2024 12:35 | RP/MD | Confirms |
| 8 | P4857-03RE | VD080064.D | 18 Nov 2024 13:02 | RP/MD | Confirms |
| 9 | P4859-01 | VD080065.D | 18 Nov 2024 13:30 | RP/MD | Ok |
| 10 | P4869-01 | VD080066.D | 18 Nov 2024 13:57 | RP/MD | Ok |
| 11 | P4848-01 | VD080067.D | 18 Nov 2024 14:24 | RP/MD | ReRun |
| 12 | P4852-01 | VD080068.D | 18 Nov 2024 14:51 | RP/MD | ReRun |
| 13 | P4852-02 | VD080069.D | 18 Nov 2024 15:18 | RP/MD | ReRun |
| 14 | P4852-03 | VD080070.D | 18 Nov 2024 15:45 | RP/MD | ReRun |
| 15 | P4850-01 | VD080071.D | 18 Nov 2024 16:12 | RP/MD | Ok |
| 16 | P4860-01 | VD080072.D | 18 Nov 2024 16:39 | RP/MD | Ok |
| 17 | P4860-02 | VD080073.D | 18 Nov 2024 17:06 | RP/MD | Ok |
| 18 | P4860-03 | VD080074.D | 18 Nov 2024 17:33 | RP/MD | ReRun |
| 19 | P4860-04 | VD080075.D | 18 Nov 2024 18:00 | RP/MD | Ok |
| 20 | P4860-05 | VD080076.D | 18 Nov 2024 18:28 | RP/MD | Ok |
| 21 | P4860-06 | VD080077.D | 18 Nov 2024 18:55 | RP/MD | Not Ok |

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**Instrument ID: MSVOA_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # VD111824

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/19/2024 1:21:34 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/19/2024 1:22:24 PM | | | | |
| SubDirectory | VD111824 | HP Acquire Method | MSVOA_D | HP Processing Method | 82d111424s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131590 |
| Initial Calibration Stds | |
| CCC | VP131593,VP131594 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P4860-07 | VD080078.D | 18 Nov 2024 19:22 | RP/MD | Ok |
| 23 | P4860-08 | VD080079.D | 18 Nov 2024 19:49 | RP/MD | Ok |
| 24 | VSTDCCC050 | VD080080.D | 18 Nov 2024 20:16 | RP/MD | Ok,M |

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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 |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY112024

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/21/2024 3:23:29 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/21/2024 3:24:50 PM | | |
| SubDirectory | VY112024 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y111924s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131659 |
| Initial Calibration Stds | |
| CCC | VP131661,VP131662 |
| 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 | VY020346.D | 20 Nov 2024 08:23 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY020347.D | 20 Nov 2024 09:34 | SY/MD | Ok,M |
| 3 | VY1120SBL01 | VY020348.D | 20 Nov 2024 10:07 | SY/MD | Ok |
| 4 | VY1120SBS01 | VY020349.D | 20 Nov 2024 10:53 | SY/MD | Ok,M |
| 5 | VY1120SBSD01 | VY020350.D | 20 Nov 2024 11:16 | SY/MD | Ok,M |
| 6 | P4910-07 | VY020351.D | 20 Nov 2024 11:57 | SY/MD | ReRun |
| 7 | P4910-03 | VY020352.D | 20 Nov 2024 12:20 | SY/MD | ReRun |
| 8 | P4929-01 | VY020353.D | 20 Nov 2024 12:44 | SY/MD | ReRun |
| 9 | P4924-03 | VY020354.D | 20 Nov 2024 13:07 | SY/MD | Ok |
| 10 | P4916-03 | VY020355.D | 20 Nov 2024 13:30 | SY/MD | Ok |
| 11 | P4916-07 | VY020356.D | 20 Nov 2024 13:54 | SY/MD | Ok |
| 12 | P4916-11 | VY020357.D | 20 Nov 2024 14:17 | SY/MD | Ok |
| 13 | P4909-02 | VY020358.D | 20 Nov 2024 14:41 | SY/MD | ReRun |
| 14 | P4908-01 | VY020359.D | 20 Nov 2024 15:04 | SY/MD | Ok |
| 15 | P4908-03 | VY020360.D | 20 Nov 2024 15:27 | SY/MD | ReRun |
| 16 | P4870-03 | VY020361.D | 20 Nov 2024 15:51 | SY/MD | ReRun |
| 17 | P4870-12 | VY020362.D | 20 Nov 2024 16:14 | SY/MD | ReRun |
| 18 | P4870-09 | VY020363.D | 20 Nov 2024 16:38 | SY/MD | Ok |
| 19 | P4870-06 | VY020364.D | 20 Nov 2024 17:01 | SY/MD | ReRun |
| 20 | P4849-01 | VY020365.D | 20 Nov 2024 17:24 | SY/MD | Ok |
| 21 | P4887-04 | VY020366.D | 20 Nov 2024 17:48 | SY/MD | Ok |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY112024

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/21/2024 3:23:29 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/21/2024 3:24:50 PM | | | | |
| SubDirectory | VY112024 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y111924s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131659 |
| Initial Calibration Stds | |
| CCC | VP131661,VP131662 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P4887-08 | VY020367.D | 20 Nov 2024 18:11 | SY/MD | Ok |
| 23 | P4860-03 | VY020368.D | 20 Nov 2024 18:35 | SY/MD | Ok |
| 24 | P4860-06 | VY020369.D | 20 Nov 2024 18:58 | SY/MD | Ok |
| 25 | P4768-04 | VY020370.D | 20 Nov 2024 19:22 | SY/MD | Ok |
| 26 | VSTDCCC050 | VY020371.D | 20 Nov 2024 19:44 | 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 | 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 |

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**Instrument ID:** MSVOA_D

## Daily Analysis Runlog For Sequence/QCBatch ID # VD111524

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/18/2024 3:13:25 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/18/2024 3:17:20 PM | | |
| SubDirectory | VD111524 | HP Acquire Method | | HP Processing Method | 82d111424s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131514 |
| Initial Calibration Stds | VP131516,VP131518,VP131520,VP131522,VP131524,VP131526 |
| CCC | VP131535,VP131536 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | VP131528 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VD080010.D | 14 Nov 2024 17:14 | Method failed for Comp. #05 | RP/MD | Not Ok |
| 2 | VSTDICC005 | VSTDICC005 | VD080011.D | 14 Nov 2024 18:02 | %D failed for Comp. #16 in 05PPB | RP/MD | Not Ok |
| 3 | VSTDICC010 | VSTDICC010 | VD080012.D | 14 Nov 2024 18:29 | | RP/MD | Not Ok |
| 4 | VSTDICC020 | VSTDICC020 | VD080013.D | 14 Nov 2024 18:56 | | RP/MD | Not Ok |
| 5 | VSTDICCC050 | VSTDICCC050 | VD080014.D | 14 Nov 2024 19:22 | Comp. #10,16 are on Quadratic Regression | RP/MD | Not Ok |
| 6 | VSTDICC100 | VSTDICC100 | VD080015.D | 14 Nov 2024 19:49 | | RP/MD | Not Ok |
| 7 | VSTDICC150 | VSTDICC150 | VD080016.D | 14 Nov 2024 20:16 | | RP/MD | Not Ok |
| 8 | VSTDICV050 | ICVVD111524 | VD080017.D | 14 Nov 2024 20:43 | ICV Failed for comp. #13 | RP/MD | Not Ok |
| 9 | VIBLK | VIBLK | VD080018.D | 14 Nov 2024 21:36 | | RP/MD | Not Ok |
| 10 | BFB | BFB | VD080019.D | 15 Nov 2024 09:14 | | RP/MD | Ok |
| 11 | VSTDICC005 | VSTDICC005 | VD080020.D | 15 Nov 2024 10:04 | QR @ comp #05 | RP/MD | Ok,M |
| 12 | VSTDICC010 | VSTDICC010 | VD080021.D | 15 Nov 2024 10:31 | %D fail for comp #05 in 10PPB | RP/MD | Ok,M |
| 13 | VSTDICC020 | VSTDICC020 | VD080022.D | 15 Nov 2024 10:58 | | RP/MD | Ok,M |
| 14 | VSTDICCC050 | VSTDICCC050 | VD080023.D | 15 Nov 2024 11:24 | | RP/MD | Ok,M |
| 15 | VSTDICC100 | VSTDICC100 | VD080024.D | 15 Nov 2024 11:51 | | RP/MD | Ok,M |
| 16 | VSTDICC150 | VSTDICC150 | VD080025.D | 15 Nov 2024 12:18 | | RP/MD | Ok,M |
| 17 | VSTDICV050 | ICVVD111524 | VD080026.D | 15 Nov 2024 15:44 | | RP/MD | Ok,M |

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**Instrument ID:** MSVOA_D

## Daily Analysis Runlog For Sequence/QCBatch ID # VD111524

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/18/2024 3:13:25 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/18/2024 3:17:20 PM | | |
| SubDirectory | VD111524 | HP Acquire Method | | HP Processing Method | 82d111424s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131514 |
| Initial Calibration Stds | VP131516,VP131518,VP131520,VP131522,VP131524,VP131526 |
| CCC | VP131535,VP131536 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | VP131528 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | VD1115SBL01 | VBLK21 | VD080027.D | 15 Nov 2024 16:19 | | RP/MD | Ok |
| 19 | VD1115SBS01 | VD1115SBS01 | VD080028.D | 15 Nov 2024 16:46 | | RP/MD | Ok,M |
| 20 | P4837-03 | 3TRK-STONE | VD080029.D | 15 Nov 2024 17:13 | vial-A | RP/MD | Ok |
| 21 | P4836-03 | T3-STONE | VD080030.D | 15 Nov 2024 17:40 | ISTD Fail vial-A | RP/MD | ReRun |
| 22 | P4835-03 | 345-2-STONE | VD080031.D | 15 Nov 2024 18:07 | vial-A | RP/MD | Ok |
| 23 | P4834-03 | SLP-1-STONE | VD080032.D | 15 Nov 2024 18:34 | Internal Standard and Surrogate Fail VIAL- A | RP/MD | ReRun |
| 24 | P4838-03 | T1-STONE | VD080033.D | 15 Nov 2024 19:01 | ISTD Fail :Vial- A | RP/MD | ReRun |
| 25 | P4833-03 | MH-731-VOC | VD080034.D | 15 Nov 2024 19:28 | Internal not spike; Surrogate fail Vial- A | RP/MD | Not Ok |
| 26 | VD1115SBSD01 | VD1115SBSD01 | VD080035.D | 15 Nov 2024 19:55 | | RP/MD | Ok,M |
| 27 | VSTDCCC050 | VSTD05021 | VD080036.D | 15 Nov 2024 20:22 | | RP/MD | Ok,M |

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**Instrument ID:** MSVOA_D

## Daily Analysis Runlog For Sequence/QCBatch ID # VD111824

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/19/2024 1:21:34 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/19/2024 1:22:24 PM | | | | |
| SubDirectory | VD111824 | HP Acquire Method | MSVOA_D | HP Processing Method | 82d111424s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131590 |
| Initial Calibration Stds | |
| CCC | VP131593,VP131594 |
| 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 | VD080057.D | 18 Nov 2024 09:21 | | RP/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VD080058.D | 18 Nov 2024 09:51 | | RP/MD | Ok,M |
| 3 | VD1118SBL01 | VD1118SBL01 | VD080059.D | 18 Nov 2024 10:27 | | RP/MD | Ok |
| 4 | VD1118SBS01 | VD1118SBS01 | VD080060.D | 18 Nov 2024 10:55 | | RP/MD | Ok,M |
| 5 | VD1118SBSD01 | VD1118SBSD01 | VD080061.D | 18 Nov 2024 11:22 | | RP/MD | Ok,M |
| 6 | P4825-01RE | STOCK-PILERE | VD080062.D | 18 Nov 2024 12:08 | Internal Standard Fail ;Surrogate fail VIAL- B | RP/MD | Confirms |
| 7 | P4824-01RE | T-20RE | VD080063.D | 18 Nov 2024 12:35 | Internal Standard Fail ;Surrogate fail VIAL- B | RP/MD | Confirms |
| 8 | P4857-03RE | VNJ-226RE | VD080064.D | 18 Nov 2024 13:02 | ISTD Fail vial-B | RP/MD | Confirms |
| 9 | P4859-01 | NB-08-111424 | VD080065.D | 18 Nov 2024 13:30 | vial-B | RP/MD | Ok |
| 10 | P4869-01 | EO-02-11152024 | VD080066.D | 18 Nov 2024 13:57 | vial-A | RP/MD | Ok |
| 11 | P4848-01 | TP-1 | VD080067.D | 18 Nov 2024 14:24 | Internal Standard Fail ;Surrogate fail VIAL- A | RP/MD | ReRun |
| 12 | P4852-01 | COMP-1 | VD080068.D | 18 Nov 2024 14:51 | Internal Standard Fail ;Surrogate fail VIAL- A | RP/MD | ReRun |
| 13 | P4852-02 | COMP-2 | VD080069.D | 18 Nov 2024 15:18 | Internal Standard Fail ;Surrogate fail VIAL- A | RP/MD | ReRun |
| 14 | P4852-03 | COMP-3 | VD080070.D | 18 Nov 2024 15:45 | Internal Standard Fail ;Surrogate fail VIAL- A | RP/MD | ReRun |
| 15 | P4850-01 | OR-03-11142024 | VD080071.D | 18 Nov 2024 16:12 | vial-A | RP/MD | Ok |
| 16 | P4860-01 | DUP-01 | VD080072.D | 18 Nov 2024 16:39 | vial-A | RP/MD | Ok |

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**Instrument ID:** MSVOA_D

## Daily Analysis Runlog For Sequence/QCBatch ID # VD111824

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/19/2024 1:21:34 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/19/2024 1:22:24 PM | | |
| SubDirectory | VD111824 | HP Acquire Method | MSVOA_D | HP Processing Method | 82d111424s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131590 |
| Initial Calibration Stds | |
| CCC | VP131593,VP131594 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 17 | P4860-02 | PH2-BOT-001 | VD080073.D | 18 Nov 2024 17:06 | vial-A | RP/MD | Ok |
| 18 | P4860-03 | PH2-BOT-002 | VD080074.D | 18 Nov 2024 17:33 | Internal Standard Fail vial-A | RP/MD | ReRun |
| 19 | P4860-04 | PH2-BOT-003 | VD080075.D | 18 Nov 2024 18:00 | vial-A | RP/MD | Ok |
| 20 | P4860-05 | PH2-BOT-004 | VD080076.D | 18 Nov 2024 18:28 | vial-A | RP/MD | Ok |
| 21 | P4860-06 | PH2-BOT-009 | VD080077.D | 18 Nov 2024 18:55 | vial-A comp.#81 is out of range | RP/MD | Not Ok |
| 22 | P4860-07 | PH2-BOT-008 | VD080078.D | 18 Nov 2024 19:22 | vial-A | RP/MD | Ok |
| 23 | P4860-08 | PH2-BOT-007 | VD080079.D | 18 Nov 2024 19:49 | vial-A | RP/MD | Ok |
| 24 | VSTDCCC050 | VSTDCCC050EC | VD080080.D | 18 Nov 2024 20:16 | | RP/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 # VY112024

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/21/2024 3:23:29 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/21/2024 3:24:50 PM | | |
| SubDirectory | VY112024 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y111924s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131659 |
| Initial Calibration Stds | |
| CCC | VP131661,VP131662 |
| 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 | VY020346.D | 20 Nov 2024 08:23 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY020347.D | 20 Nov 2024 09:34 | | SY/MD | Ok,M |
| 3 | VY1120SBL01 | VY1120SBL01 | VY020348.D | 20 Nov 2024 10:07 | | SY/MD | Ok |
| 4 | VY1120SBS01 | VY1120SBS01 | VY020349.D | 20 Nov 2024 10:53 | | SY/MD | Ok,M |
| 5 | VY1120SBSD01 | VY1120SBSD01 | VY020350.D | 20 Nov 2024 11:16 | | SY/MD | Ok,M |
| 6 | P4910-07 | MH-759-VOC | VY020351.D | 20 Nov 2024 11:57 | Internal Standard Fail vial-A | SY/MD | ReRun |
| 7 | P4910-03 | MH-COTTAGE-VOC | VY020352.D | 20 Nov 2024 12:20 | Internal Standard Fail vial-A | SY/MD | ReRun |
| 8 | P4929-01 | ARS520 | VY020353.D | 20 Nov 2024 12:44 | Internal Standard Fail vial-A | SY/MD | ReRun |
| 9 | P4924-03 | MH-4-VOC | VY020354.D | 20 Nov 2024 13:07 | vial-A | SY/MD | Ok |
| 10 | P4916-03 | TP-1-VOC | VY020355.D | 20 Nov 2024 13:30 | vial-A | SY/MD | Ok |
| 11 | P4916-07 | TP-2-VOC | VY020356.D | 20 Nov 2024 13:54 | vial-A | SY/MD | Ok |
| 12 | P4916-11 | TP-3-VOC | VY020357.D | 20 Nov 2024 14:17 | vial-A | SY/MD | Ok |
| 13 | P4909-02 | BU-02-111824 | VY020358.D | 20 Nov 2024 14:41 | Internal Standard Fail vial-A | SY/MD | ReRun |
| 14 | P4908-01 | SP-1 | VY020359.D | 20 Nov 2024 15:04 | vial-A | SY/MD | Ok |
| 15 | P4908-03 | SP-2 | VY020360.D | 20 Nov 2024 15:27 | Internal Standard Fail vial-A | SY/MD | ReRun |
| 16 | P4870-03 | TP-1-VOC | VY020361.D | 20 Nov 2024 15:51 | Internal Standard Fail vial-A | SY/MD | ReRun |
| 17 | P4870-12 | TP-15-VOC | VY020362.D | 20 Nov 2024 16:14 | Internal Standard Fail vial-A | SY/MD | ReRun |
| 18 | P4870-09 | MH-736-VOC | VY020363.D | 20 Nov 2024 16:38 | vial-A | SY/MD | Ok |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY112024

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 11/21/2024 3:23:29 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 11/21/2024 3:24:50 PM | | |
| SubDirectory | VY112024 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y111924s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP131659 |
| Initial Calibration Stds | |
| CCC | VP131661,VP131662 |
| Internal Standard/PEM | VP128297 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4870-06 | MH-735-VOC | VY020364.D | 20 Nov 2024 17:01 | Internal Standard Fail vial-A | SY/MD | ReRun |
| 20 | P4849-01 | RR-1 | VY020365.D | 20 Nov 2024 17:24 | vial-A | SY/MD | Ok |
| 21 | P4887-04 | MH-739-VOC | VY020366.D | 20 Nov 2024 17:48 | vial-A | SY/MD | Ok |
| 22 | P4887-08 | MH-760-VOC | VY020367.D | 20 Nov 2024 18:11 | vial-A | SY/MD | Ok |
| 23 | P4860-03 | PH2-BOT-002 | VY020368.D | 20 Nov 2024 18:35 | vial-B | SY/MD | Ok |
| 24 | P4860-06 | PH2-BOT-009 | VY020369.D | 20 Nov 2024 18:58 | vial-B | SY/MD | Ok |
| 25 | P4768-04 | B-4 | VY020370.D | 20 Nov 2024 19:22 | vial-B | SY/MD | Ok |
| 26 | VSTDCCC050 | VSTDCCC050EC | VY020371.D | 20 Nov 2024 19:44 | | 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-B | 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 |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4860 | **OrderDate:** | 11/14/2024 1:36:41 PM |
| **Client:** | Tetra Tech | **Project:** | Ocean County Landfill 2024 |
| **Contact:** | John Giuliano | **Location:** | L41 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4860-01** | **DUP-01** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/18/24 | |
| **P4860-02** | **PH2-BOT-001** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/18/24 | |
| **P4860-03** | **PH2-BOT-002** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/20/24 | |
| **P4860-04** | **PH2-BOT-003** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/18/24 | |
| **P4860-05** | **PH2-BOT-004** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/18/24 | |
| **P4860-06** | **PH2-BOT-009** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/20/24 | |
| **P4860-07** | **PH2-BOT-008** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/18/24 | |
| **P4860-08** | **PH2-BOT-007** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/18/24 | |
| **P4860-09** | **PH2-BOT-006** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/21/24 | |
| **P4860-10** | **PH2-BOT-005** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/21/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID : DUP-01** | | | | | | | | | |
| P4860-01 | DUP-01 | SOIL | 10,18-Bisnorabieta-5,7,9(10),11,1 | * | 120.000 | J | 0 | 0 | ug/Kg |
| P4860-01 | DUP-01 | SOIL | 4b,8-Dimethyl-2-isopropylphenan | * | 85.100 | J | 0 | 0 | ug/Kg |
| P4860-01 | DUP-01 | SOIL | Benzophenone | * | 160.000 | J | 0 | 0 | ug/Kg |
| P4860-01 | DUP-01 | SOIL | Cholestan-3-one, (5.alpha.)- | * | 200.000 | J | 0 | 0 | ug/Kg |
| P4860-01 | DUP-01 | SOIL | Heneicosane | * | 72.800 | J | 0 | 0 | ug/Kg |
| P4860-01 | DUP-01 | SOIL | n-Hexadecanoic acid | * | 260.000 | J | 0 | 0 | ug/Kg |
| P4860-01 | DUP-01 | SOIL | Octacosane | * | 80.700 | J | 0 | 0 | ug/Kg |
| P4860-01 | DUP-01 | SOIL | Retene | * | 250.000 | J | 0 | 0 | ug/Kg |
| P4860-01 | DUP-01 | SOIL | unknown16.286 | * | 210.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **1,438.60** | | | | |
| | | | **Total Concentration:** | | **1,438.60** | | | | |
| **Client ID : PH2-BOT-001** | | | | | | | | | |
| P4860-02 | PH2-BOT-001 | SOIL | Bis(2-ethylhexyl)phthalate | | 420.000 | | 93.9 | 180 | ug/Kg |
| | | | **Total Svoc :** | | **420.00** | | | | |
| P4860-02 | PH2-BOT-001 | SOIL | 10,18-Bisnorabieta-5,7,9(10),11,1 | * | 730.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | 1H-Indole, 2-methyl-3-phenyl- | * | 360.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | 4b,8-Dimethyl-2-isopropylphenan | * | 220.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | 5.beta.-Cholestan-3.alpha.-ol, 2-m | * | 1,600.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Butane, 2-methoxy-2-methyl- | * | 1,200.000 | JB | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Cholestan-2-one | * | 1,800.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Cyclohexane, 1,3,5-triphenyl- | * | 600.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Eicosane | * | 750.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Heneicosane | * | 650.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Heneicosane, 11-(1-ethylpropyl)- | * | 420.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Heptadecane | * | 410.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Hexadecane, 2,6,10-trimethyl- | * | 230.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | n-Hexadecanoic acid | * | 500.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Octacosane | * | 410.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Stigmastanol | * | 320.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Supraene | * | 250.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Tetradecane, 2,6,10-trimethyl- | * | 240.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Tricosane | * | 950.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Tridecane, 6-propyl- | * | 240.000 | J | 0 | 0 | ug/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | unknown17.657 | * | 440.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **12,320.00** | | | | |
| | | | **Total Concentration:** | | **12,740.00** | | | | |

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# Hit Summary Sheet
## SW-846

**SDG No.:** P4860

**Client:** Tetra Tech

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID :** | **PH2-BOT-002** | | | | | | | | |
| P4860-03 | PH2-BOT-002 | SOIL | Bis(2-ethylhexyl)phthalate | | 95.800 | J | 94 | 180 | ug/Kg |
| | | | **Total Svoc :** | | **95.80** | | | | |
| P4860-03 | PH2-BOT-002 | SOIL | 10,18-Bisnorabieta-5,7,9(10),11,1 | * | 84.400 | J | 0 | 0 | ug/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Benzophenone | * | 510.000 | J | 0 | 0 | ug/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Cholestan-3-ol, (3.alpha.,5.beta.) | * | 530.000 | J | 0 | 0 | ug/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Cholestan-3-one, (5.beta.)- | * | 390.000 | J | 0 | 0 | ug/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Hexacosane | * | 130.000 | J | 0 | 0 | ug/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Methanone, (1-hydroxycyclohexy | * | 82.300 | J | 0 | 0 | ug/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | n-Hexadecanoic acid | * | 180.000 | J | 0 | 0 | ug/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Supraene | * | 100.000 | J | 0 | 0 | ug/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | unknown17.068 | * | 98.500 | J | 0 | 0 | ug/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | unknown17.657 | * | 110.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **2,215.20** | | | | |
| | | | **Total Concentration:** | | **2,311.00** | | | | |
| **Client ID :** | **PH2-BOT-003** | | | | | | | | |
| P4860-04 | PH2-BOT-003 | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 70.800 | A | 0 | 0 | ug/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Benzophenone | * | 140.000 | J | 0 | 0 | ug/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | n-Hexadecanoic acid | * | 120.000 | J | 0 | 0 | ug/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Squalene | * | 91.900 | J | 0 | 0 | ug/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Trichloroacetic acid, pentadecyl e | * | 170.000 | J | 0 | 0 | ug/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | unknown16.427 | * | 77.300 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **670.00** | | | | |
| | | | **Total Concentration:** | | **670.00** | | | | |
| **Client ID :** | **PH2-BOT-004** | | | | | | | | |
| P4860-05 | PH2-BOT-004 | SOIL | Benzophenone | * | 370.000 | J | 0 | 0 | ug/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Butane, 2-methoxy-2-methyl- | * | 1,400.000 | JB | 0 | 0 | ug/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | n-Hexadecanoic acid | * | 93.900 | J | 0 | 0 | ug/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Pentadecafluorooctanoic acid, oct | * | 150.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **2,013.90** | | | | |
| | | | **Total Concentration:** | | **2,013.90** | | | | |
| **Client ID :** | **PH2-BOT-009** | | | | | | | | |
| P4860-06 | PH2-BOT-009 | SOIL | 1-Hexadecanol | * | 120.000 | J | 0 | 0 | ug/Kg |
| P4860-06 | PH2-BOT-009 | SOIL | Benzophenone | * | 400.000 | J | 0 | 0 | ug/Kg |
| P4860-06 | PH2-BOT-009 | SOIL | Methanone, (1-hydroxycyclohexy | * | 70.100 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **590.10** | | | | |
| | | | **Total Concentration:** | | **590.10** | | | | |
| **Client ID :** | **PH2-BOT-008** | | | | | | | | |
| P4860-07 | PH2-BOT-008 | SOIL | 1-Hydroxycyclohexanecarboxylic | * | 74.600 | J | 0 | 0 | ug/Kg |

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# Hit Summary Sheet
## SW-846

**SDG No.:** P4860

**Client:** Tetra Tech

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| P4860-07 | PH2-BOT-008 | SOIL | Benzophenone | * | 500.000 | J | 0 | 0 | ug/Kg |
| P4860-07 | PH2-BOT-008 | SOIL | n-Hexadecanoic acid | * | 89.800 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **664.40** | | | | |
| | | | **Total Concentration:** | | **664.40** | | | | |
| **Client ID :** | **PH2-BOT-007** | | | | | | | | |
| P4860-08 | PH2-BOT-007 | SOIL | 1-Tetracosene | * | 150.000 | J | 0 | 0 | ug/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Benzophenone | * | 320.000 | J | 0 | 0 | ug/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Butane, 2-methoxy-2-methyl- | * | 1,200.000 | JB | 0 | 0 | ug/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | n-Hexadecanoic acid | * | 130.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **1,800.00** | | | | |
| | | | **Total Concentration:** | | **1,800.00** | | | | |
| **Client ID :** | **PH2-BOT-006** | | | | | | | | |
| P4860-09 | PH2-BOT-006 | SOIL | Benzophenone | * | 330.000 | J | 0 | 0 | ug/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | n-Hexadecanoic acid | * | 220.000 | J | 0 | 0 | ug/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | n-Nonadecanol-1 | * | 170.000 | J | 0 | 0 | ug/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | unknown16.457 | * | 78.100 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **798.10** | | | | |
| | | | **Total Concentration:** | | **798.10** | | | | |
| **Client ID :** | **PH2-BOT-005** | | | | | | | | |
| P4860-10 | PH2-BOT-005 | SOIL | 10,18-Bisnorabieta-5,7,9(10),11,1 | * | 81.900 | J | 0 | 0 | ug/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Benzophenone | * | 330.000 | J | 0 | 0 | ug/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Butane, 2-methoxy-2-methyl- | * | 1,100.000 | JB | 0 | 0 | ug/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Cholestan-3-one | * | 220.000 | J | 0 | 0 | ug/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Eicosane | * | 100.000 | J | 0 | 0 | ug/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Heneicosane | * | 79.800 | J | 0 | 0 | ug/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Isobutyl tetracosyl ether | * | 280.000 | J | 0 | 0 | ug/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | n-Hexadecanoic acid | * | 170.000 | J | 0 | 0 | ug/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Octacosane, 2-methyl- | * | 74.700 | J | 0 | 0 | ug/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Triacontane | * | 140.000 | J | 0 | 0 | ug/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | unknown16.245 | * | 230.000 | J | 0 | 0 | ug/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | unknown16.498 | * | 75.700 | J | 0 | 0 | ug/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | unknown17.439 | * | 77.400 | J | 0 | 0 | ug/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | unknown17.651 | * | 70.600 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **3,030.10** | | | | |
| | | | **Total Concentration:** | | **3,030.10** | | | | |

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 96.8 |
| 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 |
|---|---|---|---|---|
| BF140609.D | 1 | 11/16/24 08:51 | 11/25/24 18:07 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 190 | UQ | 190 | 340 | ug/Kg |
| 108-95-2 | Phenol | 85.4 | U | 85.4 | 180 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 86.2 | U | 86.2 | 180 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 86.0 | U | 86.0 | 180 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 83.0 | U | 83.0 | 180 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 93.6 | U | 93.6 | 180 | ug/Kg |
| 98-86-2 | Acetophenone | 89.5 | U | 89.5 | 180 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 82.2 | U | 82.2 | 340 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 41.5 | U | 41.5 | 82.4 | ug/Kg |
| 67-72-1 | Hexachloroethane | 85.5 | U | 85.5 | 180 | ug/Kg |
| 98-95-3 | Nitrobenzene | 93.5 | U | 93.5 | 180 | ug/Kg |
| 78-59-1 | Isophorone | 87.1 | U | 87.1 | 180 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 97.3 | U | 97.3 | 180 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 96.0 | U | 96.0 | 180 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 88.4 | U | 88.4 | 180 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 77.8 | U | 77.8 | 180 | ug/Kg |
| 91-20-3 | Naphthalene | 85.1 | U | 85.1 | 180 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 85.1 | UQ | 85.1 | 180 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 85.8 | U | 85.8 | 180 | ug/Kg |
| 105-60-2 | Caprolactam | 89.4 | U | 89.4 | 340 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 79.8 | U | 79.8 | 180 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 85.0 | U | 85.0 | 180 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 160 | UQ | 160 | 340 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 73.5 | U | 73.5 | 180 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 76.2 | U | 76.2 | 180 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 90.0 | U | 90.0 | 180 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 85.8 | U | 85.8 | 180 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 97.8 | U | 97.8 | 180 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 84.1 | U | 84.1 | 180 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 96.8 |
| 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 |
|---|---|---|---|---|
| BF140609.D | 1 | 11/16/24 08:51 | 11/25/24 18:07 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 89.1 | U | 89.1 | 180 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 85.7 | U | 85.7 | 180 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 91.9 | UQ | 91.9 | 180 | ug/Kg |
| 83-32-9 | Acenaphthene | 83.5 | U | 83.5 | 180 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 250 | U | 250 | 340 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 340 | ug/Kg |
| 132-64-9 | Dibenzofuran | 86.9 | U | 86.9 | 180 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 88.8 | U | 88.8 | 180 | ug/Kg |
| 84-66-2 | Diethylphthalate | 82.5 | U | 82.5 | 180 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 88.2 | U | 88.2 | 180 | ug/Kg |
| 86-73-7 | Fluorene | 88.1 | U | 88.1 | 180 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 110 | U | 110 | 180 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 120 | 340 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 84.0 | U | 84.0 | 180 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 81.3 | U | 81.3 | 180 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 87.5 | U | 87.5 | 180 | ug/Kg |
| 1912-24-9 | Atrazine | 94.1 | U | 94.1 | 180 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 79.6 | U | 79.6 | 340 | ug/Kg |
| 85-01-8 | Phenanthrene | 86.5 | U | 86.5 | 180 | ug/Kg |
| 120-12-7 | Anthracene | 86.9 | U | 86.9 | 180 | ug/Kg |
| 86-74-8 | Carbazole | 82.7 | U | 82.7 | 180 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 86.8 | U | 86.8 | 180 | ug/Kg |
| 206-44-0 | Fluoranthene | 84.1 | U | 84.1 | 180 | ug/Kg |
| 129-00-0 | Pyrene | 85.5 | U | 85.5 | 180 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 99.7 | U | 99.7 | 180 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 100 | UQ | 100 | 340 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 83.1 | U | 83.1 | 180 | ug/Kg |
| 218-01-9 | Chrysene | 81.9 | U | 81.9 | 180 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 93.7 | U | 93.7 | 180 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 110 | U | 110 | 340 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 83.5 | U | 83.5 | 180 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 96.8 |
| 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 |
|---|---|---|---|---|
| BF140609.D | 1 | 11/16/24 08:51 | 11/25/24 18:07 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 85.1 | U | 85.1 | 180 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 95.8 | U | 95.8 | 180 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 80.4 | U | 80.4 | 180 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 83.6 | U | 83.6 | 180 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 82.5 | U | 82.5 | 180 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 89.4 | U | 89.4 | 180 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 110 | U | 110 | 180 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 76.9 | U | 76.9 | 180 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 98.6 | | 30 (18) - 130 (112) | 66% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 97.7 | | 30 (15) - 130 (107) | 65% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 67.9 | | 30 (18) - 130 (107) | 68% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 73.5 | | 30 (20) - 130 (109) | 73% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 92.4 | | 30 (10) - 130 (116) | 62% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 71.0 | | 30 (10) - 130 (105) | 71% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 64400 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 240000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 128000 | 9.904 | | | |
| 1517-22-2 | Phenanthrene-d10 | 245000 | 11.392 | | | |
| 1719-03-5 | Chrysene-d12 | 152000 | 14.045 | | | |
| 1520-96-3 | Perylene-d12 | 135000 | 15.539 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000119-61-9 | Benzophenone | 160 | J | | 10.6 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 260 | J | | 11.9 | ug/Kg |
| 1000197-14-1 | 4b,8-Dimethyl-2-isopropylphenanthr | 85.1 | J | | 12.3 | ug/Kg |
| 006566-19-4 | 10,18-Bisnorabieta-5,7,9(10),11,13 | 120 | J | | 12.6 | ug/Kg |
| 000483-65-8 | Retene | 250 | J | | 13.1 | ug/Kg |
| 000629-94-7 | Heneicosane | 72.8 | J | | 13.9 | ug/Kg |
| 000630-02-4 | Octacosane | 80.7 | J | | 15.2 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 96.8 |
| 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 |
|---|---|---|---|---|
| BF140609.D | 1 | 11/16/24 08:51 | 11/25/24 18:07 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| | unknown16.286 | 210 | J | | 16.3 | ug/Kg |
| 000566-88-1 | Cholestan-3-one, (5.alpha.)- | 200 | J | | 16.4 | 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 96.8 |
| 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 |
|---|---|---|---|---|
| BF140588.D | 1 | 11/16/24 08:51 | 11/22/24 19:53 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 190 | UQ | 190 | 340 | ug/Kg |
| 108-95-2 | Phenol | 85.6 | U | 85.6 | 180 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 86.4 | U | 86.4 | 180 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 86.2 | U | 86.2 | 180 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 83.2 | U | 83.2 | 180 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 93.8 | U | 93.8 | 180 | ug/Kg |
| 98-86-2 | Acetophenone | 89.7 | U | 89.7 | 180 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 82.4 | U | 82.4 | 340 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 41.6 | U | 41.6 | 82.6 | ug/Kg |
| 67-72-1 | Hexachloroethane | 85.7 | U | 85.7 | 180 | ug/Kg |
| 98-95-3 | Nitrobenzene | 93.7 | U | 93.7 | 180 | ug/Kg |
| 78-59-1 | Isophorone | 87.3 | U | 87.3 | 180 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 97.6 | U | 97.6 | 180 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 96.2 | U | 96.2 | 180 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 88.6 | U | 88.6 | 180 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 77.9 | U | 77.9 | 180 | ug/Kg |
| 91-20-3 | Naphthalene | 85.3 | U | 85.3 | 180 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 85.3 | UQ | 85.3 | 180 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 86.0 | U | 86.0 | 180 | ug/Kg |
| 105-60-2 | Caprolactam | 89.6 | U | 89.6 | 340 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 80.0 | U | 80.0 | 180 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 85.2 | U | 85.2 | 180 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 160 | UQ | 160 | 340 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 73.7 | U | 73.7 | 180 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 76.4 | U | 76.4 | 180 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 90.2 | U | 90.2 | 180 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 86.0 | U | 86.0 | 180 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 98.1 | U | 98.1 | 180 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 84.3 | U | 84.3 | 180 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 96.8 |
| 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 |
|---|---|---|---|---|
| BF140588.D | 1 | 11/16/24 08:51 | 11/22/24 19:53 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 89.3 | U | 89.3 | 180 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 85.9 | U | 85.9 | 180 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 92.1 | UQ | 92.1 | 180 | ug/Kg |
| 83-32-9 | Acenaphthene | 83.7 | U | 83.7 | 180 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 250 | U | 250 | 340 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 340 | ug/Kg |
| 132-64-9 | Dibenzofuran | 87.1 | U | 87.1 | 180 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 89.0 | U | 89.0 | 180 | ug/Kg |
| 84-66-2 | Diethylphthalate | 82.7 | U | 82.7 | 180 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 88.4 | U | 88.4 | 180 | ug/Kg |
| 86-73-7 | Fluorene | 88.3 | U | 88.3 | 180 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 110 | U | 110 | 180 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 120 | 340 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 84.2 | U | 84.2 | 180 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 81.5 | U | 81.5 | 180 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 87.8 | U | 87.8 | 180 | ug/Kg |
| 1912-24-9 | Atrazine | 94.4 | U | 94.4 | 180 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 79.8 | U | 79.8 | 340 | ug/Kg |
| 85-01-8 | Phenanthrene | 86.7 | U | 86.7 | 180 | ug/Kg |
| 120-12-7 | Anthracene | 87.1 | U | 87.1 | 180 | ug/Kg |
| 86-74-8 | Carbazole | 82.9 | U | 82.9 | 180 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 87.0 | U | 87.0 | 180 | ug/Kg |
| 206-44-0 | Fluoranthene | 84.3 | U | 84.3 | 180 | ug/Kg |
| 129-00-0 | Pyrene | 85.7 | U | 85.7 | 180 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 99.9 | U | 99.9 | 180 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 100 | UQ | 100 | 340 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 83.3 | U | 83.3 | 180 | ug/Kg |
| 218-01-9 | Chrysene | 82.1 | U | 82.1 | 180 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 420 | | 93.9 | 180 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 110 | U | 110 | 340 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 83.7 | U | 83.7 | 180 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 96.8 |
| 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 |
|---|---|---|---|---|
| BF140588.D | 1 | 11/16/24 08:51 | 11/22/24 19:53 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 85.3 | U | 85.3 | 180 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 96.0 | U | 96.0 | 180 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 80.6 | U | 80.6 | 180 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 83.8 | U | 83.8 | 180 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 82.7 | U | 82.7 | 180 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 89.6 | U | 89.6 | 180 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 110 | U | 110 | 180 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 77.1 | U | 77.1 | 180 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 99.7 | | 30 (18) - 130 (112) | 66% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 96.8 | | 30 (15) - 130 (107) | 65% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 71.8 | | 30 (18) - 130 (107) | 72% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 79.9 | | 30 (20) - 130 (109) | 80% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 86.7 | | 30 (10) - 130 (116) | 58% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 67.9 | | 30 (10) - 130 (105) | 68% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 92000 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 310000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 141000 | 9.904 | | | |
| 1517-22-2 | Phenanthrene-d10 | 224000 | 11.398 | | | |
| 1719-03-5 | Chrysene-d12 | 149000 | 14.045 | | | |
| 1520-96-3 | Perylene-d12 | 113000 | 15.533 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000994-05-8 | Butane, 2-methoxy-2-methyl- | 1200 | JB | | 2.13 | ug/Kg |
| 055000-52-7 | Hexadecane, 2,6,10-trimethyl- | 230 | J | | 10.8 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 500 | J | | 11.9 | ug/Kg |
| 1000197-14-1 | 4b,8-Dimethyl-2-isopropylphenanthr | 220 | J | | 12.3 | ug/Kg |
| 006566-19-4 | 10,18-Bisnorabieta-5,7,9(10),11,13 | 730 | J | | 12.7 | ug/Kg |
| 055045-10-8 | Tridecane, 6-propyl- | 240 | J | | 13.2 | ug/Kg |
| 000629-78-7 | Heptadecane | 410 | J | | 13.6 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 96.8 |
| 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 |
|---|---|---|---|---|
| BF140588.D | 1 | 11/16/24 08:51 | 11/22/24 19:53 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 028336-57-4 | Cyclohexane, 1,3,5-triphenyl- | 600 | J | | 13.8 | ug/Kg |
| 000112-95-8 | Eicosane | 750 | J | | 13.9 | ug/Kg |
| 004757-69-1 | 1H-Indole, 2-methyl-3-phenyl- | 360 | J | | 14.2 | ug/Kg |
| 000638-67-5 | Tricosane | 950 | J | | 14.2 | ug/Kg |
| 000629-94-7 | Heneicosane | 650 | J | | 14.5 | ug/Kg |
| 000630-02-4 | Octacosane | 410 | J | | 14.8 | ug/Kg |
| 007683-64-9 | Supraene | 250 | J | | 14.9 | ug/Kg |
| 055282-11-6 | Heneicosane, 11-(1-ethylpropyl)- | 420 | J | | 15.2 | ug/Kg |
| 014905-56-7 | Tetradecane, 2,6,10-trimethyl- | 240 | J | | 16.0 | ug/Kg |
| 1000514-95-7 | 5.beta.-Cholestan-3.alpha.-ol, 2-m | 1600 | J | | 16.2 | ug/Kg |
| 1010210-43-4 | Cholestan-2-one | 1800 | J | | 16.5 | ug/Kg |
| 019466-47-8 | Stigmastanol | 320 | J | | 17.4 | ug/Kg |
| | unknown17.657 | 440 | J | | 17.7 | 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 96.6 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140622.D | 1 | 11/16/24 08:51 | 11/25/24 23:48 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 190 | UQ | 190 | 340 | ug/Kg |
| 108-95-2 | Phenol | 85.7 | U | 85.7 | 180 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 86.5 | U | 86.5 | 180 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 86.3 | U | 86.3 | 180 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 83.3 | U | 83.3 | 180 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 93.9 | U | 93.9 | 180 | ug/Kg |
| 98-86-2 | Acetophenone | 89.8 | U | 89.8 | 180 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 82.5 | U | 82.5 | 340 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 41.6 | U | 41.6 | 82.7 | ug/Kg |
| 67-72-1 | Hexachloroethane | 85.8 | U | 85.8 | 180 | ug/Kg |
| 98-95-3 | Nitrobenzene | 93.8 | U | 93.8 | 180 | ug/Kg |
| 78-59-1 | Isophorone | 87.4 | U | 87.4 | 180 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 97.7 | U | 97.7 | 180 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 96.3 | U | 96.3 | 180 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 88.7 | U | 88.7 | 180 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 78.0 | U | 78.0 | 180 | ug/Kg |
| 91-20-3 | Naphthalene | 85.4 | U | 85.4 | 180 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 85.4 | UQ | 85.4 | 180 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 86.1 | U | 86.1 | 180 | ug/Kg |
| 105-60-2 | Caprolactam | 89.7 | U | 89.7 | 340 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 80.1 | U | 80.1 | 180 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 85.3 | U | 85.3 | 180 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 160 | UQ | 160 | 340 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 73.8 | U | 73.8 | 180 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 76.5 | U | 76.5 | 180 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 90.3 | U | 90.3 | 180 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 86.1 | U | 86.1 | 180 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 98.2 | U | 98.2 | 180 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 84.4 | U | 84.4 | 180 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 96.6 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140622.D | 1 | 11/16/24 08:51 | 11/25/24 23:48 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 89.4 | U | 89.4 | 180 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 86.0 | U | 86.0 | 180 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 92.2 | UQ | 92.2 | 180 | ug/Kg |
| 83-32-9 | Acenaphthene | 83.8 | U | 83.8 | 180 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 250 | U | 250 | 340 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 340 | ug/Kg |
| 132-64-9 | Dibenzofuran | 87.2 | U | 87.2 | 180 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 89.1 | U | 89.1 | 180 | ug/Kg |
| 84-66-2 | Diethylphthalate | 82.8 | U | 82.8 | 180 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 88.5 | U | 88.5 | 180 | ug/Kg |
| 86-73-7 | Fluorene | 88.4 | U | 88.4 | 180 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 110 | U | 110 | 180 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 120 | 340 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 84.3 | U | 84.3 | 180 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 81.5 | U | 81.5 | 180 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 87.8 | U | 87.8 | 180 | ug/Kg |
| 1912-24-9 | Atrazine | 94.5 | U | 94.5 | 180 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 79.9 | U | 79.9 | 340 | ug/Kg |
| 85-01-8 | Phenanthrene | 86.8 | U | 86.8 | 180 | ug/Kg |
| 120-12-7 | Anthracene | 87.2 | U | 87.2 | 180 | ug/Kg |
| 86-74-8 | Carbazole | 83.0 | U | 83.0 | 180 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 87.1 | U | 87.1 | 180 | ug/Kg |
| 206-44-0 | Fluoranthene | 84.4 | U | 84.4 | 180 | ug/Kg |
| 129-00-0 | Pyrene | 85.8 | U | 85.8 | 180 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 100 | U | 100 | 180 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 100 | UQ | 100 | 340 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 83.4 | U | 83.4 | 180 | ug/Kg |
| 218-01-9 | Chrysene | 82.2 | U | 82.2 | 180 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 95.8 | J | 94.0 | 180 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 110 | U | 110 | 340 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 83.8 | U | 83.8 | 180 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 96.6 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140622.D | 1 | 11/16/24 08:51 | 11/25/24 23:48 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 85.4 | U | 85.4 | 180 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 96.1 | U | 96.1 | 180 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 80.7 | U | 80.7 | 180 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 83.9 | U | 83.9 | 180 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 82.8 | U | 82.8 | 180 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 89.7 | U | 89.7 | 180 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 110 | U | 110 | 180 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 77.2 | U | 77.2 | 180 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 110 | | 30 (18) - 130 (112) | 74% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 108 | | 30 (15) - 130 (107) | 72% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 74.3 | | 30 (18) - 130 (107) | 74% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 77.4 | | 30 (20) - 130 (109) | 77% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 109 | | 30 (10) - 130 (116) | 73% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 69.3 | | 30 (10) - 130 (105) | 69% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 57900 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 212000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 115000 | 9.904 | | | |
| 1517-22-2 | Phenanthrene-d10 | 211000 | 11.392 | | | |
| 1719-03-5 | Chrysene-d12 | 124000 | 14.045 | | | |
| 1520-96-3 | Perylene-d12 | 108000 | 15.539 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000119-61-9 | Benzophenone | 510 | J | | 10.6 | ug/Kg |
| 000947-19-3 | Methanone, (1-hydroxycyclohexyl)ph | 82.3 | J | | 10.9 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 180 | J | | 11.9 | ug/Kg |
| 006566-19-4 | 10,18-Bisnorabieta-5,7,9(10),11,13 | 84.4 | J | | 12.6 | ug/Kg |
| 007683-64-9 | Supraene | 100 | J | | 14.9 | ug/Kg |
| 000630-01-3 | Hexacosane | 130 | J | | 15.2 | ug/Kg |
| 000516-92-7 | Cholestan-3-ol, (3.alpha.,5.beta.) | 530 | J | | 16.3 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 96.6 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140622.D | 1 | 11/16/24 08:51 | 11/25/24 23:48 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 000601-53-6 | Cholestan-3-one, (5.beta.)- | 390 | J | | 16.4 | ug/Kg |
| | unknown17.068 | 98.5 | J | | 17.1 | ug/Kg |
| | unknown17.657 | 110 | J | | 17.7 | 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.8 |
| 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 |
|---|---|---|---|---|
| BF140620.D | 1 | 11/16/24 08:51 | 11/25/24 22:55 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 190 | UQ | 190 | 340 | ug/Kg |
| 108-95-2 | Phenol | 84.7 | U | 84.7 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 85.5 | U | 85.5 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 85.3 | U | 85.3 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 82.3 | U | 82.3 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 92.9 | U | 92.9 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 88.8 | U | 88.8 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 81.5 | U | 81.5 | 340 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 41.2 | U | 41.2 | 81.7 | ug/Kg |
| 67-72-1 | Hexachloroethane | 84.8 | U | 84.8 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 92.7 | U | 92.7 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 86.4 | U | 86.4 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 96.5 | U | 96.5 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 95.2 | U | 95.2 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 87.6 | U | 87.6 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 77.1 | U | 77.1 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 84.4 | U | 84.4 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 84.4 | UQ | 84.4 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 85.1 | U | 85.1 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 88.7 | U | 88.7 | 340 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 79.2 | U | 79.2 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 84.3 | U | 84.3 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 160 | UQ | 160 | 340 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 72.9 | U | 72.9 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 75.6 | U | 75.6 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 89.3 | U | 89.3 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 85.1 | U | 85.1 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 97.0 | U | 97.0 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 83.5 | U | 83.5 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.8 |
| 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 |
|---|---|---|---|---|
| BF140620.D | 1 | 11/16/24 08:51 | 11/25/24 22:55 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 88.4 | U | 88.4 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 85.0 | U | 85.0 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 91.1 | UQ | 91.1 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 82.8 | U | 82.8 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 250 | U | 250 | 340 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 340 | ug/Kg |
| 132-64-9 | Dibenzofuran | 86.2 | U | 86.2 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 88.1 | U | 88.1 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 81.8 | U | 81.8 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 87.4 | U | 87.4 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 87.3 | U | 87.3 | 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 | 340 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 83.4 | U | 83.4 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 80.6 | U | 80.6 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 86.8 | U | 86.8 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 93.4 | U | 93.4 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 79.0 | U | 79.0 | 340 | ug/Kg |
| 85-01-8 | Phenanthrene | 85.8 | U | 85.8 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 86.2 | U | 86.2 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 82.0 | U | 82.0 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 86.1 | U | 86.1 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 83.5 | U | 83.5 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 84.8 | U | 84.8 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 98.9 | U | 98.9 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 100 | UQ | 100 | 340 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 82.4 | U | 82.4 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 81.2 | U | 81.2 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 93.0 | U | 93.0 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 110 | U | 110 | 340 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 82.8 | U | 82.8 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.8 |
| 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 |
|---|---|---|---|---|
| BF140620.D | 1 | 11/16/24 08:51 | 11/25/24 22:55 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 84.4 | U | 84.4 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 95.0 | U | 95.0 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 79.8 | U | 79.8 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 82.9 | U | 82.9 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 81.8 | U | 81.8 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 88.7 | U | 88.7 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 110 | U | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 76.3 | U | 76.3 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 102 | | 30 (18) - 130 (112) | 68% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 101 | | 30 (15) - 130 (107) | 67% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 70.4 | | 30 (18) - 130 (107) | 70% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 73.2 | | 30 (20) - 130 (109) | 73% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 102 | | 30 (10) - 130 (116) | 68% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 72.7 | | 30 (10) - 130 (105) | 73% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 59200 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 216000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 118000 | 9.904 | | | |
| 1517-22-2 | Phenanthrene-d10 | 223000 | 11.392 | | | |
| 1719-03-5 | Chrysene-d12 | 134000 | 14.039 | | | |
| 1520-96-3 | Perylene-d12 | 132000 | 15.527 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 70.8 | A | | 5.09 | ug/Kg |
| 000119-61-9 | Benzophenone | 140 | J | | 10.6 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 120 | J | | 11.9 | ug/Kg |
| 074339-53-0 | Trichloroacetic acid, pentadecyl e | 170 | J | | 13.9 | ug/Kg |
| 000111-02-4 | Squalene | 91.9 | J | | 14.9 | ug/Kg |
| | unknown16.427 | 77.3 | J | | 16.4 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.8 |
| 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 |
|---|---|---|---|---|
| BF140620.D | 1 | 11/16/24 08:51 | 11/25/24 22:55 | PB165029 |

| 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 98.1 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140579.D | 1 | 11/16/24 08:51 | 11/22/24 15:58 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 190 | UQ | 190 | 340 | ug/Kg |
| 108-95-2 | Phenol | 84.3 | U | 84.3 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 85.1 | U | 85.1 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 84.9 | U | 84.9 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 81.9 | U | 81.9 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 92.4 | U | 92.4 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 88.3 | U | 88.3 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 81.1 | U | 81.1 | 340 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 41.0 | U | 41.0 | 81.3 | ug/Kg |
| 67-72-1 | Hexachloroethane | 84.4 | U | 84.4 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 92.3 | U | 92.3 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 86.0 | U | 86.0 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 96.1 | U | 96.1 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 94.8 | U | 94.8 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 87.2 | U | 87.2 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 76.8 | U | 76.8 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 84.0 | U | 84.0 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 84.0 | UQ | 84.0 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 84.7 | U | 84.7 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 88.2 | U | 88.2 | 340 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 78.8 | U | 78.8 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 83.9 | U | 83.9 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 160 | UQ | 160 | 340 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 72.6 | U | 72.6 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 75.2 | U | 75.2 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 88.9 | U | 88.9 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 84.7 | U | 84.7 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 96.6 | U | 96.6 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 83.1 | U | 83.1 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 98.1 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140579.D | 1 | 11/16/24 08:51 | 11/22/24 15:58 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 87.9 | U | 87.9 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 84.6 | U | 84.6 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 90.7 | UQ | 90.7 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 82.5 | U | 82.5 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 250 | U | 250 | 340 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 340 | ug/Kg |
| 132-64-9 | Dibenzofuran | 85.8 | U | 85.8 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 87.6 | U | 87.6 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 81.4 | U | 81.4 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 87.0 | U | 87.0 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 86.9 | U | 86.9 | 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 | 340 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 83.0 | U | 83.0 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 80.2 | U | 80.2 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 86.4 | U | 86.4 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 92.9 | U | 92.9 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 78.6 | U | 78.6 | 340 | ug/Kg |
| 85-01-8 | Phenanthrene | 85.4 | U | 85.4 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 85.8 | U | 85.8 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 81.6 | U | 81.6 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 85.7 | U | 85.7 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 83.1 | U | 83.1 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 84.4 | U | 84.4 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 98.4 | U | 98.4 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 100 | UQ | 100 | 340 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 82.0 | U | 82.0 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 80.8 | U | 80.8 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 92.5 | U | 92.5 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 110 | U | 110 | 340 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 82.5 | U | 82.5 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 98.1 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140579.D | 1 | 11/16/24 08:51 | 11/22/24 15:58 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 84.0 | U | 84.0 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 94.5 | U | 94.5 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 79.4 | U | 79.4 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 82.6 | U | 82.6 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 81.4 | U | 81.4 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 88.2 | U | 88.2 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 110 | U | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 75.9 | U | 75.9 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 87.3 | | 30 (18) - 130 (112) | 58% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 84.5 | | 30 (15) - 130 (107) | 56% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 59.5 | | 30 (18) - 130 (107) | 59% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 63.7 | | 30 (20) - 130 (109) | 64% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 82.4 | | 30 (10) - 130 (116) | 55% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 63.6 | | 30 (10) - 130 (105) | 64% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 90900 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 333000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 173000 | 9.904 | | | |
| 1517-22-2 | Phenanthrene-d10 | 324000 | 11.398 | | | |
| 1719-03-5 | Chrysene-d12 | 178000 | 14.045 | | | |
| 1520-96-3 | Perylene-d12 | 173000 | 15.533 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000994-05-8 | Butane, 2-methoxy-2-methyl- | 1400 | JB | | 2.14 | ug/Kg |
| 000119-61-9 | Benzophenone | 370 | J | | 10.6 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 93.9 | J | | 11.9 | ug/Kg |
| 1000406-04-8 | Pentadecafluorooctanoic acid, octa | 150 | J | | 13.9 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 98.1 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140579.D | 1 | 11/16/24 08:51 | 11/22/24 15:58 | PB165029 |

| 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 98.3 |
| 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 |
|---|---|---|---|---|
| BF140615.D | 1 | 11/16/24 08:51 | 11/25/24 20:45 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 180 | UQ | 180 | 340 | ug/Kg |
| 108-95-2 | Phenol | 84.2 | U | 84.2 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 85.0 | U | 85.0 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 84.8 | U | 84.8 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 81.8 | U | 81.8 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 92.3 | U | 92.3 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 88.2 | U | 88.2 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 81.0 | U | 81.0 | 340 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 40.9 | U | 40.9 | 81.2 | ug/Kg |
| 67-72-1 | Hexachloroethane | 84.3 | U | 84.3 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 92.2 | U | 92.2 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 85.9 | U | 85.9 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 95.9 | U | 95.9 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 94.6 | U | 94.6 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 87.1 | U | 87.1 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 76.7 | U | 76.7 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 83.9 | U | 83.9 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 83.9 | UQ | 83.9 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 84.6 | U | 84.6 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 88.1 | U | 88.1 | 340 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 78.7 | U | 78.7 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 83.8 | U | 83.8 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 160 | UQ | 160 | 340 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 72.5 | U | 72.5 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 75.1 | U | 75.1 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 88.7 | U | 88.7 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 84.6 | U | 84.6 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 96.5 | U | 96.5 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 82.9 | U | 82.9 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 98.3 |
| 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 |
|---|---|---|---|---|
| BF140615.D | 1 | 11/16/24 08:51 | 11/25/24 20:45 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 87.8 | U | 87.8 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 84.5 | U | 84.5 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 90.6 | UQ | 90.6 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 82.3 | U | 82.3 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 250 | U | 250 | 340 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 340 | ug/Kg |
| 132-64-9 | Dibenzofuran | 85.7 | U | 85.7 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 87.5 | U | 87.5 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 81.3 | U | 81.3 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 86.9 | U | 86.9 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 86.8 | U | 86.8 | 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 | 340 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 82.8 | U | 82.8 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 80.1 | U | 80.1 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 86.3 | U | 86.3 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 92.8 | U | 92.8 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 78.5 | U | 78.5 | 340 | ug/Kg |
| 85-01-8 | Phenanthrene | 85.3 | U | 85.3 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 85.7 | U | 85.7 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 81.5 | U | 81.5 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 85.6 | U | 85.6 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 82.9 | U | 82.9 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 84.3 | U | 84.3 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 98.3 | U | 98.3 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 100 | UQ | 100 | 340 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 81.9 | U | 81.9 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 80.7 | U | 80.7 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 92.4 | U | 92.4 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 110 | U | 110 | 340 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 82.3 | U | 82.3 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 98.3 |
| 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 |
|---|---|---|---|---|
| BF140615.D | 1 | 11/16/24 08:51 | 11/25/24 20:45 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 83.9 | U | 83.9 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 94.4 | U | 94.4 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 79.3 | U | 79.3 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 82.4 | U | 82.4 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 81.3 | U | 81.3 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 88.1 | U | 88.1 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 110 | U | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 75.8 | U | 75.8 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 86.9 | | 30 (18) - 130 (112) | 58% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 87.6 | | 30 (15) - 130 (107) | 58% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 60.1 | | 30 (18) - 130 (107) | 60% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 62.8 | | 30 (20) - 130 (109) | 63% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 79.0 | | 30 (10) - 130 (116) | 53% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 60.9 | | 30 (10) - 130 (105) | 61% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 56300 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 212000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 115000 | 9.904 | | | |
| 1517-22-2 | Phenanthrene-d10 | 214000 | 11.392 | | | |
| 1719-03-5 | Chrysene-d12 | 142000 | 14.045 | | | |
| 1520-96-3 | Perylene-d12 | 130000 | 15.539 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000119-61-9 | Benzophenone | 400 | J | | 10.6 | ug/Kg |
| 000947-19-3 | Methanone, (1-hydroxycyclohexyl)ph | 70.1 | J | | 10.9 | ug/Kg |
| 036653-82-4 | 1-Hexadecanol | 120 | J | | 13.9 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 98.3 |
| 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 |
|---|---|---|---|---|
| BF140615.D | 1 | 11/16/24 08:51 | 11/25/24 20:45 | PB165029 |

| 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 96.8 |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140621.D | 1 | 11/16/24 08:51 | 11/25/24 23:22 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 190 | UQ | 190 | 340 | ug/Kg |
| 108-95-2 | Phenol | 85.5 | U | 85.5 | 180 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 86.4 | U | 86.4 | 180 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 86.1 | U | 86.1 | 180 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 83.2 | U | 83.2 | 180 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 93.8 | U | 93.8 | 180 | ug/Kg |
| 98-86-2 | Acetophenone | 89.7 | U | 89.7 | 180 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 82.3 | U | 82.3 | 340 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 41.6 | U | 41.6 | 82.5 | ug/Kg |
| 67-72-1 | Hexachloroethane | 85.6 | U | 85.6 | 180 | ug/Kg |
| 98-95-3 | Nitrobenzene | 93.7 | U | 93.7 | 180 | ug/Kg |
| 78-59-1 | Isophorone | 87.3 | U | 87.3 | 180 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 97.5 | U | 97.5 | 180 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 96.2 | U | 96.2 | 180 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 88.5 | U | 88.5 | 180 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 77.9 | U | 77.9 | 180 | ug/Kg |
| 91-20-3 | Naphthalene | 85.2 | U | 85.2 | 180 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 85.2 | UQ | 85.2 | 180 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 85.9 | U | 85.9 | 180 | ug/Kg |
| 105-60-2 | Caprolactam | 89.6 | U | 89.6 | 340 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 80.0 | U | 80.0 | 180 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 85.1 | U | 85.1 | 180 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 160 | UQ | 160 | 340 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 73.7 | U | 73.7 | 180 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 76.3 | U | 76.3 | 180 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 90.2 | U | 90.2 | 180 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 85.9 | U | 85.9 | 180 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 98.0 | U | 98.0 | 180 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 84.3 | U | 84.3 | 180 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 96.8 |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140621.D | 1 | 11/16/24 08:51 | 11/25/24 23:22 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 89.2 | U | 89.2 | 180 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 85.8 | U | 85.8 | 180 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 92.0 | UQ | 92.0 | 180 | ug/Kg |
| 83-32-9 | Acenaphthene | 83.7 | U | 83.7 | 180 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 250 | U | 250 | 340 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 340 | ug/Kg |
| 132-64-9 | Dibenzofuran | 87.1 | U | 87.1 | 180 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 88.9 | U | 88.9 | 180 | ug/Kg |
| 84-66-2 | Diethylphthalate | 82.6 | U | 82.6 | 180 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 88.3 | U | 88.3 | 180 | ug/Kg |
| 86-73-7 | Fluorene | 88.2 | U | 88.2 | 180 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 110 | U | 110 | 180 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 120 | 340 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 84.2 | U | 84.2 | 180 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 81.4 | U | 81.4 | 180 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 87.7 | U | 87.7 | 180 | ug/Kg |
| 1912-24-9 | Atrazine | 94.3 | U | 94.3 | 180 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 79.7 | U | 79.7 | 340 | ug/Kg |
| 85-01-8 | Phenanthrene | 86.7 | U | 86.7 | 180 | ug/Kg |
| 120-12-7 | Anthracene | 87.1 | U | 87.1 | 180 | ug/Kg |
| 86-74-8 | Carbazole | 82.8 | U | 82.8 | 180 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 87.0 | U | 87.0 | 180 | ug/Kg |
| 206-44-0 | Fluoranthene | 84.3 | U | 84.3 | 180 | ug/Kg |
| 129-00-0 | Pyrene | 85.6 | U | 85.6 | 180 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 99.9 | U | 99.9 | 180 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 100 | UQ | 100 | 340 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 83.3 | U | 83.3 | 180 | ug/Kg |
| 218-01-9 | Chrysene | 82.0 | U | 82.0 | 180 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 93.9 | U | 93.9 | 180 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 110 | U | 110 | 340 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 83.7 | U | 83.7 | 180 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 96.8 |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140621.D | 1 | 11/16/24 08:51 | 11/25/24 23:22 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 85.2 | U | 85.2 | 180 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 95.9 | U | 95.9 | 180 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 80.6 | U | 80.6 | 180 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 83.8 | U | 83.8 | 180 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 82.6 | U | 82.6 | 180 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 89.6 | U | 89.6 | 180 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 110 | U | 110 | 180 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 77.1 | U | 77.1 | 180 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 92.1 | | 30 (18) - 130 (112) | 61% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 90.4 | | 30 (15) - 130 (107) | 60% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 62.1 | | 30 (18) - 130 (107) | 62% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 64.9 | | 30 (20) - 130 (109) | 65% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 88.7 | | 30 (10) - 130 (116) | 59% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 60.5 | | 30 (10) - 130 (105) | 60% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 56800 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 212000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 114000 | 9.904 | | | |
| 1517-22-2 | Phenanthrene-d10 | 220000 | 11.392 | | | |
| 1719-03-5 | Chrysene-d12 | 128000 | 14.039 | | | |
| 1520-96-3 | Perylene-d12 | 122000 | 15.533 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000119-61-9 | Benzophenone | 500 | J | | 10.6 | ug/Kg |
| 001123-28-0 | 1-Hydroxycyclohexanecarboxylic aci | 74.6 | J | | 10.9 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 89.8 | J | | 11.9 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 96.8 |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140621.D | 1 | 11/16/24 08:51 | 11/25/24 23:22 | PB165029 |

| 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 98 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140578.D | 1 | 11/16/24 08:51 | 11/22/24 15:32 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 190 | UQ | 190 | 340 | ug/Kg |
| 108-95-2 | Phenol | 84.5 | U | 84.5 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 85.3 | U | 85.3 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 85.1 | U | 85.1 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 82.1 | U | 82.1 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 92.6 | U | 92.6 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 88.5 | U | 88.5 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 81.3 | U | 81.3 | 340 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 41.1 | U | 41.1 | 81.5 | ug/Kg |
| 67-72-1 | Hexachloroethane | 84.6 | U | 84.6 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 92.5 | U | 92.5 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 86.2 | U | 86.2 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 96.3 | U | 96.3 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 94.9 | U | 94.9 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 87.4 | U | 87.4 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 76.9 | U | 76.9 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 84.1 | U | 84.1 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 84.1 | UQ | 84.1 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 84.9 | U | 84.9 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 88.4 | U | 88.4 | 340 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 79.0 | U | 79.0 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 84.0 | U | 84.0 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 160 | UQ | 160 | 340 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 72.7 | U | 72.7 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 75.4 | U | 75.4 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 89.0 | U | 89.0 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 84.9 | U | 84.9 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 96.8 | U | 96.8 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 83.2 | U | 83.2 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 98 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140578.D | 1 | 11/16/24 08:51 | 11/22/24 15:32 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 88.1 | U | 88.1 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 84.8 | U | 84.8 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 90.9 | UQ | 90.9 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 82.6 | U | 82.6 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 250 | U | 250 | 340 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 340 | ug/Kg |
| 132-64-9 | Dibenzofuran | 86.0 | U | 86.0 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 87.8 | U | 87.8 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 81.6 | U | 81.6 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 87.2 | U | 87.2 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 87.1 | U | 87.1 | 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 | 340 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 83.1 | U | 83.1 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 80.4 | U | 80.4 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 86.6 | U | 86.6 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 93.1 | U | 93.1 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 78.7 | U | 78.7 | 340 | ug/Kg |
| 85-01-8 | Phenanthrene | 85.6 | U | 85.6 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 86.0 | U | 86.0 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 81.8 | U | 81.8 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 85.9 | U | 85.9 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 83.2 | U | 83.2 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 84.6 | U | 84.6 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 98.6 | U | 98.6 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 100 | UQ | 100 | 340 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 82.2 | U | 82.2 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 81.0 | U | 81.0 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 92.7 | U | 92.7 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 110 | U | 110 | 340 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 82.6 | U | 82.6 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 98 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140578.D | 1 | 11/16/24 08:51 | 11/22/24 15:32 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 84.1 | U | 84.1 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 94.7 | U | 94.7 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 79.6 | U | 79.6 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 82.7 | U | 82.7 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 81.6 | U | 81.6 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 88.4 | U | 88.4 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 110 | U | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 76.1 | U | 76.1 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 75.2 | | 30 (18) - 130 (112) | 50% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 75.3 | | 30 (15) - 130 (107) | 50% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 52.4 | | 30 (18) - 130 (107) | 52% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 55.8 | | 30 (20) - 130 (109) | 56% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 74.2 | | 30 (10) - 130 (116) | 49% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 54.1 | | 30 (10) - 130 (105) | 54% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 93300 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 346000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 184000 | 9.904 | | | |
| 1517-22-2 | Phenanthrene-d10 | 341000 | 11.398 | | | |
| 1719-03-5 | Chrysene-d12 | 203000 | 14.045 | | | |
| 1520-96-3 | Perylene-d12 | 190000 | 15.533 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000994-05-8 | Butane, 2-methoxy-2-methyl- | 1200 | JB | | 2.14 | ug/Kg |
| 000119-61-9 | Benzophenone | 320 | J | | 10.6 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 130 | J | | 11.9 | ug/Kg |
| 010192-32-2 | 1-Tetracosene | 150 | J | | 13.9 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 98 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140578.D | 1 | 11/16/24 08:51 | 11/22/24 15:32 | PB165029 |

| 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.5 |
| 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 |
|---|---|---|---|---|
| BF140608.D | 1 | 11/16/24 08:51 | 11/25/24 17:41 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 190 | UQ | 190 | 340 | ug/Kg |
| 108-95-2 | Phenol | 84.8 | U | 84.8 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 85.6 | U | 85.6 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 85.4 | U | 85.4 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 82.4 | U | 82.4 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 93.0 | U | 93.0 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 88.9 | U | 88.9 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 81.6 | U | 81.6 | 340 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 41.2 | U | 41.2 | 81.8 | ug/Kg |
| 67-72-1 | Hexachloroethane | 84.9 | U | 84.9 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 92.8 | U | 92.8 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 86.5 | U | 86.5 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 96.6 | U | 96.6 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 95.3 | U | 95.3 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 87.7 | U | 87.7 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 77.2 | U | 77.2 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 84.5 | U | 84.5 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 84.5 | UQ | 84.5 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 85.2 | U | 85.2 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 88.8 | U | 88.8 | 340 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 79.2 | U | 79.2 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 84.4 | U | 84.4 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 160 | UQ | 160 | 340 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 73.0 | U | 73.0 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 75.7 | U | 75.7 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 89.4 | U | 89.4 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 85.2 | U | 85.2 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 97.1 | U | 97.1 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 83.5 | U | 83.5 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.5 |
| 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 |
|---|---|---|---|---|
| BF140608.D | 1 | 11/16/24 08:51 | 11/25/24 17:41 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 88.5 | U | 88.5 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 85.1 | U | 85.1 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 91.2 | UQ | 91.2 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 82.9 | U | 82.9 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 250 | U | 250 | 340 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 340 | ug/Kg |
| 132-64-9 | Dibenzofuran | 86.3 | U | 86.3 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 88.1 | U | 88.1 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 81.9 | U | 81.9 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 87.5 | U | 87.5 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 87.4 | U | 87.4 | 170 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 110 | U | 110 | 170 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 120 | 340 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 83.4 | U | 83.4 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 80.7 | U | 80.7 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 86.9 | U | 86.9 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 93.5 | U | 93.5 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 79.0 | U | 79.0 | 340 | ug/Kg |
| 85-01-8 | Phenanthrene | 85.9 | U | 85.9 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 86.3 | U | 86.3 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 82.1 | U | 82.1 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 86.2 | U | 86.2 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 83.5 | U | 83.5 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 84.9 | U | 84.9 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 99.0 | U | 99.0 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 100 | UQ | 100 | 340 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 82.5 | U | 82.5 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 81.3 | U | 81.3 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 93.1 | U | 93.1 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 110 | U | 110 | 340 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 82.9 | U | 82.9 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.5 |
| 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 |
|---|---|---|---|---|
| BF140608.D | 1 | 11/16/24 08:51 | 11/25/24 17:41 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 84.5 | U | 84.5 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 95.1 | U | 95.1 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 79.9 | U | 79.9 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 83.0 | U | 83.0 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 81.9 | U | 81.9 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 88.8 | U | 88.8 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 110 | U | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 76.4 | U | 76.4 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 91.0 | | 30 (18) - 130 (112) | 61% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 90.5 | | 30 (15) - 130 (107) | 60% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 63.2 | | 30 (18) - 130 (107) | 63% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 66.7 | | 30 (20) - 130 (109) | 67% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 85.8 | | 30 (10) - 130 (116) | 57% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 60.5 | | 30 (10) - 130 (105) | 61% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 65700 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 249000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 136000 | 9.904 | | | |
| 1517-22-2 | Phenanthrene-d10 | 254000 | 11.392 | | | |
| 1719-03-5 | Chrysene-d12 | 176000 | 14.045 | | | |
| 1520-96-3 | Perylene-d12 | 146000 | 15.545 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000119-61-9 | Benzophenone | 330 | J | | 10.6 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 220 | J | | 11.9 | ug/Kg |
| 001454-84-8 | n-Nonadecanol-1 | 170 | J | | 13.9 | ug/Kg |
| | unknown16.457 | 78.1 | J | | 16.5 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.5 |
| 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 |
|---|---|---|---|---|
| BF140608.D | 1 | 11/16/24 08:51 | 11/25/24 17:41 | PB165029 |

| 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.6 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140641.D | 1 | 11/16/24 08:51 | 11/26/24 14:55 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 190 | UQ | 190 | 340 | ug/Kg |
| 108-95-2 | Phenol | 84.9 | U | 84.9 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 85.7 | U | 85.7 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 85.5 | U | 85.5 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 82.5 | U | 82.5 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 93.0 | U | 93.0 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 88.9 | U | 88.9 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 81.7 | U | 81.7 | 340 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 41.2 | U | 41.2 | 81.9 | ug/Kg |
| 67-72-1 | Hexachloroethane | 85.0 | U | 85.0 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 92.9 | U | 92.9 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 86.6 | U | 86.6 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 96.7 | U | 96.7 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 95.4 | U | 95.4 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 87.8 | U | 87.8 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 77.3 | U | 77.3 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 84.5 | U | 84.5 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 84.5 | UQ | 84.5 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 85.3 | U | 85.3 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 88.8 | U | 88.8 | 340 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 79.3 | U | 79.3 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 84.4 | U | 84.4 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 160 | UQ | 160 | 340 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 73.1 | U | 73.1 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 75.7 | U | 75.7 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 89.5 | U | 89.5 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 85.3 | U | 85.3 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 97.2 | U | 97.2 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 83.6 | U | 83.6 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.6 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140641.D | 1 | 11/16/24 08:51 | 11/26/24 14:55 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 88.5 | U | 88.5 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 85.2 | U | 85.2 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 91.3 | UQ | 91.3 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 83.0 | U | 83.0 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 250 | U | 250 | 340 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 340 | ug/Kg |
| 132-64-9 | Dibenzofuran | 86.4 | U | 86.4 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 88.2 | U | 88.2 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 82.0 | U | 82.0 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 87.6 | U | 87.6 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 87.5 | U | 87.5 | 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 | 340 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 83.5 | U | 83.5 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 80.8 | U | 80.8 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 87.0 | U | 87.0 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 93.6 | U | 93.6 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 79.1 | U | 79.1 | 340 | ug/Kg |
| 85-01-8 | Phenanthrene | 86.0 | U | 86.0 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 86.4 | U | 86.4 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 82.2 | U | 82.2 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 86.3 | U | 86.3 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 83.6 | U | 83.6 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 85.0 | U | 85.0 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 99.1 | U | 99.1 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 100 | UQ | 100 | 340 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 82.6 | U | 82.6 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 81.4 | U | 81.4 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 93.1 | U | 93.1 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 110 | U | 110 | 340 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 83.0 | U | 83.0 | 170 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.6 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140641.D | 1 | 11/16/24 08:51 | 11/26/24 14:55 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 84.5 | U | 84.5 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 95.2 | U | 95.2 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 79.9 | U | 79.9 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 83.1 | U | 83.1 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 82.0 | U | 82.0 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 88.8 | U | 88.8 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 110 | U | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 76.5 | U | 76.5 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 84.1 | | 30 (18) - 130 (112) | 56% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 85.6 | | 30 (15) - 130 (107) | 57% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 59.1 | | 30 (18) - 130 (107) | 59% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 65.2 | | 30 (20) - 130 (109) | 65% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 74.0 | | 30 (10) - 130 (116) | 49% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 68.4 | | 30 (10) - 130 (105) | 68% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 73400 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 270000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 140000 | 9.904 | | | |
| 1517-22-2 | Phenanthrene-d10 | 253000 | 11.398 | | | |
| 1719-03-5 | Chrysene-d12 | 141000 | 14.045 | | | |
| 1520-96-3 | Perylene-d12 | 153000 | 15.539 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000994-05-8 | Butane, 2-methoxy-2-methyl- | 1100 | JB | | 2.12 | ug/Kg |
| 000119-61-9 | Benzophenone | 330 | J | | 10.6 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 170 | J | | 11.9 | ug/Kg |
| 006566-19-4 | 10,18-Bisnorabieta-5,7,9(10),11,13 | 81.9 | J | | 12.6 | ug/Kg |
| 1000406-33-2 | Isobutyl tetracosyl ether | 280 | J | | 13.9 | ug/Kg |
| 000629-94-7 | Heneicosane | 79.8 | J | | 14.2 | ug/Kg |
| 000638-68-6 | Triacontane | 140 | J | | 14.5 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.6 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140641.D | 1 | 11/16/24 08:51 | 11/26/24 14:55 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 001560-98-1 | Octacosane, 2-methyl- | 74.7 | J | | 14.8 | ug/Kg |
| 000112-95-8 | Eicosane | 100 | J | | 15.2 | ug/Kg |
| | unknown16.245 | 230 | J | | 16.2 | ug/Kg |
| 015600-08-5 | Cholestan-3-one | 220 | J | | 16.4 | ug/Kg |
| | unknown16.498 | 75.7 | J | | 16.5 | ug/Kg |
| | unknown17.439 | 77.4 | J | | 17.4 | ug/Kg |
| | unknown17.651 | 70.6 | J | | 17.7 | ug/Kg |

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

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

# QC SUMMARY

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# Surrogate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| P4860-01 | DUP-01 | 2-Fluorophenol | 150 | 98.6 | 66 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 97.7 | 65 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 67.9 | 68 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 73.5 | 73 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 92.4 | 62 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 71.0 | 71 | | 30 (10) | 130 (105) |
| P4860-02 | PH2-BOT-001 | 2-Fluorophenol | 150 | 99.7 | 66 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 96.8 | 65 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 71.8 | 72 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 79.9 | 80 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 86.7 | 58 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 67.9 | 68 | | 30 (10) | 130 (105) |
| P4860-03 | PH2-BOT-002 | 2-Fluorophenol | 150 | 110 | 74 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 108 | 72 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 74.3 | 74 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 77.4 | 77 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 109 | 73 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 69.3 | 69 | | 30 (10) | 130 (105) |
| P4860-04 | PH2-BOT-003 | 2-Fluorophenol | 150 | 102 | 68 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 101 | 67 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 70.4 | 70 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 73.2 | 73 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 102 | 68 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 72.7 | 73 | | 30 (10) | 130 (105) |
| P4860-05 | PH2-BOT-004 | 2-Fluorophenol | 150 | 87.3 | 58 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 84.5 | 56 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 59.5 | 59 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 63.7 | 64 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 82.4 | 55 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 63.6 | 64 | | 30 (10) | 130 (105) |
| P4860-06 | PH2-BOT-009 | 2-Fluorophenol | 150 | 86.9 | 58 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 87.6 | 58 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 60.1 | 60 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 62.8 | 63 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 79.0 | 53 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 60.9 | 61 | | 30 (10) | 130 (105) |
| P4860-07 | PH2-BOT-008 | 2-Fluorophenol | 150 | 92.1 | 61 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 90.4 | 60 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 62.1 | 62 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 64.9 | 65 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 88.7 | 59 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 60.5 | 60 | | 30 (10) | 130 (105) |
| P4860-08 | PH2-BOT-007 | 2-Fluorophenol | 150 | 75.2 | 50 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 75.3 | 50 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 52.4 | 52 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 55.8 | 56 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 74.2 | 49 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 54.1 | 54 | | 30 (10) | 130 (105) |
| P4860-09 | PH2-BOT-006 | 2-Fluorophenol | 150 | 91.0 | 61 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 90.5 | 60 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 63.2 | 63 | | 30 (18) | 130 (107) |

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# Surrogate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| P4860-09 | PH2-BOT-006 | 2-Fluorobiphenyl | 100 | 66.7 | 67 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 85.8 | 57 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 60.5 | 61 | | 30 (10) | 130 (105) |
| P4860-09MS | PH2-BOT-006MS | 2-Fluorophenol | 150 | 104 | 69 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 103 | 69 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 71.2 | 71 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 73.5 | 73 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 109 | 73 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 84.0 | 84 | | 30 (10) | 130 (105) |
| P4860-09MSD | PH2-BOT-006MSD | 2-Fluorophenol | 150 | 102 | 68 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 103 | 68 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 71.9 | 72 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 73.6 | 74 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 113 | 75 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 84.9 | 85 | | 30 (10) | 130 (105) |
| P4860-10 | PH2-BOT-005 | 2-Fluorophenol | 150 | 84.1 | 56 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 85.6 | 57 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 59.1 | 59 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 65.2 | 65 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 74.0 | 49 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 68.4 | 68 | | 30 (10) | 130 (105) |
| PB165029BL | PB165029BL | 2-Fluorophenol | 150 | 124 | 83 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 120 | 80 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 85.3 | 85 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 88.5 | 88 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 126 | 84 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 88.4 | 88 | | 30 (10) | 130 (105) |
| PB165029BS | PB165029BS | 2-Fluorophenol | 150 | 120 | 80 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 115 | 77 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 82.5 | 82 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 84.9 | 85 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 128 | 85 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 98.5 | 99 | | 30 (10) | 130 (105) |

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: P4860-09MS** | | **Client Sample ID: PH2-BOT-006MS** | | | | | | **DataFile: BF140639.D** | | | |
| Benzaldehyde | 1700 | 0 | 210 | ug/Kg | 12 | * | | | 20 (10) | 160 (86) | |
| Phenol | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 20 (67) | 160 (126) | |
| bis(2-Chloroethyl)ether | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (54) | 130 (125) | |
| 2-Chlorophenol | 1700 | 0 | 1700 | ug/Kg | 100 | | | | 70 (79) | 130 (107) | |
| 2-Methylphenol | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (66) | 130 (122) | |
| 2,2-oxybis(1-Chloropropane) | 1700 | 0 | 1700 | ug/Kg | 100 | | | | 70 (65) | 130 (110) | |
| Acetophenone | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (75) | 130 (111) | |
| 3+4-Methylphenols | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 20 (66) | 160 (104) | |
| N-Nitroso-di-n-propylamine | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (59) | 130 (119) | |
| Hexachloroethane | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 20 (65) | 160 (117) | |
| Nitrobenzene | 1700 | 0 | 1500 | ug/Kg | 88 | | | | 70 (70) | 130 (119) | |
| Isophorone | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (76) | 130 (122) | |
| 2-Nitrophenol | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (54) | 130 (145) | |
| 2,4-Dimethylphenol | 1700 | 0 | 1900 | ug/Kg | 112 | | | | 70 (44) | 130 (135) | |
| bis(2-Chloroethoxy)methane | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (68) | 130 (112) | |
| 2,4-Dichlorophenol | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (72) | 130 (118) | |
| Naphthalene | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (72) | 130 (110) | |
| 4-Chloroaniline | 1700 | 0 | 680 | ug/Kg | 40 | * | | | 70 (10) | 130 (91) | |
| Hexachlorobutadiene | 1700 | 0 | 1500 | ug/Kg | 88 | | | | 70 (66) | 130 (114) | |
| Caprolactam | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 20 (51) | 160 (134) | |
| 4-Chloro-3-methylphenol | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (57) | 130 (132) | |
| 2-Methylnaphthalene | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (59) | 130 (123) | |
| Hexachlorocyclopentadiene | 3400 | 0 | 4700 | ug/Kg | 138 | | | | 20 (10) | 160 (175) | |
| 2,4,6-Trichlorophenol | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (72) | 130 (117) | |
| 2,4,5-Trichlorophenol | 1700 | 0 | 1700 | ug/Kg | 100 | | | | 70 (72) | 130 (117) | |
| 1,1-Biphenyl | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (75) | 130 (113) | |
| 2-Chloronaphthalene | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (67) | 130 (118) | |
| 2-Nitroaniline | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (69) | 130 (127) | |
| Dimethylphthalate | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (70) | 130 (113) | |
| Acenaphthylene | 1700 | 0 | 1700 | ug/Kg | 100 | | | | 70 (79) | 130 (118) | |
| 2,6-Dinitrotoluene | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (70) | 130 (125) | |
| 3-Nitroaniline | 1700 | 0 | 940 | ug/Kg | 55 | * | | | 70 (30) | 130 (99) | |
| Acenaphthene | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (70) | 130 (121) | |
| 2,4-Dinitrophenol | 3400 | 0 | 3000 | ug/Kg | 88 | | | | 20 (10) | 160 (155) | |
| 4-Nitrophenol | 3400 | 0 | 3600 | ug/Kg | 106 | | | | 20 (45) | 160 (133) | |
| Dibenzofuran | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (72) | 130 (110) | |
| 2,4-Dinitrotoluene | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (55) | 130 (128) | |
| Diethylphthalate | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (70) | 130 (112) | |
| 4-Chlorophenyl-phenylether | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (71) | 130 (108) | |
| Fluorene | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (68) | 130 (116) | |
| 4-Nitroaniline | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (55) | 130 (120) | |
| 4,6-Dinitro-2-methylphenol | 1700 | 0 | 1700 | ug/Kg | 100 | | | | 70 (10) | 130 (160) | |
| N-Nitrosodiphenylamine | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (73) | 130 (118) | |
| 4-Bromophenyl-phenylether | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (65) | 130 (121) | |
| Hexachlorobenzene | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (67) | 130 (118) | |
| Atrazine | 1700 | 0 | 1900 | ug/Kg | 112 | | | | 70 (79) | 130 (127) | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 3400 | 0 | 3400 | ug/Kg | 100 | | | | 20 (47) | 160 (128) | |
| Phenanthrene | 1700 | 0 | 1700 | ug/Kg | 100 | | | | 70 (52) | 130 (128) | |
| Anthracene | 1700 | 0 | 1700 | ug/Kg | 100 | | | | 70 (62) | 130 (124) | |
| Carbazole | 1700 | 0 | 1700 | ug/Kg | 100 | | | | 70 (59) | 130 (119) | |
| Di-n-butylphthalate | 1700 | 0 | 1700 | ug/Kg | 100 | | | | 70 (69) | 130 (118) | |
| Fluoranthene | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (44) | 130 (125) | |
| Pyrene | 1700 | 0 | 1800 | ug/Kg | 106 | | | | 70 (26) | 130 (142) | |
| Butylbenzylphthalate | 1700 | 0 | 1900 | ug/Kg | 112 | | | | 70 (64) | 130 (126) | |
| 3,3-Dichlorobenzidine | 1700 | 0 | 1100 | ug/Kg | 65 | * | | | 70 (33) | 130 (116) | |
| Benzo(a)anthracene | 1700 | 0 | 1700 | ug/Kg | 100 | | | | 70 (71) | 130 (114) | |
| Chrysene | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (57) | 130 (121) | |
| bis(2-Ethylhexyl)phthalate | 1700 | 0 | 2000 | ug/Kg | 118 | | | | 70 (42) | 130 (169) | |
| Di-n-octyl phthalate | 1700 | 0 | 2000 | ug/Kg | 118 | | | | 70 (23) | 130 (175) | |
| Benzo(b)fluoranthene | 1700 | 0 | 1500 | ug/Kg | 88 | | | | 70 (67) | 130 (121) | |
| Benzo(k)fluoranthene | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (57) | 130 (134) | |
| Benzo(a)pyrene | 1700 | 0 | 1800 | ug/Kg | 106 | | | | 70 (70) | 130 (142) | |
| Indeno(1,2,3-cd)pyrene | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (40) | 130 (129) | |
| Dibenz(a,h)anthracene | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (43) | 130 (123) | |
| Benzo(g,h,i)perylene | 1700 | 0 | 1300 | ug/Kg | 76 | | | | 70 (24) | 130 (125) | |
| 1,2,4,5-Tetrachlorobenzene | 1700 | 0 | 1600 | ug/Kg | 94 | | | | 70 (69) | 130 (124) | |
| 1,4-Dioxane | 1700 | 0 | 1500 | ug/Kg | 88 | | | | 20 (46) | 160 (112) | |
| 2,3,4,6-Tetrachlorophenol | 1700 | 0 | 1700 | ug/Kg | 100 | | | | 70 (69) | 130 (112) | |

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: P4860-09MSD** | | **Client Sample ID: PH2-BOT-006MSD** | | | | | | **DataFile: BF140640.D** | | | |
| Benzaldehyde | 1700 | 0 | 210 | ug/Kg | 12 | * | 0 | | 20 (10) | 160 (86) | 30 (20) |
| Phenol | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 20 (67) | 160 (126) | 30 (20) |
| bis(2-Chloroethyl)ether | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (54) | 130 (125) | 30 (20) |
| 2-Chlorophenol | 1700 | 0 | 1600 | ug/Kg | 94 | | 6 | | 70 (79) | 130 (107) | 30 (20) |
| 2-Methylphenol | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (66) | 130 (122) | 30 (20) |
| 2,2-oxybis(1-Chloropropane) | 1700 | 0 | 1700 | ug/Kg | 100 | | 0 | | 70 (65) | 130 (110) | 30 (20) |
| Acetophenone | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (75) | 130 (111) | 30 (20) |
| 3+4-Methylphenols | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 20 (66) | 160 (104) | 30 (20) |
| N-Nitroso-di-n-propylamine | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (59) | 130 (119) | 30 (20) |
| Hexachloroethane | 1700 | 0 | 1500 | ug/Kg | 88 | | 7 | | 20 (65) | 160 (117) | 30 (20) |
| Nitrobenzene | 1700 | 0 | 1500 | ug/Kg | 88 | | 0 | | 70 (70) | 130 (119) | 30 (20) |
| Isophorone | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (76) | 130 (122) | 30 (20) |
| 2-Nitrophenol | 1700 | 0 | 1700 | ug/Kg | 100 | | 6 | | 70 (54) | 130 (145) | 30 (20) |
| 2,4-Dimethylphenol | 1700 | 0 | 1900 | ug/Kg | 112 | | 0 | | 70 (44) | 130 (135) | 30 (20) |
| bis(2-Chloroethoxy)methane | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (68) | 130 (112) | 30 (20) |
| 2,4-Dichlorophenol | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (72) | 130 (118) | 30 (20) |
| Naphthalene | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (72) | 130 (110) | 30 (20) |
| 4-Chloroaniline | 1700 | 0 | 680 | ug/Kg | 40 | * | 0 | | 70 (10) | 130 (91) | 30 (20) |
| Hexachlorobutadiene | 1700 | 0 | 1500 | ug/Kg | 88 | | 0 | | 70 (66) | 130 (114) | 30 (20) |
| Caprolactam | 1700 | 0 | 1700 | ug/Kg | 100 | | 6 | | 20 (51) | 160 (134) | 30 (20) |
| 4-Chloro-3-methylphenol | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (57) | 130 (132) | 30 (20) |
| 2-Methylnaphthalene | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (59) | 130 (123) | 30 (20) |
| Hexachlorocyclopentadiene | 3400 | 0 | 4700 | ug/Kg | 138 | | 0 | | 20 (10) | 160 (175) | 30 (20) |
| 2,4,6-Trichlorophenol | 1700 | 0 | 1700 | ug/Kg | 100 | | 6 | | 70 (72) | 130 (117) | 30 (20) |
| 2,4,5-Trichlorophenol | 1700 | 0 | 1600 | ug/Kg | 94 | | 6 | | 70 (72) | 130 (117) | 30 (20) |
| 1,1-Biphenyl | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (75) | 130 (113) | 30 (20) |
| 2-Chloronaphthalene | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (67) | 130 (118) | 30 (20) |
| 2-Nitroaniline | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (69) | 130 (127) | 30 (20) |
| Dimethylphthalate | 1700 | 0 | 1700 | ug/Kg | 100 | | 6 | | 70 (70) | 130 (113) | 30 (20) |
| Acenaphthylene | 1700 | 0 | 1700 | ug/Kg | 100 | | 0 | | 70 (79) | 130 (118) | 30 (20) |
| 2,6-Dinitrotoluene | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (70) | 130 (125) | 30 (20) |
| 3-Nitroaniline | 1700 | 0 | 970 | ug/Kg | 57 | * | 4 | | 70 (30) | 130 (99) | 30 (20) |
| Acenaphthene | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (70) | 130 (121) | 30 (20) |
| 2,4-Dinitrophenol | 3400 | 0 | 3200 | ug/Kg | 94 | | 7 | | 20 (10) | 160 (155) | 30 (20) |
| 4-Nitrophenol | 3400 | 0 | 3700 | ug/Kg | 109 | | 3 | | 20 (45) | 160 (133) | 30 (20) |
| Dibenzofuran | 1700 | 0 | 1700 | ug/Kg | 100 | | 6 | | 70 (72) | 130 (110) | 30 (20) |
| 2,4-Dinitrotoluene | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (55) | 130 (128) | 30 (20) |
| Diethylphthalate | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (70) | 130 (112) | 30 (20) |
| 4-Chlorophenyl-phenylether | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (71) | 130 (108) | 30 (20) |
| Fluorene | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (68) | 130 (116) | 30 (20) |
| 4-Nitroaniline | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (55) | 130 (120) | 30 (20) |
| 4,6-Dinitro-2-methylphenol | 1700 | 0 | 1800 | ug/Kg | 106 | | 6 | | 70 (10) | 130 (160) | 30 (20) |
| N-Nitrosodiphenylamine | 1700 | 0 | 1700 | ug/Kg | 100 | | 6 | | 70 (73) | 130 (118) | 30 (20) |
| 4-Bromophenyl-phenylether | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (65) | 130 (121) | 30 (20) |
| Hexachlorobenzene | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (67) | 130 (118) | 30 (20) |
| Atrazine | 1700 | 0 | 2000 | ug/Kg | 118 | | 5 | | 70 (79) | 130 (127) | 30 (20) |

( ) = LABORATORY INHOUSE LIMIT

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 3400 | 0 | 3600 | ug/Kg | 106 | | 6 | | 20 (47) | 160 (128) | 30 (20) |
| Phenanthrene | 1700 | 0 | 1700 | ug/Kg | 100 | | 0 | | 70 (52) | 130 (128) | 30 (20) |
| Anthracene | 1700 | 0 | 1800 | ug/Kg | 106 | | 6 | | 70 (62) | 130 (124) | 30 (20) |
| Carbazole | 1700 | 0 | 1700 | ug/Kg | 100 | | 0 | | 70 (59) | 130 (119) | 30 (20) |
| Di-n-butylphthalate | 1700 | 0 | 1700 | ug/Kg | 100 | | 0 | | 70 (69) | 130 (118) | 30 (20) |
| Fluoranthene | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (44) | 130 (125) | 30 (20) |
| Pyrene | 1700 | 0 | 1800 | ug/Kg | 106 | | 0 | | 70 (26) | 130 (142) | 30 (20) |
| Butylbenzylphthalate | 1700 | 0 | 1900 | ug/Kg | 112 | | 0 | | 70 (64) | 130 (126) | 30 (20) |
| 3,3-Dichlorobenzidine | 1700 | 0 | 1200 | ug/Kg | 71 | | 9 | | 70 (33) | 130 (116) | 30 (20) |
| Benzo(a)anthracene | 1700 | 0 | 1700 | ug/Kg | 100 | | 0 | | 70 (71) | 130 (114) | 30 (20) |
| Chrysene | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (57) | 130 (121) | 30 (20) |
| bis(2-Ethylhexyl)phthalate | 1700 | 0 | 2000 | ug/Kg | 118 | | 0 | | 70 (42) | 130 (169) | 30 (20) |
| Di-n-octyl phthalate | 1700 | 0 | 1900 | ug/Kg | 112 | | 5 | | 70 (23) | 130 (175) | 30 (20) |
| Benzo(b)fluoranthene | 1700 | 0 | 1500 | ug/Kg | 88 | | 0 | | 70 (67) | 130 (121) | 30 (20) |
| Benzo(k)fluoranthene | 1700 | 0 | 1700 | ug/Kg | 100 | | 6 | | 70 (57) | 130 (134) | 30 (20) |
| Benzo(a)pyrene | 1700 | 0 | 1800 | ug/Kg | 106 | | 0 | | 70 (70) | 130 (142) | 30 (20) |
| Indeno(1,2,3-cd)pyrene | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (40) | 130 (129) | 30 (20) |
| Dibenz(a,h)anthracene | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (43) | 130 (123) | 30 (20) |
| Benzo(g,h,i)perylene | 1700 | 0 | 1300 | ug/Kg | 76 | | 0 | | 70 (24) | 130 (125) | 30 (20) |
| 1,2,4,5-Tetrachlorobenzene | 1700 | 0 | 1600 | ug/Kg | 94 | | 0 | | 70 (69) | 130 (124) | 30 (20) |
| 1,4-Dioxane | 1700 | 0 | 1500 | ug/Kg | 88 | | 0 | | 20 (46) | 160 (112) | 30 (20) |
| 2,3,4,6-Tetrachlorophenol | 1700 | 0 | 1800 | ug/Kg | 106 | | 6 | | 70 (69) | 130 (112) | 30 (20) |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** 8270E **DataFile:** BF140445.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB165029BS | Benzaldehyde | 1700 | 180 | ug/Kg | 11 | | * | | 20 (10) | 160 (133) | |
| | Phenol | 1700 | 1400 | ug/Kg | 82 | | | | 20 (62) | 160 (112) | |
| | bis(2-Chloroethyl)ether | 1700 | 1400 | ug/Kg | 82 | | | | 70 (60) | 130 (101) | |
| | 2-Chlorophenol | 1700 | 1500 | ug/Kg | 88 | | | | 70 (65) | 130 (112) | |
| | 2-Methylphenol | 1700 | 1400 | ug/Kg | 82 | | | | 70 (61) | 130 (108) | |
| | 2,2-oxybis(1-Chloropropane) | 1700 | 1400 | ug/Kg | 82 | | | | 70 (51) | 130 (100) | |
| | Acetophenone | 1700 | 1400 | ug/Kg | 82 | | | | 70 (66) | 130 (98) | |
| | 3+4-Methylphenols | 1700 | 1400 | ug/Kg | 82 | | | | 20 (58) | 160 (111) | |
| | N-Nitroso-di-n-propylamine | 1700 | 1400 | ug/Kg | 82 | | | | 70 (63) | 130 (95) | |
| | Hexachloroethane | 1700 | 1400 | ug/Kg | 82 | | | | 20 (72) | 160 (108) | |
| | Nitrobenzene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (57) | 130 (101) | |
| | Isophorone | 1700 | 1400 | ug/Kg | 82 | | | | 70 (59) | 130 (99) | |
| | 2-Nitrophenol | 1700 | 1500 | ug/Kg | 88 | | | | 70 (61) | 130 (111) | |
| | 2,4-Dimethylphenol | 1700 | 1800 | ug/Kg | 106 | | | | 70 (46) | 130 (141) | |
| | bis(2-Chloroethoxy)methane | 1700 | 1400 | ug/Kg | 82 | | | | 70 (66) | 130 (97) | |
| | 2,4-Dichlorophenol | 1700 | 1500 | ug/Kg | 88 | | | | 70 (62) | 130 (107) | |
| | Naphthalene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (62) | 130 (100) | |
| | 4-Chloroaniline | 1700 | 810 | ug/Kg | 48 | | * | | 70 (16) | 130 (100) | |
| | Hexachlorobutadiene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (53) | 130 (98) | |
| | Caprolactam | 1700 | 1400 | ug/Kg | 82 | | | | 20 (67) | 160 (110) | |
| | 4-Chloro-3-methylphenol | 1700 | 1500 | ug/Kg | 88 | | | | 70 (58) | 130 (112) | |
| | 2-Methylnaphthalene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (60) | 130 (104) | |
| | Hexachlorocyclopentadiene | 3300 | 5700 | ug/Kg | 173 | | * | | 20 (45) | 160 (165) | |
| | 2,4,6-Trichlorophenol | 1700 | 1500 | ug/Kg | 88 | | | | 70 (59) | 130 (102) | |
| | 2,4,5-Trichlorophenol | 1700 | 1400 | ug/Kg | 82 | | | | 70 (61) | 130 (98) | |
| | 1,1-Biphenyl | 1700 | 1400 | ug/Kg | 82 | | | | 70 (57) | 130 (103) | |
| | 2-Chloronaphthalene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (58) | 130 (99) | |
| | 2-Nitroaniline | 1700 | 1500 | ug/Kg | 88 | | | | 70 (66) | 130 (101) | |
| | Dimethylphthalate | 1700 | 1500 | ug/Kg | 88 | | | | 70 (61) | 130 (99) | |
| | Acenaphthylene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (63) | 130 (101) | |
| | 2,6-Dinitrotoluene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (61) | 130 (104) | |
| | 3-Nitroaniline | 1700 | 910 | ug/Kg | 54 | | * | | 70 (28) | 130 (100) | |
| | Acenaphthene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (57) | 130 (104) | |
| | 2,4-Dinitrophenol | 3300 | 2800 | ug/Kg | 85 | | | | 20 (37) | 160 (128) | |
| | 4-Nitrophenol | 3300 | 2700 | ug/Kg | 82 | | | | 20 (48) | 160 (119) | |
| | Dibenzofuran | 1700 | 1500 | ug/Kg | 88 | | | | 70 (63) | 130 (99) | |
| | 2,4-Dinitrotoluene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (60) | 130 (106) | |
| | Diethylphthalate | 1700 | 1500 | ug/Kg | 88 | | | | 70 (60) | 130 (101) | |
| | 4-Chlorophenyl-phenylether | 1700 | 1500 | ug/Kg | 88 | | | | 70 (58) | 130 (98) | |
| | Fluorene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (61) | 130 (101) | |
| | 4-Nitroaniline | 1700 | 1400 | ug/Kg | 82 | | | | 70 (64) | 130 (103) | |
| | 4,6-Dinitro-2-methylphenol | 1700 | 1500 | ug/Kg | 88 | | | | 70 (76) | 130 (113) | |
| | N-Nitrosodiphenylamine | 1700 | 1500 | ug/Kg | 88 | | | | 70 (71) | 130 (99) | |
| | 4-Bromophenyl-phenylether | 1700 | 1500 | ug/Kg | 88 | | | | 70 (66) | 130 (102) | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** 8270E **DataFile:** BF140445.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB165029BS | Hexachlorobenzene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (64) | 130 (98) | |
| | Atrazine | 1700 | 1700 | ug/Kg | 100 | | | | 70 (47) | 130 (152) | |
| | Pentachlorophenol | 3300 | 2700 | ug/Kg | 82 | | | | 20 (67) | 160 (105) | |
| | Phenanthrene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (59) | 130 (103) | |
| | Anthracene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (61) | 130 (105) | |
| | Carbazole | 1700 | 1400 | ug/Kg | 82 | | | | 70 (61) | 130 (99) | |
| | Di-n-butylphthalate | 1700 | 1500 | ug/Kg | 88 | | | | 70 (58) | 130 (104) | |
| | Fluoranthene | 1700 | 1400 | ug/Kg | 82 | | | | 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 | 940 | ug/Kg | 55 | | * | | 70 (42) | 130 (91) | |
| | Benzo(a)anthracene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (60) | 130 (102) | |
| | Chrysene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (59) | 130 (101) | |
| | bis(2-Ethylhexyl)phthalate | 1700 | 1600 | ug/Kg | 94 | | | | 70 (54) | 130 (135) | |
| | Di-n-octyl phthalate | 1700 | 1500 | ug/Kg | 88 | | | | 70 (52) | 130 (137) | |
| | Benzo(b)fluoranthene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (62) | 130 (109) | |
| | Benzo(k)fluoranthene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (62) | 130 (109) | |
| | Benzo(a)pyrene | 1700 | 1600 | ug/Kg | 94 | | | | 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 | 1400 | ug/Kg | 82 | | | | 70 (53) | 130 (101) | |
| | 1,4-Dioxane | 1700 | 1200 | ug/Kg | 71 | | | | 20 (50) | 160 (96) | |
| | 2,3,4,6-Tetrachlorophenol | 1700 | 1500 | ug/Kg | 88 | | | | 70 (59) | 130 (108) | |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165029BL

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Lab File ID: BF140444.D Lab Sample ID: PB165029BL

Instrument ID: BNA_F Date Extracted: 11/16/2024

Matrix: (soil/water) SOIL Date Analyzed: 11/18/2024

Level: (low/med) LOW Time Analyzed: 10:39

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| PB165029BS | PB165029BS | BF140445.D | 11/18/2024 |
| PH2-BOT-007 | P4860-08 | BF140578.D | 11/22/2024 |
| PH2-BOT-004 | P4860-05 | BF140579.D | 11/22/2024 |
| PH2-BOT-001 | P4860-02 | BF140588.D | 11/22/2024 |
| DUP-01 | P4860-01 | BF140609.D | 11/25/2024 |
| PH2-BOT-006 | P4860-09 | BF140608.D | 11/25/2024 |
| PH2-BOT-009 | P4860-06 | BF140615.D | 11/25/2024 |
| PH2-BOT-003 | P4860-04 | BF140620.D | 11/25/2024 |
| PH2-BOT-008 | P4860-07 | BF140621.D | 11/25/2024 |
| PH2-BOT-002 | P4860-03 | BF140622.D | 11/25/2024 |
| PH2-BOT-006MS | P4860-09MS | BF140639.D | 11/26/2024 |
| PH2-BOT-006MSD | P4860-09MSD | BF140640.D | 11/26/2024 |
| PH2-BOT-005 | P4860-10 | BF140641.D | 11/26/2024 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM SAS No.: P4860 SDG NO.: P4860

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

Instrument ID: BNA_F DFTPP Injection Time: 08:35

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 36.9 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 38 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48.6 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.4 |
| 275 | 10.0 - 60.0% of mass 198 | 28.3 |
| 365 | Greater than 1% of mass 198 | 3.5 |
| 441 | Present, but less than mass 443 | 14 |
| 442 | Greater than 50% of mass 198 | 88.6 |
| 443 | 15.0 - 24.0% of mass 442 | 16.7 (18.8) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BF140332.D | 11/13/2024 | 09:01 |
| SSTDICC005 | SSTDICC005 | BF140333.D | 11/13/2024 | 09:27 |
| SSTDICC010 | SSTDICC010 | BF140334.D | 11/13/2024 | 09:53 |
| SSTDICC020 | SSTDICC020 | BF140335.D | 11/13/2024 | 10:29 |
| SSTDICC050 | SSTDICC050 | BF140337.D | 11/13/2024 | 11:21 |
| SSTDICC060 | SSTDICC060 | BF140338.D | 11/13/2024 | 11:47 |
| SSTDICC080 | SSTDICC080 | BF140339.D | 11/13/2024 | 12:13 |
| SSTDICCC040 | SSTDICCC040 | BF140340.D | 11/13/2024 | 12:48 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM SAS No.: P4860 SDG NO.: P4860

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

Instrument ID: BNA_F DFTPP Injection Time: 09:18

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 35.3 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 36.9 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.7 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48.2 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.7 |
| 275 | 10.0 - 60.0% of mass 198 | 28.7 |
| 365 | Greater than 1% of mass 198 | 3.6 |
| 441 | Present, but less than mass 443 | 15.3 |
| 442 | Greater than 50% of mass 198 | 97.5 |
| 443 | 15.0 - 24.0% of mass 442 | 18.1 (18.5) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF140443.D | 11/18/2024 | 10:13 |
| PB165029BL | PB165029BL | BF140444.D | 11/18/2024 | 10:39 |
| PB165029BS | PB165029BS | BF140445.D | 11/18/2024 | 11:05 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM SAS No.: P4860 SDG NO.: P4860

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 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM SAS No.: P4860 SDG NO.: P4860

Lab File ID: BF140563.D DFTPP Injection Date: 11/22/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:54

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 29.9 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 32.6 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 43 |
| 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 |
| 275 | 10.0 - 60.0% of mass 198 | 27.3 |
| 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 | 17.9 (17.9) 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 | BF140564.D | 11/22/2024 | 09:20 |
| PH2-BOT-007 | P4860-08 | BF140578.D | 11/22/2024 | 15:32 |
| PH2-BOT-004 | P4860-05 | BF140579.D | 11/22/2024 | 15:58 |
| PH2-BOT-001 | P4860-02 | BF140588.D | 11/22/2024 | 19:53 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM SAS No.: P4860 SDG NO.: P4860

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 |
| PH2-BOT-006 | P4860-09 | BF140608.D | 11/25/2024 | 17:41 |
| DUP-01 | P4860-01 | BF140609.D | 11/25/2024 | 18:07 |
| PH2-BOT-009 | P4860-06 | BF140615.D | 11/25/2024 | 20:45 |
| PH2-BOT-003 | P4860-04 | BF140620.D | 11/25/2024 | 22:55 |
| PH2-BOT-008 | P4860-07 | BF140621.D | 11/25/2024 | 23:22 |
| PH2-BOT-002 | P4860-03 | BF140622.D | 11/25/2024 | 23:48 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM SAS No.: P4860 SDG NO.: P4860

Lab File ID: BF140628.D DFTPP Injection Date: 11/26/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:09

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 35.5 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 37.7 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48.9 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.7 |
| 275 | 10.0 - 60.0% of mass 198 | 28.9 |
| 365 | Greater than 1% of mass 198 | 3.6 |
| 441 | Present, but less than mass 443 | 15.1 |
| 442 | Greater than 50% of mass 198 | 96.5 |
| 443 | 15.0 - 24.0% of mass 442 | 18.3 ( 19 ) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF140629.D | 11/26/2024 | 09:35 |
| PH2-BOT-006MS | P4860-09MS | BF140639.D | 11/26/2024 | 14:03 |
| PH2-BOT-006MSD | P4860-09MSD | BF140640.D | 11/26/2024 | 14:29 |
| PH2-BOT-005 | P4860-10 | BF140641.D | 11/26/2024 | 14:55 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/18/2024

Lab File ID: BF140443.D Time Analyzed: 10:13

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 140634 | 6.875 | 521097 | 8.16 | 286394 | 9.92 |
| | UPPER LIMIT | 281268 | 7.375 | 1042190 | 8.657 | 572788 | 10.416 |
| | LOWER LIMIT | 70317 | 6.375 | 260549 | 7.657 | 143197 | 9.416 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB165029BL | 142751 | 6.88 | 545917 | 8.15 | 305122 | 9.91 |
| 02 | PB165029BS | 142797 | 6.88 | 543909 | 8.16 | 303339 | 9.92 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/18/2024

Lab File ID: BF140443.D Time Analyzed: 10:13

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 525142 | 11.404 | 270046 | 14.074 | 249102 | 15.604 |
| | UPPER LIMIT | 1050280 | 11.904 | 540092 | 14.574 | 498204 | 16.104 |
| | LOWER LIMIT | 262571 | 10.904 | 135023 | 13.574 | 124551 | 15.104 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB165029BL | 581224 | 11.40 | 355427 | 14.05 | 295657 | 15.55 |
| 02 | PB165029BS | 568567 | 11.40 | 301677 | 14.06 | 262350 | 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.: P4860 SAS No.: P4860 SDG NO.: P4860

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/22/2024

Lab File ID: BF140564.D Time Analyzed: 09:20

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 | 98979 | 6.869 | 364482 | 8.15 | 206333 | 9.91 |
| | UPPER LIMIT | 197958 | 7.369 | 728964 | 8.651 | 412666 | 10.41 |
| | LOWER LIMIT | 49489.5 | 6.369 | 182241 | 7.651 | 103167 | 9.41 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PH2-BOT-004 | 90927 | 6.87 | 332795 | 8.15 | 173346 | 9.90 |
| 02 | PH2-BOT-007 | 93283 | 6.87 | 346410 | 8.15 | 184115 | 9.90 |
| 03 | PH2-BOT-001 | 91972 | 6.87 | 309675 | 8.15 | 141425 | 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.: P4860 SAS No.: P4860 SDG NO.: P4860

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/22/2024

Lab File ID: BF140564.D Time Analyzed: 09:20

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 | 385080 | 11.398 | 243124 | 14.051 | 183783 | 15.539 |
| | UPPER LIMIT | 770160 | 11.898 | 486248 | 14.551 | 367566 | 16.039 |
| | LOWER LIMIT | 192540 | 10.898 | 121562 | 13.551 | 91891.5 | 15.039 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PH2-BOT-004 | 323538 | 11.40 | 178379 | 14.05 | 173467 | 15.53 |
| 02 | PH2-BOT-007 | 340852 | 11.40 | 203007 | 14.05 | 190451 | 15.53 |
| 03 | PH2-BOT-001 | 223631 | 11.40 | 148537 | 14.05 | 113324 | 15.53 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

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 | PH2-BOT-002 | 57850 | 6.87 | 212247 | 8.15 | 114728 | 9.90 |
| 02 | PH2-BOT-003 | 59191 | 6.87 | 215928 | 8.15 | 117690 | 9.90 |
| 03 | PH2-BOT-009 | 56272 | 6.87 | 212229 | 8.15 | 114630 | 9.90 |
| 04 | PH2-BOT-008 | 56779 | 6.87 | 211702 | 8.15 | 113735 | 9.90 |
| 05 | DUP-01 | 64351 | 6.87 | 240053 | 8.15 | 128312 | 9.90 |
| 06 | PH2-BOT-006 | 65730 | 6.87 | 249226 | 8.15 | 135754 | 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.: P4860 SAS No.: P4860 SDG NO.: P4860

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 | PH2-BOT-002 | 210520 | 11.39 | 124009 | 14.05 | 108011 | 15.54 |
| 02 | PH2-BOT-003 | 222510 | 11.39 | 134073 | 14.04 | 132029 | 15.53 |
| 03 | PH2-BOT-009 | 214306 | 11.39 | 141699 | 14.05 | 130450 | 15.54 |
| 04 | PH2-BOT-008 | 220246 | 11.39 | 128275 | 14.04 | 122422 | 15.53 |
| 05 | DUP-01 | 245251 | 11.39 | 151880 | 14.05 | 134969 | 15.54 |
| 06 | PH2-BOT-006 | 253640 | 11.39 | 176049 | 14.05 | 146465 | 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.: P4860 SAS No.: P4860 SDG NO.: P4860

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/26/2024

Lab File ID: BF140629.D Time Analyzed: 09:35

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 116102 | 6.875 | 431552 | 8.16 | 243269 | 9.91 |
| | UPPER LIMIT | 232204 | 7.375 | 863104 | 8.657 | 486538 | 10.41 |
| | LOWER LIMIT | 58051 | 6.375 | 215776 | 7.657 | 121635 | 9.41 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PH2-BOT-006MS | 72875 | 6.87 | 271368 | 8.15 | 144034 | 9.91 |
| 02 | PH2-BOT-006MSD | 75738 | 6.87 | 275981 | 8.15 | 148258 | 9.91 |
| 03 | PH2-BOT-005 | 73436 | 6.87 | 269764 | 8.15 | 139709 | 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.: P4860 SAS No.: P4860 SDG NO.: P4860

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/26/2024

Lab File ID: BF140629.D Time Analyzed: 09:35

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 448777 | 11.404 | 250776 | 14.051 | 214776 | 15.551 |
| | UPPER LIMIT | 897554 | 11.904 | 501552 | 14.551 | 429552 | 16.051 |
| | LOWER LIMIT | 224389 | 10.904 | 125388 | 13.551 | 107388 | 15.051 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PH2-BOT-006MS | 272823 | 11.40 | 144480 | 14.05 | 156989 | 15.54 |
| 02 | PH2-BOT-006MSD | 278787 | 11.40 | 147921 | 14.05 | 159754 | 15.54 |
| 03 | PH2-BOT-005 | 252976 | 11.40 | 141346 | 14.05 | 153491 | 15.54 |

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

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

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

# QC SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165029BL | SDG No.: | P4860 |
| Lab Sample ID: | PB165029BL | 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 |
|---|---|---|---|---|
| BF140444.D | 1 | 11/16/24 08:51 | 11/18/24 10:39 | PB165029 |

| 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165029BL | SDG No.: | P4860 |
| Lab Sample ID: | PB165029BL | 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 |
|---|---|---|---|---|
| BF140444.D | 1 | 11/16/24 08:51 | 11/18/24 10:39 | PB165029 |

| 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165029BL | SDG No.: | P4860 |
| Lab Sample ID: | PB165029BL | 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 |
|---|---|---|---|---|
| BF140444.D | 1 | 11/16/24 08:51 | 11/18/24 10:39 | PB165029 |

| 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 | 85.3 | | 30 (18) - 130 (107) | 85% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 88.5 | | 30 (20) - 130 (109) | 88% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 126 | | 30 (10) - 130 (116) | 84% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 88.4 | | 30 (10) - 130 (105) | 88% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 143000 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 546000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 305000 | 9.91 | | | |
| 1517-22-2 | Phenanthrene-d10 | 581000 | 11.398 | | | |
| 1719-03-5 | Chrysene-d12 | 355000 | 14.045 | | | |
| 1520-96-3 | Perylene-d12 | 296000 | 15.545 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000994-05-8 | Butane, 2-methoxy-2-methyl- | 70.3 | J | | 2.22 | ug/Kg |
| 006311-48-4 | (1,1-Biphenyl)-4,4-diamine, N,N | 160 | J | | 17.4 | ug/Kg |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | | Date Collected: | |
| Project: | Ocean County Landfill 2024 | | | Date Received: | |
| Client Sample ID: | PB165029BL | | | SDG No.: | P4860 |
| Lab Sample ID: | PB165029BL | | | 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 |
|---|---|---|---|---|
| BF140444.D | 1 | 11/16/24 08:51 | 11/18/24 10:39 | PB165029 |

| 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165029BS | SDG No.: | P4860 |
| Lab Sample ID: | PB165029BS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140445.D | 1 | 11/16/24 08:51 | 11/18/24 11:05 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 180 | J | 180 | 330 | ug/Kg |
| 108-95-2 | Phenol | 1400 | | 82.8 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1400 | | 83.6 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1500 | | 83.4 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1400 | | 80.5 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1400 | | 90.8 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 1400 | | 86.8 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1400 | | 79.7 | 330 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1400 | | 40.3 | 79.9 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1400 | | 82.9 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1400 | | 90.7 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 1400 | | 84.5 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1500 | | 94.4 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 1800 | | 93.1 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1400 | | 85.7 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1500 | | 75.4 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 1400 | | 82.5 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 810 | | 82.5 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1400 | | 83.2 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 1400 | | 86.7 | 330 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1500 | | 77.4 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1400 | | 82.4 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 5700 | E | 160 | 330 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1500 | | 71.3 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1400 | | 73.9 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1400 | | 87.3 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1400 | | 83.2 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1500 | | 94.9 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1500 | | 81.6 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165029BS | SDG No.: | P4860 |
| Lab Sample ID: | PB165029BS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140445.D | 1 | 11/16/24 08:51 | 11/18/24 11:05 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1500 | | 86.4 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1400 | | 83.1 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 910 | | 89.1 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 1600 | | 81.0 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 2800 | E | 240 | 330 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 2700 | E | 120 | 330 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1500 | | 84.3 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1500 | | 86.1 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1500 | | 80.0 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1500 | | 85.5 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 1400 | | 85.4 | 170 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 1400 | | 110 | 170 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1500 | | 120 | 330 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1500 | | 81.5 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1500 | | 78.8 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1500 | | 84.9 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 1700 | | 91.3 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 2700 | E | 77.2 | 330 | ug/Kg |
| 85-01-8 | Phenanthrene | 1500 | | 83.9 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 1500 | | 84.3 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 1400 | | 80.2 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1500 | | 84.2 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 1400 | | 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 | 940 | | 98.5 | 330 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1600 | | 80.6 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 1500 | | 79.4 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1600 | | 90.9 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1500 | | 110 | 330 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1400 | | 81.0 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165029BS | SDG No.: | P4860 |
| Lab Sample ID: | PB165029BS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140445.D | 1 | 11/16/24 08:51 | 11/18/24 11:05 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1400 | | 82.5 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1600 | | 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 | 1400 | | 86.7 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1200 | | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1500 | | 74.6 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 120 | | 30 (18) - 130 (112) | 80% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 115 | | 30 (15) - 130 (107) | 77% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 82.5 | | 30 (18) - 130 (107) | 82% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 84.9 | | 30 (20) - 130 (109) | 85% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 128 | | 30 (10) - 130 (116) | 85% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 98.5 | | 30 (10) - 130 (105) | 99% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 143000 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 544000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 303000 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 569000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 302000 | 14.057 | | | |
| 1520-96-3 | Perylene-d12 | 262000 | 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006MS | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09MS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.5 |
| Sample Wt/Vol: | 30.07 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140639.D | 1 | 11/16/24 08:51 | 11/26/24 14:03 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 210 | J | 190 | 340 | ug/Kg |
| 108-95-2 | Phenol | 1600 | | 84.8 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1600 | | 85.6 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1700 | | 85.4 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1600 | | 82.5 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1700 | | 93.0 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 1600 | | 88.9 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1600 | | 81.7 | 340 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1600 | | 41.2 | 81.9 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1600 | | 84.9 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1500 | | 92.9 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 1600 | | 86.6 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1600 | | 96.7 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 1900 | | 95.4 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1600 | | 87.8 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1600 | | 77.3 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 1600 | | 84.5 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 680 | | 84.5 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1500 | | 85.2 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 1600 | | 88.8 | 340 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1600 | | 79.3 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1600 | | 84.4 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 4700 | E | 160 | 340 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1600 | | 73.1 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700 | | 75.7 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1600 | | 89.4 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1600 | | 85.2 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1600 | | 97.2 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1600 | | 83.6 | 170 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006MS | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09MS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.5 |
| Sample Wt/Vol: | 30.07 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140639.D | 1 | 11/16/24 08:51 | 11/26/24 14:03 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1700 | | 88.5 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1600 | | 85.1 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 940 | | 91.3 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 1600 | | 83.0 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 3000 | E | 250 | 340 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 3600 | E | 120 | 340 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1600 | | 86.4 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1600 | | 88.2 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1600 | | 82.0 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1600 | | 87.6 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 1600 | | 87.5 | 170 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 1600 | | 110 | 170 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700 | | 120 | 340 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1600 | | 83.5 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1600 | | 80.7 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1600 | | 87.0 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 1900 | | 93.5 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 3400 | E | 79.1 | 340 | ug/Kg |
| 85-01-8 | Phenanthrene | 1700 | | 86.0 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 1700 | | 86.4 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 1700 | | 82.2 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1700 | | 86.3 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 1600 | | 83.6 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 1800 | | 84.9 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1900 | | 99.1 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 1100 | | 100 | 340 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1700 | | 82.6 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 1600 | | 81.3 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 2000 | | 93.1 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 2000 | | 110 | 340 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1500 | | 83.0 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006MS | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09MS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.5 |
| Sample Wt/Vol: | 30.07 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140639.D | 1 | 11/16/24 08:51 | 11/26/24 14:03 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1600 | | 84.5 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1800 | | 95.2 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1600 | | 79.9 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1600 | | 83.1 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1300 | | 82.0 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1600 | | 88.8 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1500 | | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1700 | | 76.4 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 104 | | 30 (18) - 130 (112) | 69% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 103 | | 30 (15) - 130 (107) | 69% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 71.2 | | 30 (18) - 130 (107) | 71% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 73.5 | | 30 (20) - 130 (109) | 73% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 109 | | 30 (10) - 130 (116) | 73% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 84.0 | | 30 (10) - 130 (105) | 84% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 72900 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 271000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 144000 | 9.91 | | | |
| 1517-22-2 | Phenanthrene-d10 | 273000 | 11.398 | | | |
| 1719-03-5 | Chrysene-d12 | 144000 | 14.045 | | | |
| 1520-96-3 | Perylene-d12 | 157000 | 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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006MSD | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09MSD | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.5 |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140640.D | 1 | 11/16/24 08:51 | 11/26/24 14:29 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 210 | J | 190 | 340 | ug/Kg |
| 108-95-2 | Phenol | 1600 | | 84.9 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1600 | | 85.7 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1600 | | 85.5 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1600 | | 82.6 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1700 | | 93.1 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 1600 | | 89.0 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1600 | | 81.7 | 340 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1600 | | 41.3 | 81.9 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1500 | | 85.0 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1500 | | 93.0 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 1600 | | 86.7 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1700 | | 96.8 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 1900 | | 95.5 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1600 | | 87.9 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1600 | | 77.3 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 1600 | | 84.6 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 680 | | 84.6 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1500 | | 85.3 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 1700 | | 88.9 | 340 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1600 | | 79.4 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1600 | | 84.5 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 4700 | E | 160 | 340 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1700 | | 73.1 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1600 | | 75.8 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1600 | | 89.5 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1600 | | 85.3 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1600 | | 97.3 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1700 | | 83.7 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006MSD | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09MSD | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.5 |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140640.D | 1 | 11/16/24 08:51 | 11/26/24 14:29 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1700 | | 88.6 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1600 | | 85.2 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 970 | | 91.4 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 1600 | | 83.1 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 3200 | E | 250 | 340 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 3700 | E | 120 | 340 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1700 | | 86.4 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1600 | | 88.3 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1600 | | 82.0 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1600 | | 87.7 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 1600 | | 87.6 | 170 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 1600 | | 110 | 170 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1800 | | 120 | 340 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1700 | | 83.6 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1600 | | 80.8 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1600 | | 87.1 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 2000 | | 93.6 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 3600 | E | 79.2 | 340 | ug/Kg |
| 85-01-8 | Phenanthrene | 1700 | | 86.0 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 1800 | | 86.4 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 1700 | | 82.2 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1700 | | 86.3 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 1600 | | 83.7 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 1800 | | 85.0 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1900 | | 99.1 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 1200 | | 100 | 340 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1700 | | 82.7 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 1600 | | 81.4 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 2000 | | 93.2 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1900 | | 110 | 340 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1500 | | 83.1 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006MSD | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09MSD | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 97.5 |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140640.D | 1 | 11/16/24 08:51 | 11/26/24 14:29 | PB165029 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1700 | | 84.6 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1800 | | 95.3 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1600 | | 80.0 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1600 | | 83.2 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1300 | | 82.0 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1600 | | 88.9 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1500 | | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1800 | | 76.5 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 102 | | 30 (18) - 130 (112) | 68% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 103 | | 30 (15) - 130 (107) | 68% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 71.9 | | 30 (18) - 130 (107) | 72% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 73.6 | | 30 (20) - 130 (109) | 74% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 113 | | 30 (10) - 130 (116) | 75% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 84.9 | | 30 (10) - 130 (105) | 85% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 75700 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 276000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 148000 | 9.91 | | | |
| 1517-22-2 | Phenanthrene-d10 | 279000 | 11.398 | | | |
| 1719-03-5 | Chrysene-d12 | 148000 | 14.045 | | | |
| 1520-96-3 | Perylene-d12 | 160000 | 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: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: BNA_F Calibration Date/Time: 11/18/2024 10:13

Lab File ID: BF140443.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.171 | 1.135 | | -3.1 | |
| Benzaldehyde | 0.951 | 0.765 | | -19.6 | |
| Phenol-d6 | 1.587 | 1.499 | | -5.5 | |
| Phenol | 1.674 | 1.571 | | -6.2 | 20.0 |
| bis(2-Chloroethyl)ether | 1.268 | 1.213 | | -4.3 | |
| 2-Chlorophenol | 1.258 | 1.220 | | -3.0 | |
| 2-Methylphenol | 1.035 | 0.990 | | -4.3 | |
| 2,2-oxybis(1-Chloropropane) | 1.752 | 1.612 | | -8.0 | |
| Acetophenone | 0.465 | 0.452 | | -2.8 | |
| 3+4-Methylphenols | 1.295 | 1.212 | | -6.4 | |
| n-Nitroso-di-n-propylamine | 0.959 | 0.871 | 0.050 | -9.2 | |
| Nitrobenzene-d5 | 0.384 | 0.377 | | -1.8 | |
| Hexachloroethane | 0.520 | 0.516 | | -0.8 | |
| Nitrobenzene | 0.400 | 0.391 | | -2.3 | |
| Isophorone | 0.680 | 0.648 | | -4.7 | |
| 2-Nitrophenol | 0.177 | 0.180 | | 1.7 | 20.0 |
| 2,4-Dimethylphenol | 0.227 | 0.223 | | -1.8 | |
| bis(2-Chloroethoxy)methane | 0.417 | 0.404 | | -3.1 | |
| 2,4-Dichlorophenol | 0.281 | 0.280 | | -0.4 | 20.0 |
| Naphthalene | 1.015 | 0.999 | | -1.6 | |
| 4-Chloroaniline | 0.353 | 0.324 | | -8.2 | |
| Hexachlorobutadiene | 0.199 | 0.203 | | 2.0 | 20.0 |
| Caprolactam | 0.093 | 0.088 | | -5.4 | |
| 4-Chloro-3-methylphenol | 0.311 | 0.303 | | -2.6 | 20.0 |
| 2-Methylnaphthalene | 0.651 | 0.642 | | -1.4 | |
| Hexachlorocyclopentadiene | 0.142 | 0.127 | 0.050 | -10.6 | |
| 2,4,6-Trichlorophenol | 0.363 | 0.369 | | 1.7 | 20.0 |
| 2-Fluorobiphenyl | 1.244 | 1.230 | | -1.1 | |
| 2,4,5-Trichlorophenol | 0.397 | 0.391 | | -1.5 | |
| 1,1-Biphenyl | 1.455 | 1.449 | | -0.4 | |
| 2-Chloronaphthalene | 1.108 | 1.094 | | -1.3 | |
| 2-Nitroaniline | 0.368 | 0.354 | | -3.8 | |
| Dimethylphthalate | 1.304 | 1.279 | | -1.9 | |
| Acenaphthylene | 1.677 | 1.643 | | -2.0 | |
| 2,6-Dinitrotoluene | 0.297 | 0.294 | | -1.0 | |
| 3-Nitroaniline | 0.312 | 0.300 | | -3.8 | |
| Acenaphthene | 1.133 | 1.124 | | -0.8 | 20.0 |
| 2,4-Dinitrophenol | 0.153 | 0.141 | 0.050 | -7.8 | |
| 4-Nitrophenol | 0.228 | 0.200 | 0.050 | -12.7 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: BNA_F Calibration Date/Time: 11/18/2024 10:13

Lab File ID: BF140443.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.603 | 1.577 | | -1.6 | |
| 2,4-Dinitrotoluene | 0.391 | 0.386 | | -1.3 | |
| Diethylphthalate | 1.333 | 1.292 | | -3.1 | |
| 4-Chlorophenyl-phenylether | 0.625 | 0.630 | | 0.8 | |
| Fluorene | 1.267 | 1.233 | | -2.7 | |
| 4-Nitroaniline | 0.319 | 0.299 | | -6.3 | |
| 4,6-Dinitro-2-methylphenol | 0.108 | 0.114 | | 5.6 | |
| n-Nitrosodiphenylamine | 0.578 | 0.582 | | 0.7 | 20.0 |
| 2,4,6-Tribromophenol | 0.199 | 0.197 | | -1.0 | |
| 4-Bromophenyl-phenylether | 0.200 | 0.202 | | 1.0 | |
| Hexachlorobenzene | 0.225 | 0.230 | | 2.2 | |
| Atrazine | 0.175 | 0.151 | | -13.7 | |
| Pentachlorophenol | 0.121 | 0.114 | | -5.8 | 20.0 |
| Phenanthrene | 0.940 | 0.912 | | -3.0 | |
| Anthracene | 0.921 | 0.909 | | -1.3 | |
| Carbazole | 0.909 | 0.879 | | -3.3 | |
| Di-n-butylphthalate | 1.091 | 1.076 | | -1.4 | |
| Fluoranthene | 1.054 | 0.995 | | -5.6 | 20.0 |
| Pyrene | 1.711 | 1.930 | | 12.8 | |
| Terphenyl-d14 | 1.152 | 1.302 | | 13.0 | |
| Butylbenzylphthalate | 0.657 | 0.725 | | 10.4 | |
| 3,3-Dichlorobenzidine | 0.418 | 0.399 | | -4.5 | |
| Benzo(a)anthracene | 1.314 | 1.317 | | 0.2 | |
| Chrysene | 1.199 | 1.195 | | -0.3 | |
| Bis(2-ethylhexyl)phthalate | 0.877 | 0.911 | | 3.9 | |
| Di-n-octyl phthalate | 1.235 | 1.195 | | -3.2 | 20.0 |
| Benzo(b)fluoranthene | 1.308 | 1.228 | | -6.1 | |
| Benzo(k)fluoranthene | 1.069 | 0.973 | | -9.0 | |
| Benzo(a)pyrene | 1.016 | 1.011 | | -0.5 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.235 | 1.378 | | 11.6 | |
| Dibenzo(a,h)anthracene | 1.021 | 1.147 | | 12.3 | |
| Benzo(g,h,i)perylene | 1.044 | 1.170 | | 12.1 | |
| 1,2,4,5-Tetrachlorobenzene | 0.553 | 0.560 | | 1.3 | |
| 1,4-Dioxane | 0.522 | 0.509 | | -2.5 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.313 | 0.303 | | -3.2 | |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: BNA_F Calibration Date/Time: 11/22/2024 09:20

Lab File ID: BF140564.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 | 1.136 | | -3.1 | |
| Benzaldehyde | 0.820 | 0.737 | | -10.1 | |
| Phenol-d6 | 1.550 | 1.480 | | -4.5 | |
| Phenol | 1.583 | 1.539 | | -2.8 | 20.0 |
| bis(2-Chloroethyl)ether | 1.211 | 1.155 | | -4.6 | |
| 2-Chlorophenol | 1.261 | 1.212 | | -3.9 | |
| 2-Methylphenol | 1.010 | 0.974 | | -3.6 | |
| 2,2-oxybis(1-Chloropropane) | 1.431 | 1.379 | | -3.6 | |
| Acetophenone | 0.488 | 0.472 | | -3.3 | |
| 3+4-Methylphenols | 1.298 | 1.249 | | -3.8 | |
| n-Nitroso-di-n-propylamine | 0.916 | 0.888 | 0.050 | -3.1 | |
| Nitrobenzene-d5 | 0.391 | 0.381 | | -2.6 | |
| Hexachloroethane | 0.536 | 0.518 | | -3.4 | |
| Nitrobenzene | 0.404 | 0.391 | | -3.2 | |
| Isophorone | 0.652 | 0.640 | | -1.8 | |
| 2-Nitrophenol | 0.179 | 0.176 | | -1.7 | 20.0 |
| 2,4-Dimethylphenol | 0.214 | 0.219 | | 2.3 | |
| bis(2-Chloroethoxy)methane | 0.397 | 0.396 | | -0.3 | |
| 2,4-Dichlorophenol | 0.284 | 0.281 | | -1.1 | 20.0 |
| Naphthalene | 1.030 | 1.010 | | -1.9 | |
| 4-Chloroaniline | 0.308 | 0.302 | | -1.9 | |
| Hexachlorobutadiene | 0.215 | 0.216 | | 0.5 | 20.0 |
| Caprolactam | 0.088 | 0.087 | | -1.1 | |
| 4-Chloro-3-methylphenol | 0.318 | 0.316 | | -0.6 | 20.0 |
| 2-Methylnaphthalene | 0.654 | 0.649 | | -0.8 | |
| Hexachlorocyclopentadiene | 0.107 | 0.121 | 0.050 | 13.1 | |
| 2,4,6-Trichlorophenol | 0.367 | 0.365 | | -0.5 | 20.0 |
| 2-Fluorobiphenyl | 1.342 | 1.316 | | -1.9 | |
| 2,4,5-Trichlorophenol | 0.399 | 0.398 | | -0.3 | |
| 1,1-Biphenyl | 1.493 | 1.460 | | -2.2 | |
| 2-Chloronaphthalene | 1.131 | 1.105 | | -2.3 | |
| 2-Nitroaniline | 0.363 | 0.355 | | -2.2 | |
| Dimethylphthalate | 1.317 | 1.297 | | -1.5 | |
| Acenaphthylene | 1.710 | 1.667 | | -2.5 | |
| 2,6-Dinitrotoluene | 0.299 | 0.295 | | -1.3 | |
| 3-Nitroaniline | 0.292 | 0.286 | | -2.1 | |
| Acenaphthene | 1.086 | 1.062 | | -2.2 | 20.0 |
| 2,4-Dinitrophenol | 0.122 | 0.142 | 0.050 | 16.4 | |
| 4-Nitrophenol | 0.199 | 0.195 | 0.050 | -2.0 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: BNA_F Calibration Date/Time: 11/22/2024 09:20

Lab File ID: BF140564.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 | 1.608 | | -3.0 | |
| 2,4-Dinitrotoluene | 0.397 | 0.395 | | -0.5 | |
| Diethylphthalate | 1.338 | 1.329 | | -0.7 | |
| 4-Chlorophenyl-phenylether | 0.653 | 0.646 | | -1.1 | |
| Fluorene | 1.330 | 1.293 | | -2.8 | |
| 4-Nitroaniline | 0.306 | 0.301 | | -1.6 | |
| 4,6-Dinitro-2-methylphenol | 0.102 | 0.114 | | 11.8 | |
| n-Nitrosodiphenylamine | 0.591 | 0.578 | | -2.2 | 20.0 |
| 2,4,6-Tribromophenol | 0.214 | 0.214 | | 0.0 | |
| 4-Bromophenyl-phenylether | 0.206 | 0.211 | | 2.4 | |
| Hexachlorobenzene | 0.238 | 0.238 | | 0.0 | |
| Atrazine | 0.166 | 0.170 | | 2.4 | |
| Pentachlorophenol | 0.105 | 0.117 | | 11.4 | 20.0 |
| Phenanthrene | 0.961 | 0.927 | | -3.5 | |
| Anthracene | 0.940 | 0.929 | | -1.2 | |
| Carbazole | 0.905 | 0.889 | | -1.8 | |
| Di-n-butylphthalate | 1.044 | 1.085 | | 3.9 | |
| Fluoranthene | 1.044 | 1.051 | | 0.7 | 20.0 |
| Pyrene | 1.849 | 1.694 | | -8.4 | |
| Terphenyl-d14 | 1.284 | 1.206 | | -6.1 | |
| Butylbenzylphthalate | 0.666 | 0.682 | | 2.4 | |
| 3,3-Dichlorobenzidine | 0.397 | 0.386 | | -2.8 | |
| Benzo(a)anthracene | 1.324 | 1.267 | | -4.3 | |
| Chrysene | 1.211 | 1.189 | | -1.8 | |
| Bis(2-ethylhexyl)phthalate | 0.841 | 0.931 | | 10.7 | |
| Di-n-octyl phthalate | 1.150 | 1.357 | | 18.0 | 20.0 |
| Benzo(b)fluoranthene | 1.256 | 1.395 | | 11.1 | |
| Benzo(k)fluoranthene | 1.099 | 1.080 | | -1.7 | |
| Benzo(a)pyrene | 1.021 | 1.024 | | 0.3 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.303 | 1.194 | | -8.4 | |
| Dibenzo(a,h)anthracene | 1.067 | 1.005 | | -5.8 | |
| Benzo(g,h,i)perylene | 1.089 | 0.991 | | -9.0 | |
| 1,2,4,5-Tetrachlorobenzene | 0.586 | 0.573 | | -2.2 | |
| 1,4-Dioxane | 0.493 | 0.481 | | -2.4 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.306 | 0.324 | | 5.9 | |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

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 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

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

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



7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: BNA_F Calibration Date/Time: 11/26/2024 09:35

Lab File ID: BF140629.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 | 1.147 | | -2.1 | |
| Benzaldehyde | 0.820 | 0.758 | | -7.6 | |
| Phenol-d6 | 1.550 | 1.512 | | -2.5 | |
| Phenol | 1.583 | 1.584 | | 0.1 | 20.0 |
| bis(2-Chloroethyl)ether | 1.211 | 1.200 | | -0.9 | |
| 2-Chlorophenol | 1.261 | 1.226 | | -2.8 | |
| 2-Methylphenol | 1.010 | 1.003 | | -0.7 | |
| 2,2-oxybis(1-Chloropropane) | 1.431 | 1.458 | | 1.9 | |
| Acetophenone | 0.488 | 0.460 | | -5.7 | |
| 3+4-Methylphenols | 1.298 | 1.257 | | -3.2 | |
| n-Nitroso-di-n-propylamine | 0.916 | 0.884 | 0.050 | -3.5 | |
| Nitrobenzene-d5 | 0.391 | 0.378 | | -3.3 | |
| Hexachloroethane | 0.536 | 0.516 | | -3.7 | |
| Nitrobenzene | 0.404 | 0.393 | | -2.7 | |
| Isophorone | 0.652 | 0.635 | | -2.6 | |
| 2-Nitrophenol | 0.179 | 0.183 | | 2.2 | 20.0 |
| 2,4-Dimethylphenol | 0.214 | 0.228 | | 6.5 | |
| bis(2-Chloroethoxy)methane | 0.397 | 0.396 | | -0.3 | |
| 2,4-Dichlorophenol | 0.284 | 0.283 | | -0.4 | 20.0 |
| Naphthalene | 1.030 | 1.008 | | -2.1 | |
| 4-Chloroaniline | 0.308 | 0.341 | | 10.7 | |
| Hexachlorobutadiene | 0.215 | 0.206 | | -4.2 | 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 | 0.644 | | -1.5 | |
| Hexachlorocyclopentadiene | 0.107 | 0.095 | 0.050 | -11.2 | |
| 2,4,6-Trichlorophenol | 0.367 | 0.356 | | -3.0 | 20.0 |
| 2-Fluorobiphenyl | 1.342 | 1.257 | | -6.3 | |
| 2,4,5-Trichlorophenol | 0.399 | 0.404 | | 1.3 | |
| 1,1-Biphenyl | 1.493 | 1.436 | | -3.8 | |
| 2-Chloronaphthalene | 1.131 | 1.097 | | -3.0 | |
| 2-Nitroaniline | 0.363 | 0.346 | | -4.7 | |
| Dimethylphthalate | 1.317 | 1.270 | | -3.6 | |
| Acenaphthylene | 1.710 | 1.659 | | -3.0 | |
| 2,6-Dinitrotoluene | 0.299 | 0.292 | | -2.3 | |
| 3-Nitroaniline | 0.292 | 0.303 | | 3.8 | |
| Acenaphthene | 1.086 | 1.044 | | -3.9 | 20.0 |
| 2,4-Dinitrophenol | 0.122 | 0.136 | 0.050 | 11.5 | |
| 4-Nitrophenol | 0.199 | 0.189 | 0.050 | -5.0 | |

Form VII SV-1

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Fax : 908 789 8922



7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: BNA_F Calibration Date/Time: 11/26/2024 09:35

Lab File ID: BF140629.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 | 1.584 | | -4.4 | |
| 2,4-Dinitrotoluene | 0.397 | 0.395 | | -0.5 | |
| Diethylphthalate | 1.338 | 1.307 | | -2.3 | |
| 4-Chlorophenyl-phenylether | 0.653 | 0.621 | | -4.9 | |
| Fluorene | 1.330 | 1.280 | | -3.8 | |
| 4-Nitroaniline | 0.306 | 0.306 | | 0.0 | |
| 4,6-Dinitro-2-methylphenol | 0.102 | 0.112 | | 9.8 | |
| n-Nitrosodiphenylamine | 0.591 | 0.583 | | -1.4 | 20.0 |
| 2,4,6-Tribromophenol | 0.214 | 0.207 | | -3.3 | |
| 4-Bromophenyl-phenylether | 0.206 | 0.205 | | -0.5 | |
| Hexachlorobenzene | 0.238 | 0.232 | | -2.5 | |
| Atrazine | 0.166 | 0.163 | | -1.8 | |
| Pentachlorophenol | 0.105 | 0.112 | | 6.7 | 20.0 |
| Phenanthrene | 0.961 | 0.928 | | -3.4 | |
| Anthracene | 0.940 | 0.926 | | -1.5 | |
| Carbazole | 0.905 | 0.893 | | -1.3 | |
| Di-n-butylphthalate | 1.044 | 1.063 | | 1.8 | |
| Fluoranthene | 1.044 | 1.033 | | -1.1 | 20.0 |
| Pyrene | 1.849 | 1.845 | | -0.2 | |
| Terphenyl-d14 | 1.284 | 1.263 | | -1.6 | |
| Butylbenzylphthalate | 0.666 | 0.715 | | 7.4 | |
| 3,3-Dichlorobenzidine | 0.397 | 0.400 | | 0.8 | |
| Benzo(a)anthracene | 1.324 | 1.340 | | 1.2 | |
| Chrysene | 1.211 | 1.144 | | -5.5 | |
| Bis(2-ethylhexyl)phthalate | 0.841 | 0.933 | | 10.9 | |
| Di-n-octyl phthalate | 1.150 | 1.287 | | 11.9 | 20.0 |
| Benzo(b)fluoranthene | 1.256 | 1.211 | | -3.6 | |
| Benzo(k)fluoranthene | 1.099 | 1.084 | | -1.4 | |
| Benzo(a)pyrene | 1.021 | 1.002 | | -1.9 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.303 | 1.258 | | -3.5 | |
| Dibenzo(a,h)anthracene | 1.067 | 1.035 | | -3.0 | |
| Benzo(g,h,i)perylene | 1.089 | 1.065 | | -2.2 | |
| 1,2,4,5-Tetrachlorobenzene | 0.586 | 0.557 | | -4.9 | |
| 1,4-Dioxane | 0.493 | 0.492 | | -0.2 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.306 | 0.310 | | 1.3 | |

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\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

Quant Time: Nov 26 00:08:29 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

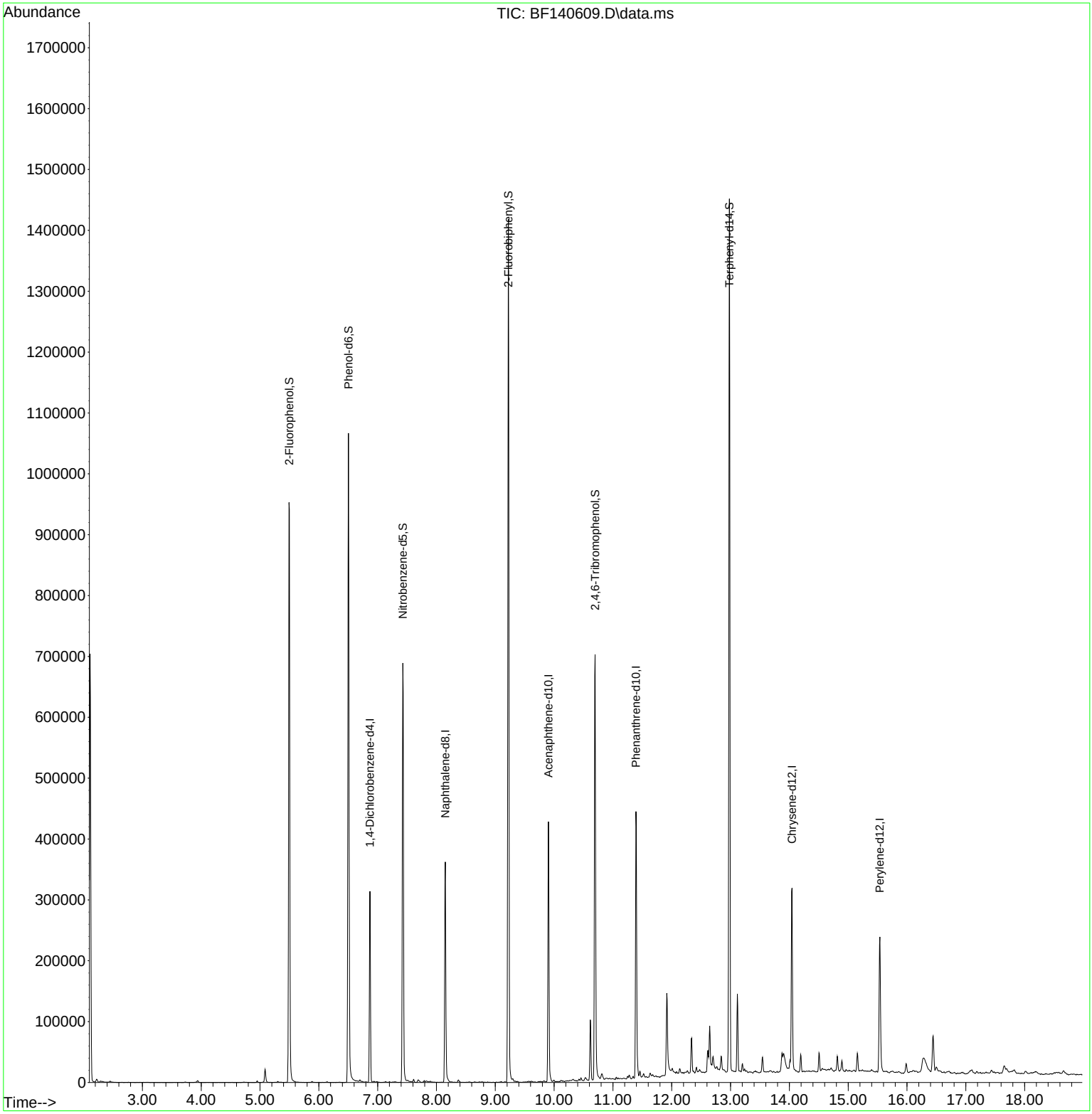
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.869 | 152 | 64351 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.151 | 136 | 240053 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.904 | 164 | 128312 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.392 | 188 | 245251 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 14.045 | 240 | 151880 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.539 | 264 | 134969 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.498 | 112 | 371969 | 98.624 | ng | 0.00 |
| 7) Phenol-d6 | 6.504 | 99 | 486900 | 97.651 | ng | -0.01 |
| 23) Nitrobenzene-d5 | 7.428 | 82 | 318496 | 67.865 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.698 | 330 | 126860 | 92.443 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 632848 | 73.486 | ng | -0.01 |
| 79) Terphenyl-d14 | 12.980 | 244 | 692564 | 71.004 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |

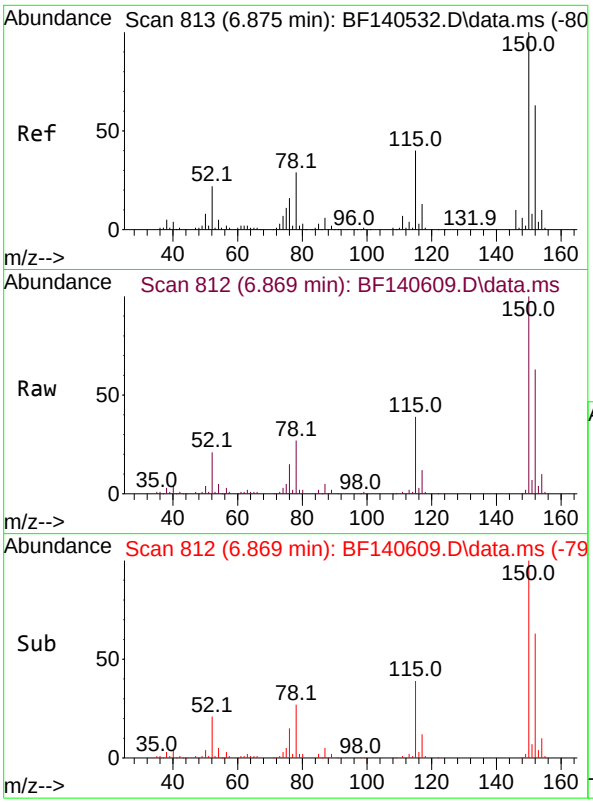
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

Quant Time: Nov 26 00:08:29 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



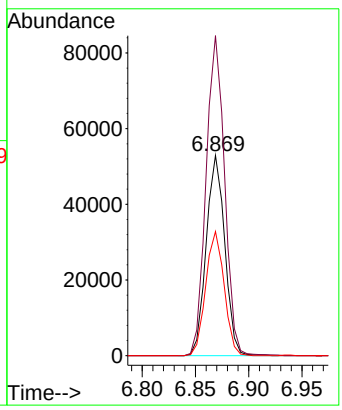


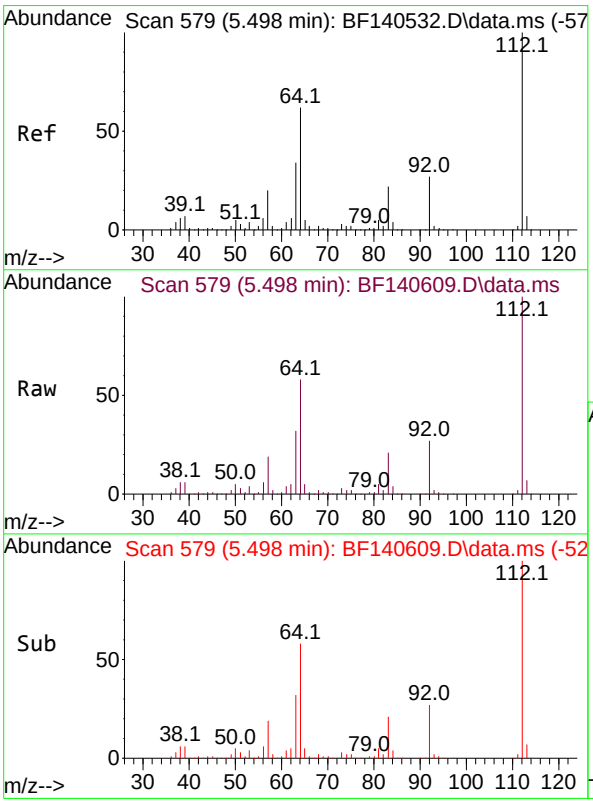

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

Tgt Ion:152 Resp: 64351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 159.8 | 128.5 | 192.7 |
| 115 | 62.0 | 50.2 | 75.4 |

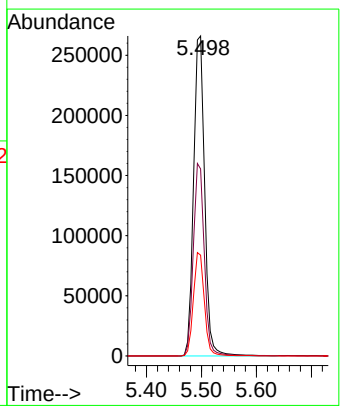


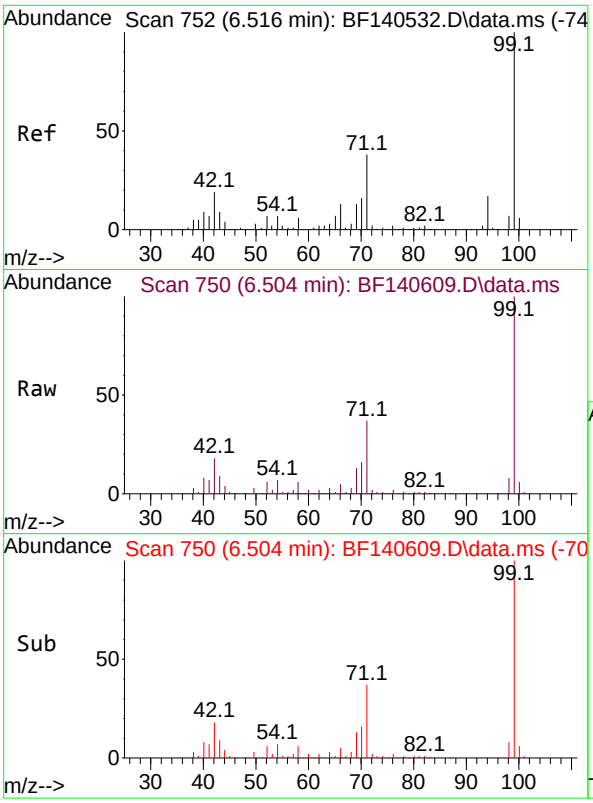




#5
2-Fluorophenol
Concen: 98.624 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

Tgt Ion:112 Resp: 371969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 58.5 | 49.2 | 73.8 |
| 63 | 31.5 | 27.0 | 40.4 |



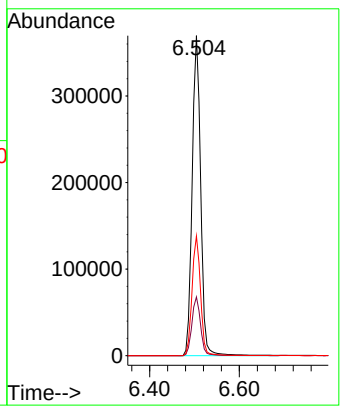


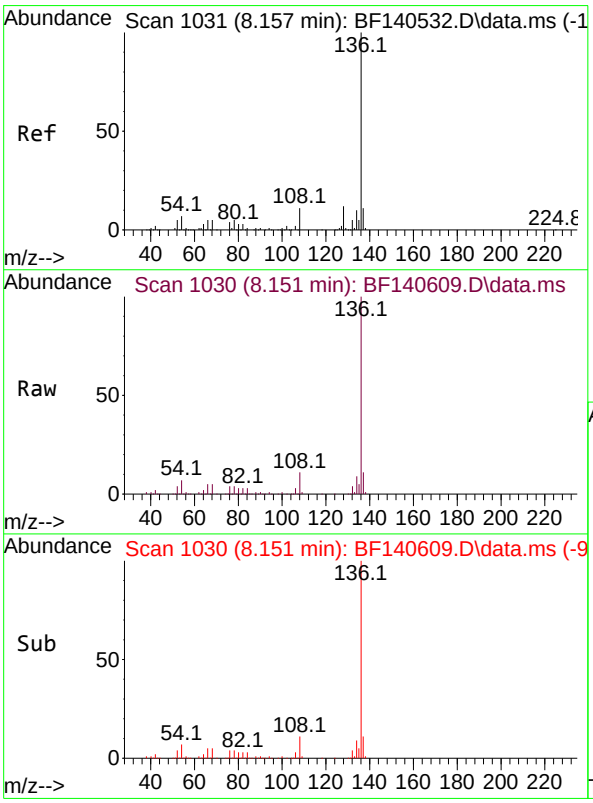

#7
Phenol-d6
Concen: 97.651 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

Tgt Ion: 99 Resp: 486900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.4 | 15.4 | 23.0 |
| 71 | 37.4 | 30.6 | 46.0 |

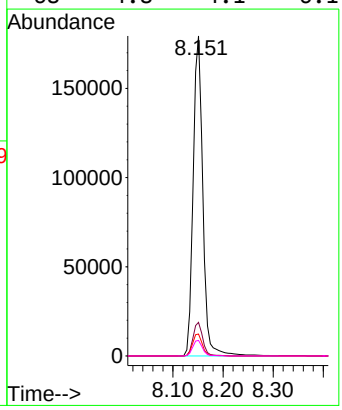


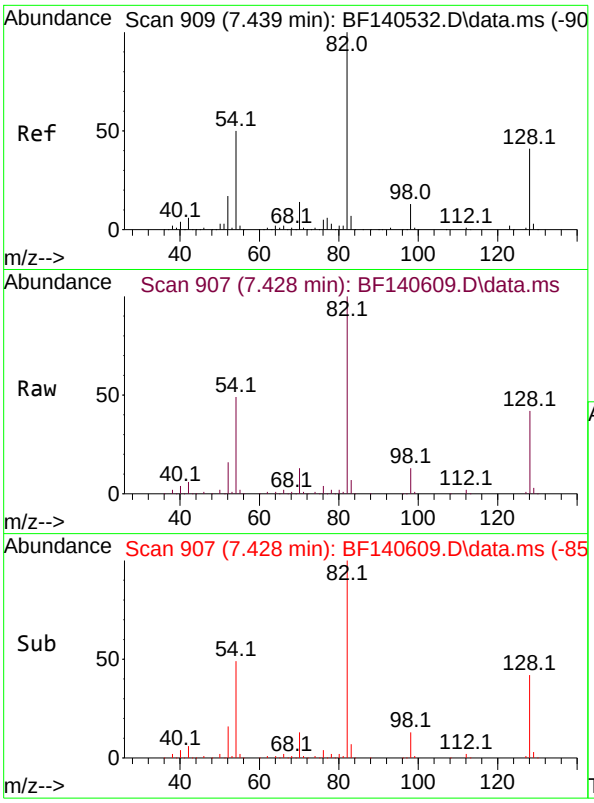




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

Tgt Ion:136 Resp: 240053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.5 | 8.6 | 13.0 |
| 54 | 6.8 | 5.8 | 8.8 |
| 68 | 4.8 | 4.1 | 6.1 |



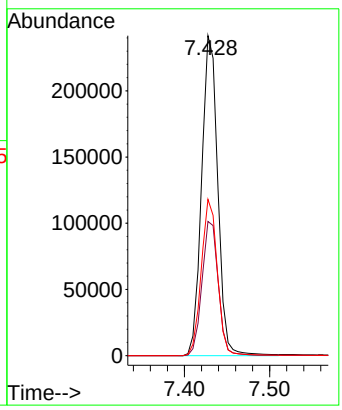


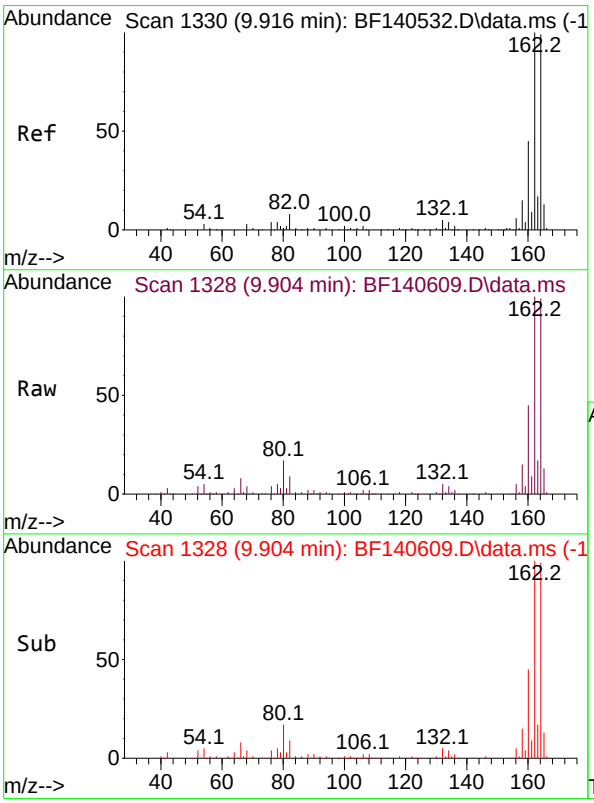

#23
Nitrobenzene-d5
Concen: 67.865 ng
RT: 7.428 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

Tgt Ion: 82 Resp: 318496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.9 | 33.0 | 49.4 |
| 54 | 48.9 | 39.5 | 59.3 |

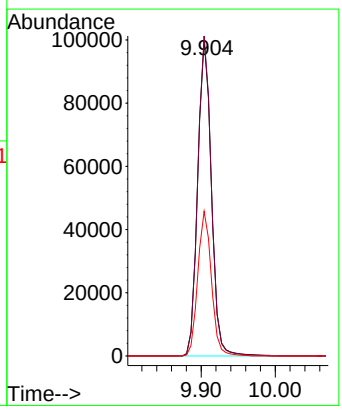


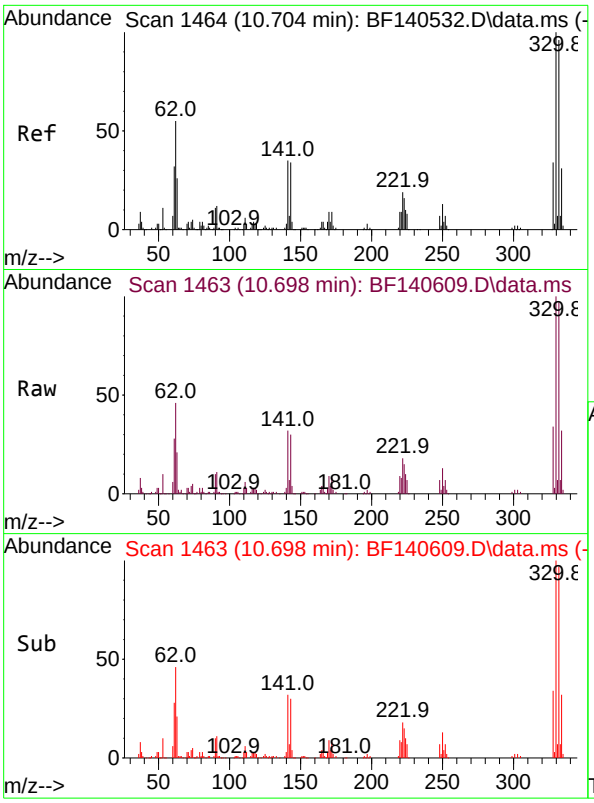




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

Tgt Ion:164 Resp: 128312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.2 | 80.6 | 120.8 |
| 160 | 45.7 | 36.2 | 54.4 |



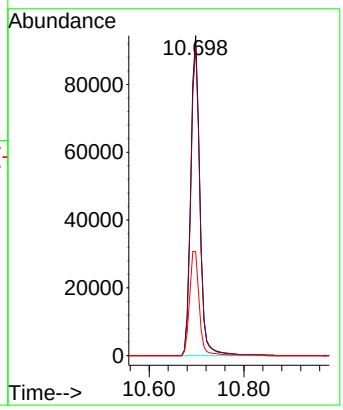


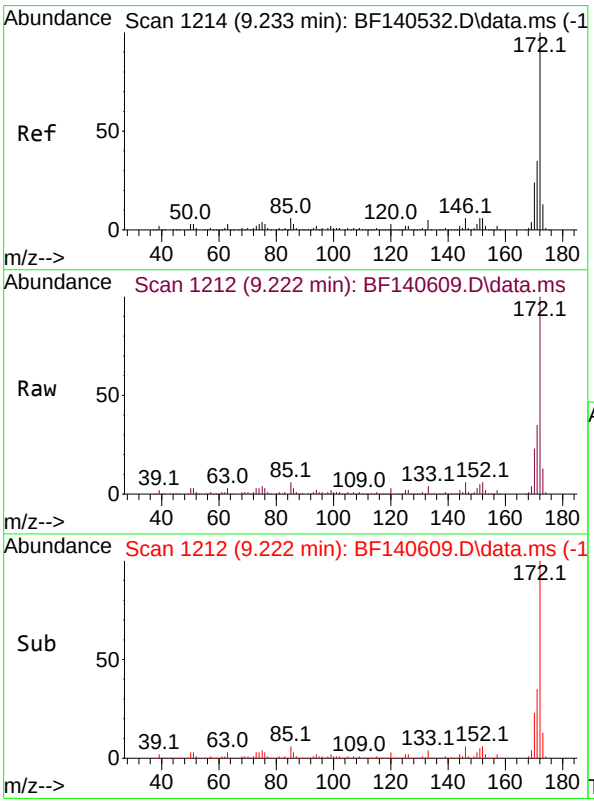

#42
2,4,6-Tribromophenol
Concen: 92.443 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

Tgt Ion:330 Resp: 126860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.4 | 76.9 | 115.3 |
| 141 | 34.6 | 26.7 | 40.1 |

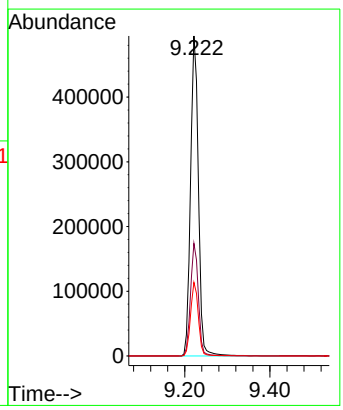


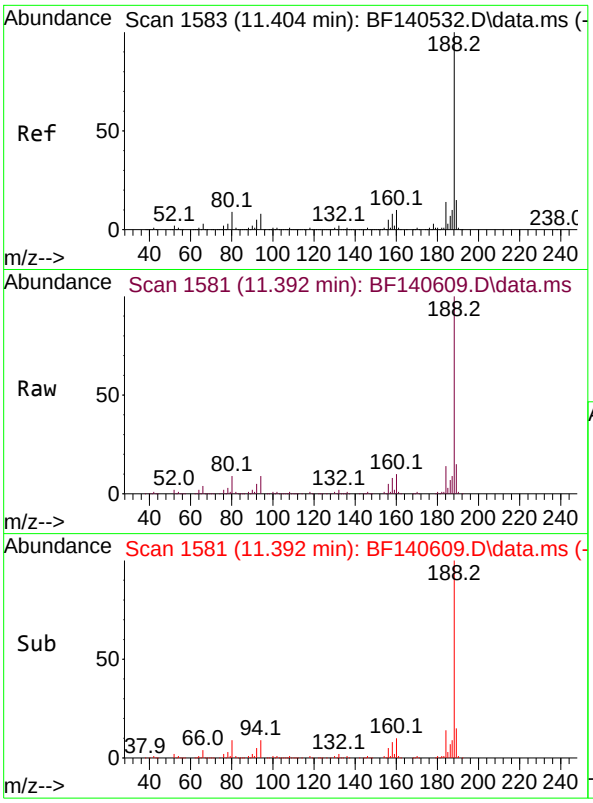




#45
2-Fluorobiphenyl
Concen: 73.486 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

Tgt Ion:172 Resp: 632848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.2 | 28.4 | 42.6 |
| 170 | 23.0 | 19.0 | 28.6 |



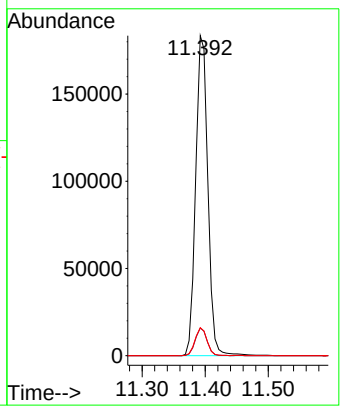


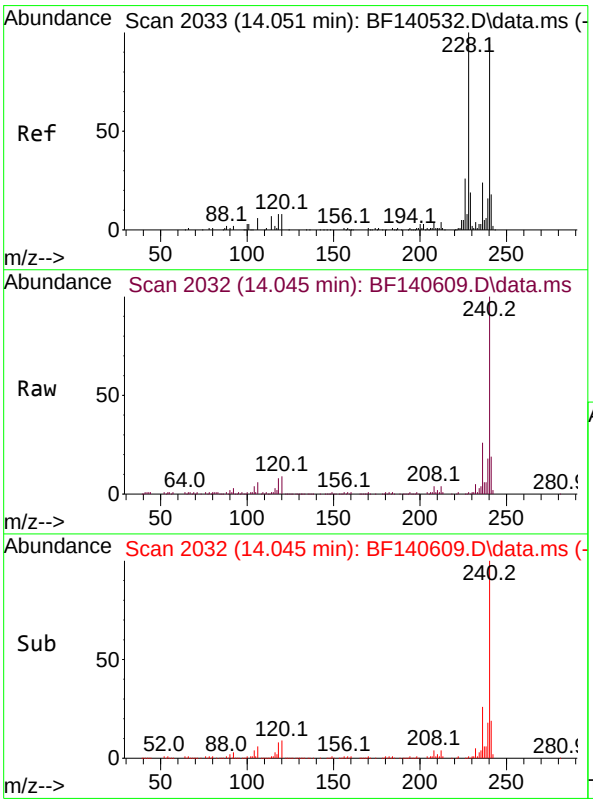

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

Tgt Ion:188 Resp: 245251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.6 | 6.4 | 9.6 |
| 80 | 8.8 | 6.9 | 10.3 |

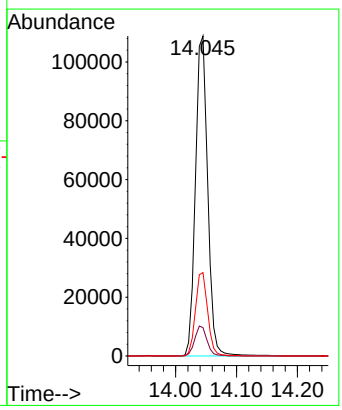


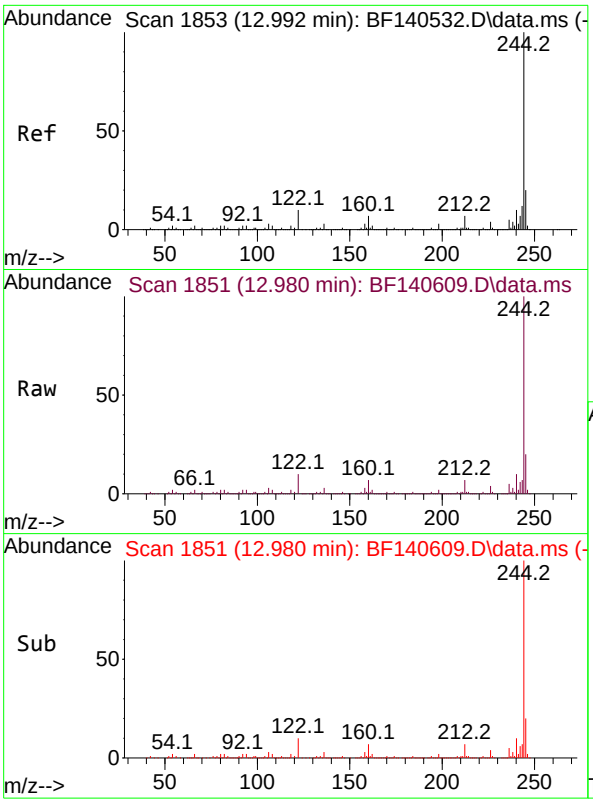




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

Tgt Ion:240 Resp: 151880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 8.8 | 7.3 | 10.9 |
| 236 | 26.1 | 20.6 | 31.0 |



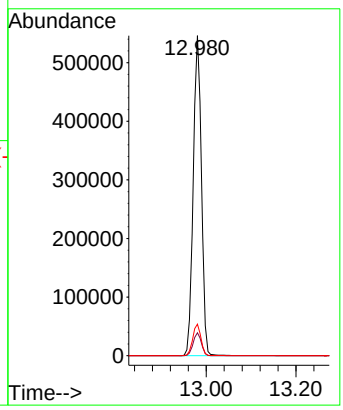


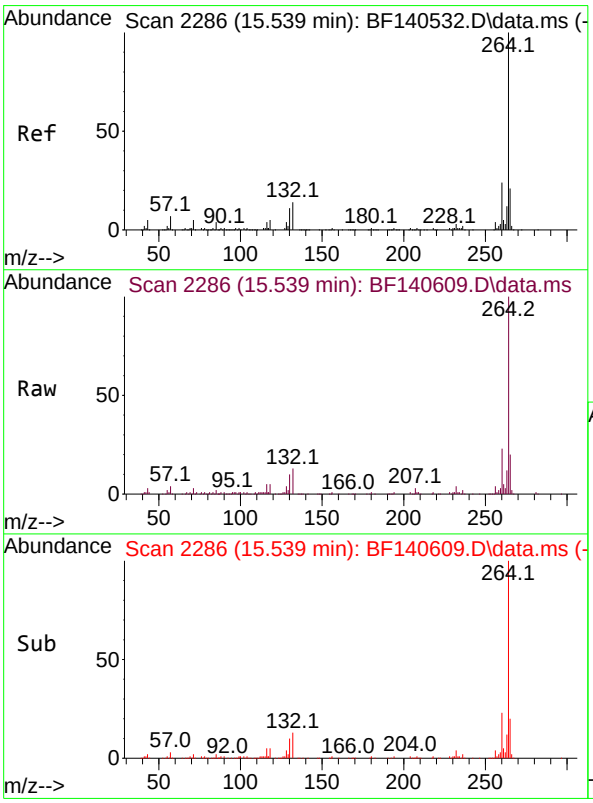

#79
Terphenyl-d14
Concen: 71.004 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

Tgt Ion:244 Resp: 692564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 5.8 | 8.8 |
| 122 | 9.8 | 8.0 | 12.0 |

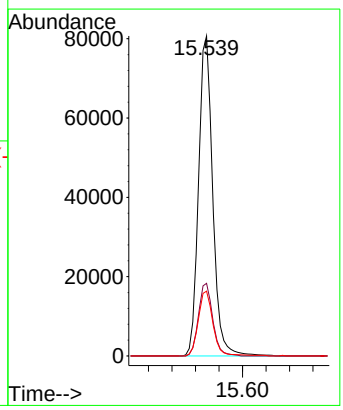



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2286
Delta R.T. -0.000 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

Tgt Ion:264 Resp: 134969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 22.7 | 19.0 | 28.6 |
| 265 | 20.2 | 16.6 | 25.0 |



Sample Results: **BF140609.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

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: BF140609.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.087 | 504 | 509 | 518 | rVB | 21181 | 31645 | 1.74% | 0.255% |
| 2 | 5.492 | 573 | 578 | 594 | rBV | 952643 | 1322198 | 72.86% | 10.637% |
| 3 | 6.504 | 744 | 750 | 771 | rBV | 1066743 | 1437303 | 79.21% | 11.563% |
| 4 | 6.869 | 807 | 812 | 819 | rBV | 313561 | 379664 | 20.92% | 3.054% |
| 5 | 7.428 | 902 | 907 | 918 | rBV | 688756 | 908768 | 50.08% | 7.311% |
| 6 | 8.151 | 1024 | 1030 | 1044 | rBV | 361539 | 478807 | 26.39% | 3.852% |
| 7 | 9.222 | 1207 | 1212 | 1222 | rBV | 1417930 | 1786621 | 98.46% | 14.373% |
| 8 | 9.904 | 1323 | 1328 | 1340 | rBV | 427158 | 546386 | 30.11% | 4.396% |
| 9 | 10.616 | 1444 | 1449 | 1457 | rBV | 99351 | 126824 | 6.99% | 1.020% |
| 10 | 10.698 | 1457 | 1463 | 1477 | rVV | 698988 | 969983 | 53.45% | 7.804% |
| 11 | 10.810 | 1477 | 1482 | 1489 | rVB4 | 9027 | 19825 | 1.09% | 0.159% |
| 12 | 11.392 | 1576 | 1581 | 1589 | rBV | 438315 | 601408 | 33.14% | 4.838% |
| 13 | 11.916 | 1665 | 1670 | 1682 | rBV | 134906 | 228074 | 12.57% | 1.835% |
| 14 | 12.339 | 1737 | 1742 | 1746 | rBV2 | 57119 | 74573 | 4.11% | 0.600% |
| 15 | 12.615 | 1784 | 1789 | 1791 | rBV | 35097 | 53959 | 2.97% | 0.434% |
| 16 | 12.645 | 1791 | 1794 | 1800 | rVV | 72874 | 103878 | 5.72% | 0.836% |
| 17 | 12.704 | 1800 | 1804 | 1810 | rVB | 19837 | 34090 | 1.88% | 0.274% |
| 18 | 12.839 | 1823 | 1827 | 1834 | rVB2 | 22493 | 31841 | 1.75% | 0.256% |
| 19 | 12.980 | 1845 | 1851 | 1856 | rBV | 1433570 | 1814641 | 100.00% | 14.599% |
| 20 | 13.115 | 1869 | 1874 | 1879 | rBV | 127615 | 157157 | 8.66% | 1.264% |
| 21 | 13.545 | 1942 | 1947 | 1952 | rBV | 24399 | 32950 | 1.82% | 0.265% |
| 22 | 13.874 | 1998 | 2003 | 2005 | rBV | 29293 | 45690 | 2.52% | 0.368% |
| 23 | 14.045 | 2027 | 2032 | 2043 | rVB | 300603 | 432045 | 23.81% | 3.476% |
| 24 | 14.192 | 2053 | 2057 | 2062 | rVB | 28407 | 36959 | 2.04% | 0.297% |
| 25 | 14.504 | 2106 | 2110 | 2115 | rBV | 31032 | 41788 | 2.30% | 0.336% |
| 26 | 14.815 | 2159 | 2163 | 2169 | rVB | 24351 | 33859 | 1.87% | 0.272% |
| 27 | 14.892 | 2173 | 2176 | 2183 | rVB | 17829 | 24382 | 1.34% | 0.196% |
| 28 | 15.157 | 2216 | 2221 | 2226 | rBV | 29850 | 43815 | 2.41% | 0.352% |
| 29 | 15.539 | 2280 | 2286 | 2297 | rBV | 221846 | 372267 | 20.51% | 2.995% |
| 30 | 15.986 | 2358 | 2362 | 2368 | rVB2 | 14658 | 23319 | 1.29% | 0.188% |
| 31 | 16.286 | 2405 | 2413 | 2433 | rVB2 | 22236 | 111314 | 6.13% | 0.896% |
| 32 | 16.445 | 2434 | 2440 | 2445 | rBV2 | 58154 | 105767 | 5.83% | 0.851% |
| 33 | 17.656 | 2641 | 2646 | 2650 | rBV6 | 8622 | 18230 | 1.00% | 0.147% |

Sum of corrected areas: 12430030

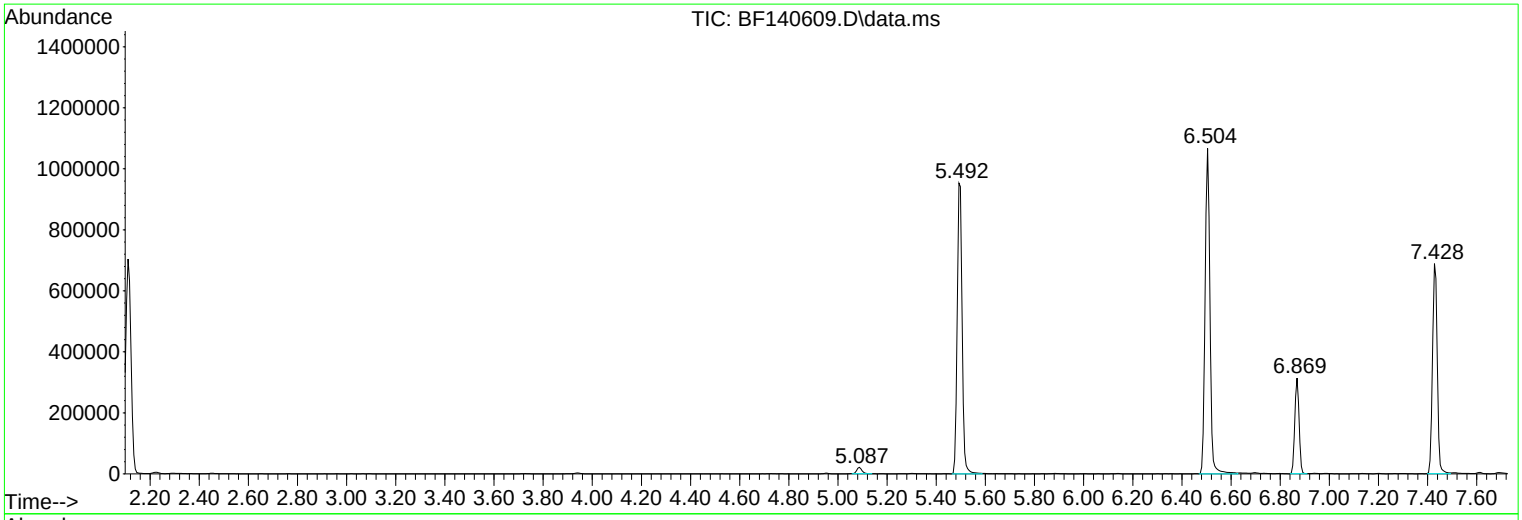
Sample Results: **BF140609.D**

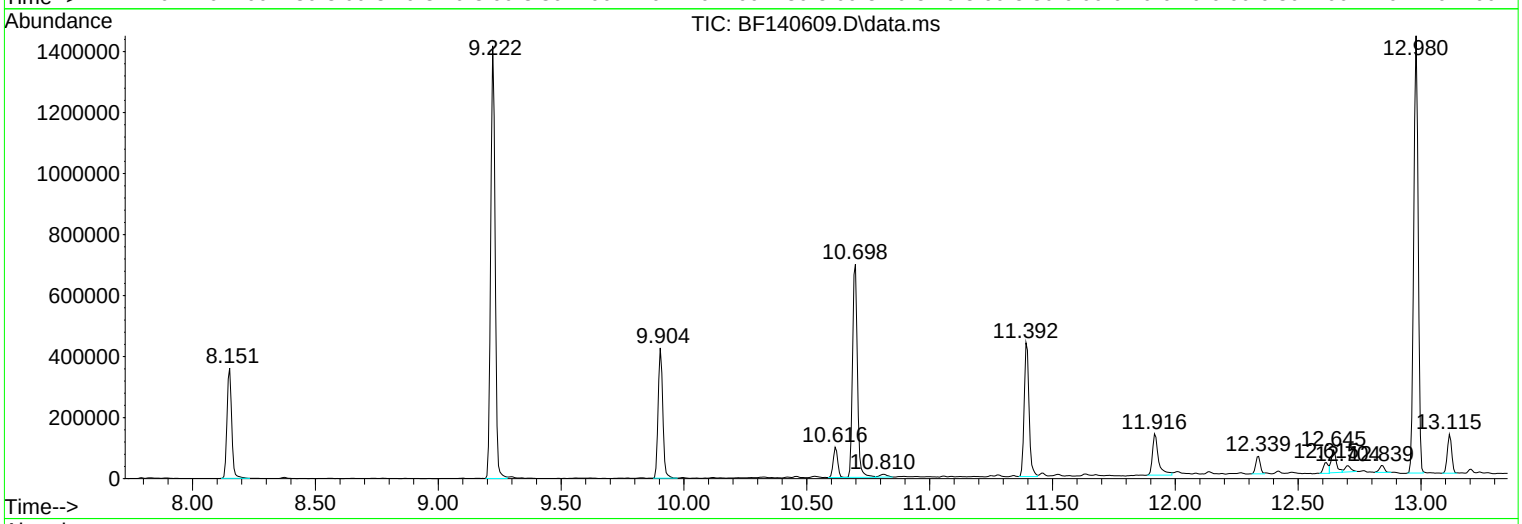
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

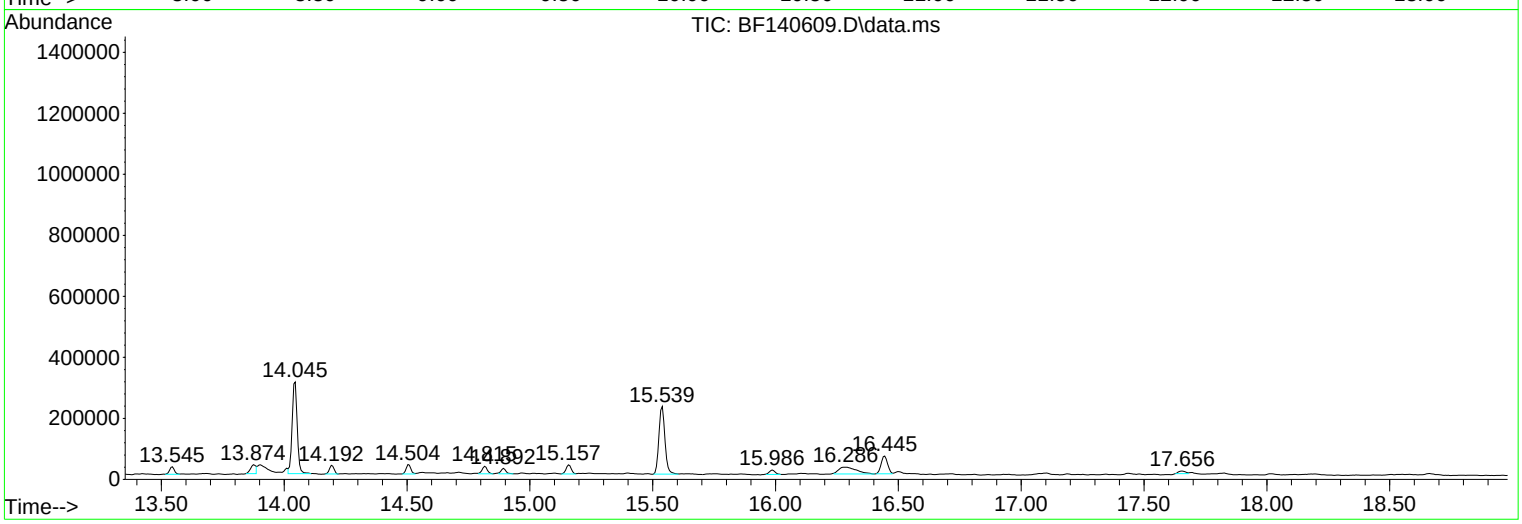
**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

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 : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

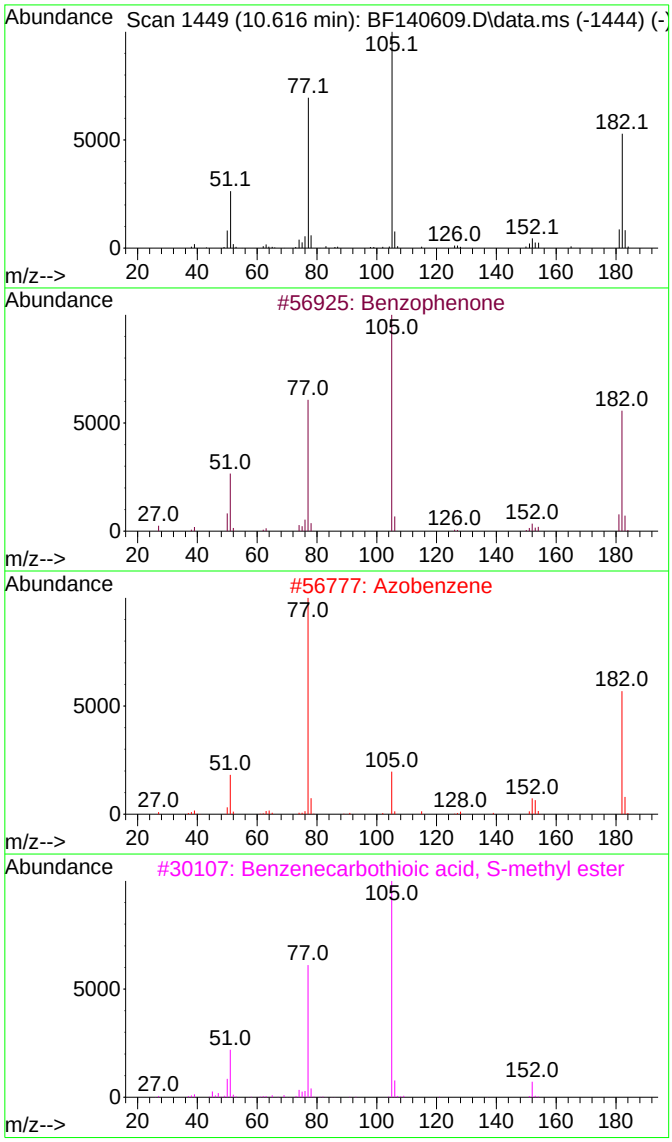
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

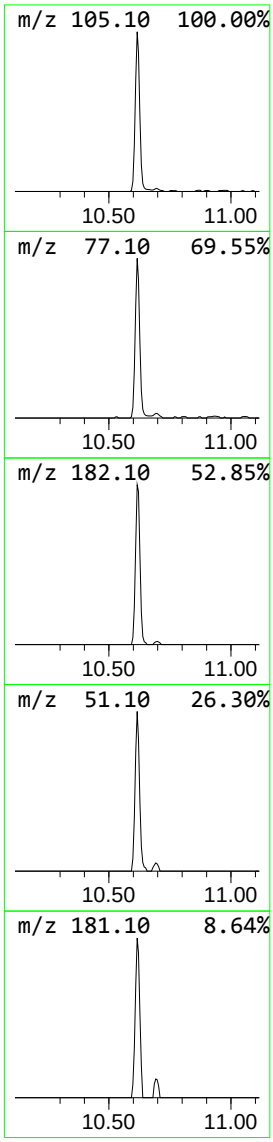
**********

Peak Number 1 Benzophenone Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.616 | 4.64 ng | 126824 | Acenaphthene-d10 | 9.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 96 |
| 2 | Azobenzene | 182 | C12H10N2 | 000103-33-3 | 64 |
| 3 | Benzenecarbothioic acid, S-methy... | 152 | C8H8OS | 005925-68-8 | 52 |
| 4 | N-Methoxy-N-methylbenzamide | 165 | C9H11NO2 | 006919-61-5 | 49 |
| 5 | Disulfide, dibenzoyl | 274 | C14H10O2S2 | 000644-32-6 | 49 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

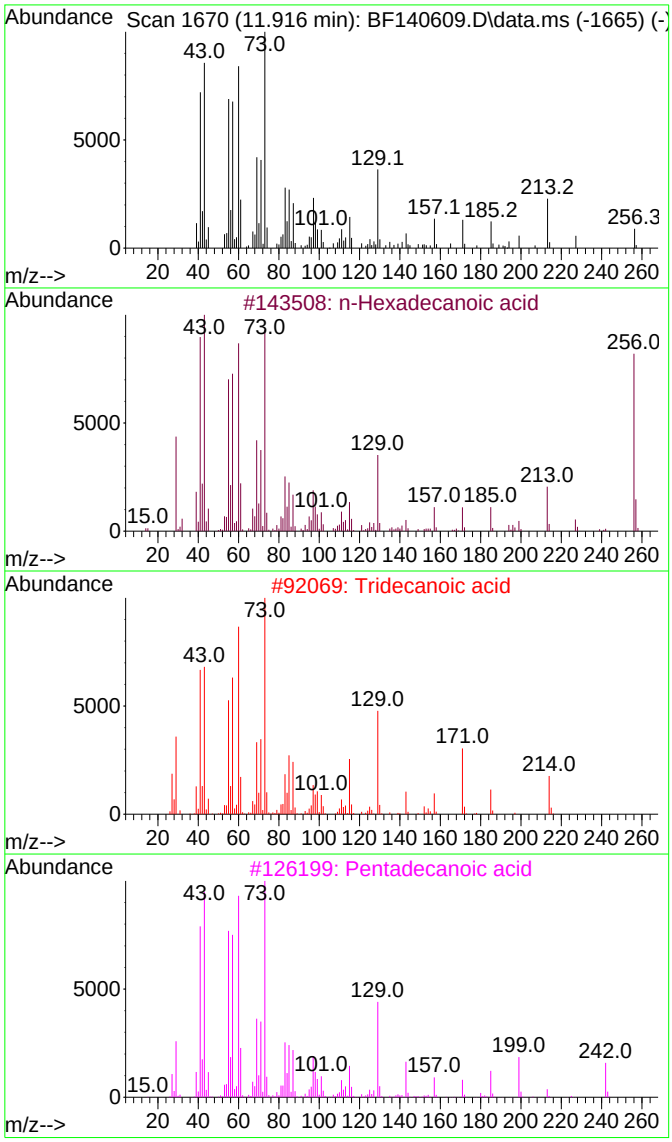
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

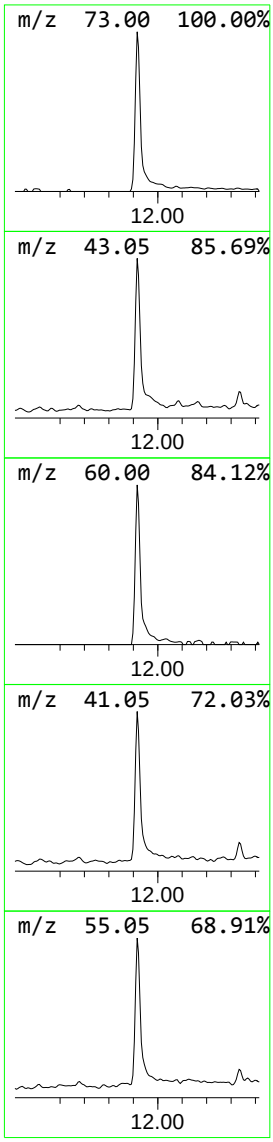
**********

Peak Number 2 n-Hexadecanoic acid Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.916 | 7.58 ng | 228074 | Phenanthrene-d10 | 11.392 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 93 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 93 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 83 |
| 5 | 8-Methylnonanoic acid | 172 | C10H20O2 | 005963-14-4 | 60 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

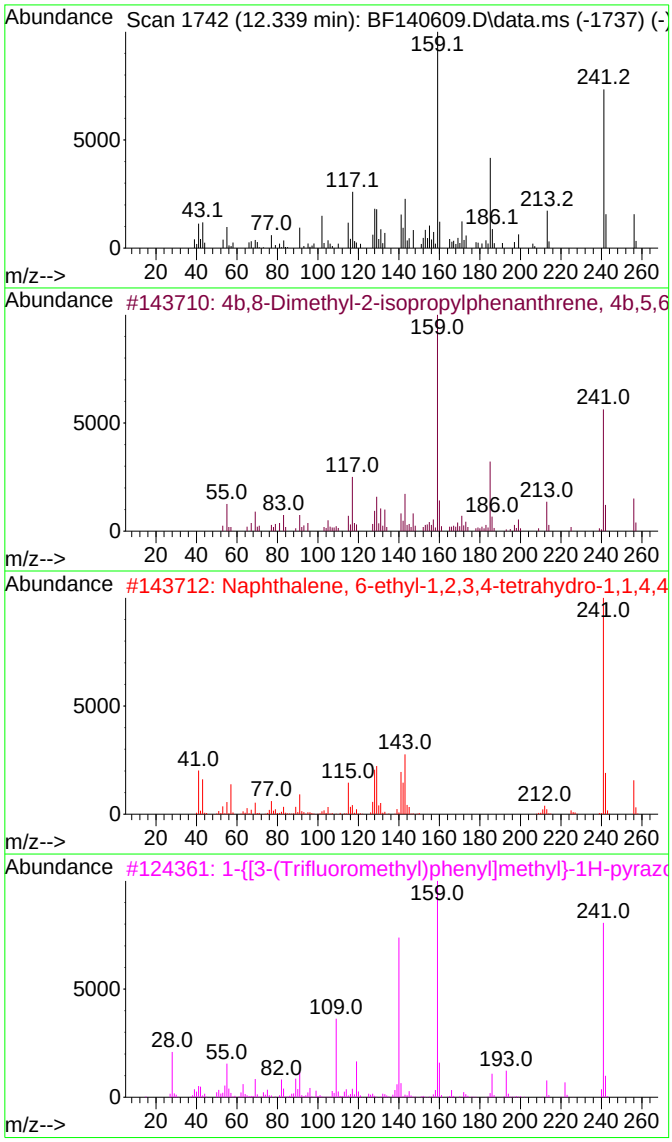
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

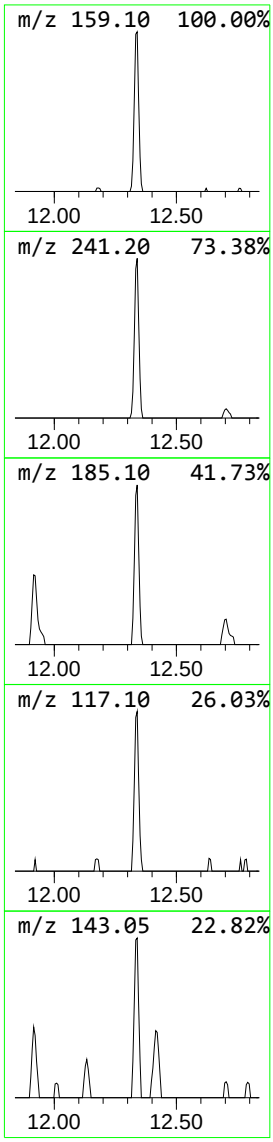
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 4b,8-Dimethyl-2-isopropylph... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.339 | 2.48 ng | 74573 | Phenanthrene-d10 | 11.392 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4b,8-Dimethyl-2-isopropylphenant... | 256 | C19H28 | 1000197-14-1 | 95 |
| 2 | Naphthalene, 6-ethyl-1,2,3,4-tet... | 256 | C19H28 | 301643-35-6 | 52 |
| 3 | 1-{[3-(Trifluoromethyl)phenyl]me... | 241 | C11H10F3N3 | 1002033-51-3 | 52 |
| 4 | 3,4-Dihydro-3,3-dimethyl-1,9(2H,... | 241 | C15H15NO2 | 1010212-95-2 | 45 |
| 5 | s-Indacen-1(2H)-one, 3,5,6,7-tet... | 256 | C18H24O | 038754-94-8 | 30 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

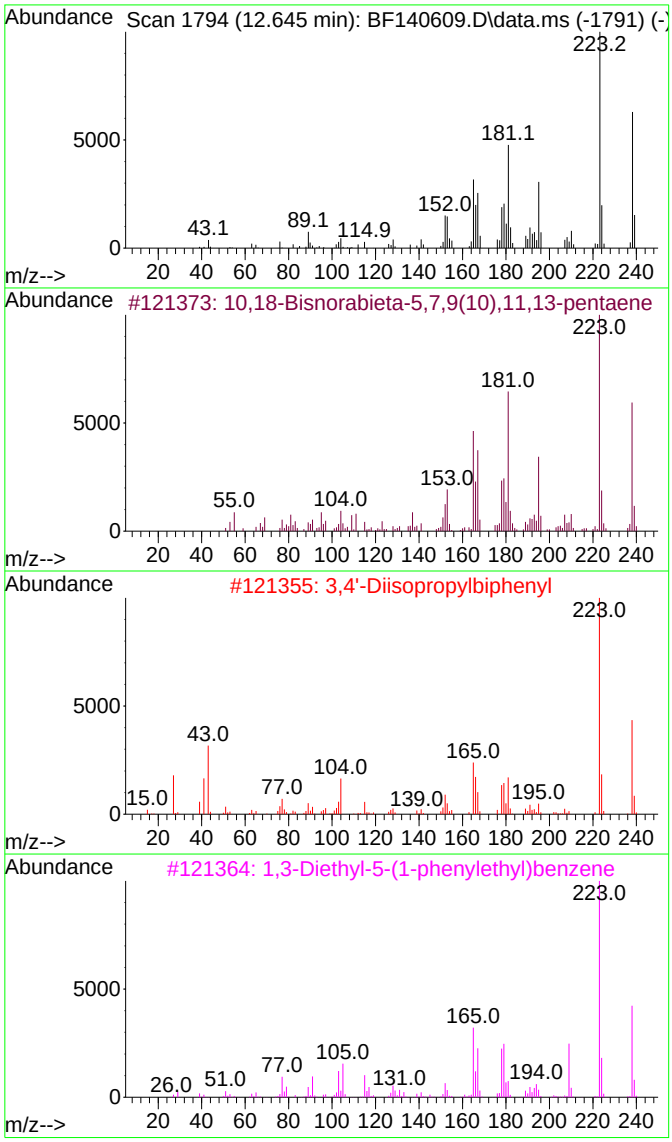
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

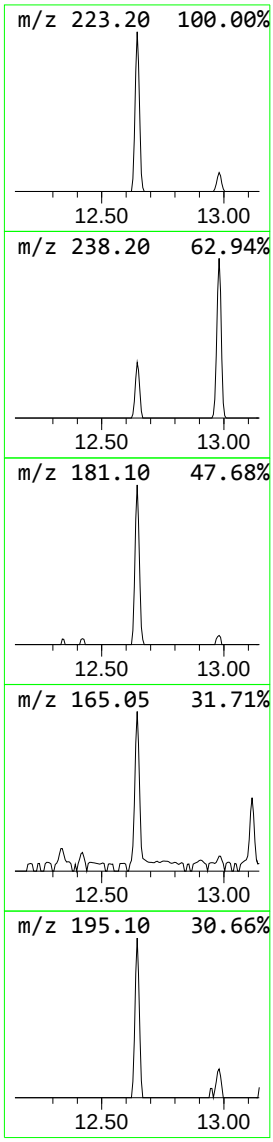
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.645 | 3.45 ng | 103878 | Phenanthrene-d10 | 11.392 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10,18-Bisnorabieta-5,7,9(10),11,... | 238 | C18H22 | 006566-19-4 | 99 |
| 2 | 3,4'-Diisopropylbiphenyl | 238 | C18H22 | 061434-46-6 | 90 |
| 3 | 1,3-Diethyl-5-(1-phenylethyl)ben... | 238 | C18H22 | 1000482-32-6 | 89 |
| 4 | 3-(N,N-Diethylamino)carbazole | 238 | C16H18N2 | 054994-31-9 | 64 |
| 5 | 4,4'-Diisopropylbiphenyl | 238 | C18H22 | 018970-30-4 | 53 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

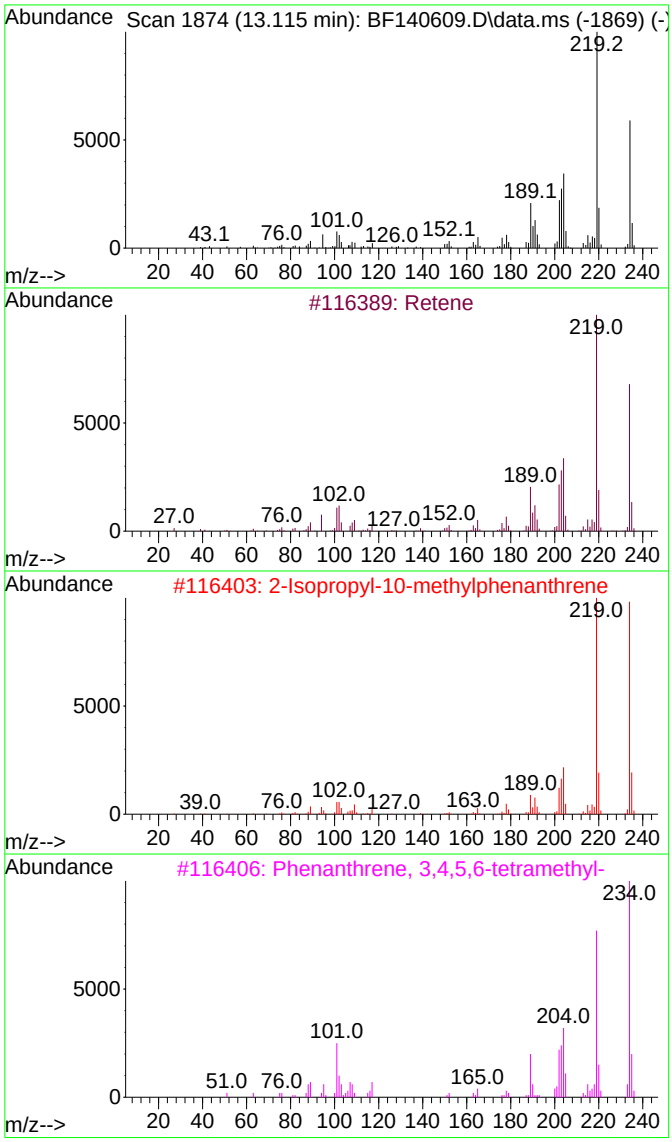
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

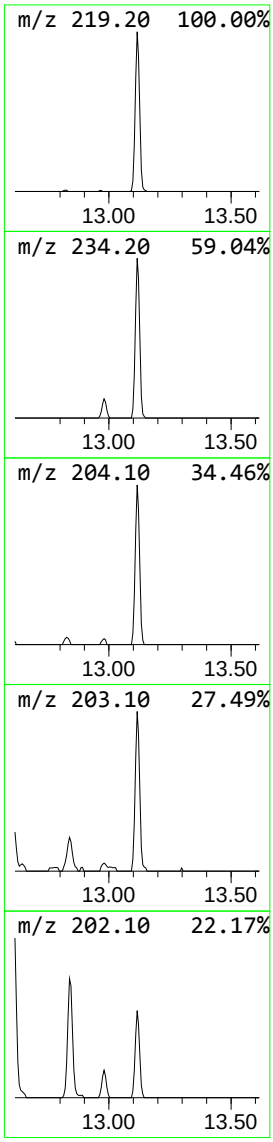
**********

Peak Number 5 Retene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.116 | 7.28 ng | 157157 | Chrysene-d12 | 14.045 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Retene | 234 | C18H18 | 000483-65-8 | 98 |
| 2 | 2-Isopropyl-10-methylphenanthrene | 234 | C18H18 | 066552-97-4 | 95 |
| 3 | Phenanthrene, 3,4,5,6-tetramethyl- | 234 | C18H18 | 007343-06-8 | 76 |
| 4 | Phenanthrene, 2,4,5,7-tetramethyl- | 234 | C18H18 | 007396-38-5 | 62 |
| 5 | 1-(10-Methylanthracen-9-yl)ethanone | 234 | C17H14O | 036778-18-4 | 58 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

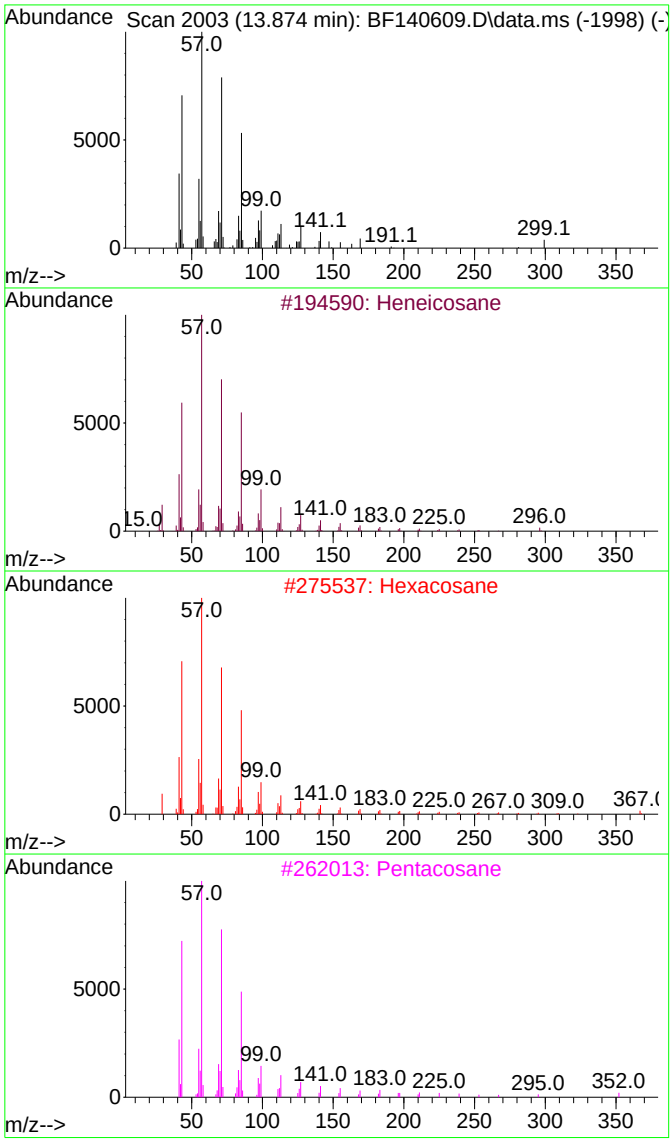
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

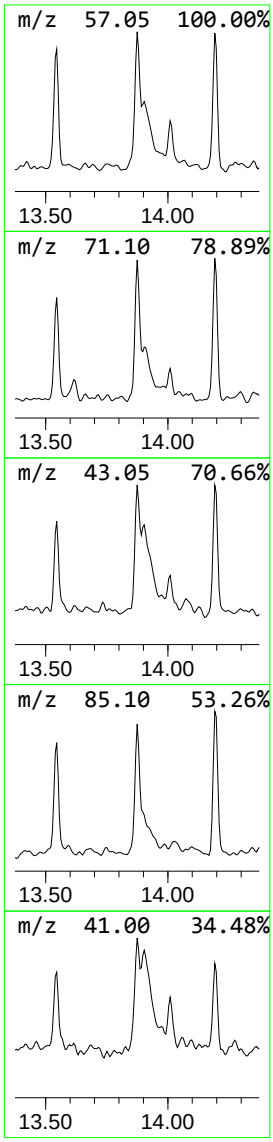
**********

Peak Number 6 Heneicosane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.874 | 2.12 ng | 45690 | Chrysene-d12 | 14.045 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |
| 3 | Pentacosane | 352 | C25H52 | 000629-99-2 | 91 |
| 4 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 91 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

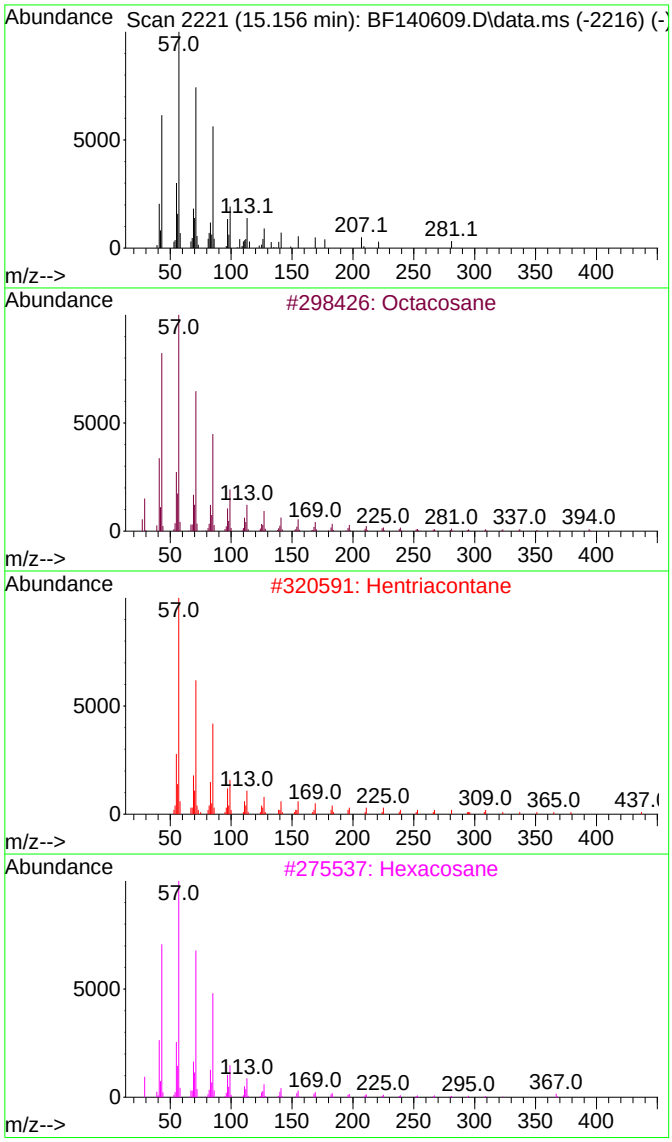
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

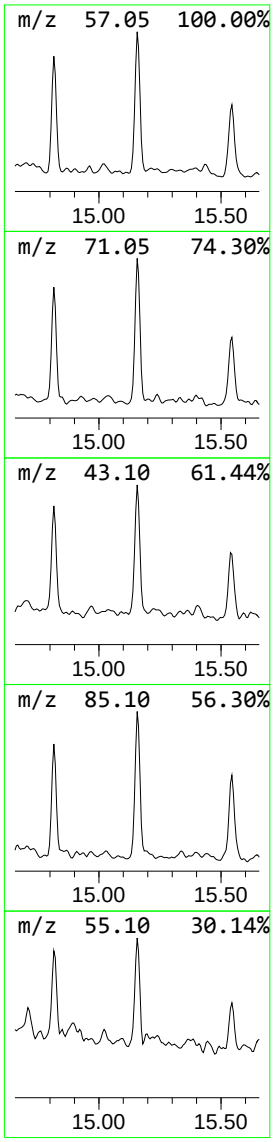
**********

Peak Number 7 Octacosane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.156 | 2.35 ng | 43815 | Perylene-d12 | 15.539 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octacosane | 394 | C28H58 | 000630-02-4 | 91 |
| 2 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 91 |
| 3 | Hexacosane | 366 | C26H54 | 000630-01-3 | 90 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 5 | Heptacosane | 380 | C27H56 | 000593-49-7 | 87 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

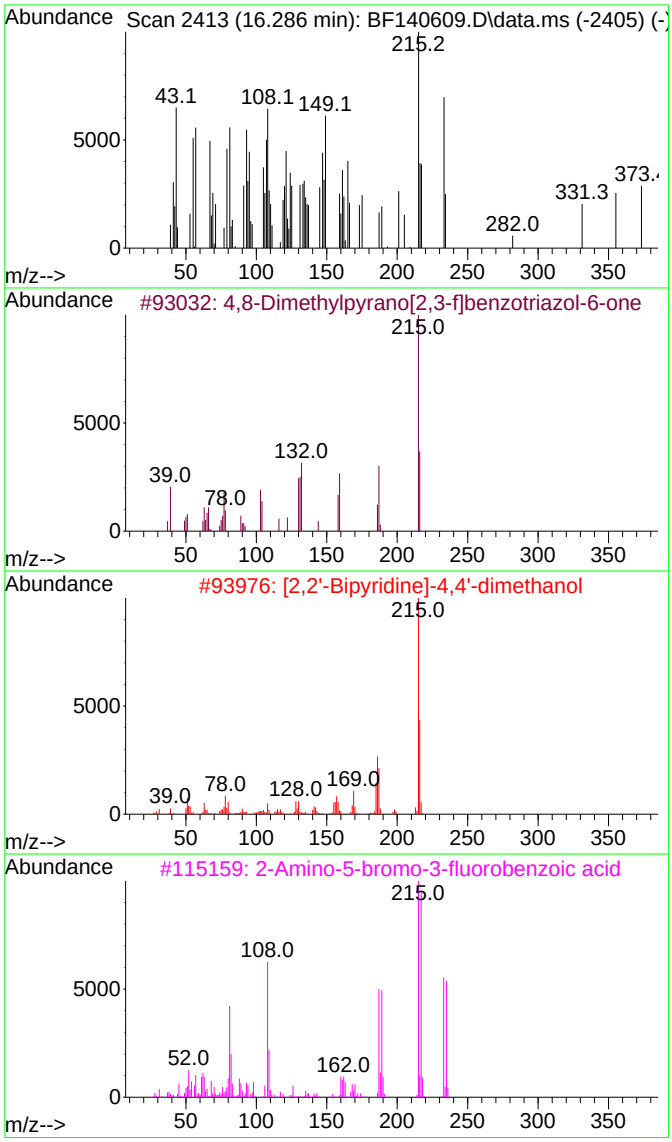
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

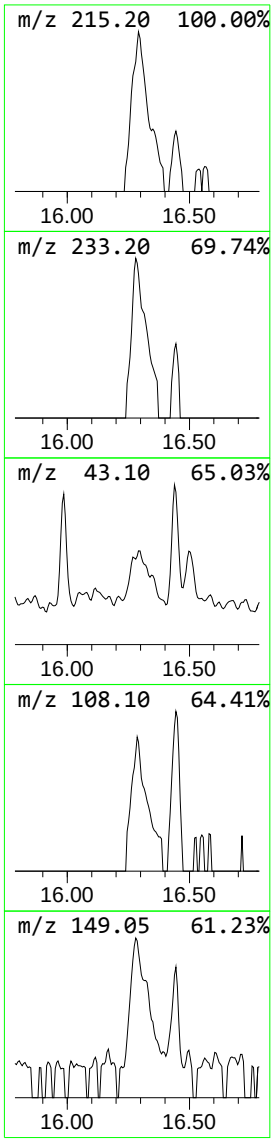
**********

Peak Number 8 unknown16.286 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.286 | 5.98 ng | 111314 | Perylene-d12 | 15.539 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4,8-Dimethylpyrano[2,3-f]benzotr... | 215 | C11H9N3O2 | 129503-12-4 | 14 |
| 2 | [2,2'-Bipyridine]-4,4'-dimethanol | 216 | C12H12N2O2 | 109073-77-0 | 12 |
| 3 | 2-Amino-5-bromo-3-fluorobenzoic ... | 233 | C7H5BrFNO2 | 874784-14-2 | 12 |
| 4 | 4-Methyl-2H,3H,3aH-pyrrolo[1,2-a... | 216 | C12H12N2O2 | 1000387-53-2 | 12 |
| 5 | 2-Cyclohexen-3-ol-1-one, 2-benzoyl- | 216 | C13H12O3 | 061834-43-3 | 10 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

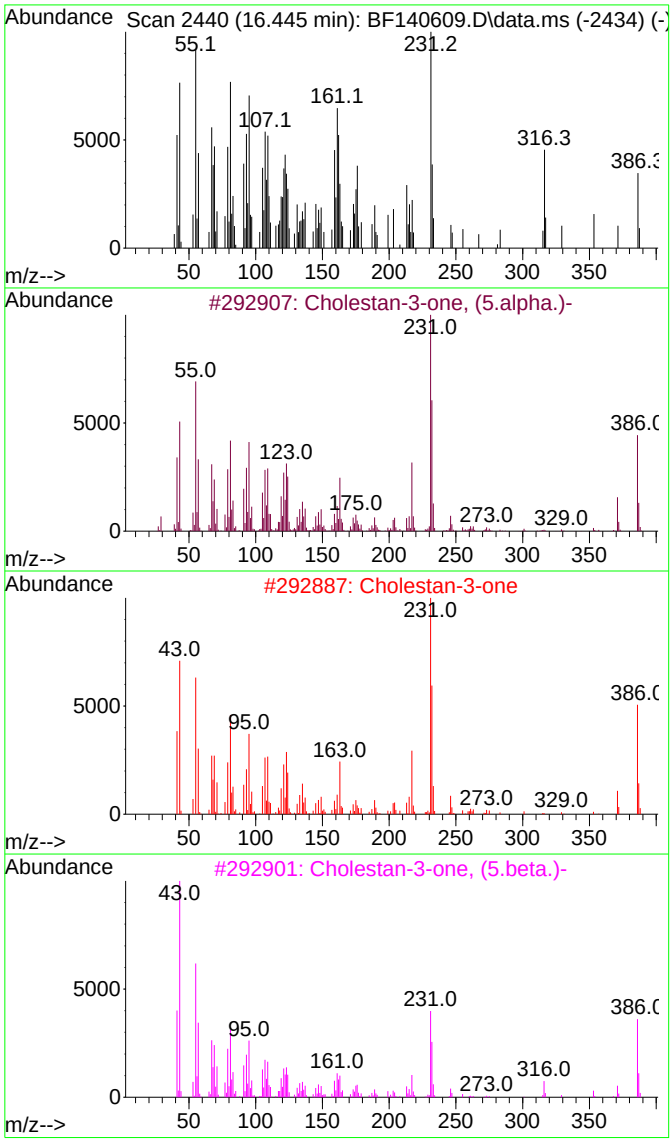
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

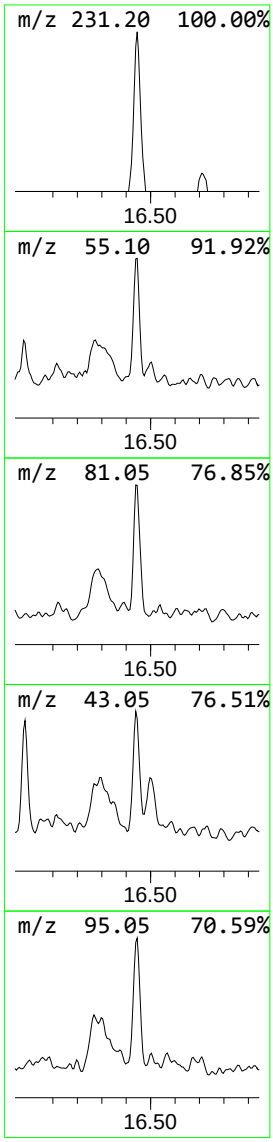
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 Cholestan-3-one, (5.alpha.)- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.445 | 5.68 ng | 105767 | Perylene-d12 | 15.539 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cholestan-3-one, (5.alpha.)- | 386 | C27H46O | 000566-88-1 | 91 |
| 2 | Cholestan-3-one | 386 | C27H46O | 015600-08-5 | 91 |
| 3 | Cholestan-3-one, (5.beta.)- | 386 | C27H46O | 000601-53-6 | 86 |
| 4 | Cholestane, 14-methyl-, (5.alpha.)- | 386 | C28H50 | 054482-34-7 | 30 |
| 5 | Cholestane, 14-methyl- | 386 | C28H50 | 052474-84-7 | 25 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DUP-01

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 |
| Benzophenone | 10.616 | 4.6 | ng | 126824 | 3 | 9.904 | 546386 | 20.0 |
| n-Hexadecanoic ... | 11.916 | 7.6 | ng | 228074 | 4 | 11.392 | 601408 | 20.0 |
| 4b,8-Dimethyl-2... | 12.339 | 2.5 | ng | 74573 | 4 | 11.392 | 601408 | 20.0 |
| 10,18-Bisnorabi... | 12.645 | 3.5 | ng | 103878 | 4 | 11.392 | 601408 | 20.0 |
| Retene | 13.116 | 7.3 | ng | 157157 | 5 | 14.045 | 432045 | 20.0 |
| Heneicosane | 13.874 | 2.1 | ng | 45690 | 5 | 14.045 | 432045 | 20.0 |
| Octacosane | 15.156 | 2.4 | ng | 43815 | 6 | 15.539 | 372267 | 20.0 |
| unknown16.286 | 16.286 | 6.0 | ng | 111314 | 6 | 15.539 | 372267 | 20.0 |
| Cholestan-3-one... | 16.445 | 5.7 | ng | 105767 | 6 | 15.539 | 372267 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Quant Time: Nov 22 22:17:51 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

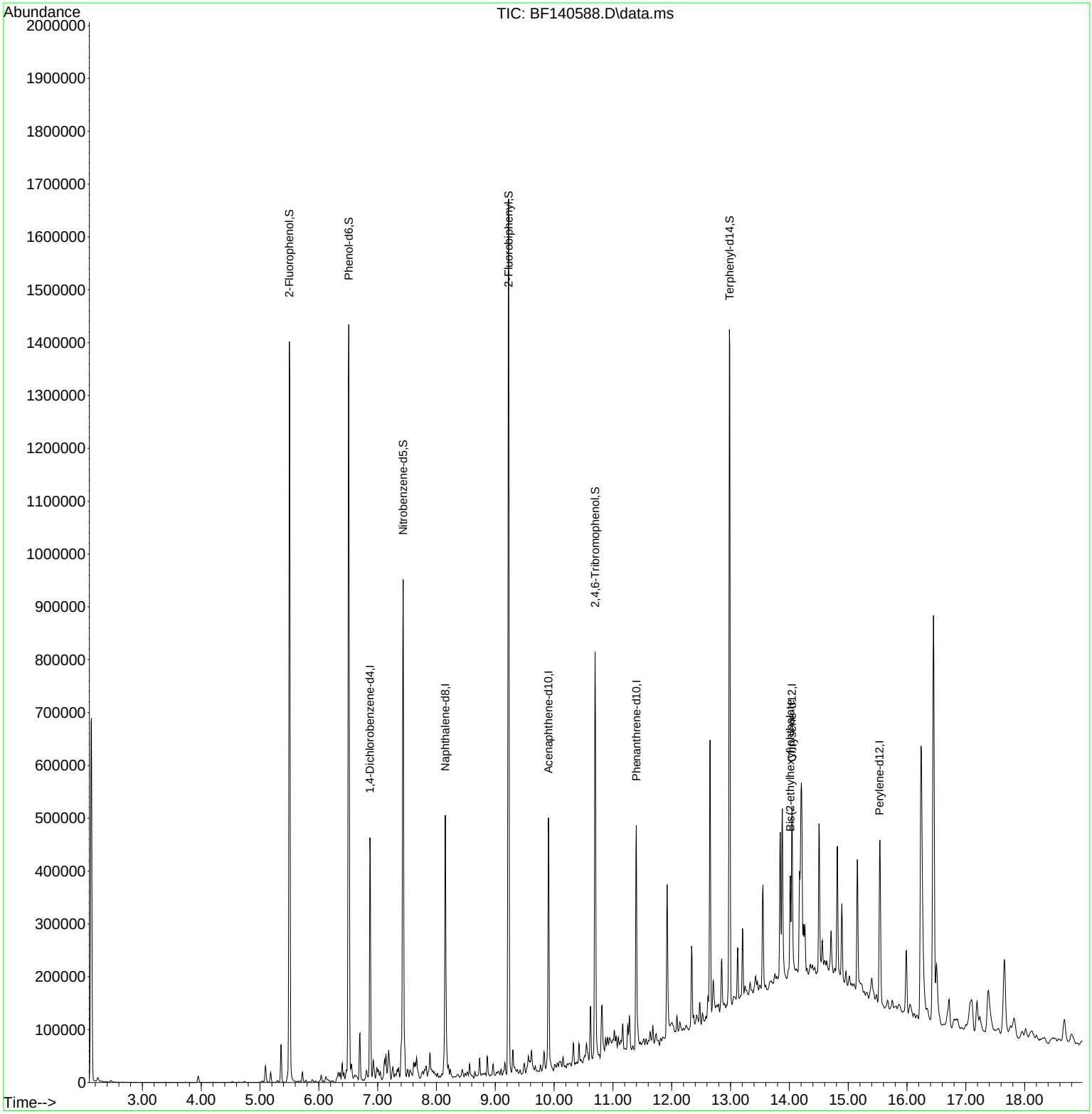
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.869 | 152 | 91972 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.151 | 136 | 309675 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.904 | 164 | 141425 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.398 | 188 | 223631 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.045 | 240 | 148537 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.533 | 264 | 113324 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.498 | 112 | 537625 | 99.737 | ng | 0.00 |
| 7) Phenol-d6 | 6.510 | 99 | 689964 | 96.820 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.434 | 82 | 434510 | 71.770 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.698 | 330 | 131171 | 86.722 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.228 | 172 | 758546 | 79.914 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.986 | 244 | 647587 | 67.887 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 84) Bis(2-ethylhexyl)phtha... | 14.016 | 149 | 77057 | 12.334 | ng | 99 |

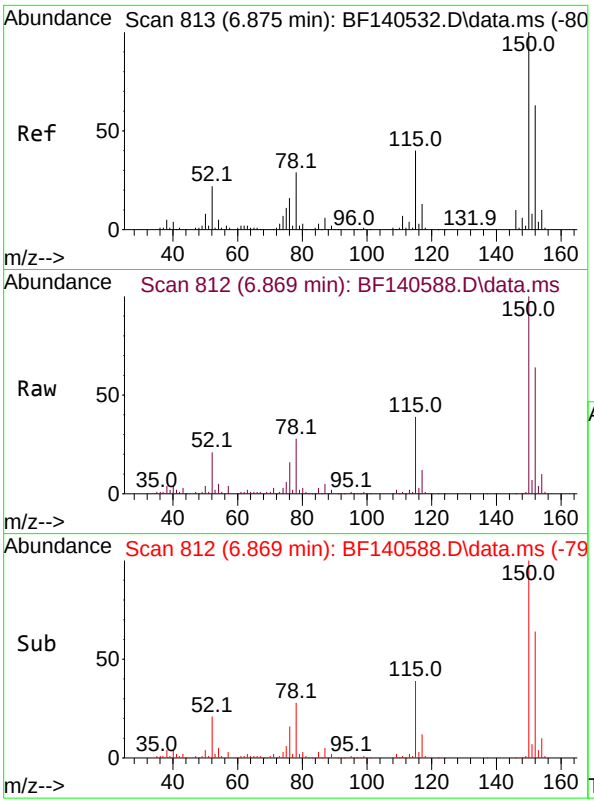
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Quant Time: Nov 22 22:17:51 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



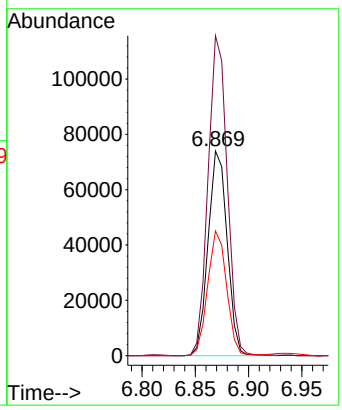


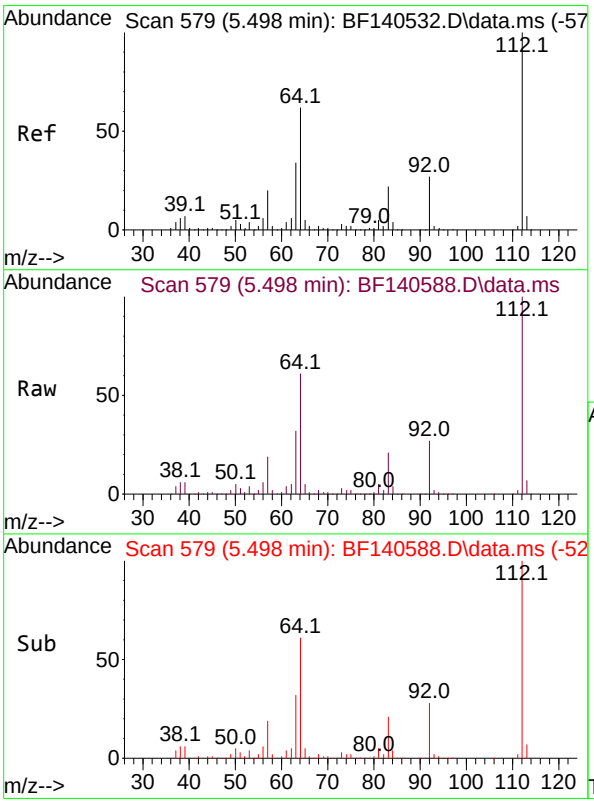

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Tgt Ion:152 Resp: 91972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.4 | 128.5 | 192.7 |
| 115 | 61.0 | 50.2 | 75.4 |

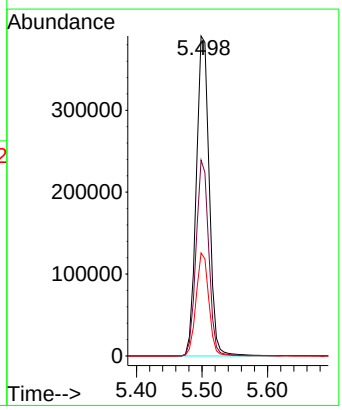


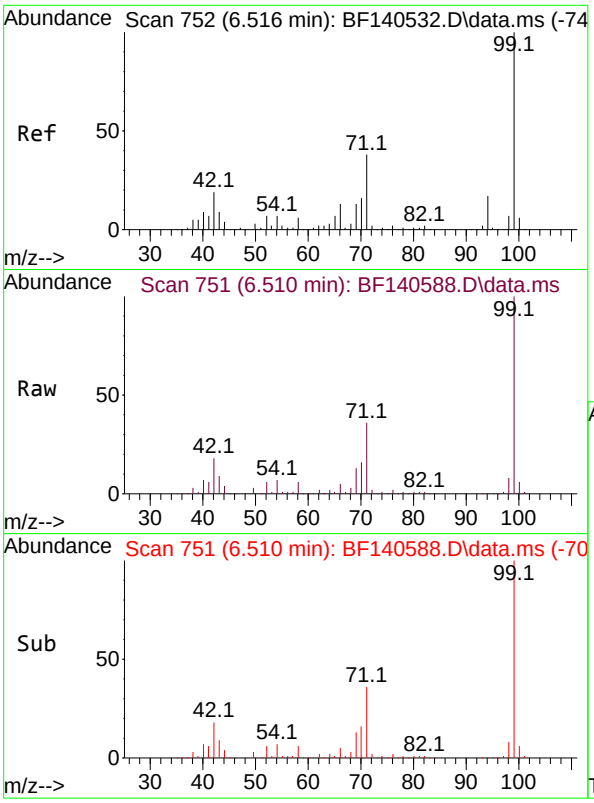




#5
2-Fluorophenol
Concen: 99.737 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

Tgt Ion:112 Resp: 537625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 61.2 | 49.2 | 73.8 |
| 63 | 32.2 | 27.0 | 40.4 |



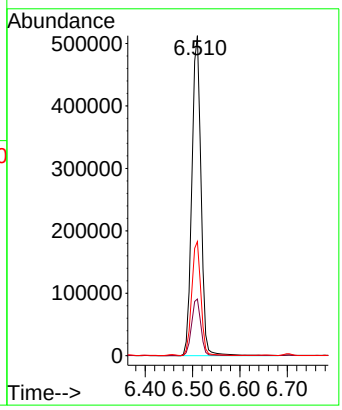


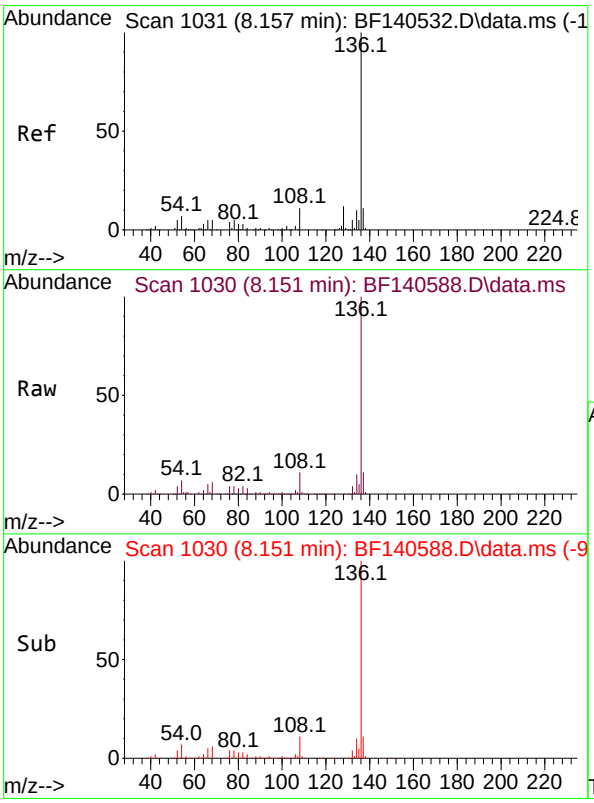

#7
Phenol-d6
Concen: 96.820 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Tgt Ion: 99 Resp: 689964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 17.7 | 15.4 | 23.0 |
| 71 | 35.6 | 30.6 | 46.0 |

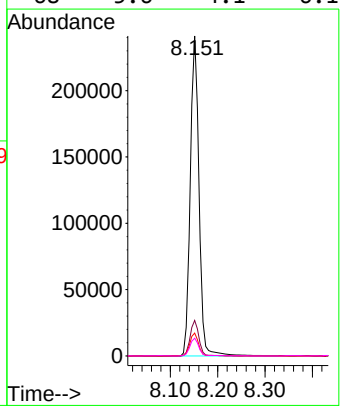


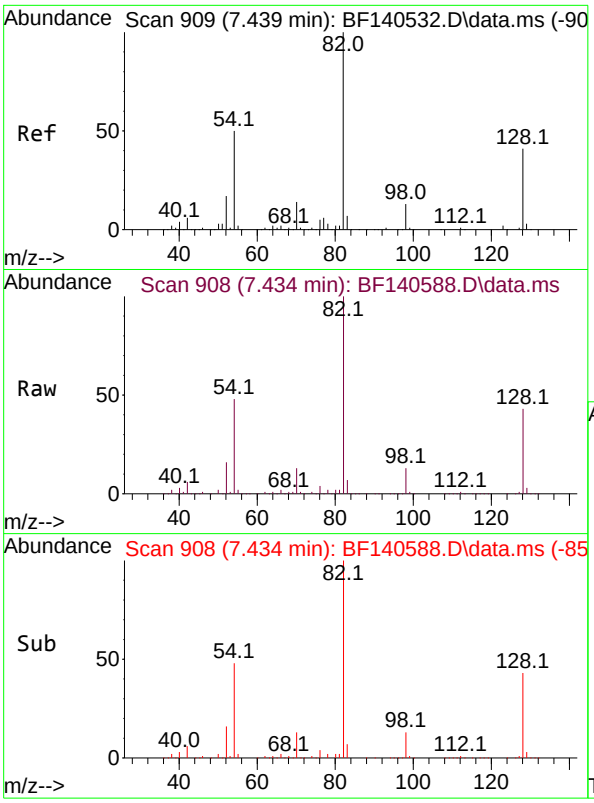




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

Tgt Ion:136 Resp: 309675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.1 | 8.6 | 13.0 |
| 54 | 7.2 | 5.8 | 8.8 |
| 68 | 5.6 | 4.1 | 6.1 |



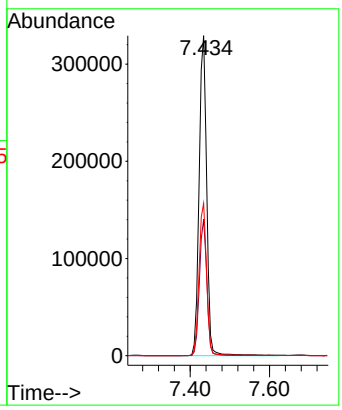


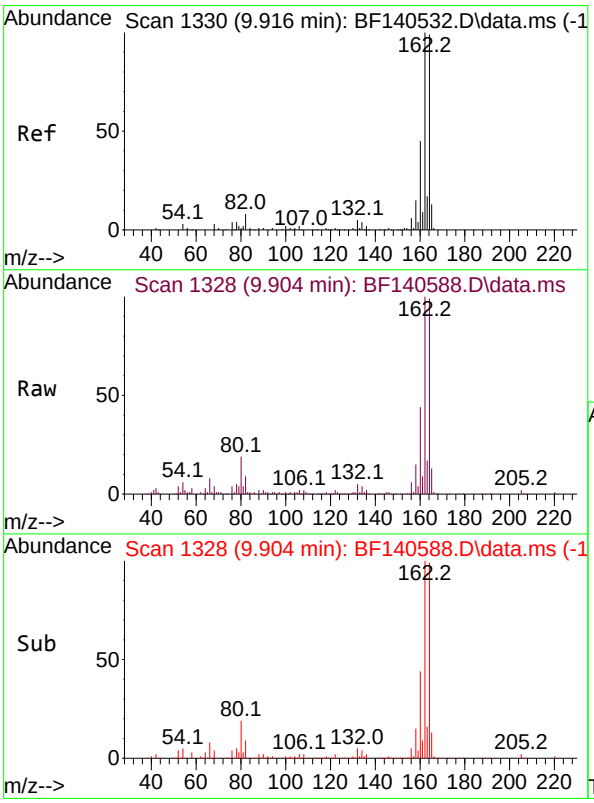

#23
Nitrobenzene-d5
Concen: 71.770 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Tgt Ion: 82 Resp: 434510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.6 | 33.0 | 49.4 |
| 54 | 47.6 | 39.5 | 59.3 |

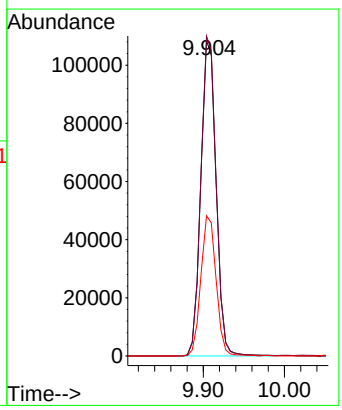


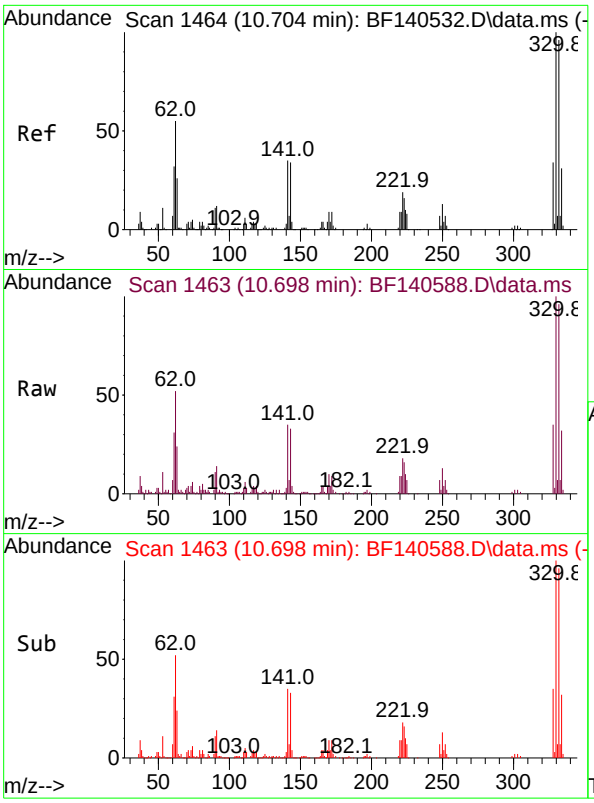




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

Tgt Ion:164 Resp: 141425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.4 | 80.6 | 120.8 |
| 160 | 44.4 | 36.2 | 54.4 |



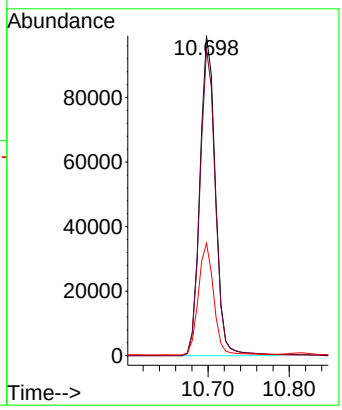


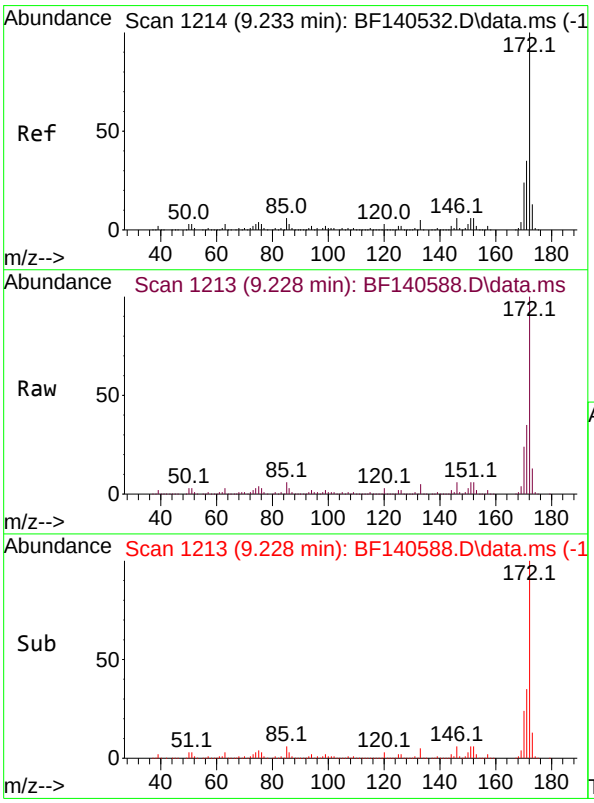

#42
2,4,6-Tribromophenol
Concen: 86.722 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Tgt Ion:330 Resp: 131171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.6 | 76.9 | 115.3 |
| 141 | 34.7 | 26.7 | 40.1 |

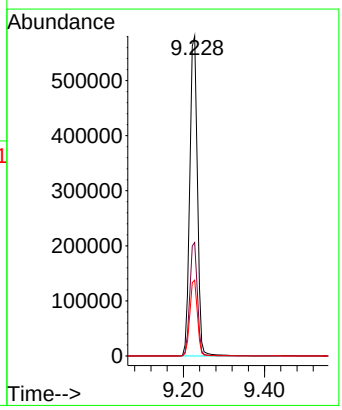


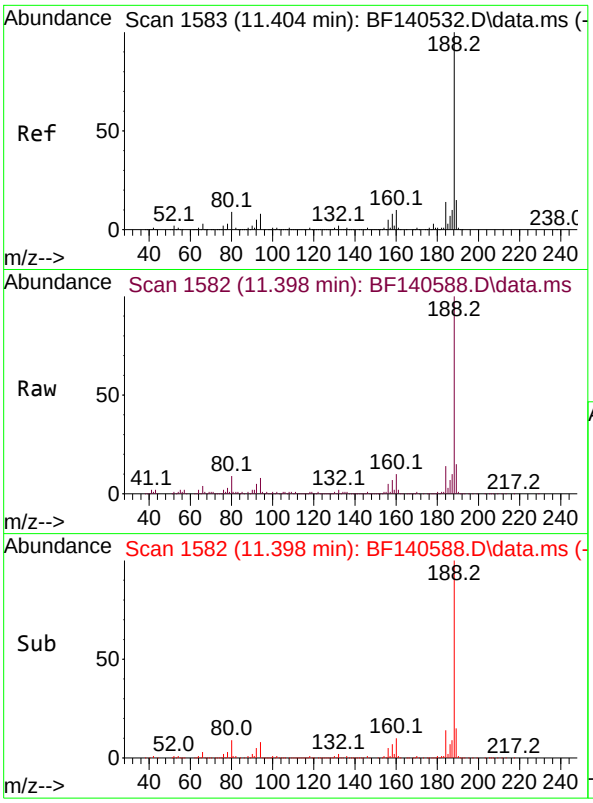




#45
2-Fluorobiphenyl
Concen: 79.914 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

Tgt Ion:172 Resp: 758546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.5 | 28.4 | 42.6 |
| 170 | 23.7 | 19.0 | 28.6 |



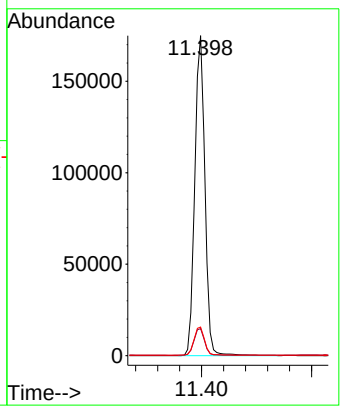


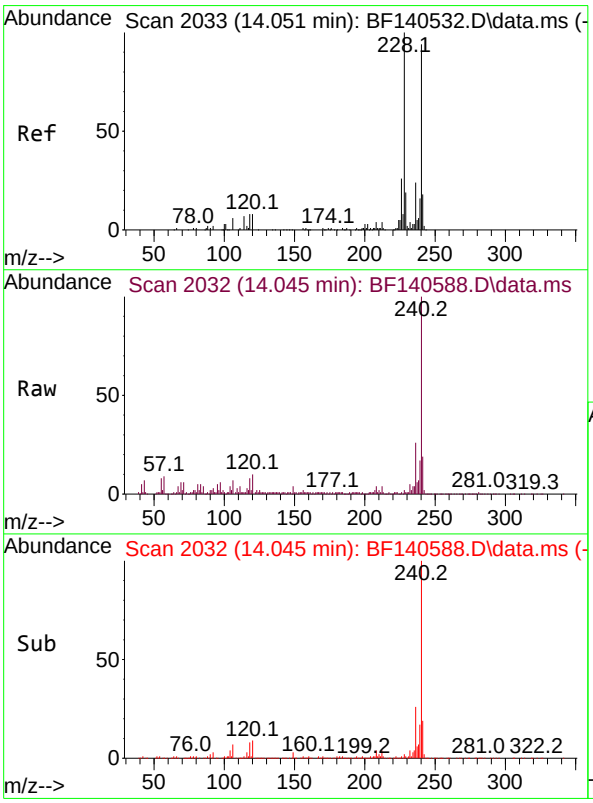

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Tgt Ion:188 Resp: 223631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.4 | 6.4 | 9.6 |
| 80 | 9.0 | 6.9 | 10.3 |

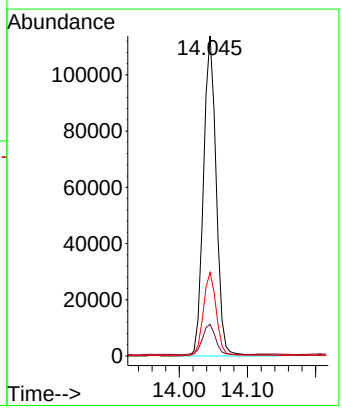


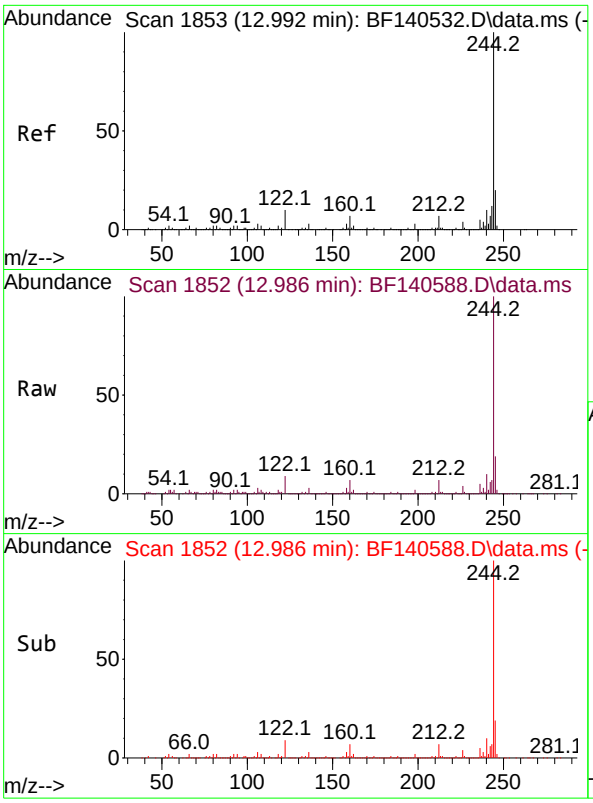




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

Tgt Ion:240 Resp: 148537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.9 | 7.3 | 10.9 |
| 236 | 26.1 | 20.6 | 31.0 |



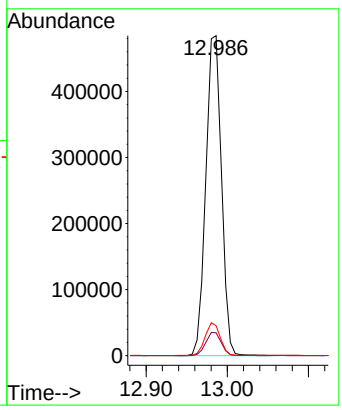


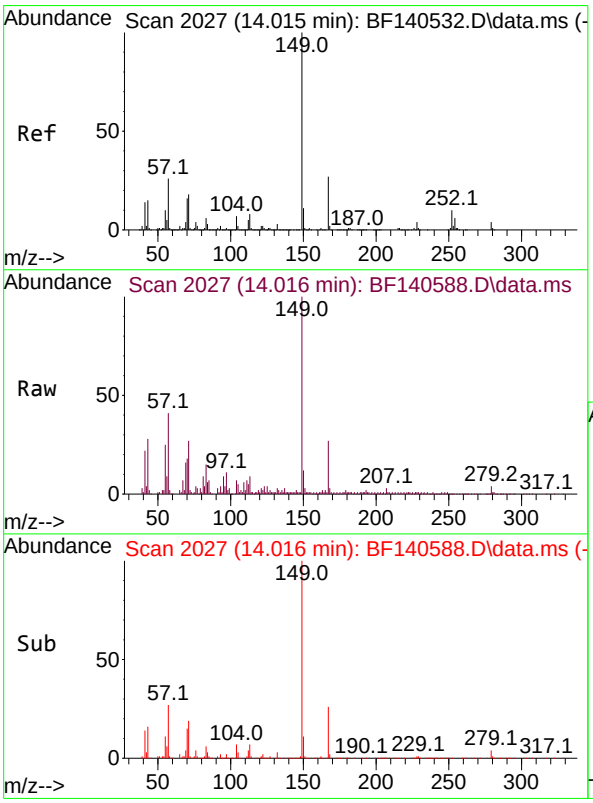

#79
Terphenyl-d14
Concen: 67.887 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Tgt Ion:244 Resp: 647587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.2 | 5.8 | 8.8 |
| 122 | 9.4 | 8.0 | 12.0 |

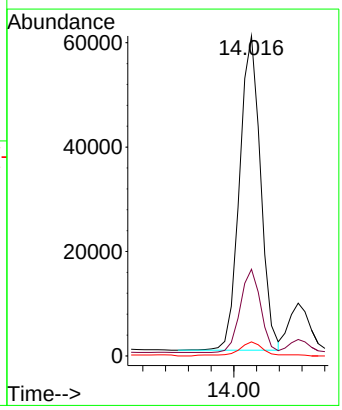


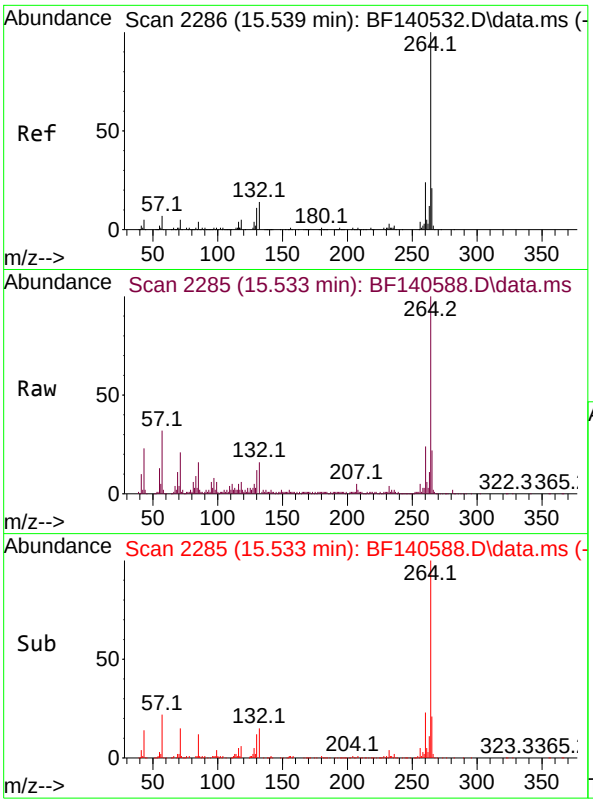




#84
Bis(2-ethylhexyl)phthalate
Concen: 12.334 ng
RT: 14.016 min Scan# 2027
Delta R.T. 0.000 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

Tgt Ion:149 Resp: 77057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.1 | 21.2 | 31.8 |
| 279 | 4.4 | 3.2 | 4.8 |



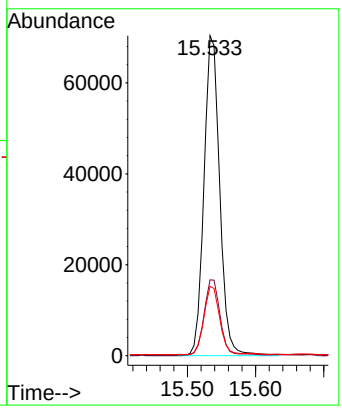



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Tgt Ion:264 Resp: 113324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.7 | 19.0 | 28.6 |
| 265 | 21.7 | 16.6 | 25.0 |



Sample Results: **BF140588.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

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: BF140588.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.134 | 3 | 7 | 17 | rVB | 686273 | 1055284 | 48.76% | 4.054% |
| 2 | 5.093 | 505 | 510 | 520 | rVB | 31254 | 48727 | 2.25% | 0.187% |
| 3 | 5.181 | 520 | 525 | 530 | rBV | 19257 | 25429 | 1.17% | 0.098% |
| 4 | 5.357 | 550 | 555 | 560 | rBV | 71173 | 89794 | 4.15% | 0.345% |
| 5 | 5.498 | 574 | 579 | 594 | rVB | 1399798 | 1898570 | 87.72% | 7.294% |
| 6 | 5.722 | 613 | 617 | 623 | rVB | 18632 | 25191 | 1.16% | 0.097% |
| 7 | 6.040 | 662 | 671 | 675 | rBV | 13403 | 22075 | 1.02% | 0.085% |
| 8 | 6.122 | 679 | 685 | 692 | rBV5 | 9988 | 22532 | 1.04% | 0.087% |
| 9 | 6.334 | 711 | 721 | 723 | rBV | 18694 | 40559 | 1.87% | 0.156% |
| 10 | 6.398 | 729 | 732 | 735 | rBV | 29128 | 33539 | 1.55% | 0.129% |
| 11 | 6.510 | 745 | 751 | 756 | rVV | 1426685 | 1907531 | 88.13% | 7.328% |
| 12 | 6.551 | 756 | 758 | 764 | rVB2 | 26622 | 37511 | 1.73% | 0.144% |
| 13 | 6.698 | 778 | 783 | 791 | rVB2 | 88514 | 123421 | 5.70% | 0.474% |
| 14 | 6.810 | 795 | 802 | 807 | rBV2 | 18813 | 36458 | 1.68% | 0.140% |
| 15 | 6.869 | 807 | 812 | 818 | rBV | 452764 | 587590 | 27.15% | 2.257% |
| 16 | 6.928 | 818 | 822 | 828 | rVB2 | 33177 | 52456 | 2.42% | 0.202% |
| 17 | 6.987 | 828 | 832 | 834 | rBV2 | 18860 | 25488 | 1.18% | 0.098% |
| 18 | 7.116 | 847 | 854 | 856 | rBV | 37547 | 55393 | 2.56% | 0.213% |
| 19 | 7.139 | 856 | 858 | 861 | rVV | 44636 | 51190 | 2.37% | 0.197% |
| 20 | 7.187 | 861 | 866 | 873 | rVB2 | 54619 | 108994 | 5.04% | 0.419% |
| 21 | 7.257 | 873 | 878 | 882 | rBV2 | 23169 | 38596 | 1.78% | 0.148% |
| 22 | 7.434 | 903 | 908 | 917 | rVB | 940269 | 1289460 | 59.58% | 4.954% |
| 23 | 7.551 | 925 | 928 | 935 | rBV4 | 12402 | 23447 | 1.08% | 0.090% |
| 24 | 7.610 | 935 | 938 | 941 | rBV | 24841 | 35632 | 1.65% | 0.137% |
| 25 | 7.663 | 944 | 947 | 956 | rVB2 | 39348 | 71417 | 3.30% | 0.274% |
| 26 | 7.769 | 958 | 965 | 967 | rBV4 | 13315 | 28119 | 1.30% | 0.108% |
| 27 | 7.822 | 972 | 974 | 978 | rVB2 | 18658 | 23368 | 1.08% | 0.090% |
| 28 | 7.887 | 978 | 985 | 989 | rBV3 | 42870 | 73823 | 3.41% | 0.284% |
| 29 | 8.151 | 1022 | 1030 | 1037 | rBV | 490962 | 705534 | 32.60% | 2.711% |
| 30 | 8.234 | 1042 | 1044 | 1052 | rVB4 | 15561 | 23907 | 1.10% | 0.092% |
| 31 | 8.563 | 1097 | 1100 | 1107 | rVB | 22356 | 27263 | 1.26% | 0.105% |
| 32 | 8.734 | 1125 | 1129 | 1134 | rVB | 32815 | 39655 | 1.83% | 0.152% |
| 33 | 8.863 | 1148 | 1151 | 1158 | rVB2 | 37263 | 49169 | 2.27% | 0.189% |
| 34 | 8.963 | 1164 | 1168 | 1174 | rVB | 21231 | 28317 | 1.31% | 0.109% |
| 35 | 9.163 | 1199 | 1202 | 1207 | rVB2 | 22311 | 28918 | 1.34% | 0.111% |
| 36 | 9.228 | 1207 | 1213 | 1221 | rBV | 1656429 | 2164398 | 100.00% | 8.315% |

Sample Results: **BF140588.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 9.298 | 1221 | 1225 | 1229 | rBV | 42354 | 57923 | 2.68% | 0.223% |
| 38 | 9.492 | 1254 | 1258 | 1262 | rBV | 18417 | 26740 | 1.24% | 0.103% |
| 39 | 9.563 | 1262 | 1270 | 1273 | rBV3 | 31756 | 65789 | 3.04% | 0.253% |
| 40 | 9.616 | 1276 | 1279 | 1287 | rVB2 | 36151 | 61362 | 2.84% | 0.236% |
| 41 | 9.828 | 1309 | 1315 | 1320 | rBV | 37166 | 63374 | 2.93% | 0.243% |
| 42 | 9.904 | 1320 | 1328 | 1342 | rVB | 478789 | 685964 | 31.69% | 2.635% |
| 43 | 10.016 | 1342 | 1347 | 1350 | rBV3 | 12243 | 22519 | 1.04% | 0.087% |
| 44 | 10.151 | 1366 | 1370 | 1374 | rVB3 | 18614 | 23404 | 1.08% | 0.090% |
| 45 | 10.328 | 1394 | 1400 | 1404 | rBV2 | 42624 | 67597 | 3.12% | 0.260% |
| 46 | 10.422 | 1413 | 1416 | 1420 | rBV | 37021 | 45792 | 2.12% | 0.176% |
| 47 | 10.551 | 1434 | 1438 | 1445 | rVB2 | 31730 | 58501 | 2.70% | 0.225% |
| 48 | 10.622 | 1445 | 1450 | 1455 | rBV | 100969 | 137638 | 6.36% | 0.529% |
| 49 | 10.698 | 1458 | 1463 | 1473 | rVB | 763394 | 1005123 | 46.44% | 3.862% |
| 50 | 10.816 | 1477 | 1483 | 1490 | rBV4 | 99236 | 205213 | 9.48% | 0.788% |
| 51 | 10.875 | 1490 | 1493 | 1496 | rBV2 | 23348 | 29712 | 1.37% | 0.114% |
| 52 | 11.092 | 1527 | 1530 | 1534 | rBV | 18436 | 25365 | 1.17% | 0.097% |
| 53 | 11.169 | 1539 | 1543 | 1547 | rVB | 47176 | 62687 | 2.90% | 0.241% |
| 54 | 11.251 | 1554 | 1557 | 1559 | rBV | 45245 | 55473 | 2.56% | 0.213% |
| 55 | 11.280 | 1559 | 1562 | 1568 | rVB2 | 64415 | 91642 | 4.23% | 0.352% |
| 56 | 11.398 | 1577 | 1582 | 1592 | rBV | 422973 | 612268 | 28.29% | 2.352% |
| 57 | 11.680 | 1627 | 1630 | 1634 | rVB | 32028 | 38238 | 1.77% | 0.147% |
| 58 | 11.922 | 1666 | 1671 | 1679 | rBV | 289168 | 448778 | 20.73% | 1.724% |
| 59 | 12.086 | 1697 | 1699 | 1704 | rVB | 28900 | 31568 | 1.46% | 0.121% |
| 60 | 12.339 | 1738 | 1742 | 1746 | rBV2 | 151775 | 197100 | 9.11% | 0.757% |
| 61 | 12.480 | 1763 | 1766 | 1769 | rVB | 41389 | 49744 | 2.30% | 0.191% |
| 62 | 12.616 | 1786 | 1789 | 1791 | rBV | 37662 | 49976 | 2.31% | 0.192% |
| 63 | 12.651 | 1791 | 1795 | 1800 | rVV | 518324 | 649806 | 30.02% | 2.496% |
| 64 | 12.704 | 1801 | 1804 | 1811 | rVV2 | 54879 | 93734 | 4.33% | 0.360% |
| 65 | 12.851 | 1825 | 1829 | 1835 | rVB2 | 87489 | 113753 | 5.26% | 0.437% |
| 66 | 12.980 | 1846 | 1851 | 1859 | rVB | 1276840 | 1721071 | 79.52% | 6.612% |
| 67 | 13.121 | 1871 | 1875 | 1880 | rBV | 96086 | 115721 | 5.35% | 0.445% |
| 68 | 13.204 | 1886 | 1889 | 1893 | rBV | 124605 | 147759 | 6.83% | 0.568% |
| 69 | 13.551 | 1944 | 1948 | 1954 | rVB | 193529 | 253581 | 11.72% | 0.974% |
| 70 | 13.845 | 1994 | 1998 | 2001 | rBV | 267997 | 370638 | 17.12% | 1.424% |
| 71 | 13.880 | 2001 | 2004 | 2017 | rVB | 321510 | 463409 | 21.41% | 1.780% |
| 72 | 14.016 | 2023 | 2027 | 2029 | rBV | 176422 | 227597 | 10.52% | 0.874% |
| 73 | 14.045 | 2029 | 2032 | 2041 | rVB | 310218 | 423942 | 19.59% | 1.629% |
| 74 | 14.174 | 2050 | 2054 | 2055 | rBV | 187409 | 220706 | 10.20% | 0.848% |
| 75 | 14.204 | 2055 | 2059 | 2064 | rVB2 | 303234 | 584893 | 27.02% | 2.247% |
| 76 | 14.504 | 2106 | 2110 | 2116 | rBV | 280368 | 400426 | 18.50% | 1.538% |

Sample Results: **BF140588.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 14.815 | 2159 | 2163 | 2171 | rVV | 243007 | 334725 | 15.47% | 1.286% |
| 78 | 14.892 | 2172 | 2176 | 2184 | rVB | 148552 | 208058 | 9.61% | 0.799% |
| 79 | 15.157 | 2217 | 2221 | 2230 | rBV | 238936 | 341342 | 15.77% | 1.311% |
| 80 | 15.539 | 2281 | 2286 | 2300 | rVB2 | 317814 | 563306 | 26.03% | 2.164% |
| 81 | 15.986 | 2358 | 2362 | 2368 | rVB | 118924 | 194460 | 8.98% | 0.747% |
| 82 | 16.239 | 2399 | 2405 | 2420 | rBV3 | 511092 | 1311580 | 60.60% | 5.039% |
| 83 | 16.451 | 2434 | 2441 | 2447 | rBV | 756138 | 1480223 | 68.39% | 5.687% |
| 84 | 17.192 | 2563 | 2567 | 2572 | rBV5 | 37344 | 62319 | 2.88% | 0.239% |
| 85 | 17.386 | 2594 | 2600 | 2616 | rVB6 | 75250 | 264528 | 12.22% | 1.016% |
| 86 | 17.656 | 2639 | 2646 | 2657 | rVB2 | 136288 | 363478 | 16.79% | 1.396% |

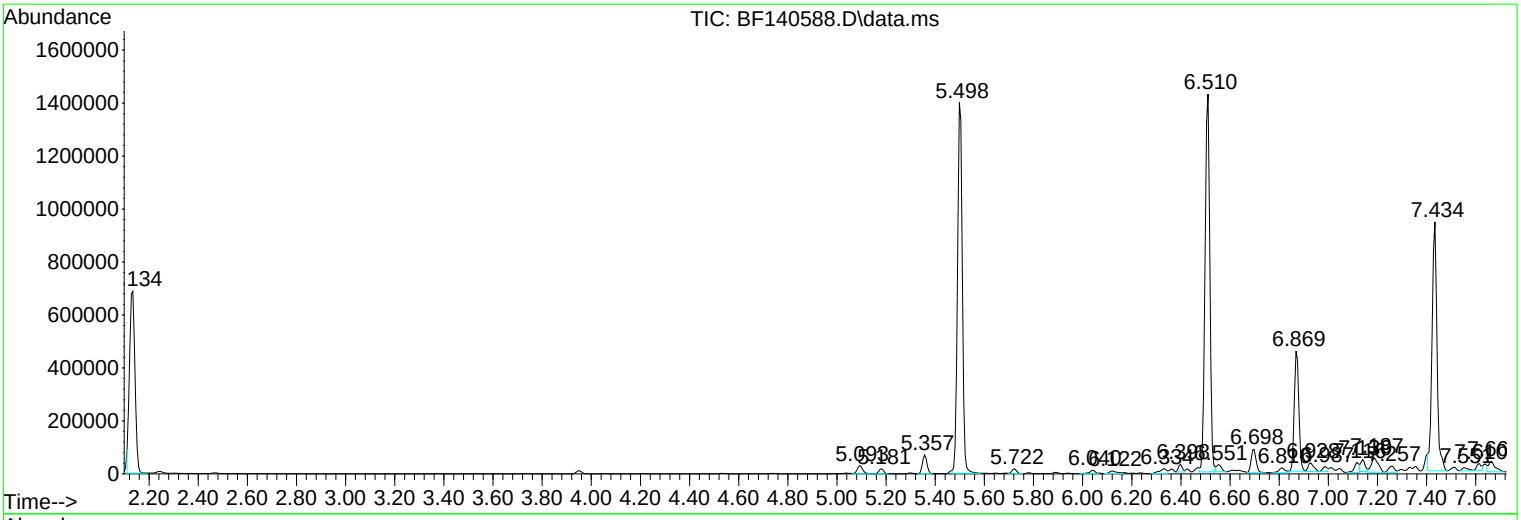
Sum of corrected areas: 26029300

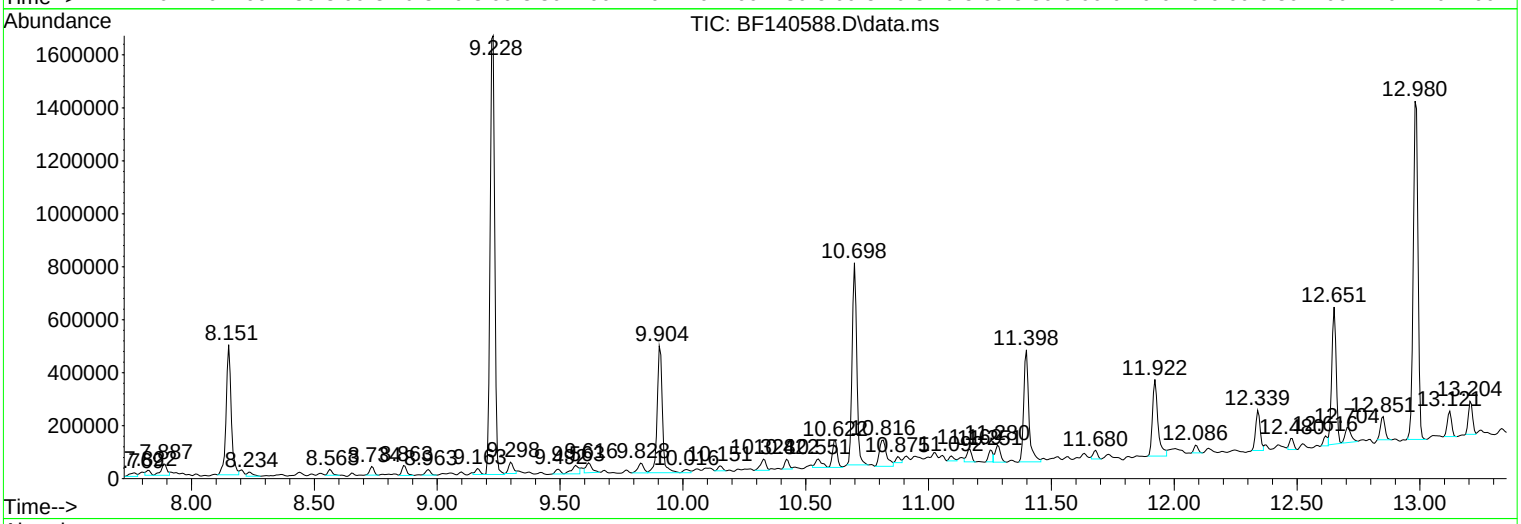
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

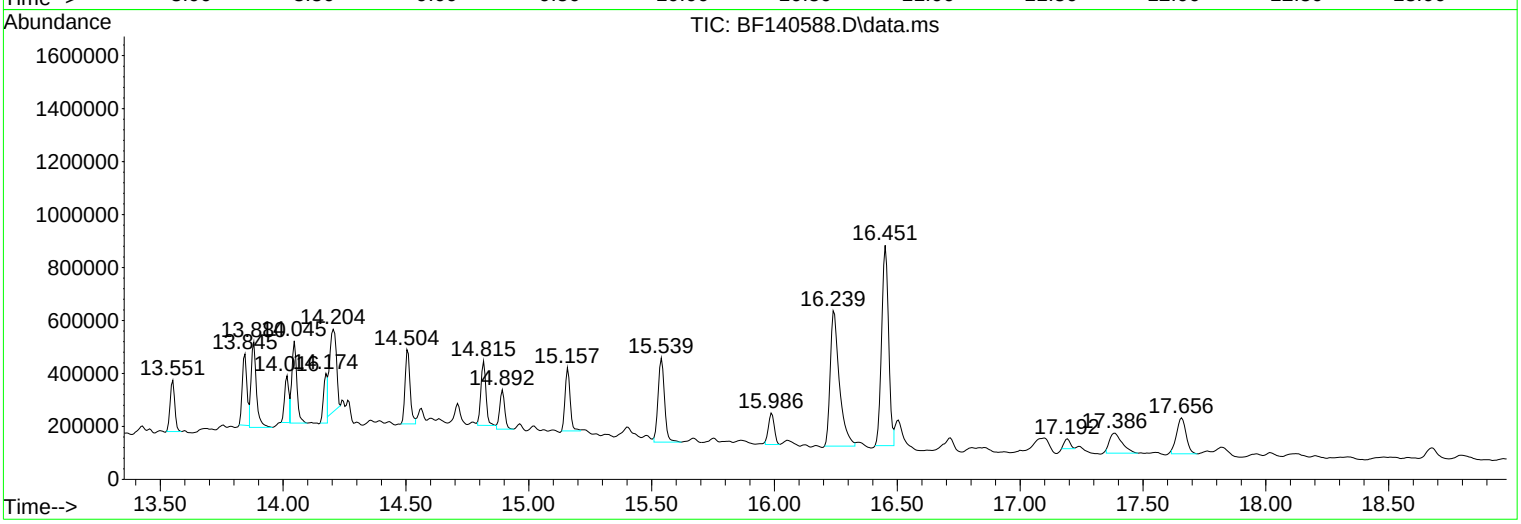
**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

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\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

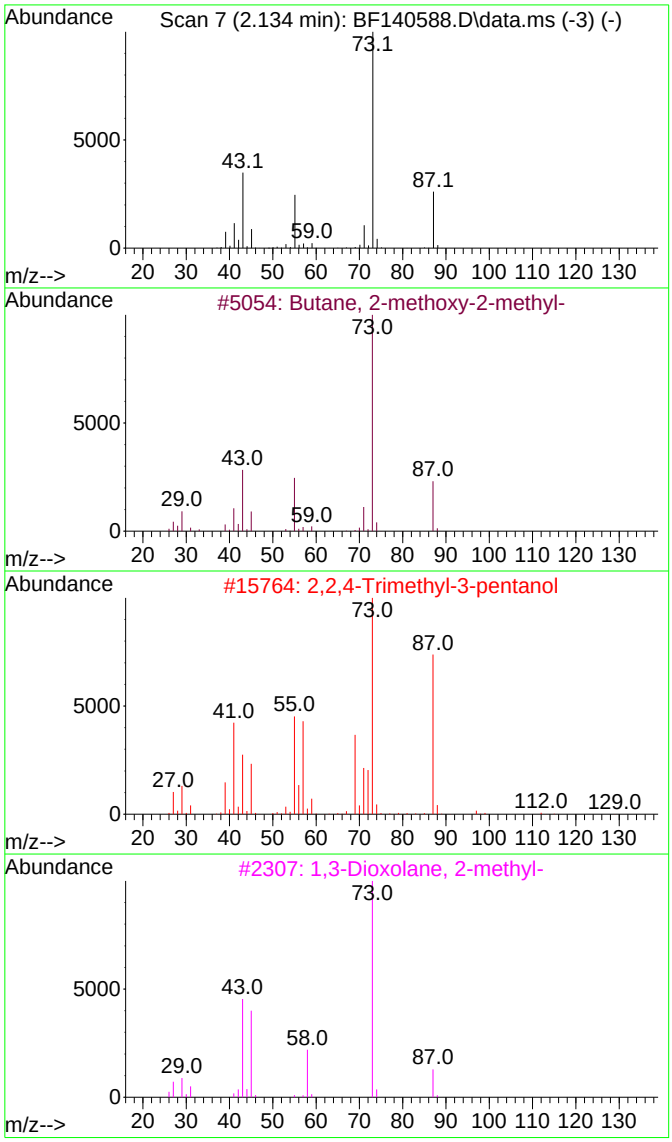
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

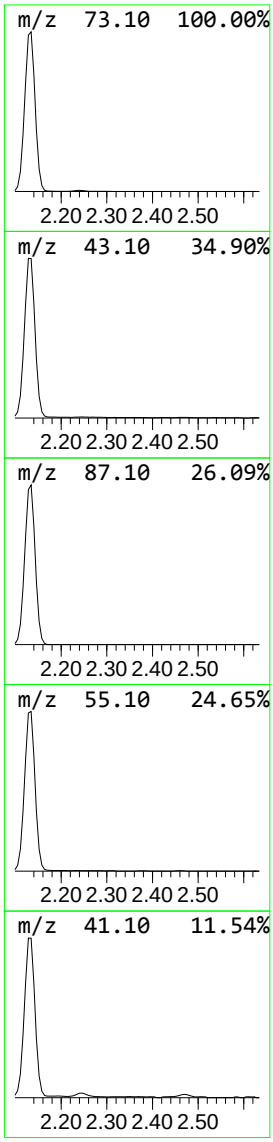
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.134 | 35.92 ng | 1055280 | 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 | 39 |
| 3 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 25 |
| 4 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 23 |
| 5 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 17 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

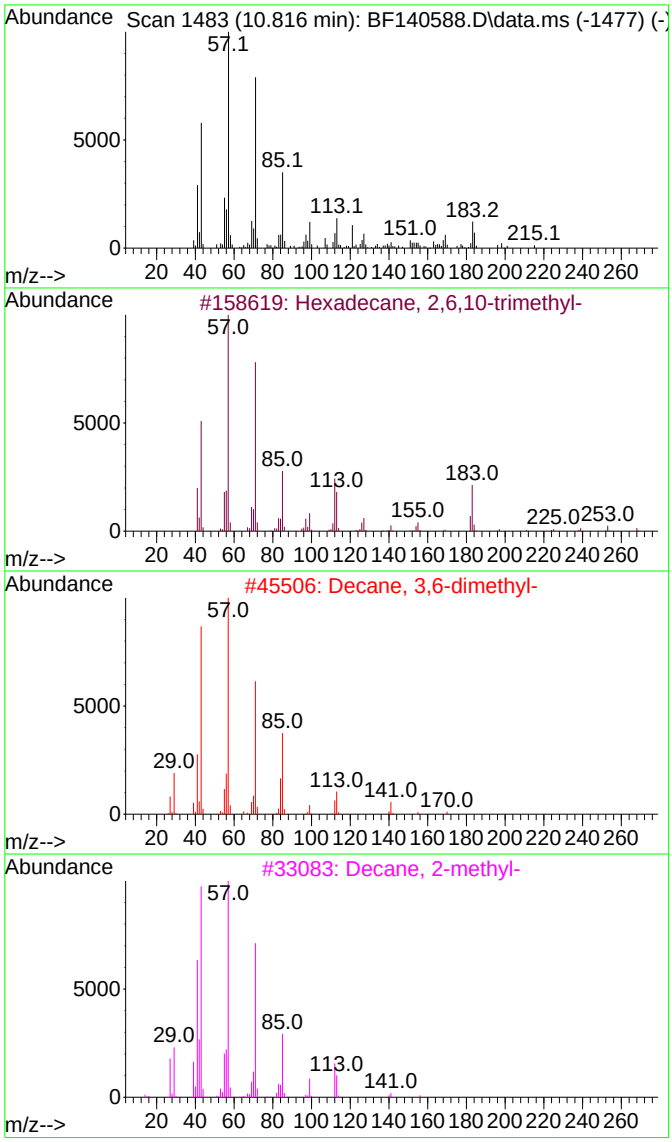
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

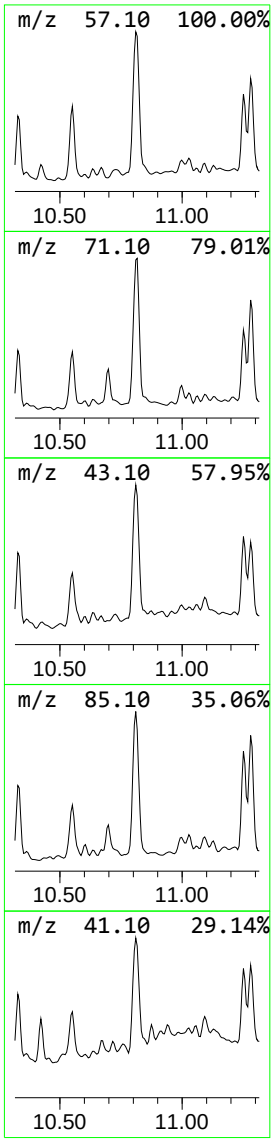
**********

Peak Number 2 Hexadecane, 2,6,10-trimethyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.816 | 6.70 ng | 205213 | Phenanthrene-d10 | 11.398 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane, 2,6,10-trimethyl- | 268 | C19H40 | 055000-52-7 | 86 |
| 2 | Decane, 3,6-dimethyl- | 170 | C12H26 | 017312-53-7 | 81 |
| 3 | Decane, 2-methyl- | 156 | C11H24 | 006975-98-0 | 74 |
| 4 | Heptacosane | 380 | C27H56 | 000593-49-7 | 74 |
| 5 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 72 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

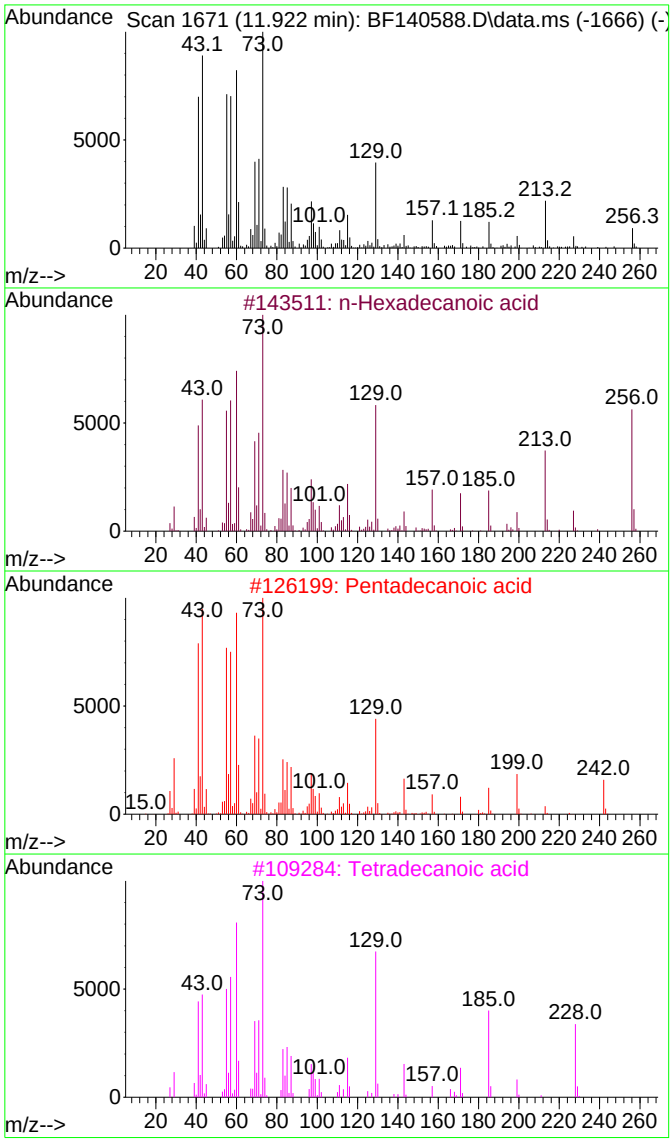
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

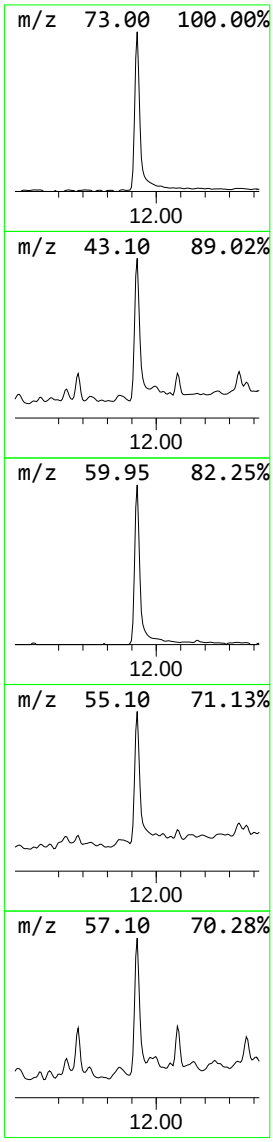
**********

Peak Number 3 n-Hexadecanoic acid Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.922 | 14.66 ng | 448778 | 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 | 93 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 91 |
| 4 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 86 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 68 |



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Acq On    : 22 Nov 2024  19:53
Operator  : RC/JU
Sample    : P4860-02
Misc      :
ALS Vial  : 26   Sample Multiplier: 1

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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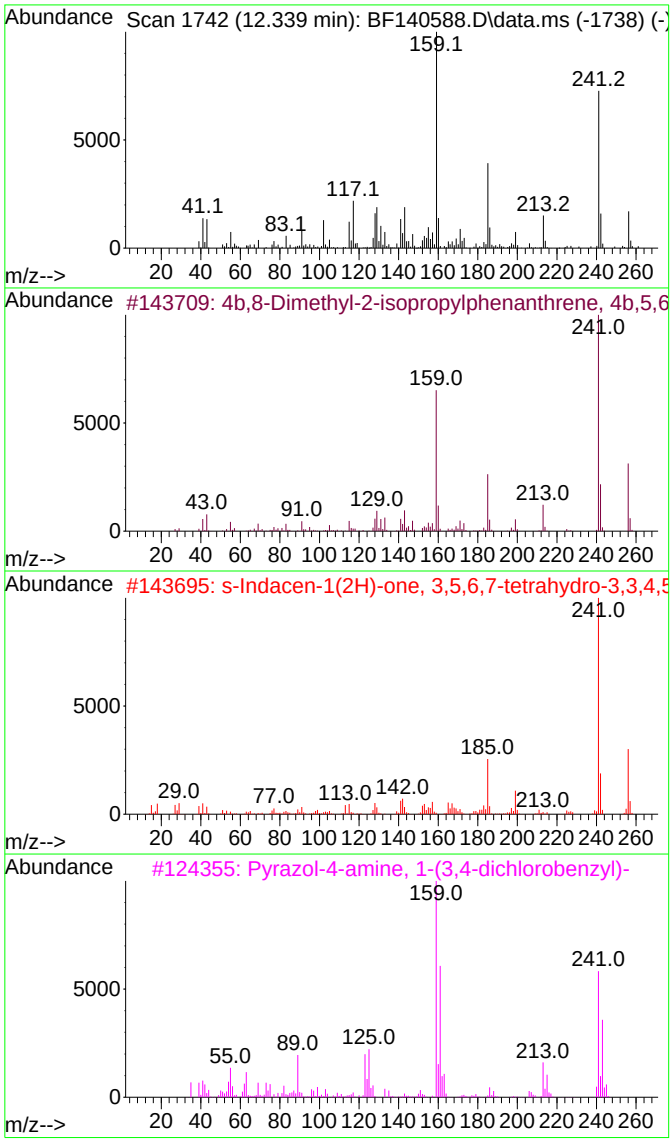
**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

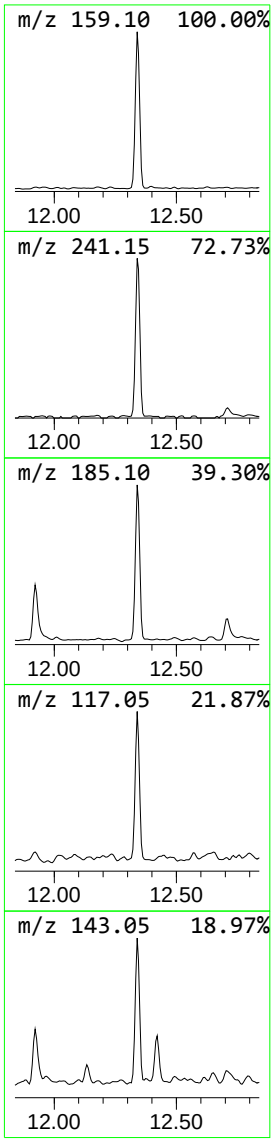
**********

Peak Number 4 4b,8-Dimethyl-2-isopropylph... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.339 | 6.44 ng | 197100 | Phenanthrene-d10 | 11.398 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4b,8-Dimethyl-2-isopropylphenant... | 256 | C19H28 | 1000197-14-1 | 97 |
| 2 | s-Indacen-1(2H)-one, 3,5,6,7-tet... | 256 | C18H24O | 038754-94-8 | 68 |
| 3 | Pyrazol-4-amine, 1-(3,4-dichloro... | 241 | C10H9Cl2N3 | 1000273-77-4 | 52 |
| 4 | Isoxazole, 5-methyl-4-phenyl- | 159 | C10H9NO | 023253-49-8 | 38 |
| 5 | 2-(4-(2-Methylallyl)phenyl)propa... | 203 | C13H17NO | 1000466-10-0 | 35 |



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Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

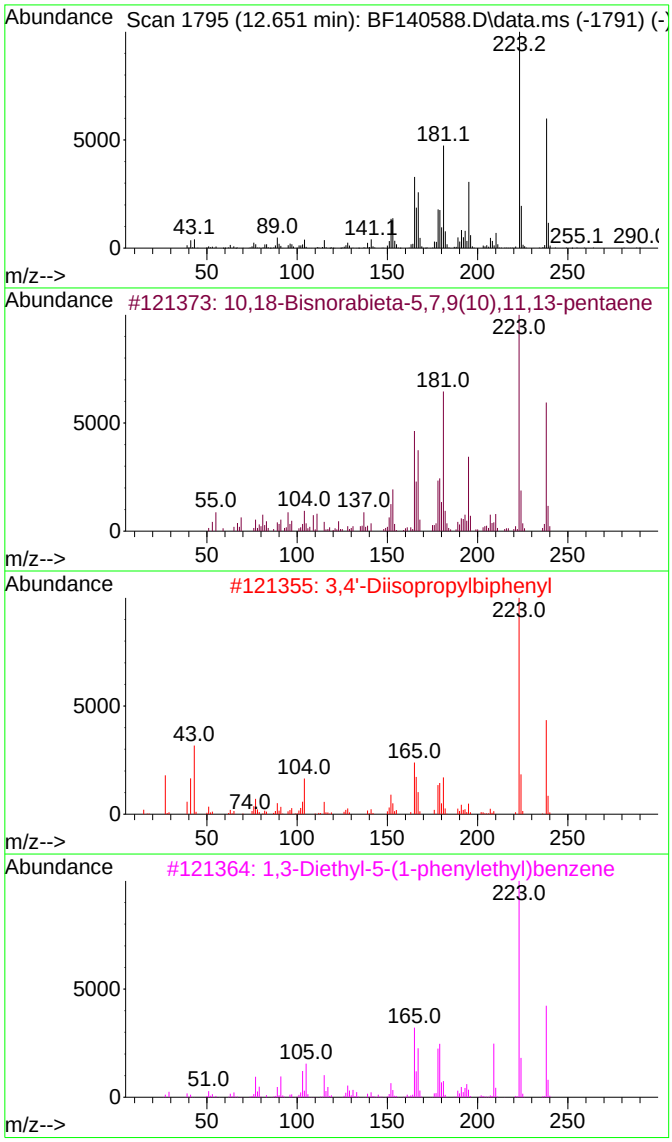
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

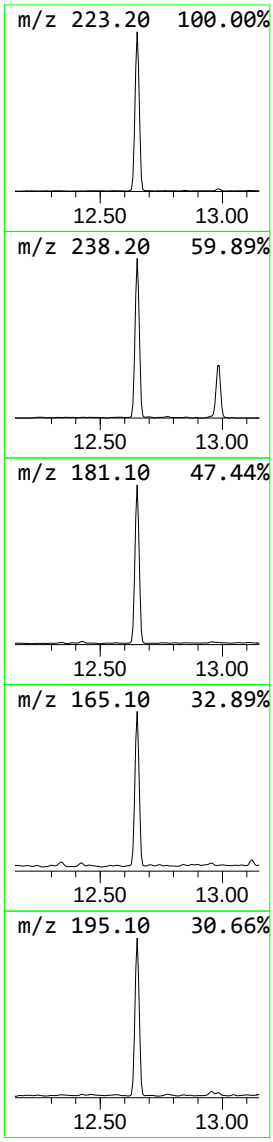
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.651 | 21.23 ng | 649806 | Phenanthrene-d10 | 11.398 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10,18-Bisnorabieta-5,7,9(10),11,... | 238 | C18H22 | 006566-19-4 | 99 |
| 2 | 3,4'-Diisopropylbiphenyl | 238 | C18H22 | 061434-46-6 | 89 |
| 3 | 1,3-Diethyl-5-(1-phenylethyl)ben... | 238 | C18H22 | 1000482-32-6 | 76 |
| 4 | Anthracene, 1,4-dimethoxy- | 238 | C16H14O2 | 013076-29-4 | 62 |
| 5 | 4,4'-Diisopropylbiphenyl | 238 | C18H22 | 018970-30-4 | 53 |



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Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

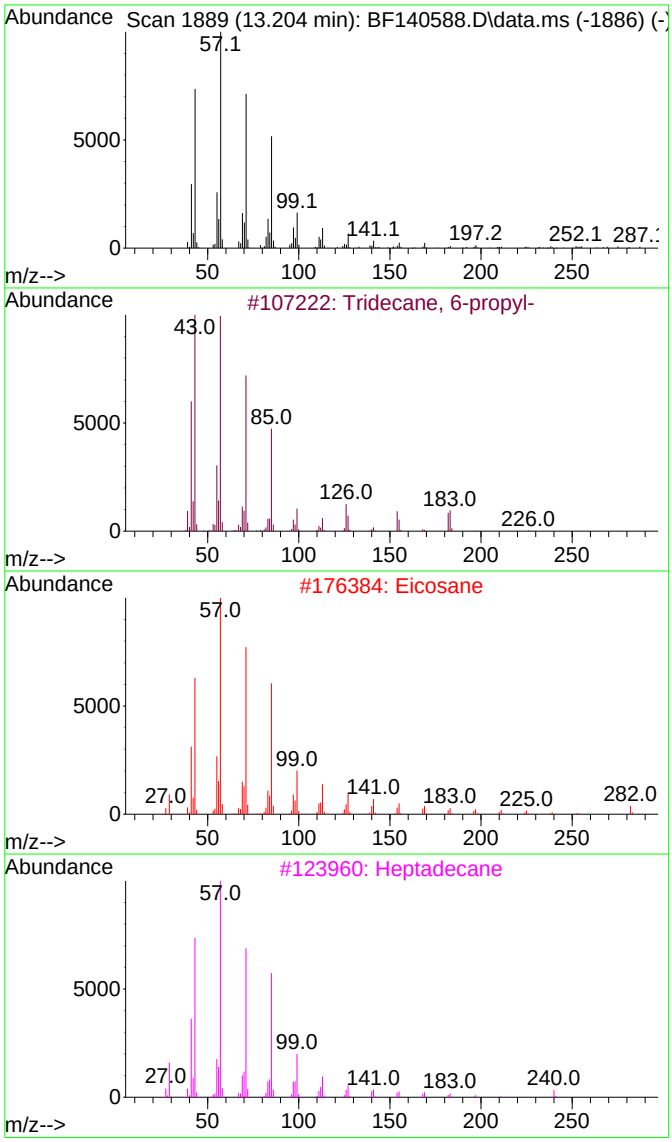
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

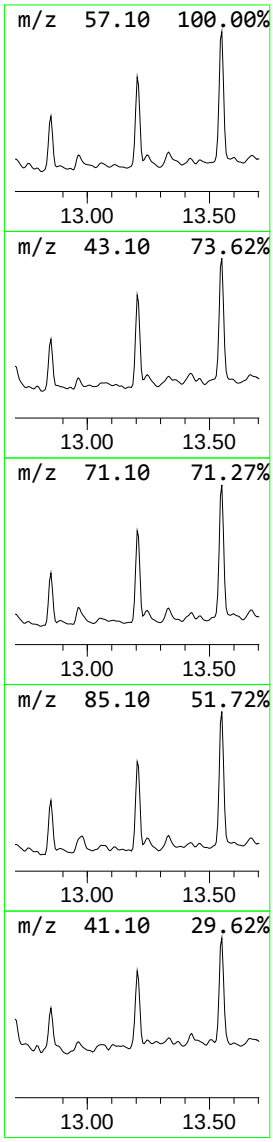
**********

Peak Number 6 Tridecane, 6-propyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.204 | 6.97 ng | 147759 | Chrysene-d12 | 14.045 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane, 6-propyl- | 226 | C16H34 | 055045-10-8 | 91 |
| 2 | Eicosane | 282 | C20H42 | 000112-95-8 | 91 |
| 3 | Heptadecane | 240 | C17H36 | 000629-78-7 | 91 |
| 4 | Octadecane | 254 | C18H38 | 000593-45-3 | 91 |
| 5 | Octacosane | 394 | C28H58 | 000630-02-4 | 91 |



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Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

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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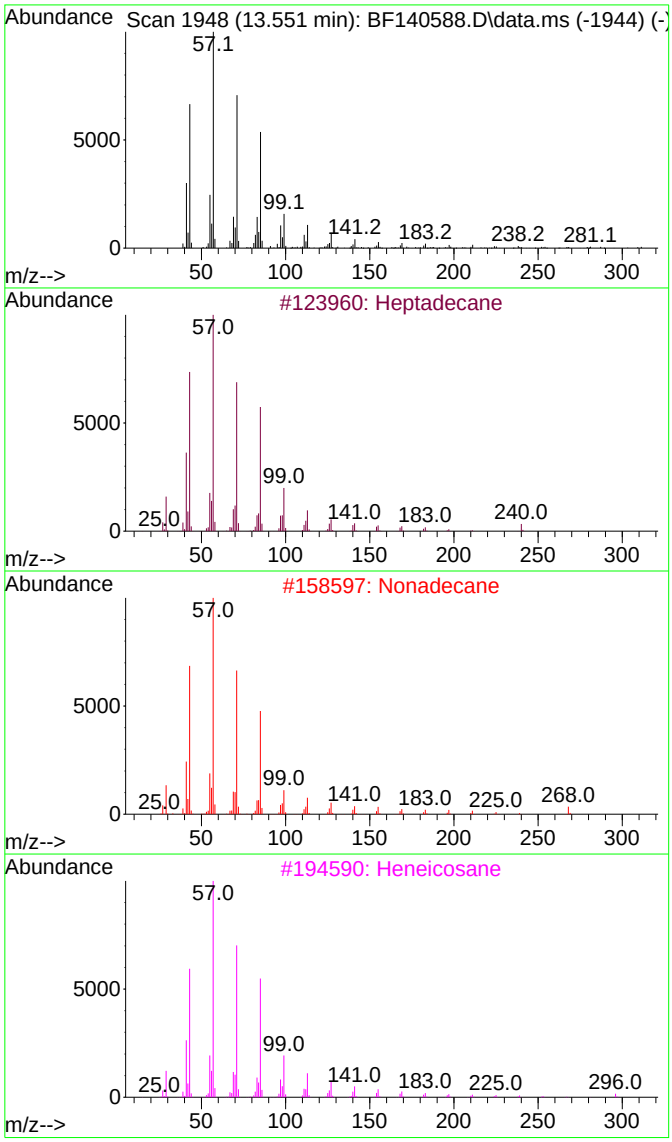
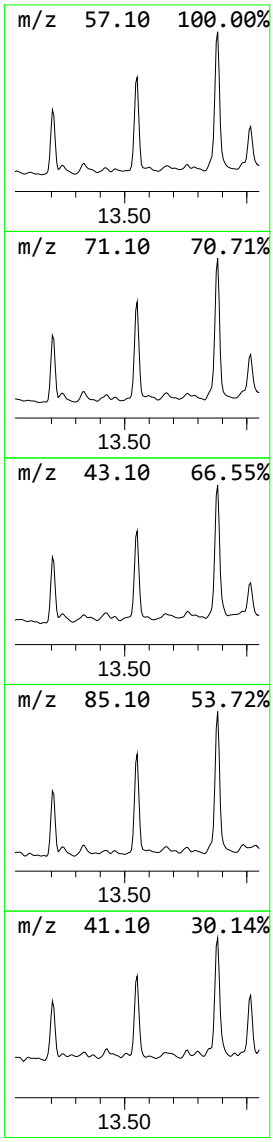
Peak Number 7 Heptadecane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.551 | 11.96 ng | 253581 | Chrysene-d12 | 14.045 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 97 |
| 2 | Nonadecane | 268 | C19H40 | 000629-92-5 | 94 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 4 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |
| 5 | Docosane, 1-iodo- | 436 | C22H45I | 1000406-31-9 | 91 |



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Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

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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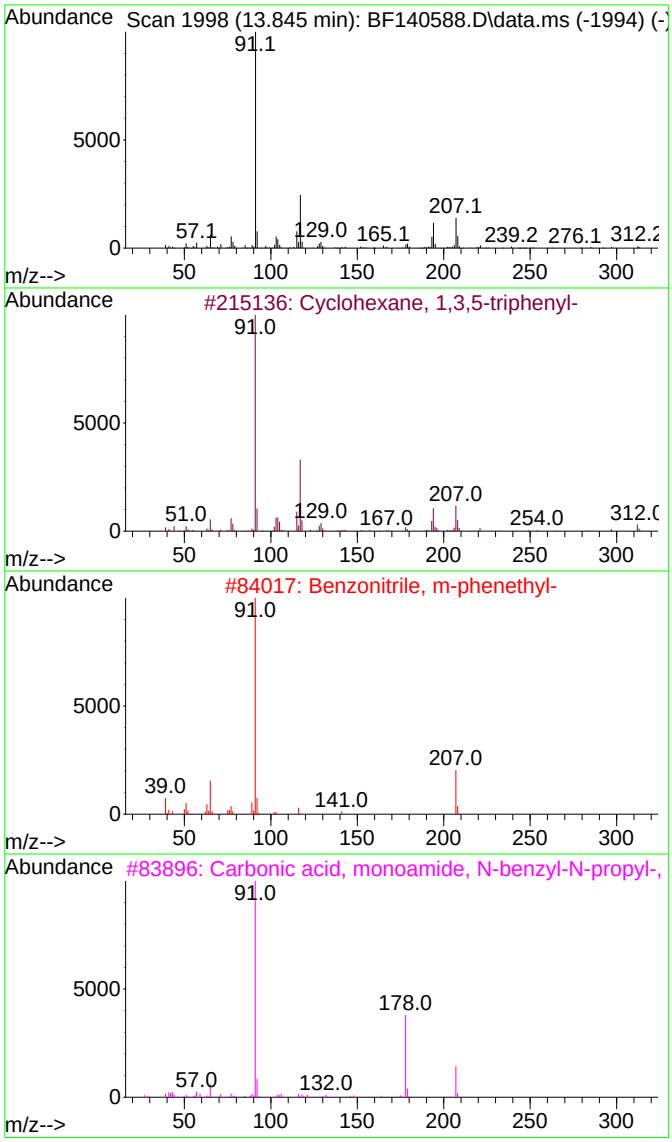
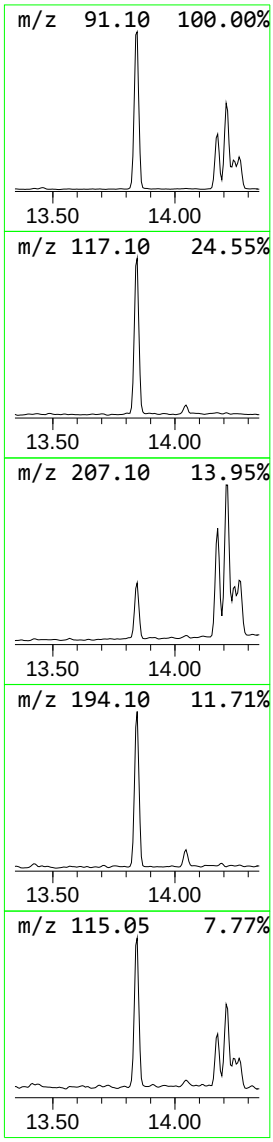
Peak Number 8 Cyclohexane, 1,3,5-triphenyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.845 | 17.49 ng | 370638 | Chrysene-d12 | 14.045 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,3,5-triphenyl- | 312 | C24H24 | 028336-57-4 | 83 |
| 2 | Benzonitrile, m-phenethyl- | 207 | C15H13N | 034176-91-5 | 25 |
| 3 | Carbonic acid, monoamide, N-benz... | 207 | C12H17NO2 | 1000451-48-5 | 16 |
| 4 | (R)-(1-Cyclopentylpropane-1,3-di... | 264 | C20H24 | 1402851-74-4 | 16 |
| 5 | Isoxazole, 5-chloro-4-(2-phenyle... | 207 | C11H10ClNO | 1000362-09-0 | 16 |



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Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

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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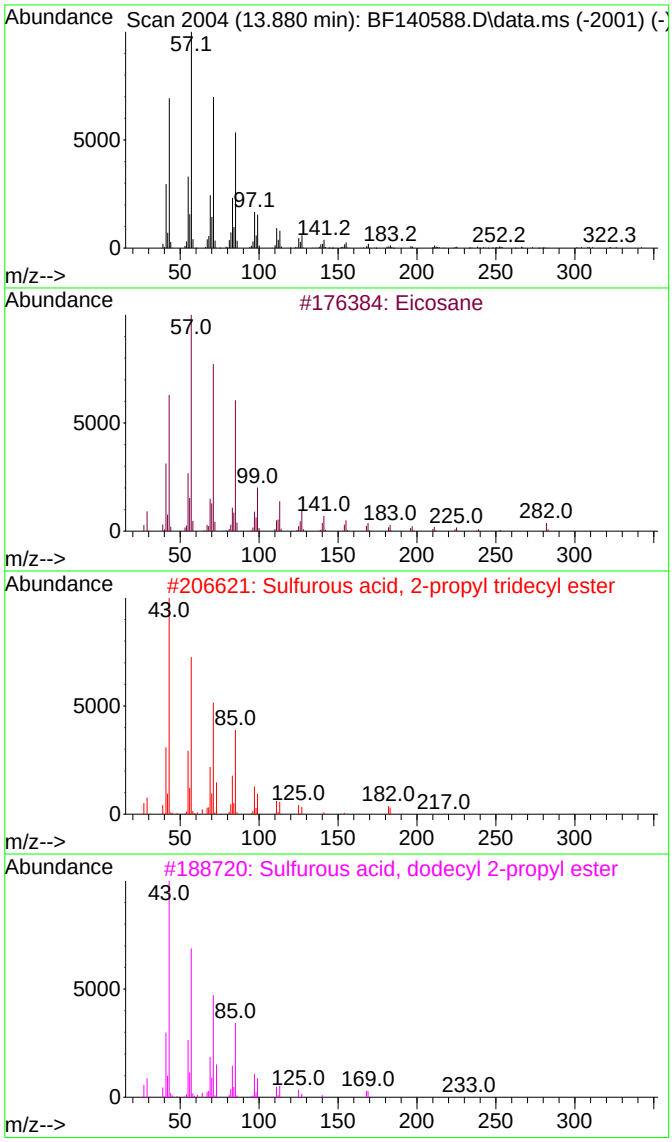
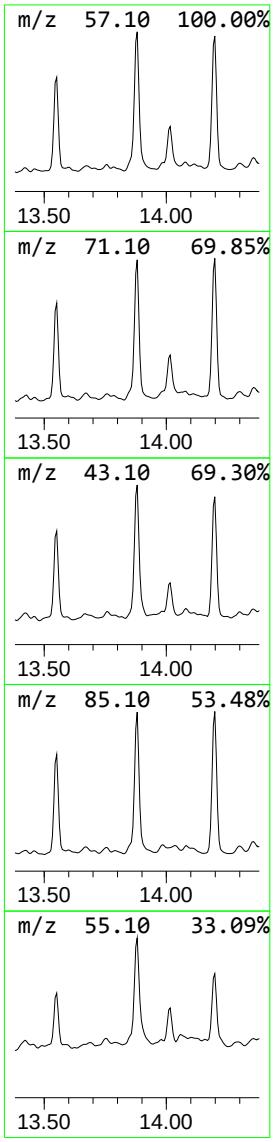
Peak Number 9 Eicosane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.880 | 21.86 ng | 463409 | Chrysene-d12 | 14.045 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 97 |
| 2 | Sulfurous acid, 2-propyl tridecy... | 306 | C16H34O3S | 1000309-12-4 | 91 |
| 3 | Sulfurous acid, dodecyl 2-propyl... | 292 | C15H32O3S | 1000309-12-3 | 91 |
| 4 | Hexacosane | 366 | C26H54 | 000630-01-3 | 87 |
| 5 | Carbonic acid, tetradecyl vinyl ... | 284 | C17H32O3 | 1000382-54-5 | 87 |



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Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

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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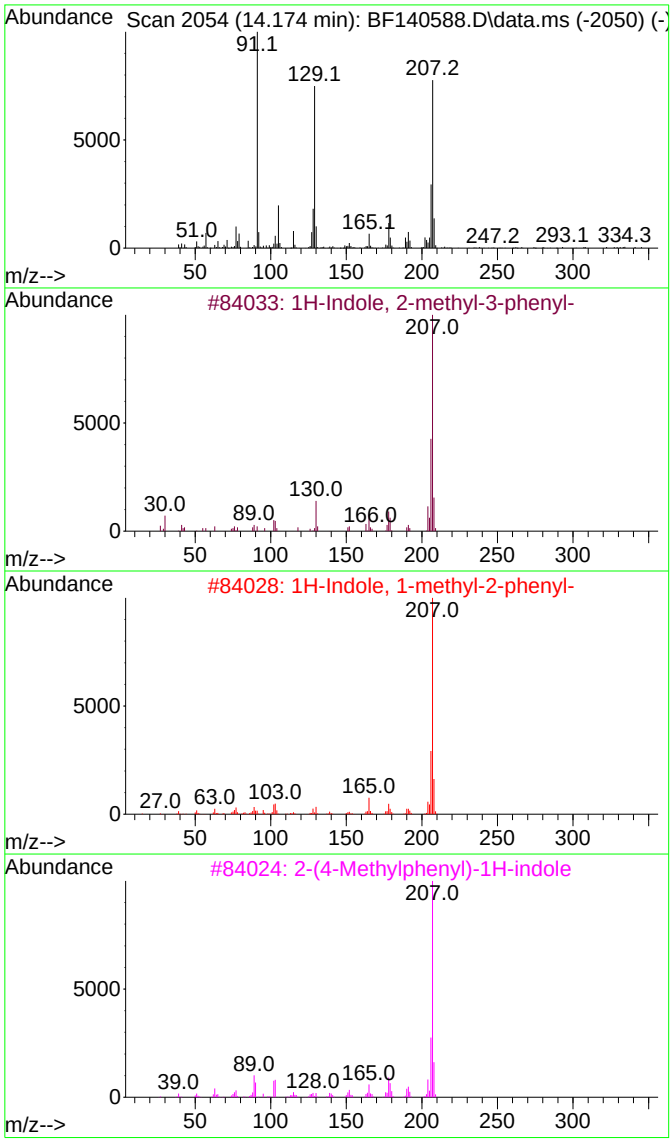
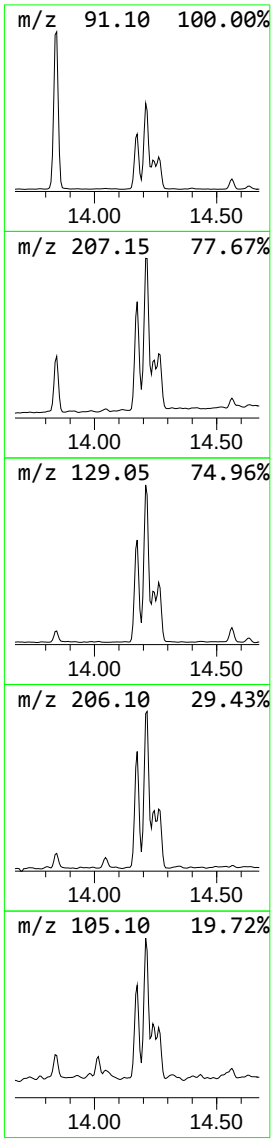
Peak Number 10 1H-Indole, 2-methyl-3-phenyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.174 | 10.41 ng | 220706 | Chrysene-d12 | 14.045 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indole, 2-methyl-3-phenyl- | 207 | C15H13N | 004757-69-1 | 50 |
| 2 | 1H-Indole, 1-methyl-2-phenyl- | 207 | C15H13N | 003558-24-5 | 46 |
| 3 | 2-(4-Methylphenyl)-1H-indole | 207 | C15H13N | 055577-25-8 | 46 |
| 4 | 7-Methyl -2-phenyl-1H-indole | 207 | C15H13N | 059541-82-1 | 43 |
| 5 | 5-Methyl-2-phenylindolizine | 207 | C15H13N | 036944-99-7 | 38 |



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Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

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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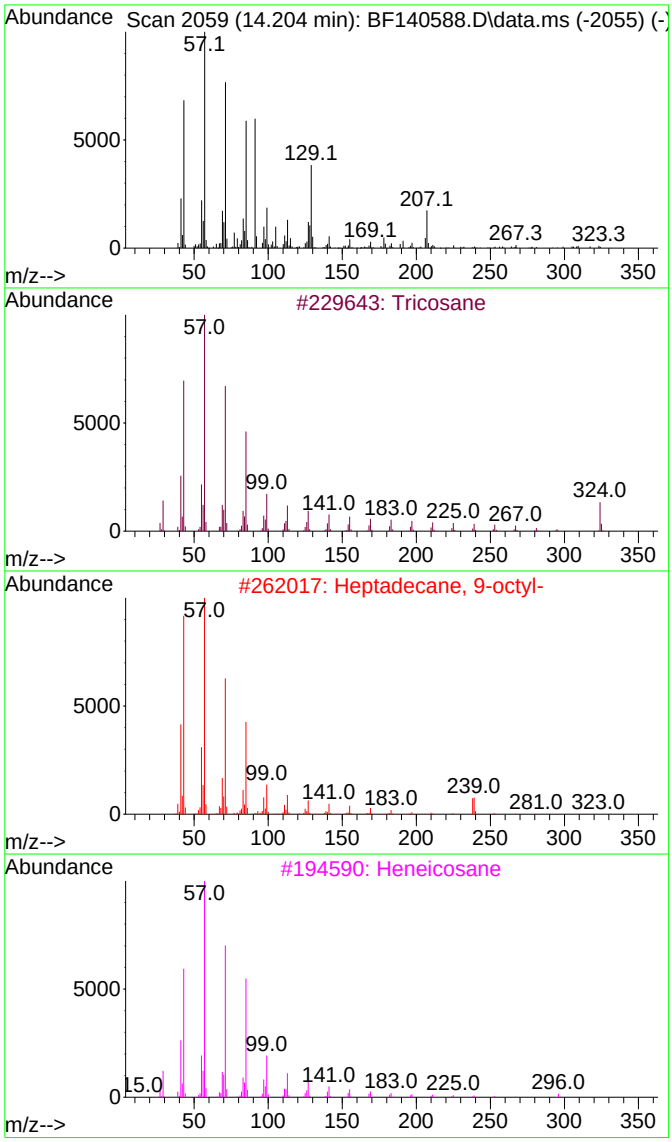
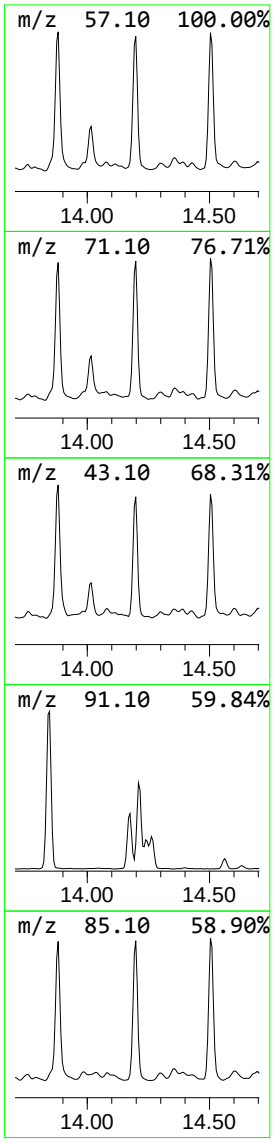
Peak Number 11 Tricosane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.204 | 27.59 ng | 584893 | Chrysene-d12 | 14.045 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tricosane | 324 | C23H48 | 000638-67-5 | 91 |
| 2 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 70 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 70 |
| 4 | Hexacosane | 366 | C26H54 | 000630-01-3 | 64 |
| 5 | Eicosane, 1-iodo- | 408 | C20H41I | 1000406-31-8 | 62 |



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Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

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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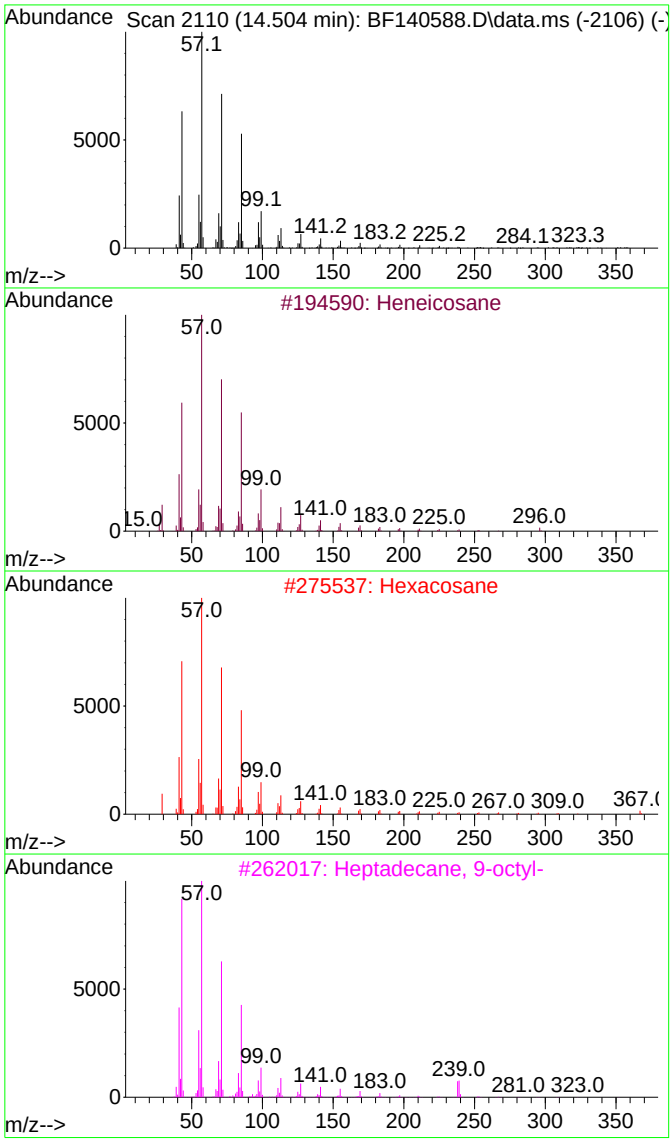
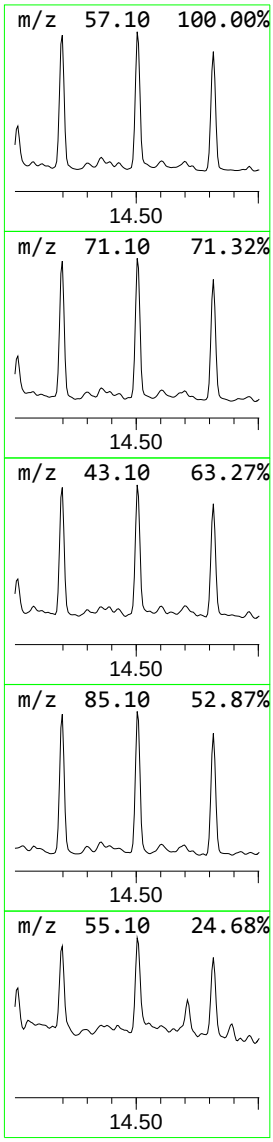
Peak Number 12 Heneicosane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.504 | 18.89 ng | 400426 | Chrysene-d12 | 14.045 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |
| 3 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 91 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 91 |
| 5 | Docosane, 11-butyl- | 366 | C26H54 | 013475-76-8 | 91 |



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Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

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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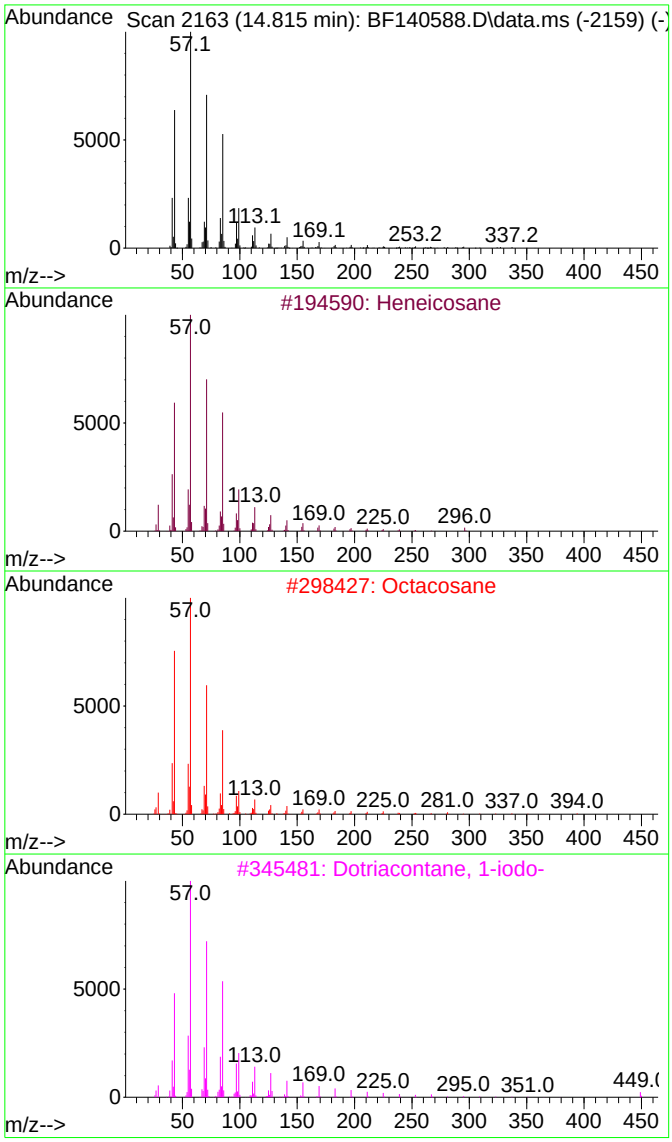
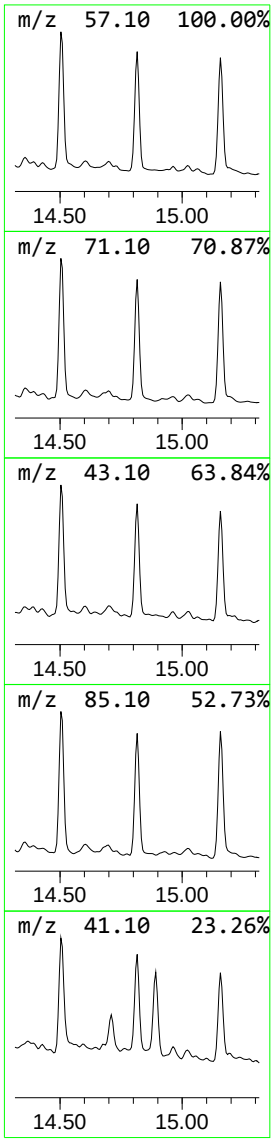
Peak Number 13 Octacosane Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.816 | 11.88 ng | 334725 | Perylene-d12 | 15.533 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 2 | Octacosane | 394 | C28H58 | 000630-02-4 | 91 |
| 3 | Dotriacontane, 1-iodo- | 576 | C32H65I | 1000406-32-4 | 91 |
| 4 | Octacosane, 2-methyl- | 408 | C29H60 | 001560-98-1 | 91 |
| 5 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |



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Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

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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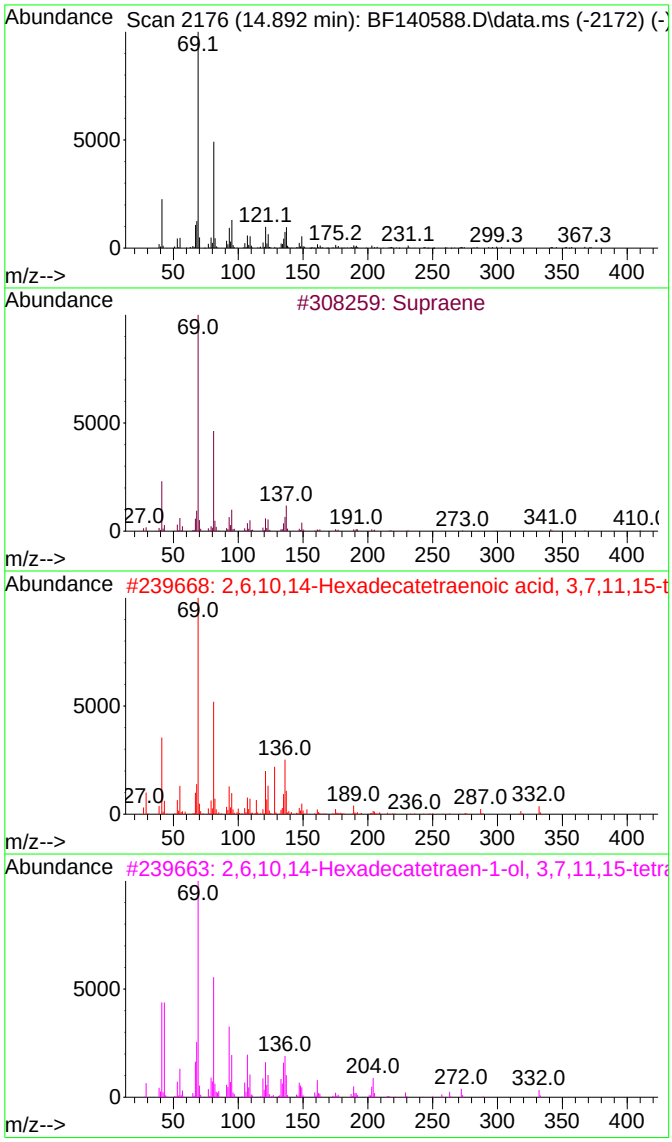
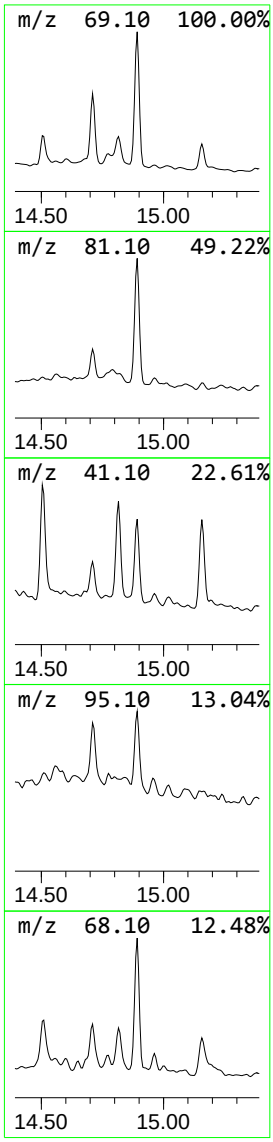
Peak Number 14 Supraene Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.892 | 7.39 ng | 208058 | Perylene-d12 | 15.533 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Supraene | 410 | C30H50 | 007683-64-9 | 91 |
| 2 | 2,6,10,14-Hexadecatetraenoic aci... | 332 | C22H36O2 | 024035-35-6 | 78 |
| 3 | 2,6,10,14-Hexadecatetraen-1-ol, ... | 332 | C22H36O2 | 061691-98-3 | 72 |
| 4 | 7,11-Dimethyldodeca-2,6,10-trien... | 208 | C14H24O | 125529-10-4 | 72 |
| 5 | 2,6,10-Dodecatrien-1-ol, 3,7,11-... | 222 | C15H26O | 004602-84-0 | 64 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

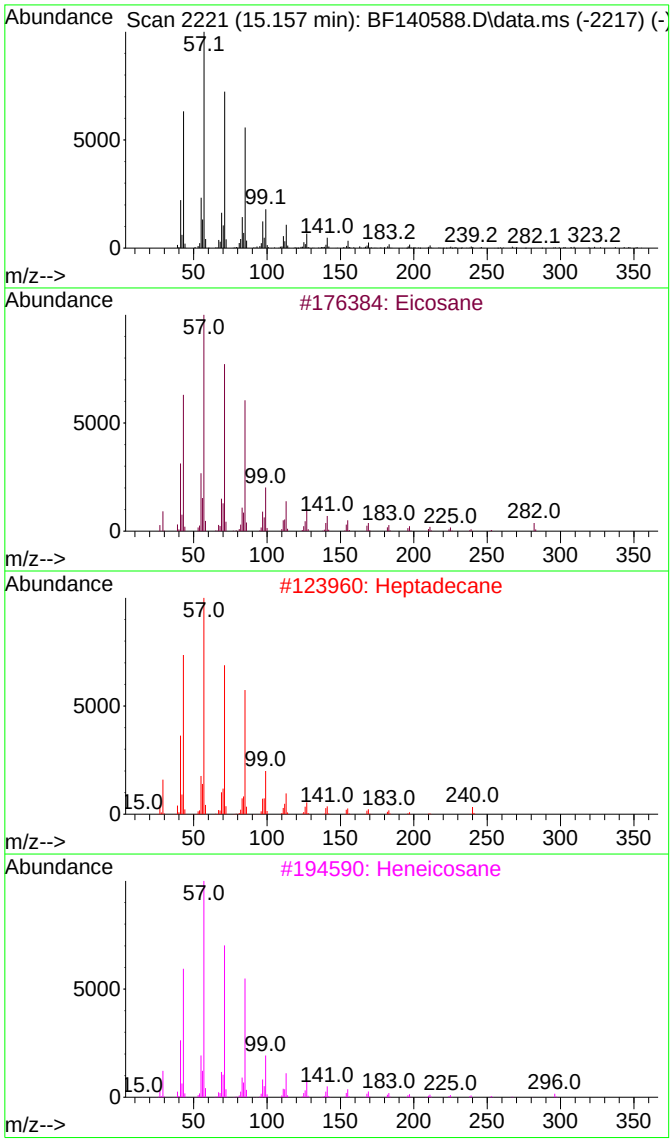
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

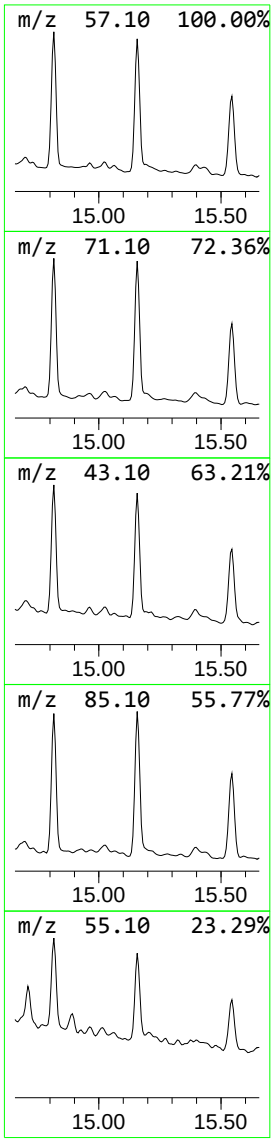
**********

Peak Number 15 Heneicosane, 11-(1-ethylpro... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.157 | 12.12 ng | 341342 | Perylene-d12 | 15.533 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 94 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 94 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 4 | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54 | 055282-11-6 | 91 |
| 5 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

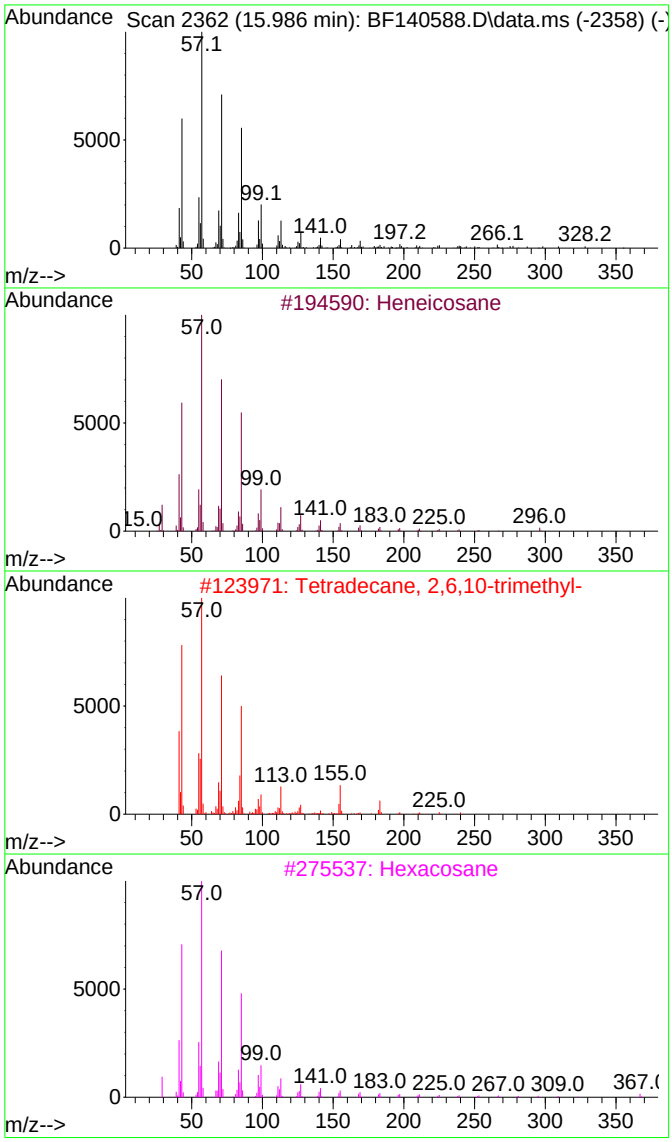
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

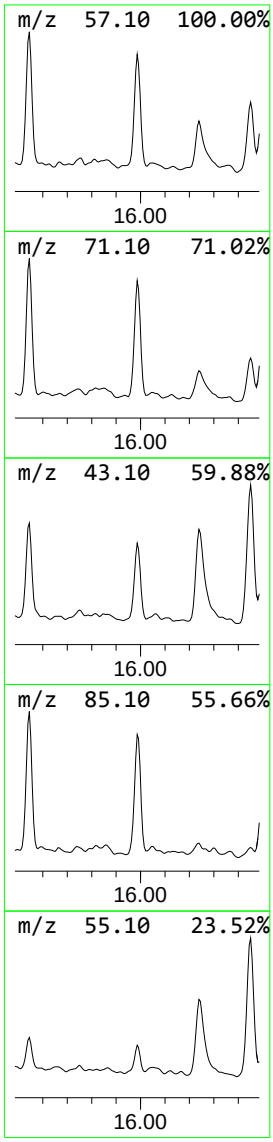
**********

Peak Number 16 Tetradecane, 2,6,10-trimethyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.986 | 6.90 ng | 194460 | Perylene-d12 | 15.533 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 2 | Tetradecane, 2,6,10-trimethyl- | 240 | C17H36 | 014905-56-7 | 90 |
| 3 | Hexacosane | 366 | C26H54 | 000630-01-3 | 87 |
| 4 | Eicosane, 1-iodo- | 408 | C20H41I | 1000406-31-8 | 87 |
| 5 | Docosane, 1-iodo- | 436 | C22H45I | 1000406-31-9 | 87 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

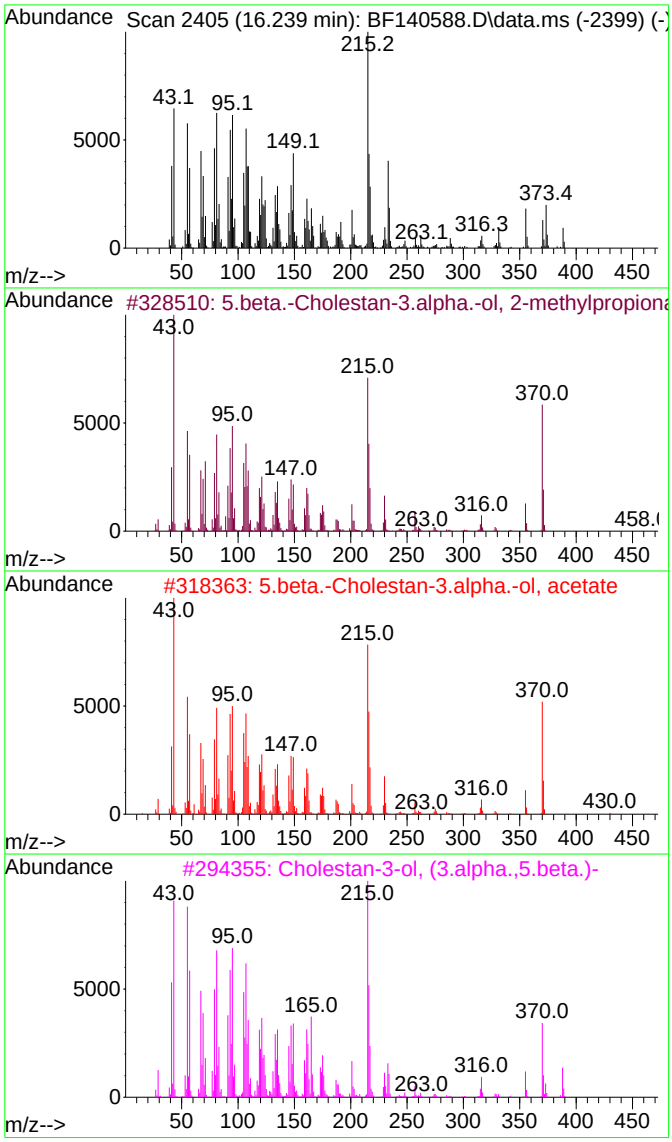
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

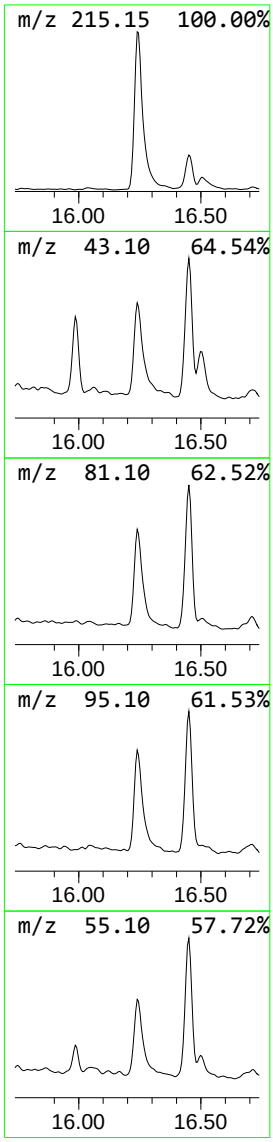
**********

Peak Number 17 5.beta.-Cholestan-3.alpha.-... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.239 | 46.57 ng | 1311580 | Perylene-d12 | 15.533 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5.beta.-Cholestan-3.alpha.-ol, 2... | 458 | C31H54O2 | 1000514-95-7 | 70 |
| 2 | 5.beta.-Cholestan-3.alpha.-ol, a... | 430 | C29H50O2 | 033157-47-0 | 58 |
| 3 | Cholestan-3-ol, (3.alpha.,5.beta.)- | 388 | C27H48O | 000516-92-7 | 53 |
| 4 | Cholestan-3-ol | 388 | C27H48O | 027409-41-2 | 47 |
| 5 | Cholestanol | 388 | C27H48O | 000080-97-7 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

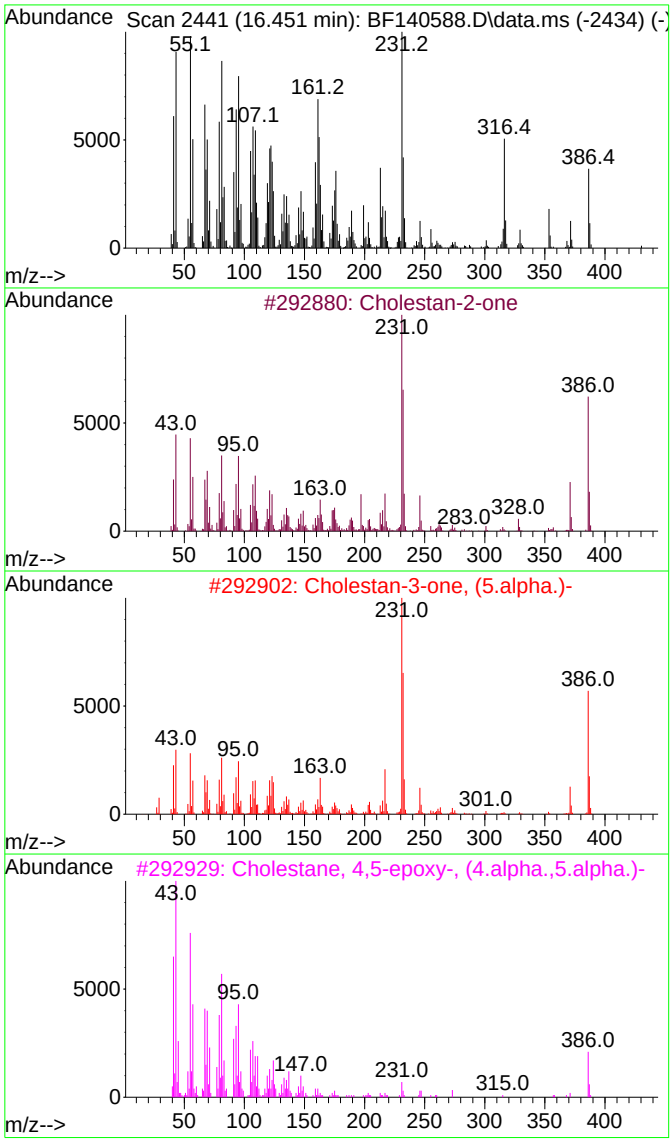
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

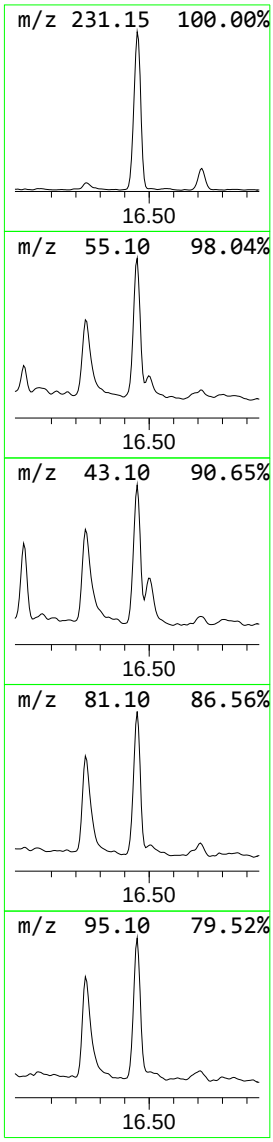
**********

Peak Number 18 Cholestan-2-one Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.451 | 52.55 ng | 1480220 | Perylene-d12 | 15.533 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cholestan-2-one | 386 | C27H46O | 1010210-43-4 | 95 |
| 2 | Cholestan-3-one, (5.alpha.)- | 386 | C27H46O | 000566-88-1 | 59 |
| 3 | Cholestane, 4,5-epoxy-, (4.alpha... | 386 | C27H46O | 006079-19-2 | 53 |
| 4 | Cholestan-3-one | 386 | C27H46O | 015600-08-5 | 51 |
| 5 | 5.beta.-Cholan-24-oic acid, 3-oxo- | 374 | C24H38O3 | 001553-56-6 | 49 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

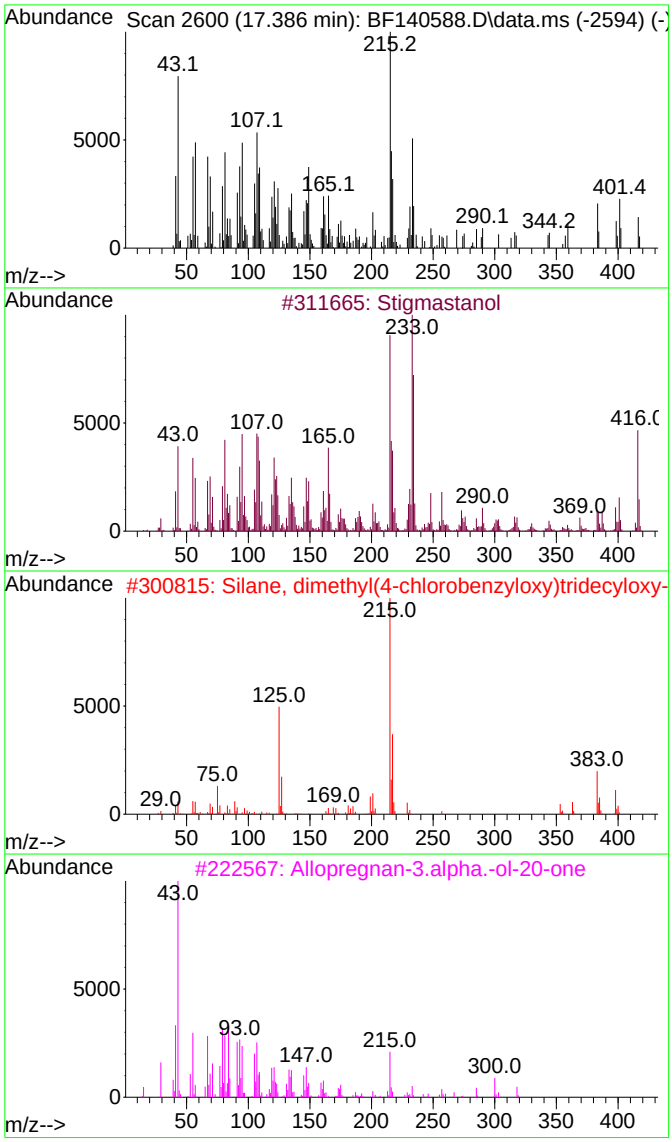
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

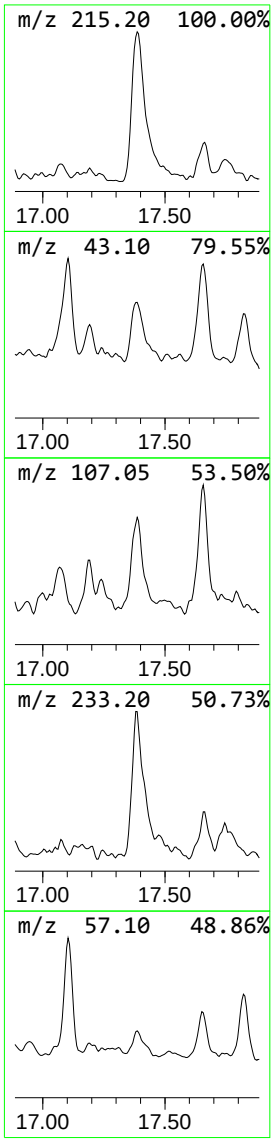
**********

Peak Number 19 Stigmastanol Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.386 | 9.39 ng | 264528 | Perylene-d12 | 15.533 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Stigmastanol | 416 | C29H52O | 019466-47-8 | 55 |
| 2 | Silane, dimethyl(4-chlorobenzylo... | 398 | C22H39ClO2Si | 1010347-00-1 | 38 |
| 3 | Allopregnan-3.alpha.-ol-20-one | 318 | C21H34O2 | 000516-54-1 | 25 |
| 4 | 11-Azatricyclo[6.2.1.0(2,7)]unde... | 215 | C13H13NO2 | 1000306-00-6 | 22 |
| 5 | Pyridin-3-ol, 2-(4-nitrophenyl)- | 216 | C11H8N2O3 | 030820-89-4 | 22 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

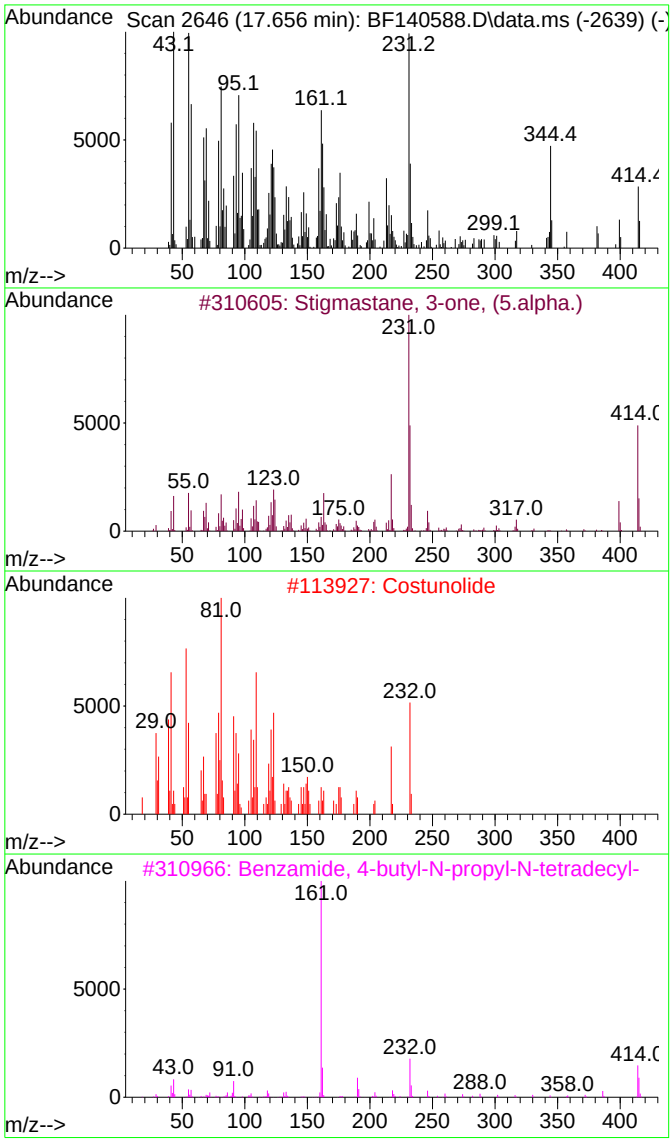
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

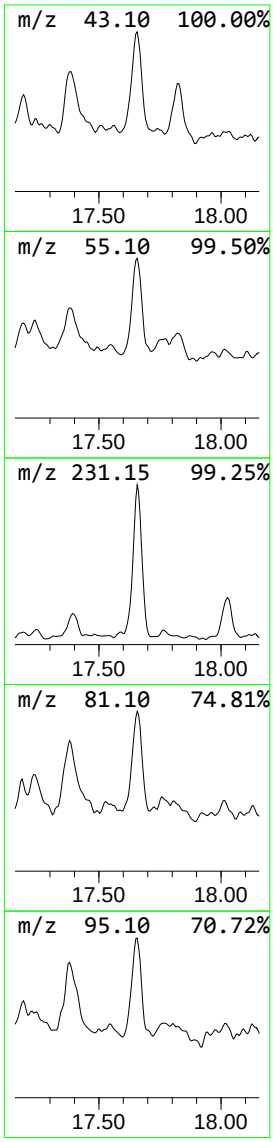
**********

Peak Number 20 unknown17.657 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.657 | 12.91 ng | 363478 | Perylene-d12 | 15.533 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Stigmastane, 3-one, (5.alpha.) | 414 | C29H50O | 1000437-00-8 | 45 |
| 2 | Costunolide | 232 | C15H20O2 | 000553-21-9 | 44 |
| 3 | Benzamide, 4-butyl-N-propyl-N-te... | 415 | C28H49NO | 1000438-15-5 | 35 |
| 4 | 5-Methoxyquinolin-8-amine, TMS | 246 | C13H18N2OSi | 1000514-59-5 | 25 |
| 5 | Benzamide, 4-tert-butyl-N-propyl... | 415 | C28H49NO | 1000438-64-6 | 25 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-001

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... | 2.134 | 35.9 | ng | 1055280 | 1 | 6.869 | 587590 | 20.0 |
| Hexadecane, 2,6... | 10.816 | 6.7 | ng | 205213 | 4 | 11.398 | 612268 | 20.0 |
| n-Hexadecanoic ... | 11.922 | 14.7 | ng | 448778 | 4 | 11.398 | 612268 | 20.0 |
| 4b,8-Dimethyl-2... | 12.339 | 6.4 | ng | 197100 | 4 | 11.398 | 612268 | 20.0 |
| 10,18-Bisnorabi... | 12.651 | 21.2 | ng | 649806 | 4 | 11.398 | 612268 | 20.0 |
| Tridecane, 6-pr... | 13.204 | 7.0 | ng | 147759 | 5 | 14.045 | 423942 | 20.0 |
| Heptadecane | 13.551 | 12.0 | ng | 253581 | 5 | 14.045 | 423942 | 20.0 |
| Cyclohexane, 1,... | 13.845 | 17.5 | ng | 370638 | 5 | 14.045 | 423942 | 20.0 |
| Eicosane | 13.880 | 21.9 | ng | 463409 | 5 | 14.045 | 423942 | 20.0 |
| 1H-Indole, 2-me... | 14.174 | 10.4 | ng | 220706 | 5 | 14.045 | 423942 | 20.0 |
| Tricosane | 14.204 | 27.6 | ng | 584893 | 5 | 14.045 | 423942 | 20.0 |
| Heneicosane | 14.504 | 18.9 | ng | 400426 | 5 | 14.045 | 423942 | 20.0 |
| Octacosane | 14.816 | 11.9 | ng | 334725 | 6 | 15.533 | 563306 | 20.0 |
| Supraene | 14.892 | 7.4 | ng | 208058 | 6 | 15.533 | 563306 | 20.0 |
| Heneicosane, 11... | 15.157 | 12.1 | ng | 341342 | 6 | 15.533 | 563306 | 20.0 |
| Tetradecane, 2,... | 15.986 | 6.9 | ng | 194460 | 6 | 15.533 | 563306 | 20.0 |
| 5.beta.-Cholest... | 16.239 | 46.6 | ng | 1311580 | 6 | 15.533 | 563306 | 20.0 |
| Cholestan-2-one | 16.451 | 52.5 | ng | 1480220 | 6 | 15.533 | 563306 | 20.0 |
| Stigmastanol | 17.386 | 9.4 | ng | 264528 | 6 | 15.533 | 563306 | 20.0 |
| unknown17.657 | 17.657 | 12.9 | ng | 363478 | 6 | 15.533 | 563306 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

Quant Time: Nov 26 02:01:11 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

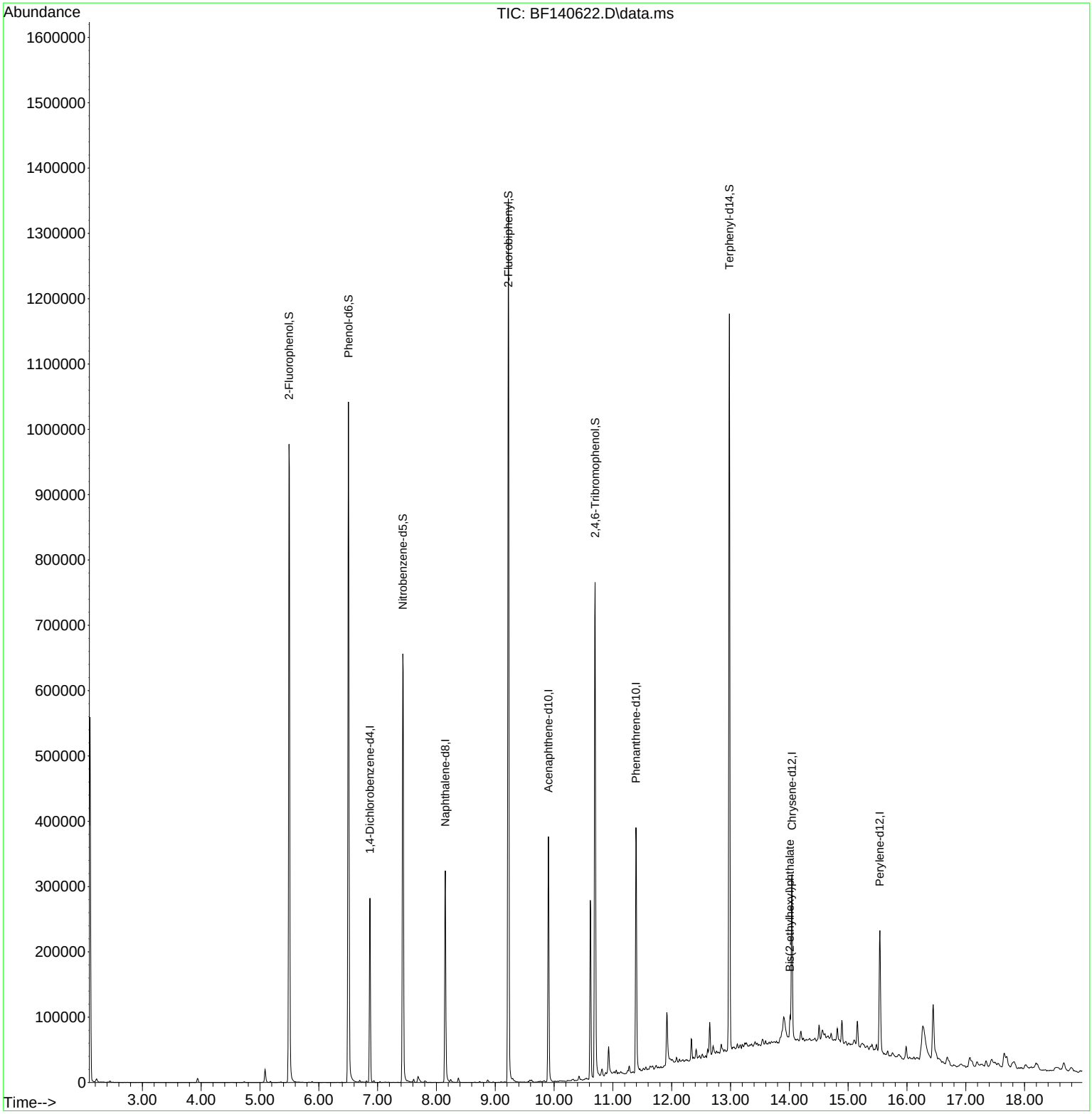
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.869 | 152 | 57850 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.151 | 136 | 212247 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.904 | 164 | 114728 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.392 | 188 | 210520 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 14.045 | 240 | 124009 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.539 | 264 | 108011 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.493 | 112 | 374327 | 110.403 | ng | 0.00 |
| 7) Phenol-d6 | 6.504 | 99 | 483782 | 107.929 | ng | -0.01 |
| 23) Nitrobenzene-d5 | 7.428 | 82 | 308203 | 74.275 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.698 | 330 | 133550 | 108.841 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 596040 | 77.406 | ng | -0.01 |
| 79) Terphenyl-d14 | 12.980 | 244 | 551608 | 69.263 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 84) Bis(2-ethylhexyl)phtha... | 14.010 | 149 | 14506 | 2.781 | ng | 98 |

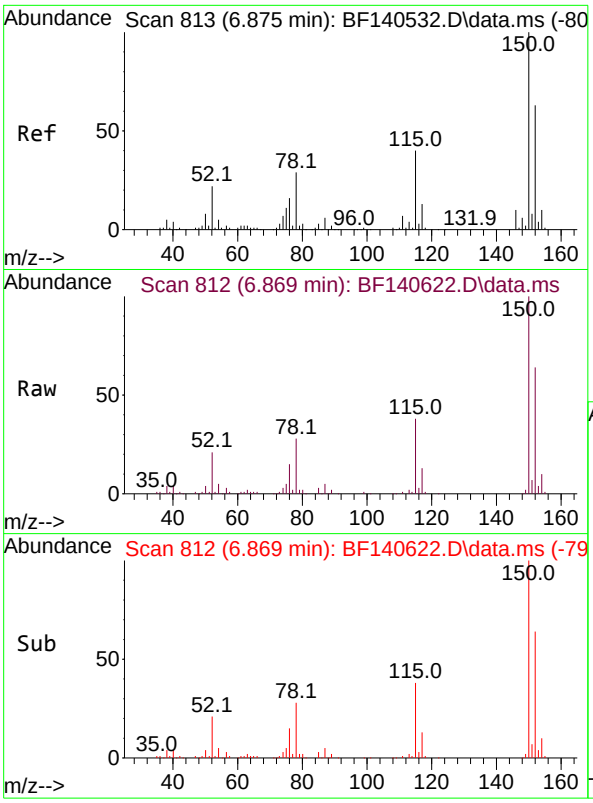
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

Quant Time: Nov 26 02:01:11 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



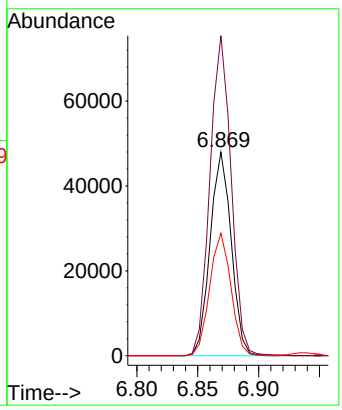


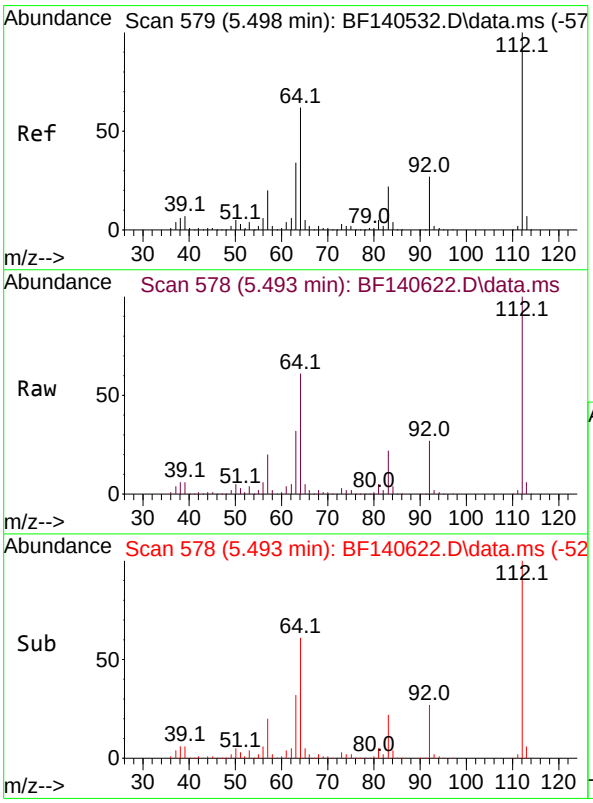

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

Tgt Ion:152 Resp: 57850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.2 | 128.5 | 192.7 |
| 115 | 60.1 | 50.2 | 75.4 |

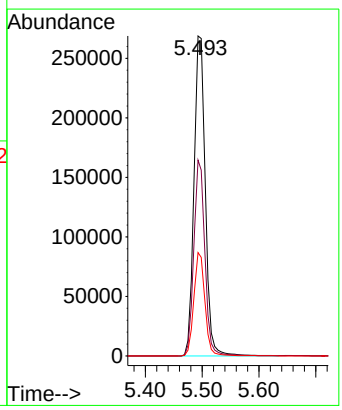


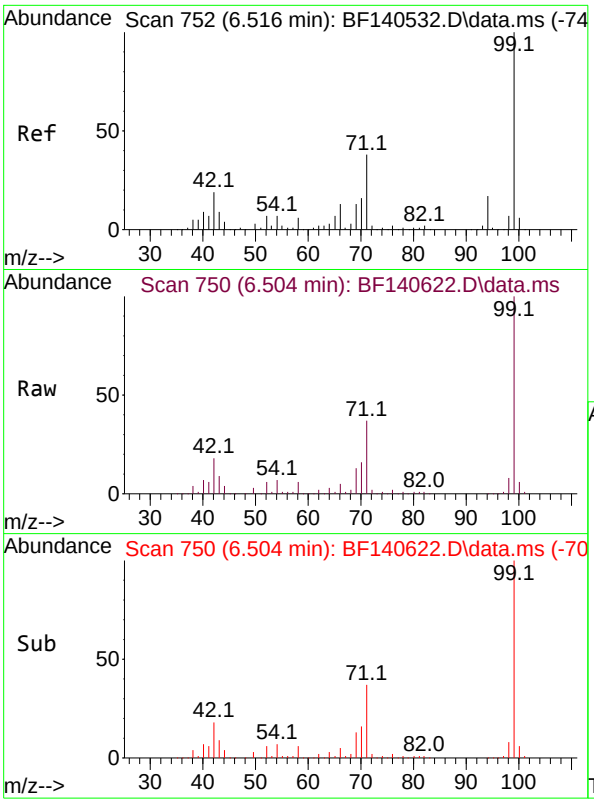




#5
2-Fluorophenol
Concen: 110.403 ng
RT: 5.493 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

Tgt Ion:112 Resp: 374327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 61.2 | 49.2 | 73.8 |
| 63 | 32.3 | 27.0 | 40.4 |



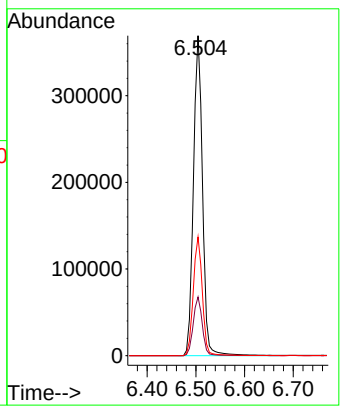


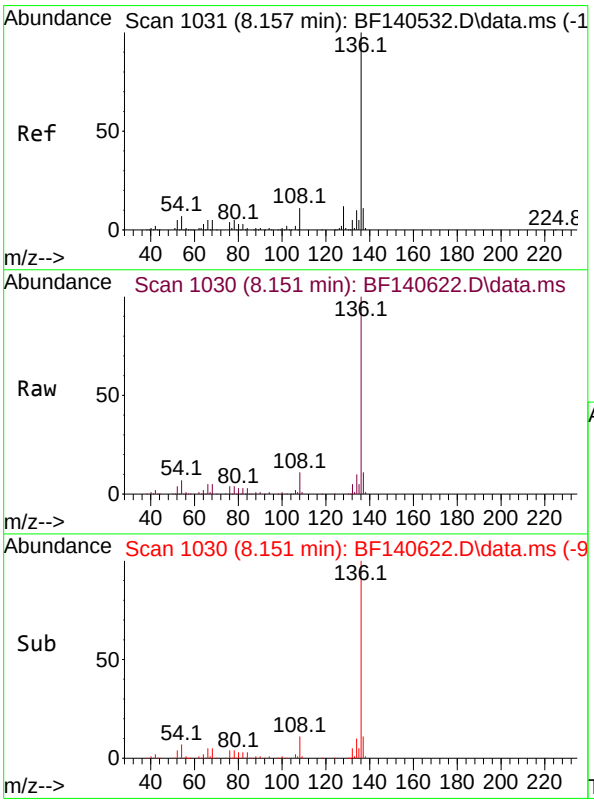

#7
Phenol-d6
Concen: 107.929 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

Tgt Ion: 99 Resp: 483782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.3 | 15.4 | 23.0 |
| 71 | 37.1 | 30.6 | 46.0 |

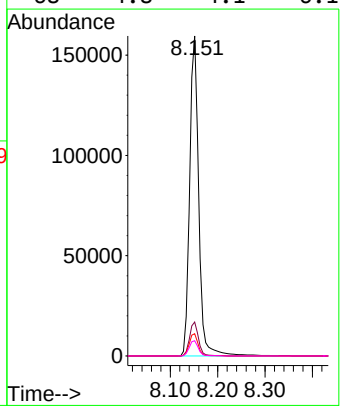


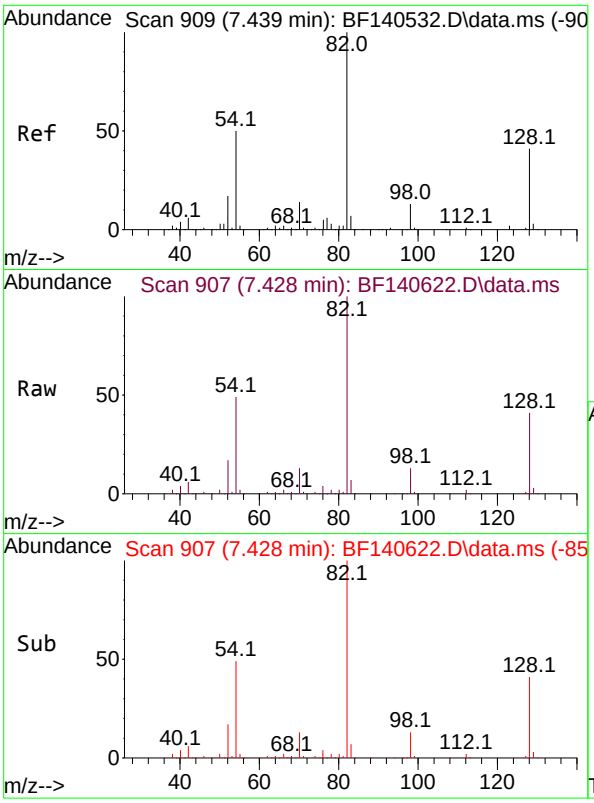




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

Tgt Ion:136 Resp: 212247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.6 | 8.6 | 13.0 |
| 54 | 6.9 | 5.8 | 8.8 |
| 68 | 4.8 | 4.1 | 6.1 |



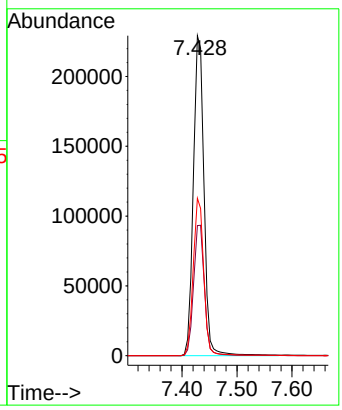


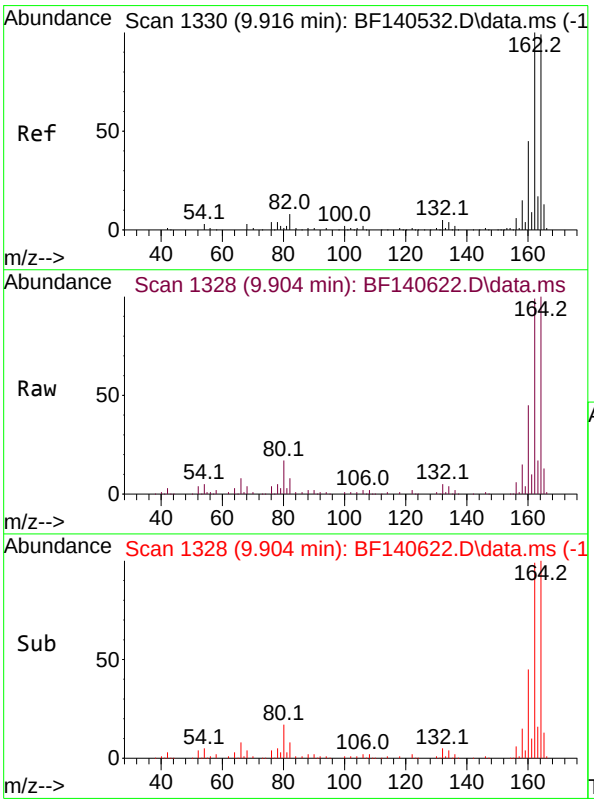

#23
Nitrobenzene-d5
Concen: 74.275 ng
RT: 7.428 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

Tgt Ion: 82 Resp: 308203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.6 | 33.0 | 49.4 |
| 54 | 49.2 | 39.5 | 59.3 |

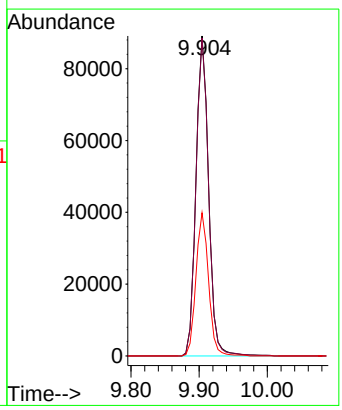


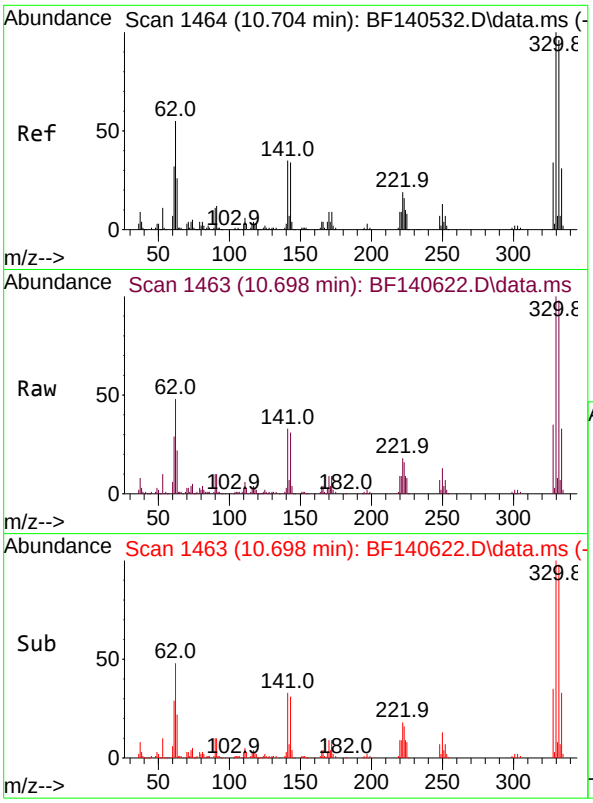




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

Tgt Ion:164 Resp: 114728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.3 | 80.6 | 120.8 |
| 160 | 44.7 | 36.2 | 54.4 |



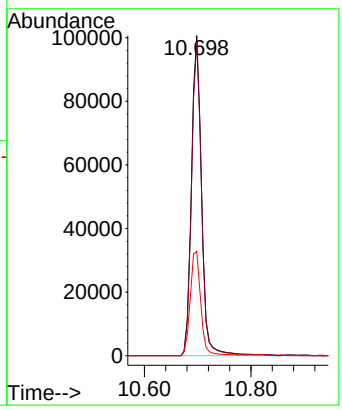


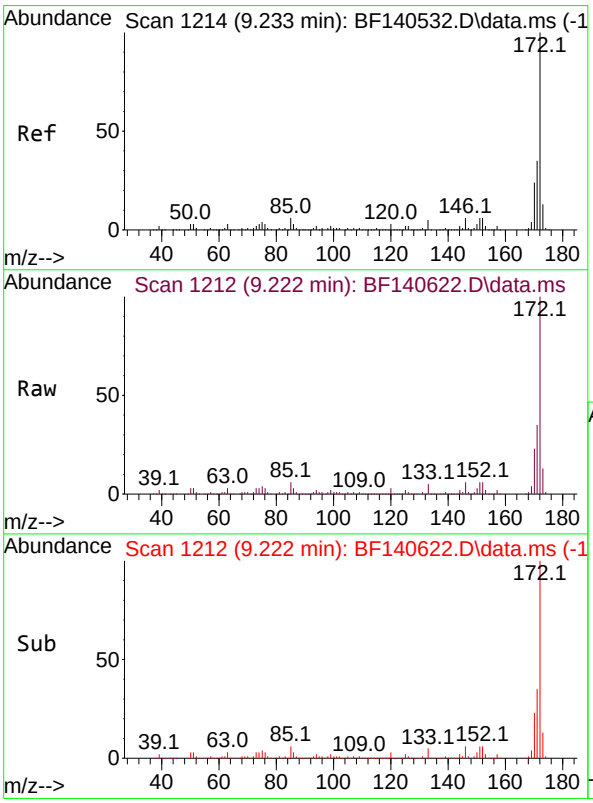

#42
2,4,6-Tribromophenol
Concen: 108.841 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

Tgt Ion:330 Resp: 133550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.2 | 76.9 | 115.3 |
| 141 | 34.2 | 26.7 | 40.1 |

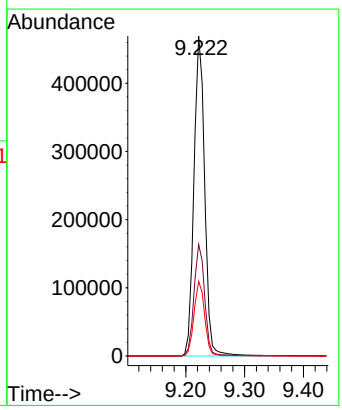


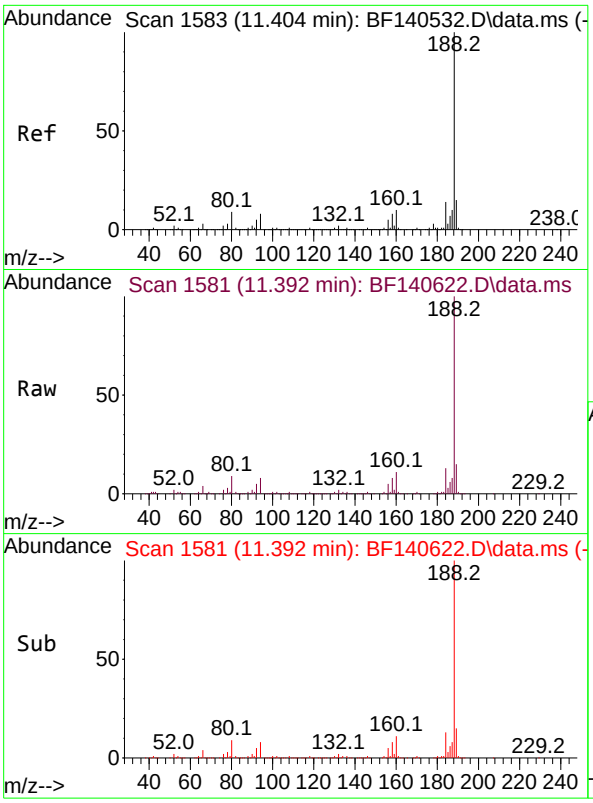




#45
2-Fluorobiphenyl
Concen: 77.406 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

Tgt Ion:172 Resp: 596040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.8 | 28.4 | 42.6 |
| 170 | 23.3 | 19.0 | 28.6 |



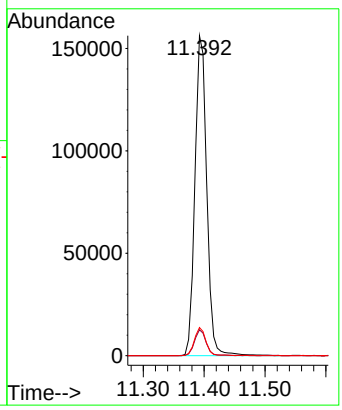


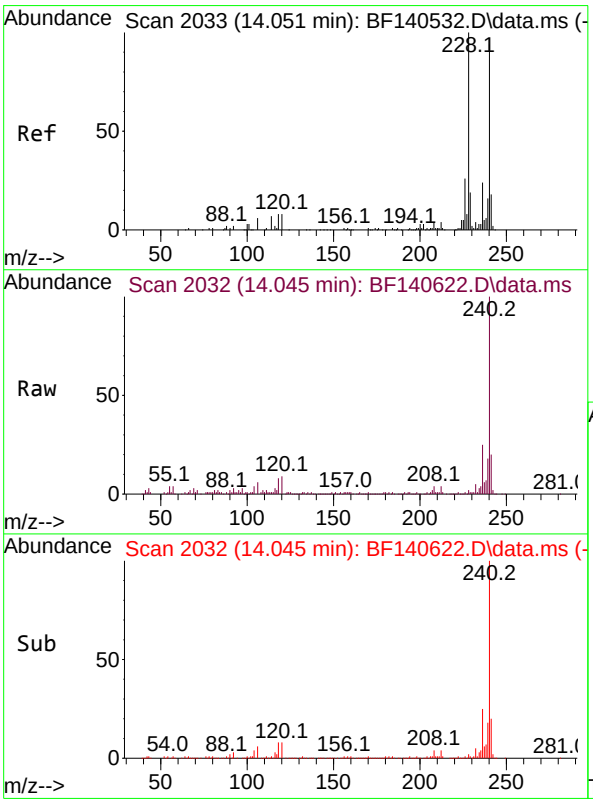

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

Tgt Ion:188 Resp: 210520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.1 | 6.4 | 9.6 |
| 80 | 8.8 | 6.9 | 10.3 |

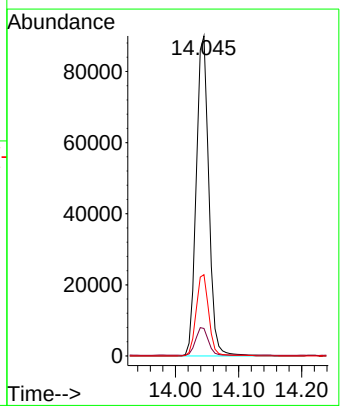


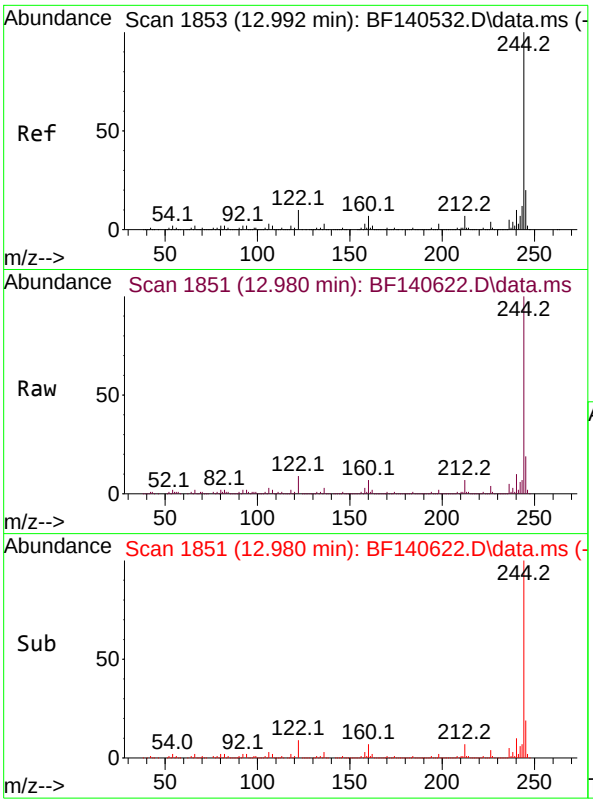




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

Tgt Ion:240 Resp: 124009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 8.6 | 7.3 | 10.9 |
| 236 | 25.4 | 20.6 | 31.0 |



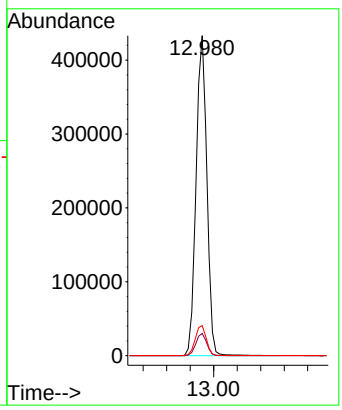


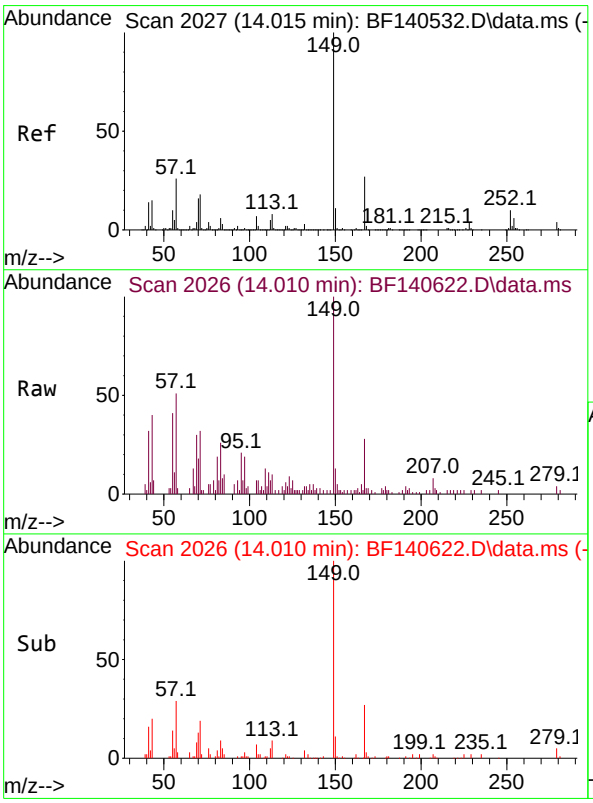

#79
Terphenyl-d14
Concen: 69.263 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

Tgt Ion:244 Resp: 551608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.0 | 5.8 | 8.8 |
| 122 | 9.4 | 8.0 | 12.0 |

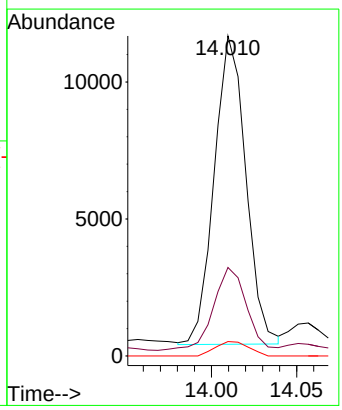


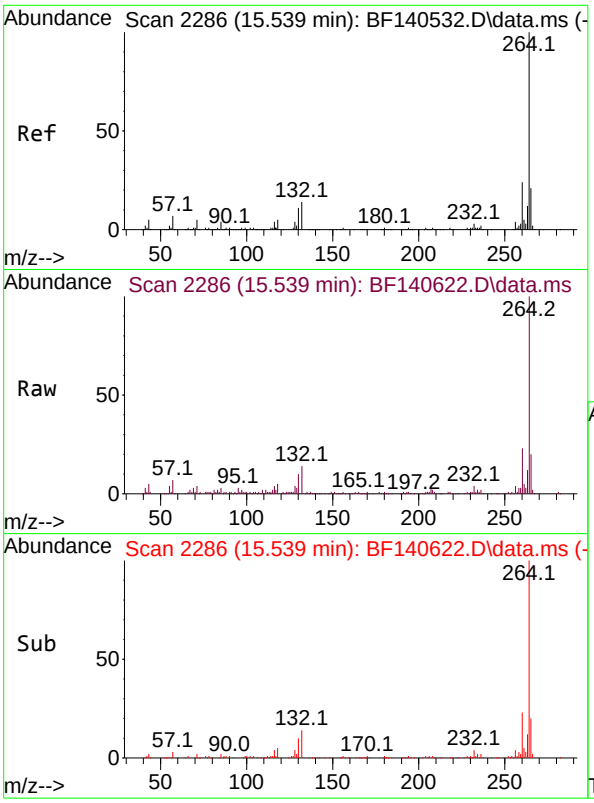




#84
Bis(2-ethylhexyl)phthalate
Concen: 2.781 ng
RT: 14.010 min Scan# 2026
Delta R.T. -0.006 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

Tgt Ion:149 Resp: 14506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.6 | 21.2 | 31.8 |
| 279 | 4.5 | 3.2 | 4.8 |



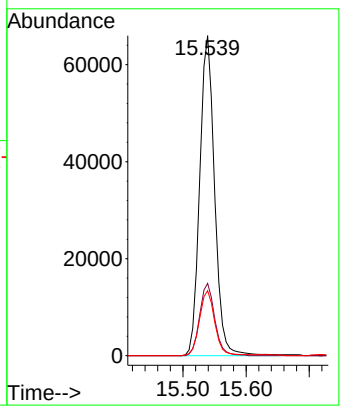



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

Tgt Ion:264 Resp: 108011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 22.6 | 19.0 | 28.6 |
| 265 | 20.3 | 16.6 | 25.0 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

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: BF140622.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.087 | 504 | 509 | 519 | rVB | 19352 | 29324 | 1.73% | 0.251% |
| 2 | 5.493 | 573 | 578 | 599 | rVB | 976473 | 1329504 | 78.49% | 11.371% |
| 3 | 6.504 | 744 | 750 | 776 | rBV | 1041773 | 1375091 | 81.18% | 11.761% |
| 4 | 6.869 | 807 | 812 | 819 | rBV | 281826 | 342388 | 20.21% | 2.928% |
| 5 | 7.428 | 902 | 907 | 919 | rBV | 655973 | 872028 | 51.48% | 7.458% |
| 6 | 7.687 | 947 | 951 | 962 | rVB | 8736 | 18085 | 1.07% | 0.155% |
| 7 | 8.151 | 1025 | 1030 | 1042 | rBV | 323550 | 421907 | 24.91% | 3.608% |
| 8 | 9.222 | 1207 | 1212 | 1223 | rBV | 1352350 | 1693879 | 100.00% | 14.487% |
| 9 | 9.904 | 1323 | 1328 | 1341 | rVB | 375068 | 480581 | 28.37% | 4.110% |
| 10 | 10.616 | 1444 | 1449 | 1457 | rBV | 274274 | 356165 | 21.03% | 3.046% |
| 11 | 10.698 | 1457 | 1463 | 1477 | rVV | 758705 | 1030102 | 60.81% | 8.810% |
| 12 | 10.816 | 1478 | 1483 | 1489 | rVB4 | 10598 | 20021 | 1.18% | 0.171% |
| 13 | 10.928 | 1497 | 1502 | 1511 | rBV | 41160 | 62004 | 3.66% | 0.530% |
| 14 | 11.392 | 1576 | 1581 | 1591 | rBV | 375832 | 519828 | 30.69% | 4.446% |
| 15 | 11.916 | 1666 | 1670 | 1678 | rBV | 80778 | 139203 | 8.22% | 1.191% |
| 16 | 12.333 | 1738 | 1741 | 1745 | rBV | 31349 | 38943 | 2.30% | 0.333% |
| 17 | 12.416 | 1752 | 1755 | 1759 | rVB2 | 13185 | 17085 | 1.01% | 0.146% |
| 18 | 12.645 | 1790 | 1794 | 1799 | rVB | 49341 | 63743 | 3.76% | 0.545% |
| 19 | 12.980 | 1845 | 1851 | 1859 | rBV | 1128292 | 1456378 | 85.98% | 12.456% |
| 20 | 14.010 | 2023 | 2026 | 2028 | rBV | 32025 | 42763 | 2.52% | 0.366% |
| 21 | 14.045 | 2028 | 2032 | 2042 | rVB | 253255 | 361216 | 21.32% | 3.089% |
| 22 | 14.504 | 2107 | 2110 | 2114 | rVB | 20732 | 26063 | 1.54% | 0.223% |
| 23 | 14.892 | 2173 | 2176 | 2183 | rVB | 35955 | 49116 | 2.90% | 0.420% |
| 24 | 15.157 | 2217 | 2221 | 2229 | rVB | 39855 | 62760 | 3.71% | 0.537% |
| 25 | 15.539 | 2280 | 2286 | 2297 | rVB | 189494 | 325156 | 19.20% | 2.781% |
| 26 | 15.986 | 2358 | 2362 | 2368 | rVB | 18049 | 28718 | 1.70% | 0.246% |
| 27 | 16.268 | 2401 | 2410 | 2433 | rBV9 | 49954 | 249760 | 14.74% | 2.136% |
| 28 | 16.445 | 2434 | 2440 | 2453 | rVB4 | 83243 | 184514 | 10.89% | 1.578% |
| 29 | 17.068 | 2541 | 2546 | 2560 | rVB4 | 13673 | 46438 | 2.74% | 0.397% |
| 30 | 17.657 | 2640 | 2646 | 2650 | rBV7 | 19866 | 49608 | 2.93% | 0.424% |

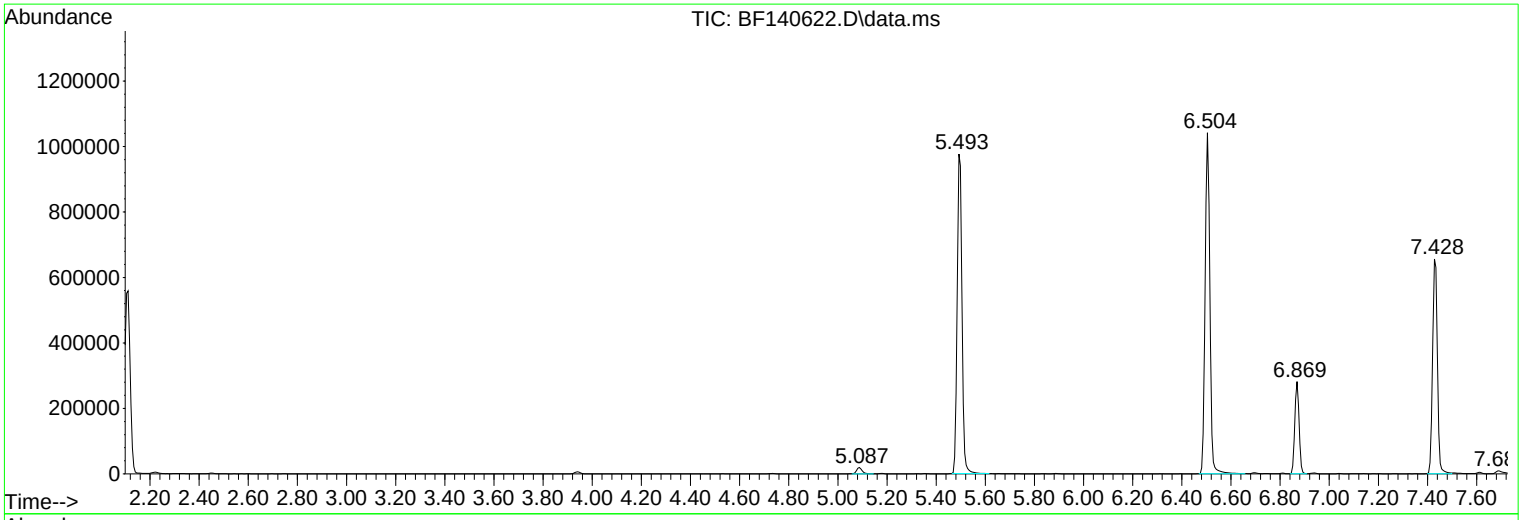
Sum of corrected areas: 11692371

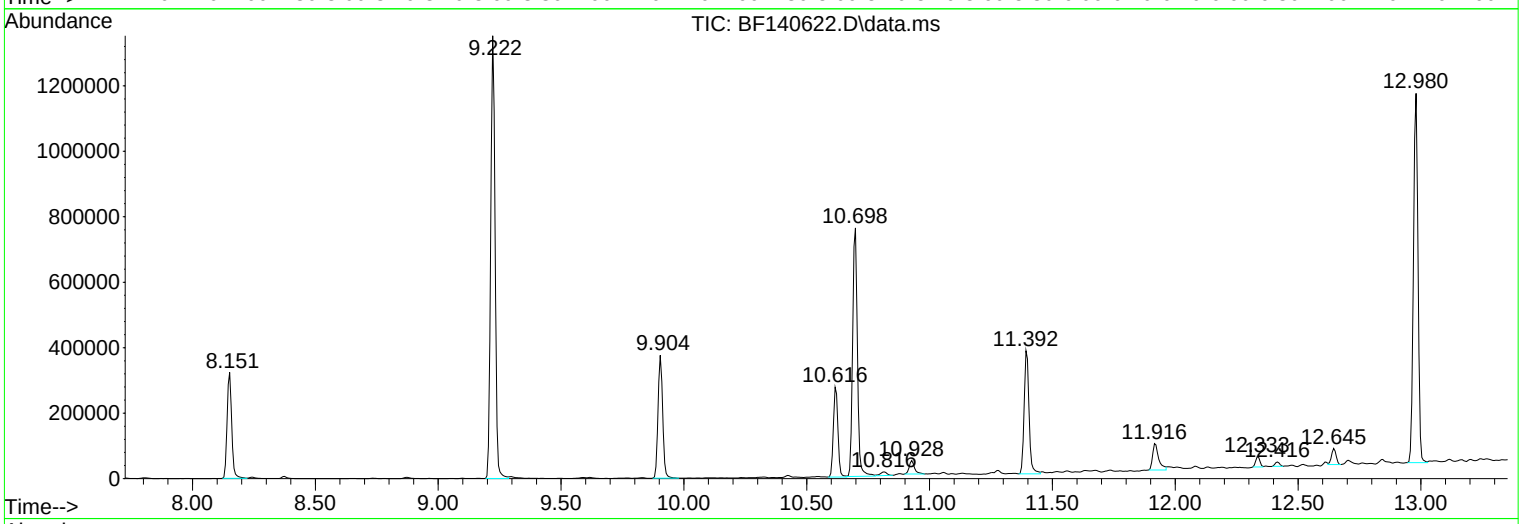
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

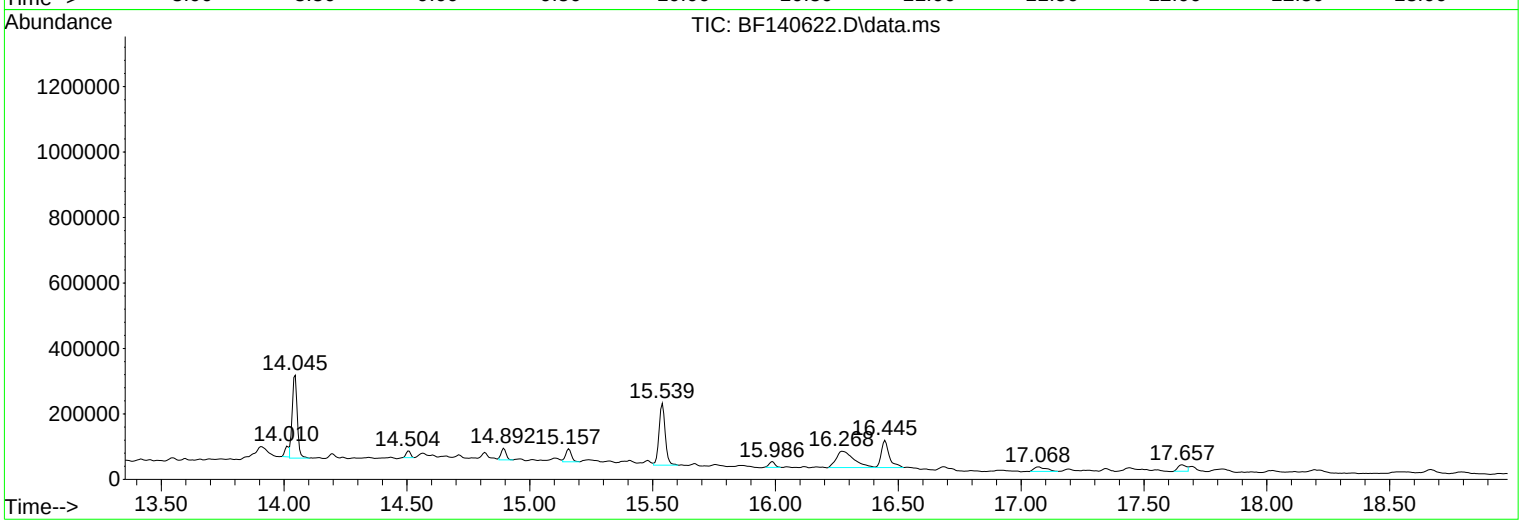
**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

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 : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

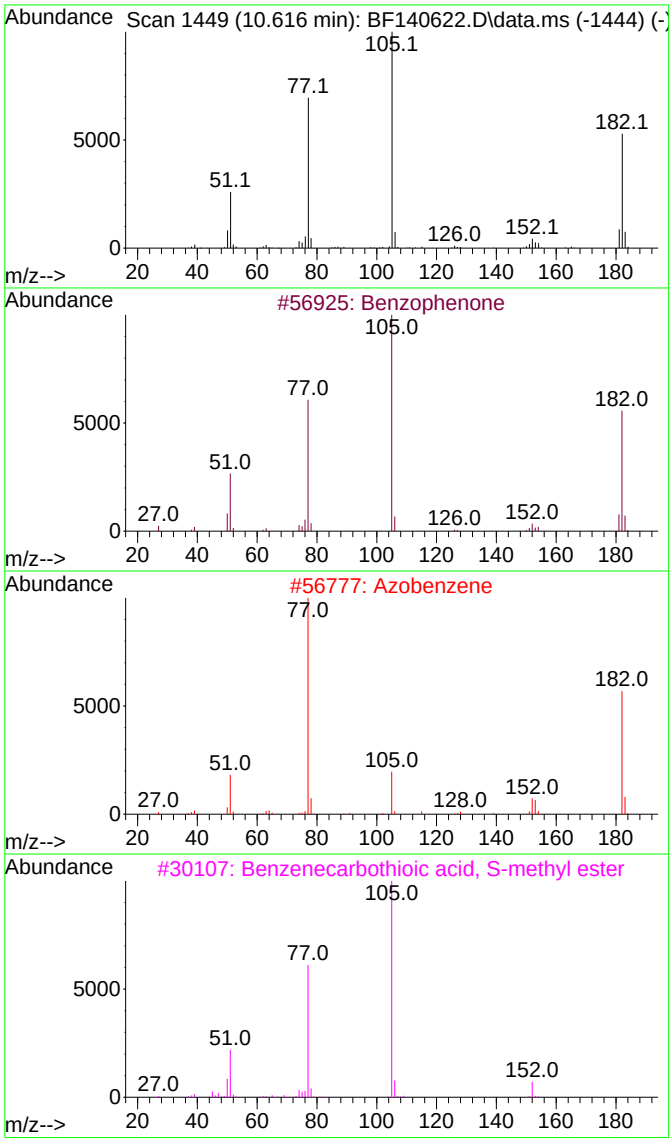
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

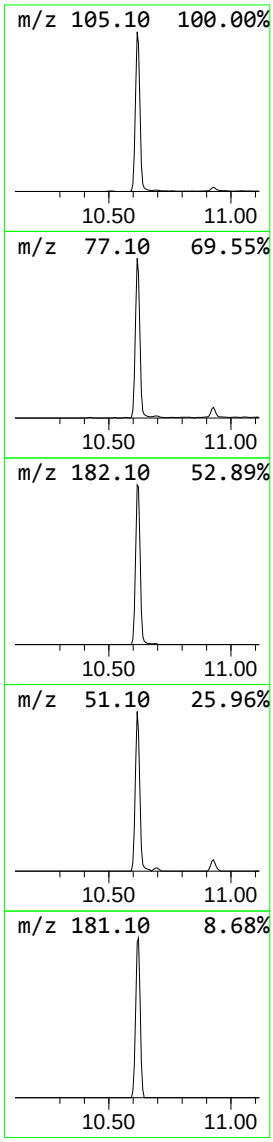
**********

Peak Number 1 Benzophenone Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.616 | 14.82 ng | 356165 | Acenaphthene-d10 | 9.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 96 |
| 2 | Azobenzene | 182 | C12H10N2 | 000103-33-3 | 72 |
| 3 | Benzenecarbothioic acid, S-methy... | 152 | C8H8OS | 005925-68-8 | 52 |
| 4 | Acetophenone, 2-chloro- | 154 | C8H7ClO | 000532-27-4 | 49 |
| 5 | N-Methoxy-N-methylbenzamide | 165 | C9H11NO2 | 006919-61-5 | 49 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

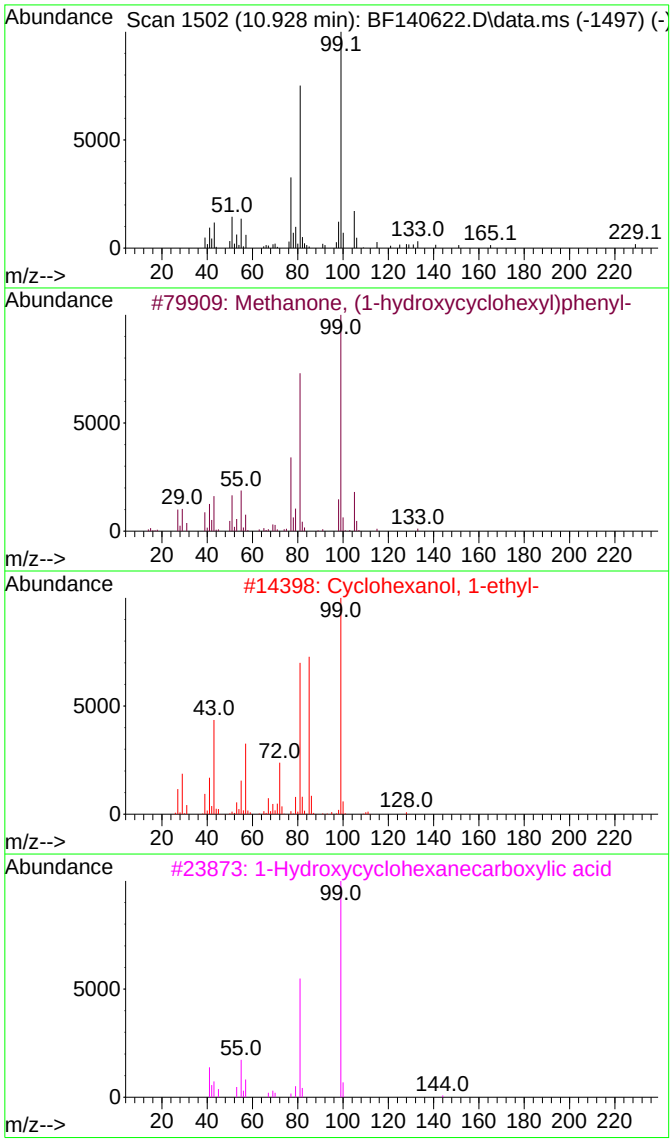
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

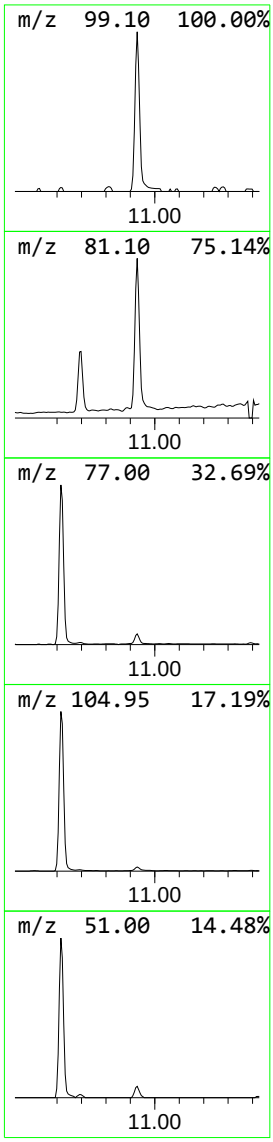
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 Methanone, (1-hydroxycycloh... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.928 | 2.39 ng | 62004 | Phenanthrene-d10 | 11.392 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methanone, (1-hydroxycyclohexyl)... | 204 | C13H16O2 | 000947-19-3 | 91 |
| 2 | Cyclohexanol, 1-ethyl- | 128 | C8H16O | 001940-18-7 | 59 |
| 3 | 1-Hydroxycyclohexanecarboxylic acid | 144 | C7H12O3 | 001123-28-0 | 59 |
| 4 | 3-Methylcyclohexyl methylphospho... | 194 | C8H16FO2P | 113548-86-0 | 45 |
| 5 | Cyclohexanol, 1-(aminomethyl)- | 129 | C7H15NO | 004000-72-0 | 38 |



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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On    : 25 Nov 2024  23:48
Operator  : RC/JU
Sample    : P4860-03
Misc      :
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

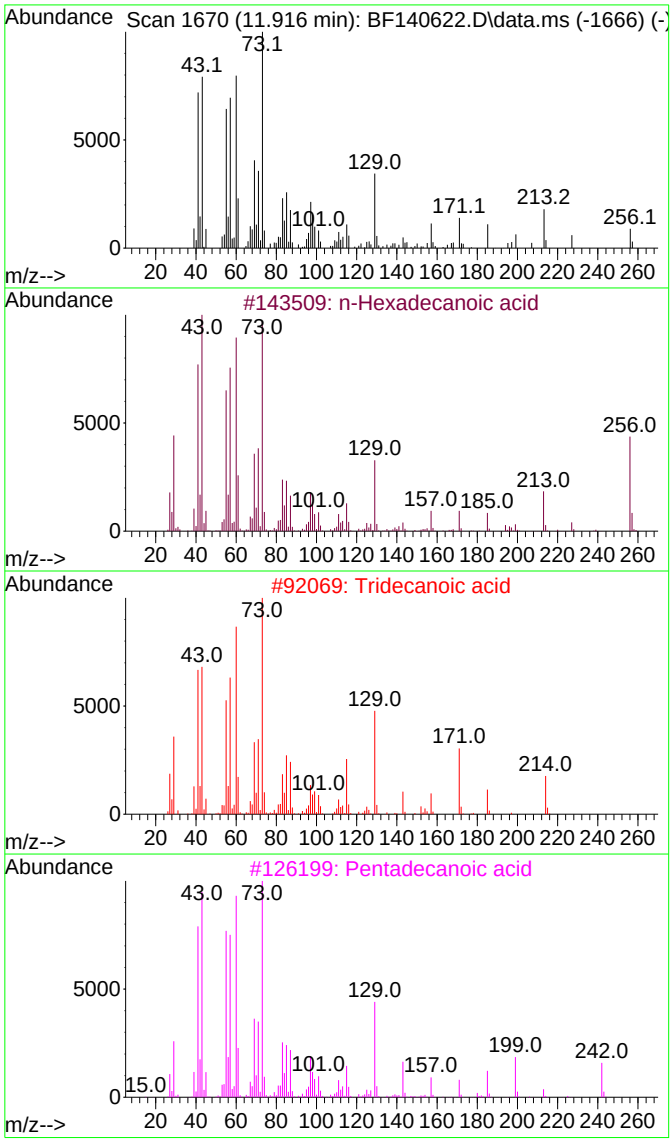
TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

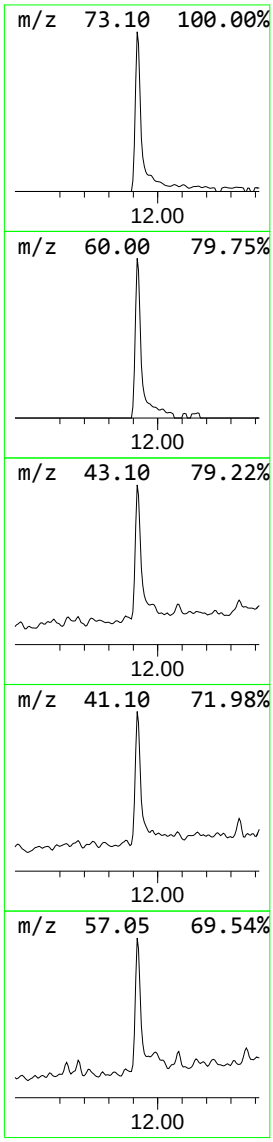
**Instrument :** BNA_F
**ClientSampleId :** PH2-BOT-002

**Peak Number 3 n-Hexadecanoic acid** Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.916 | 5.36 ng | 139203 | Phenanthrene-d10 | 11.392 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 90 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 87 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 72 |
| 5 | Nonanoic acid | 158 | C9H18O2 | 000112-05-0 | 38 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

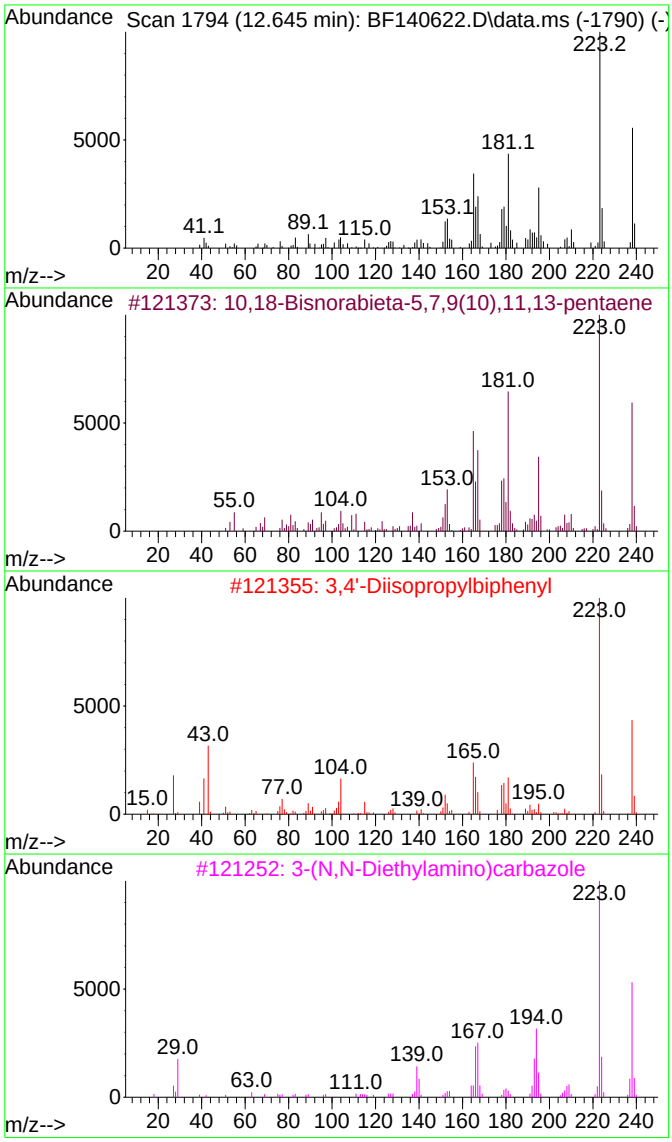
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

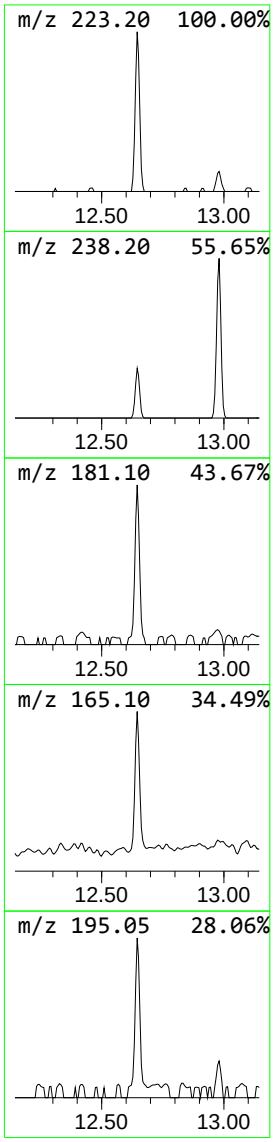
**********

Peak Number 4 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.645 | 2.45 ng | 63743 | Phenanthrene-d10 | 11.392 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10,18-Bisnorabieta-5,7,9(10),11,... | 238 | C18H22 | 006566-19-4 | 99 |
| 2 | 3,4'-Diisopropylbiphenyl | 238 | C18H22 | 061434-46-6 | 90 |
| 3 | 3-(N,N-Diethylamino)carbazole | 238 | C16H18N2 | 054994-31-9 | 64 |
| 4 | 1,3-Diethyl-5-(1-phenylethyl)ben... | 238 | C18H22 | 1000482-32-6 | 58 |
| 5 | 4,4'-Diisopropylbiphenyl | 238 | C18H22 | 018970-30-4 | 46 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

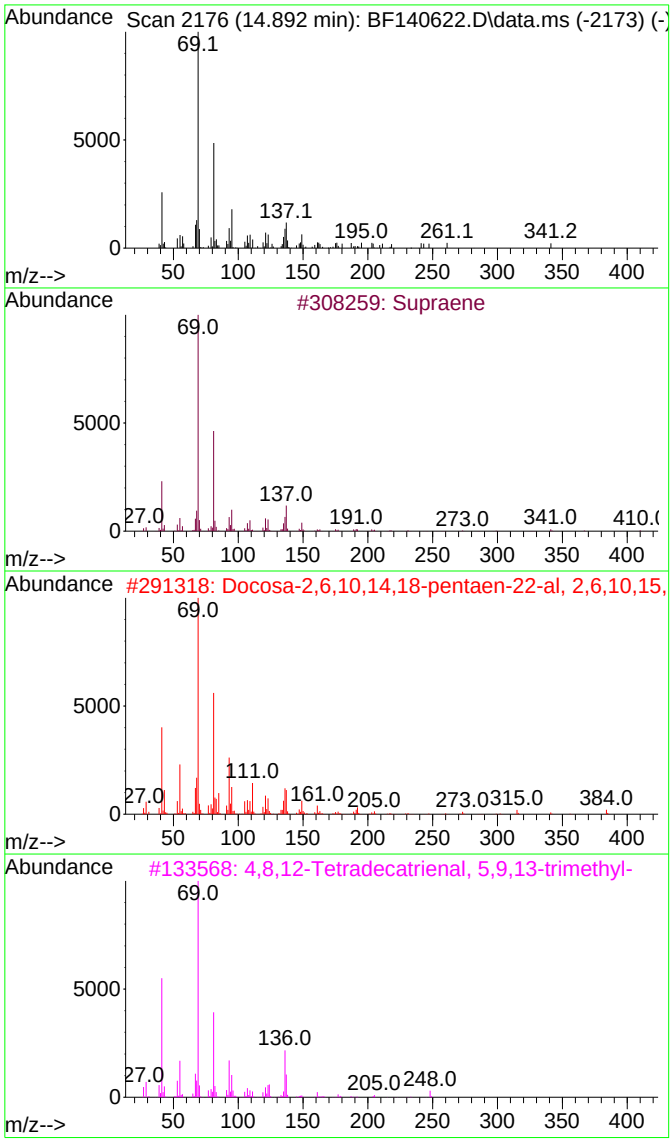
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

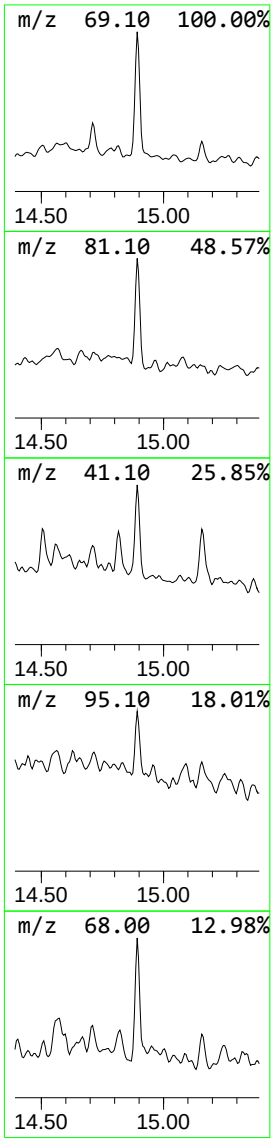
**********

Peak Number 5 Supraene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.892 | 3.02 ng | 49116 | Perylene-d12 | 15.539 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Supraene | 410 | C30H50 | 007683-64-9 | 87 |
| 2 | Docosa-2,6,10,14,18-pentaen-22-a... | 384 | C27H44O | 1000163-04-7 | 78 |
| 3 | 4,8,12-Tetradecatrienal, 5,9,13-... | 248 | C17H28O | 066408-55-7 | 72 |
| 4 | Furan, 3-(4,8-dimethyl-3,7-nonad... | 218 | C15H22O | 023262-34-2 | 64 |
| 5 | 1,6-Octadiene, 3,5-dimethyl-, tr... | 138 | C10H18 | 074630-87-8 | 59 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

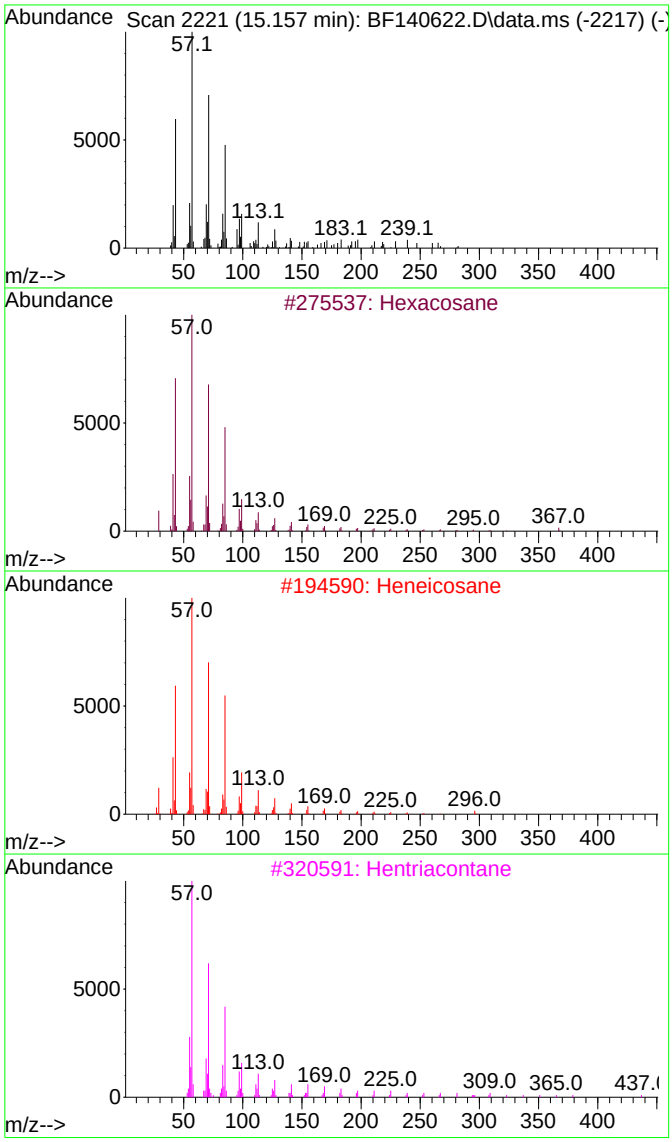
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

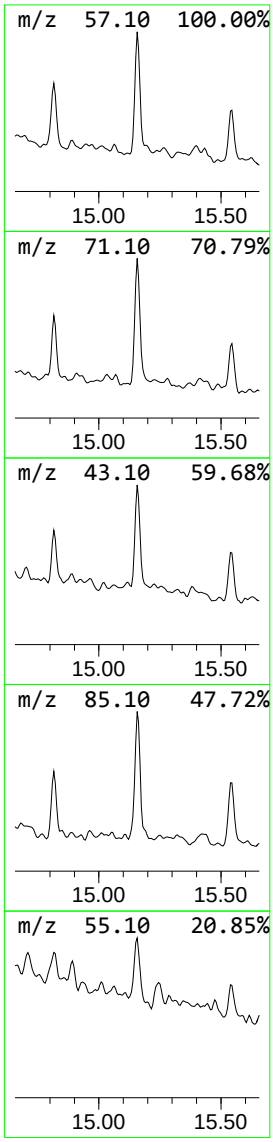
**********

Peak Number 6 Hexacosane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.157 | 3.86 ng | 62760 | Perylene-d12 | 15.539 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexacosane | 366 | C26H54 | 000630-01-3 | 87 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 87 |
| 3 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 87 |
| 4 | Eicosane | 282 | C20H42 | 000112-95-8 | 86 |
| 5 | Nonadecane, 2-methyl- | 282 | C20H42 | 001560-86-7 | 86 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

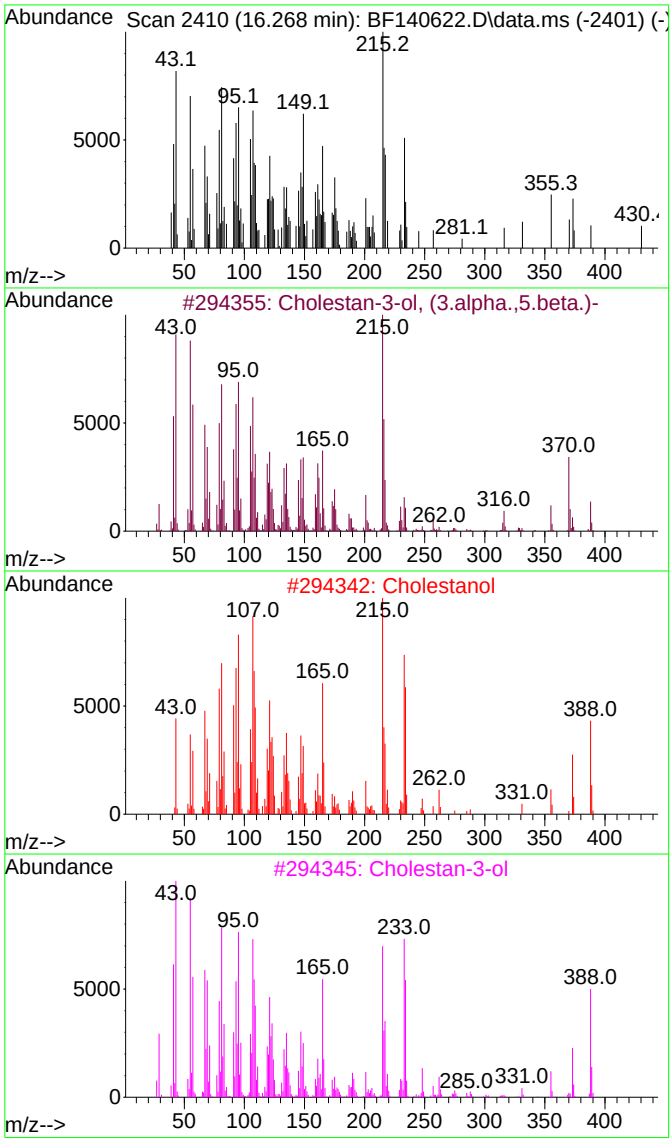
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

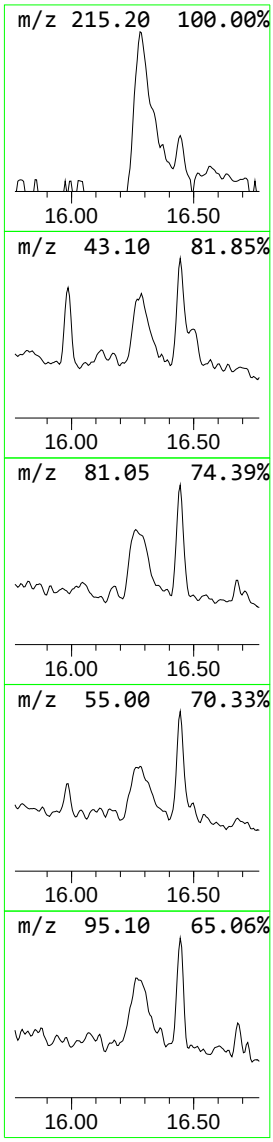
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 Cholestan-3-ol, (3.alpha.,5... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.268 | 15.36 ng | 249760 | Perylene-d12 | 15.539 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cholestan-3-ol, (3.alpha.,5.beta.)- | 388 | C27H48O | 000516-92-7 | 90 |
| 2 | Cholestanol | 388 | C27H48O | 000080-97-7 | 70 |
| 3 | Cholestan-3-ol | 388 | C27H48O | 027409-41-2 | 50 |
| 4 | 5.beta.-Cholestan-3.alpha.-ol, 2... | 458 | C31H54O2 | 1000514-95-7 | 46 |
| 5 | 5.beta.-Cholestan-3.alpha.-ol, a... | 430 | C29H50O2 | 033157-47-0 | 46 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

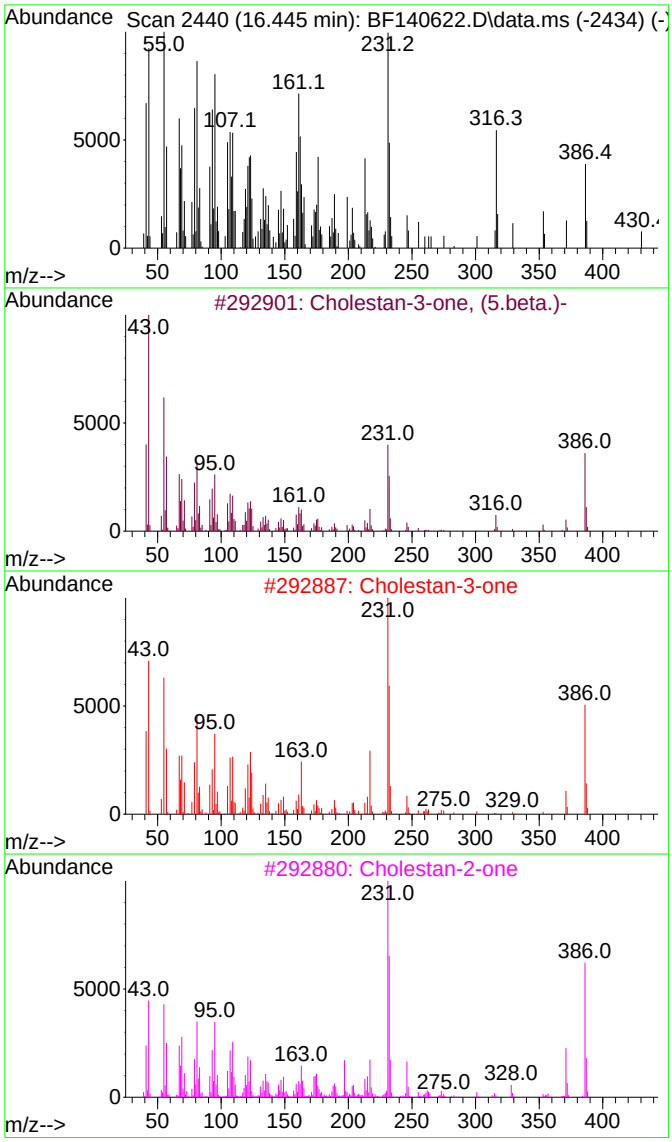
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

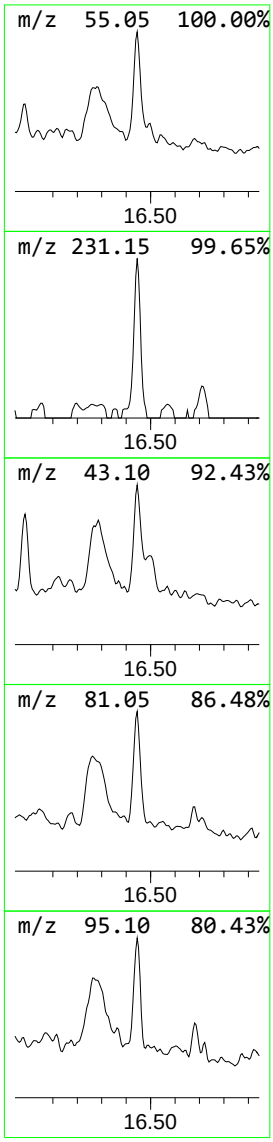
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 Cholestan-3-one, (5.beta.)- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.445 | 11.35 ng | 184514 | Perylene-d12 | 15.539 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cholestan-3-one, (5.beta.)- | 386 | C27H46O | 000601-53-6 | 90 |
| 2 | Cholestan-3-one | 386 | C27H46O | 015600-08-5 | 90 |
| 3 | Cholestan-2-one | 386 | C27H46O | 1010210-43-4 | 83 |
| 4 | Cholestan-3-one, (5.alpha.)- | 386 | C27H46O | 000566-88-1 | 64 |
| 5 | Cholest-4-en-3-ol | 386 | C27H46O | 014597-42-3 | 43 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

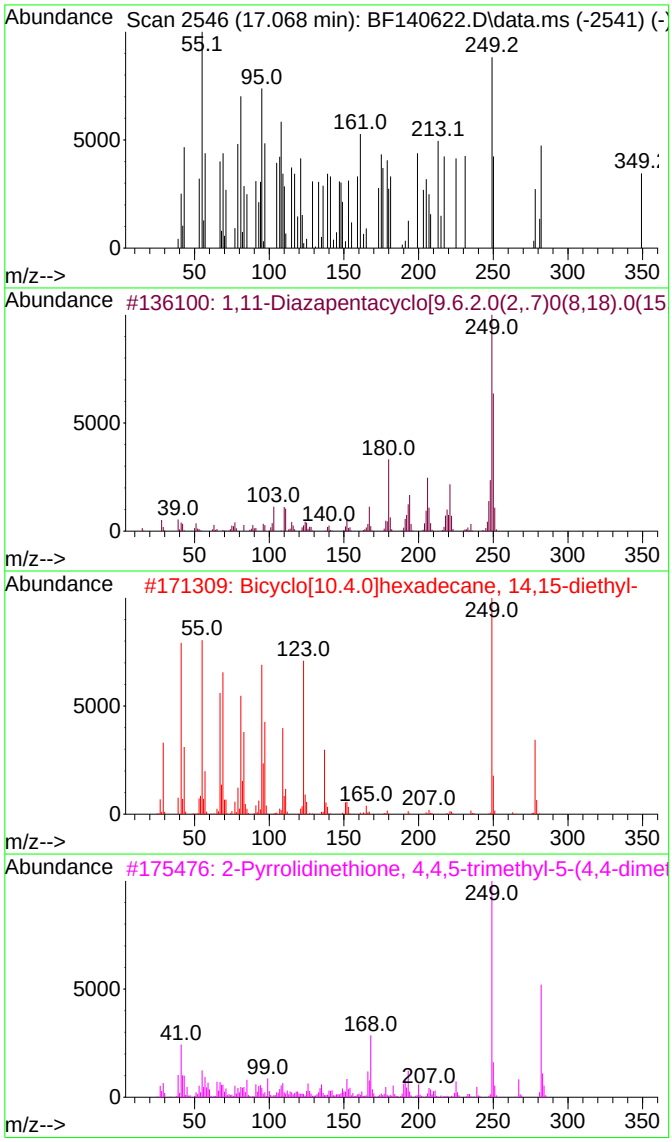
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

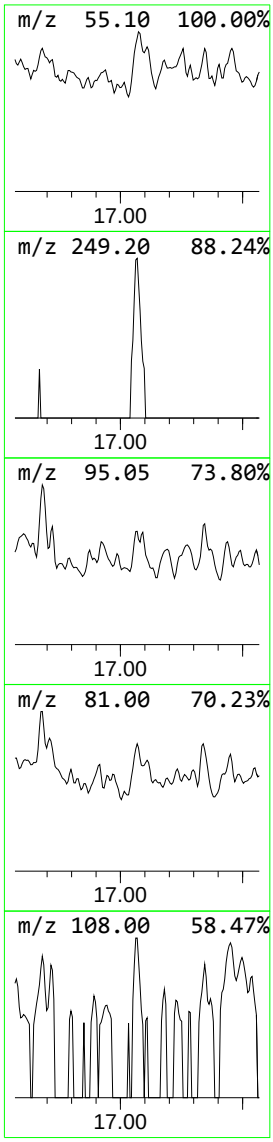
**********

Peak Number 9 unknown17.068 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.068 | 2.86 ng | 46438 | Perylene-d12 | 15.539 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,11-Diazapentacyclo[9.6.2.0(2,.... | 250 | C17H18N2 | 1000436-58-8 | 11 |
| 2 | Bicyclo[10.4.0]hexadecane, 14,15... | 278 | C20H38 | 1000155-81-5 | 10 |
| 3 | 2-Pyrrolidinethione, 4,4,5-trime... | 282 | C14H22N2S2 | 1000186-15-6 | 10 |
| 4 | [3-(Difluoromethyl)-5-methyl-4-n... | 249 | C8H9F2N3O4 | 1000512-13-1 | 9 |
| 5 | 1,2,5-Thiadiazolo[3,4-c]coumarin... | 249 | C9H3N3O4S | 119458-69-4 | 9 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

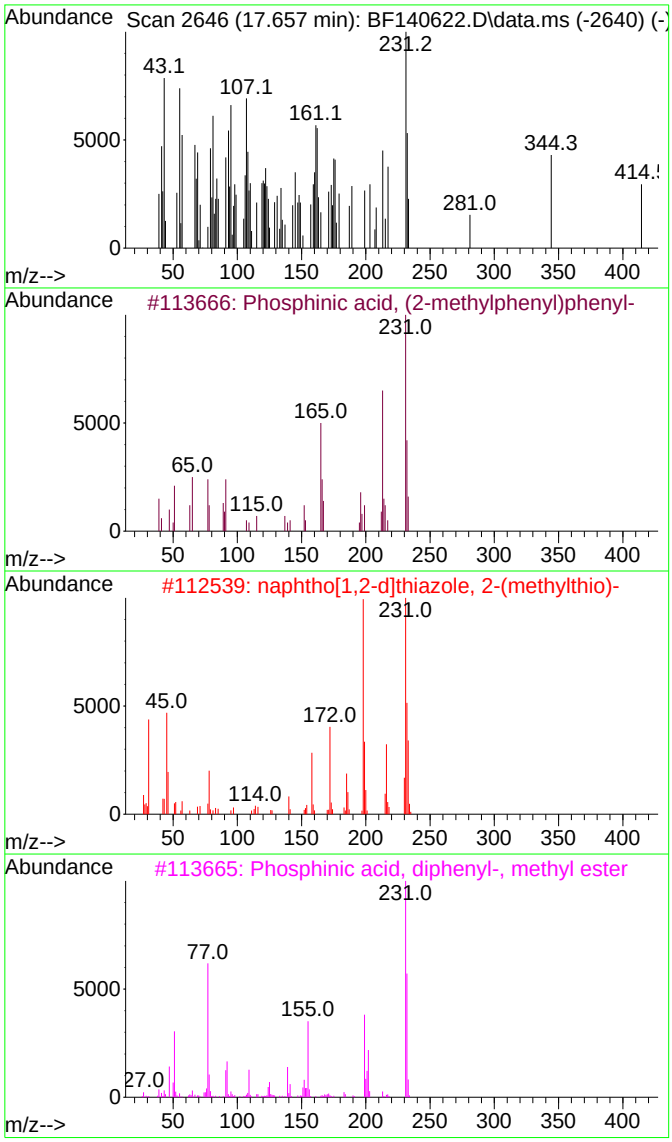
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

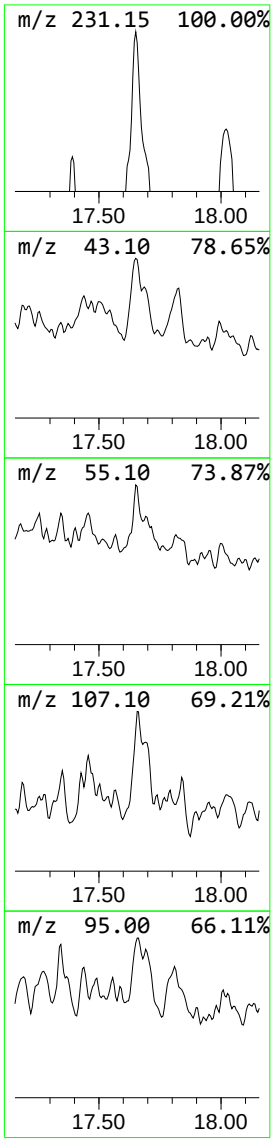
**********

Peak Number 10 unknown17.657 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.657 | 3.05 ng | 49608 | Perylene-d12 | 15.539 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phosphinic acid, (2-methylphenyl... | 232 | C13H13O2P | 018593-18-5 | 35 |
| 2 | naphtho[1,2-d]thiazole, 2-(methy... | 231 | C12H9NS2 | 1000401-03-0 | 25 |
| 3 | Phosphinic acid, diphenyl-, meth... | 232 | C13H13O2P | 001706-90-7 | 18 |
| 4 | Isobutyl 1-pentyl-1H-indazole-3-... | 288 | C17H24N2O2 | 1000457-73-6 | 12 |
| 5 | 2-Propenoic acid, 2-cyano-3-(4-m... | 231 | C13H13NO3 | 002286-29-5 | 11 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-002

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 |
| Benzophenone | 10.616 | 14.8 | ng | 356165 | 3 | 9.904 | 480581 | 20.0 |
| Methanone, (1-h... | 10.928 | 2.4 | ng | 62004 | 4 | 11.392 | 519828 | 20.0 |
| n-Hexadecanoic ... | 11.916 | 5.4 | ng | 139203 | 4 | 11.392 | 519828 | 20.0 |
| 10,18-Bisnorabi... | 12.645 | 2.5 | ng | 63743 | 4 | 11.392 | 519828 | 20.0 |
| Supraene | 14.892 | 3.0 | ng | 49116 | 6 | 15.539 | 325156 | 20.0 |
| Hexacosane | 15.157 | 3.9 | ng | 62760 | 6 | 15.539 | 325156 | 20.0 |
| Cholestan-3-ol,... | 16.268 | 15.4 | ng | 249760 | 6 | 15.539 | 325156 | 20.0 |
| Cholestan-3-one... | 16.445 | 11.4 | ng | 184514 | 6 | 15.539 | 325156 | 20.0 |
| unknown17.068 | 17.068 | 2.9 | ng | 46438 | 6 | 15.539 | 325156 | 20.0 |
| unknown17.657 | 17.657 | 3.0 | ng | 49608 | 6 | 15.539 | 325156 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

Quant Time: Nov 26 00:11:31 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

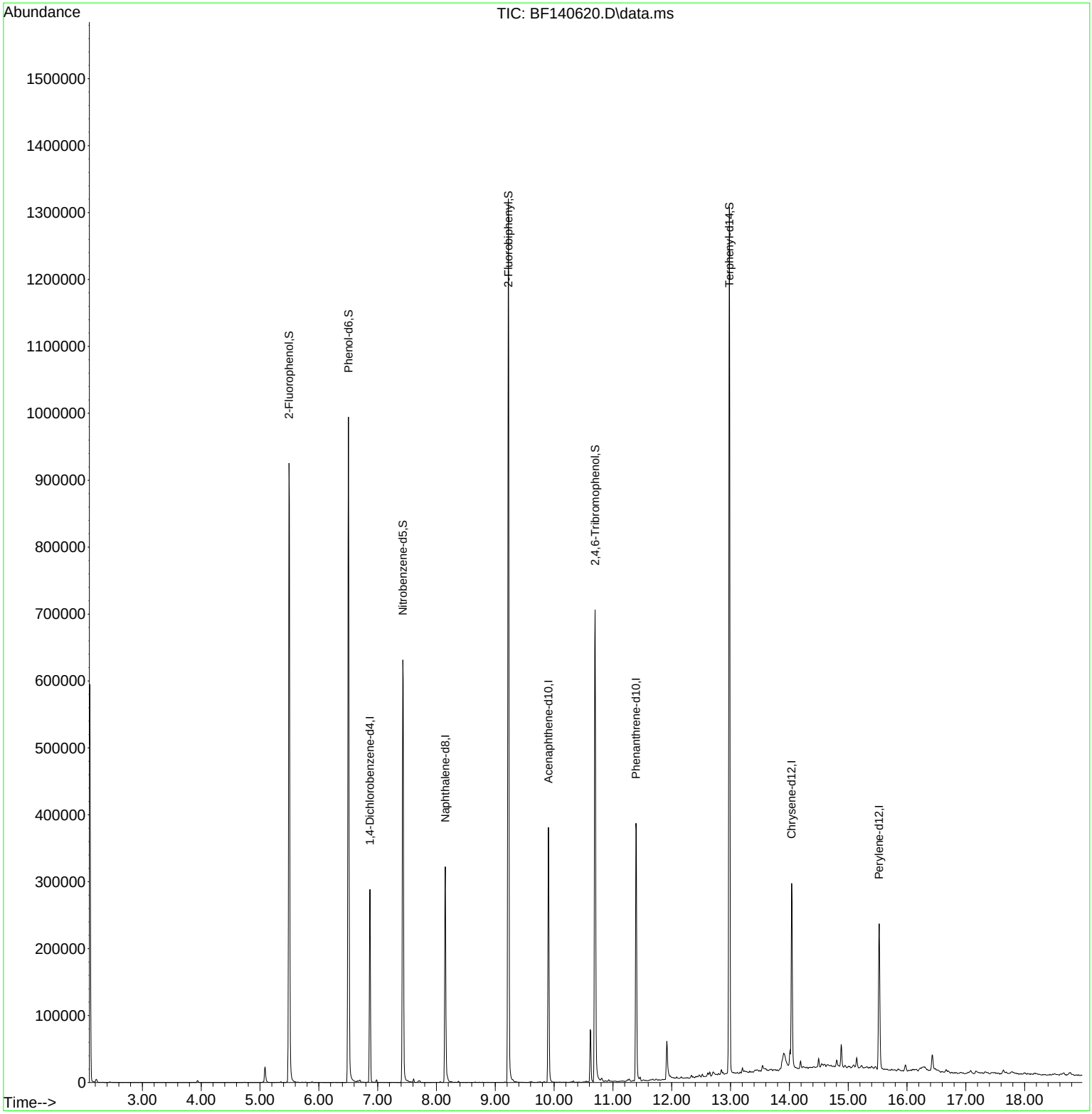
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.869 | 152 | 59191 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.151 | 136 | 215928 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.904 | 164 | 117690 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.392 | 188 | 222510 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 14.039 | 240 | 134073 | 20.000 | ng | -0.01 |
| 86) Perylene-d12 | 15.527 | 264 | 132029 | 20.000 | ng | -0.01 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.492 | 112 | 353591 | 101.924 | ng | 0.00 |
| 7) Phenol-d6 | 6.504 | 99 | 462361 | 100.814 | ng | -0.01 |
| 23) Nitrobenzene-d5 | 7.428 | 82 | 297146 | 70.390 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.698 | 330 | 128817 | 102.341 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 578560 | 73.245 | ng | -0.01 |
| 79) Terphenyl-d14 | 12.980 | 244 | 625576 | 72.655 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |

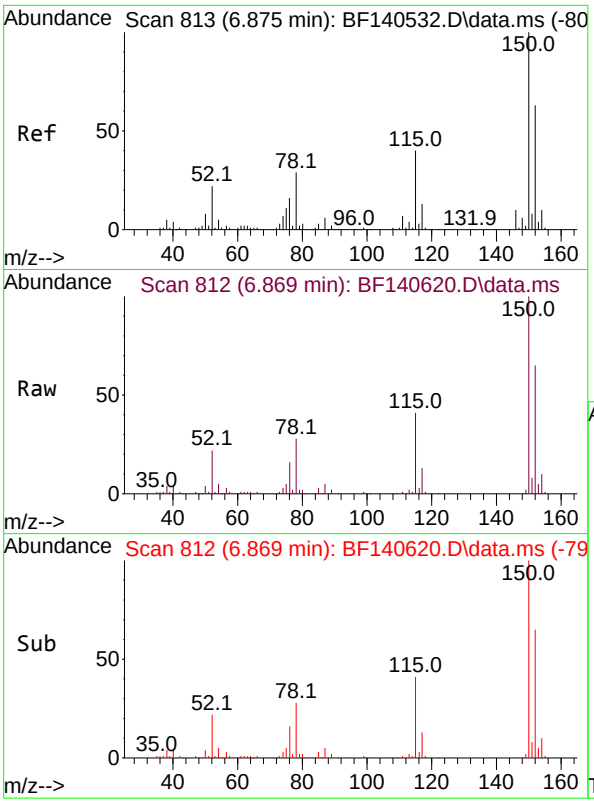
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

Quant Time: Nov 26 00:11:31 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



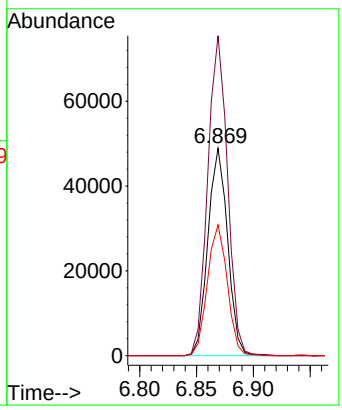


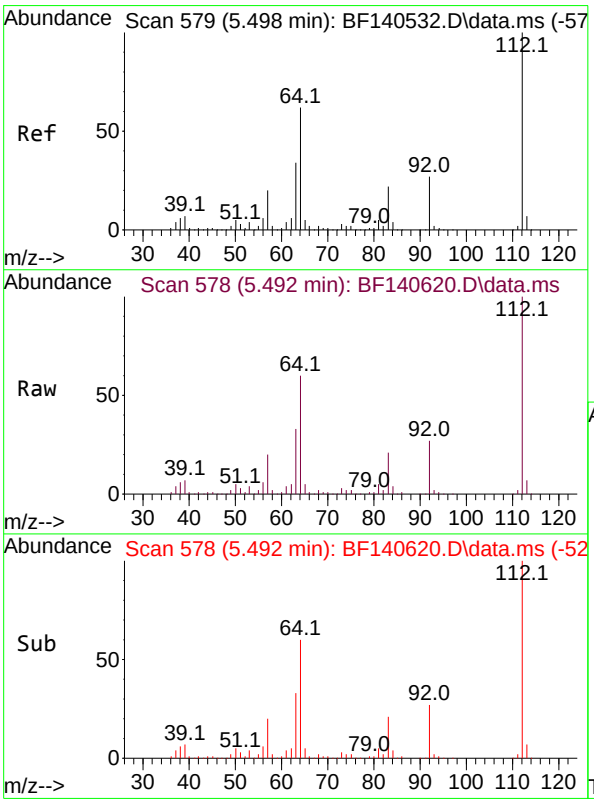

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

Tgt Ion:152 Resp: 59191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.3 | 128.5 | 192.7 |
| 115 | 63.0 | 50.2 | 75.4 |

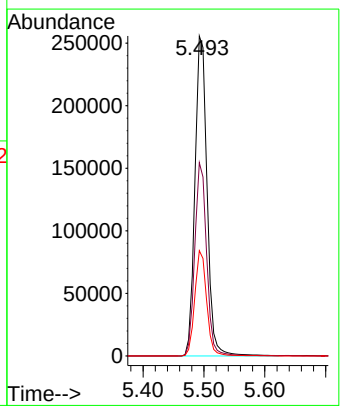


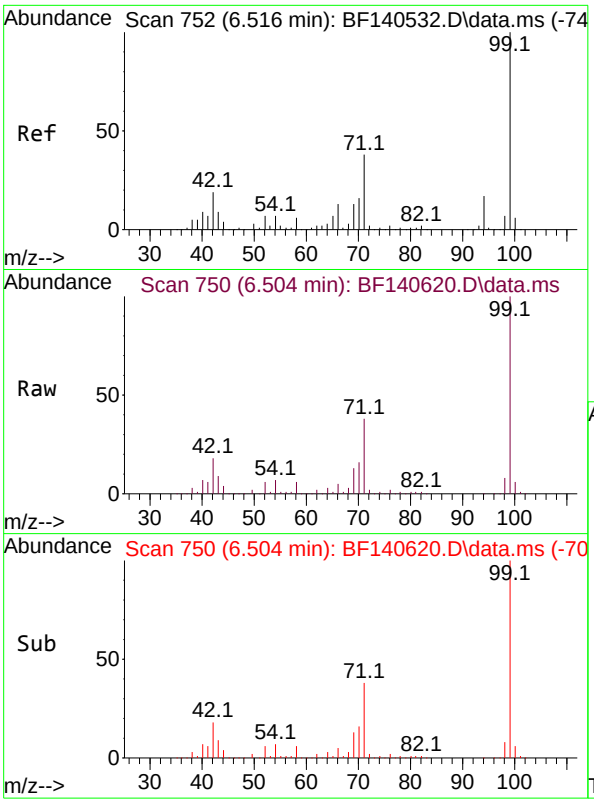




#5
2-Fluorophenol
Concen: 101.924 ng
RT: 5.492 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

Tgt Ion:112 Resp: 353591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 60.4 | 49.2 | 73.8 |
| 63 | 32.9 | 27.0 | 40.4 |



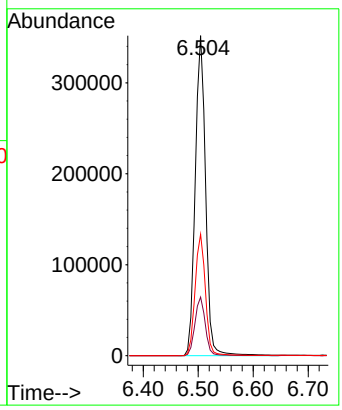


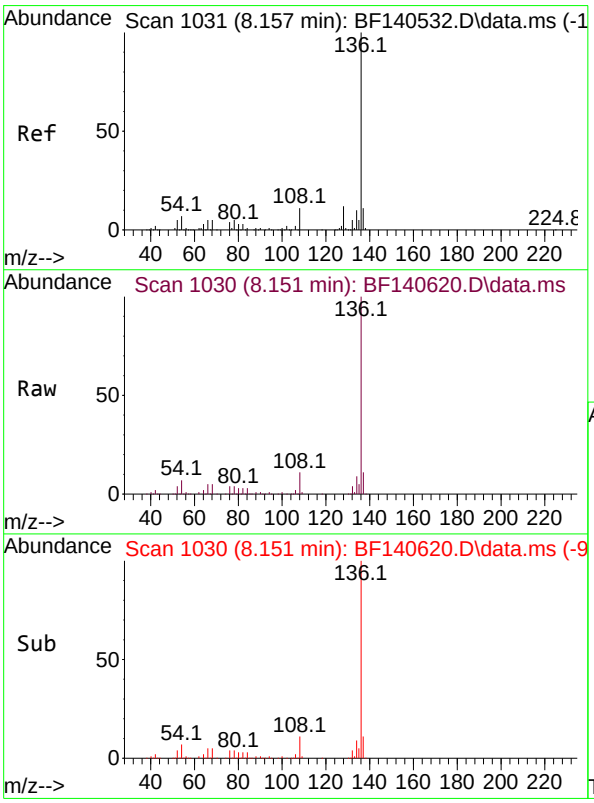

#7
Phenol-d6
Concen: 100.814 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

Tgt Ion: 99 Resp: 462361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.3 | 15.4 | 23.0 |
| 71 | 37.9 | 30.6 | 46.0 |

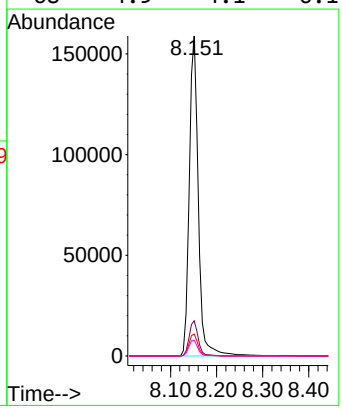


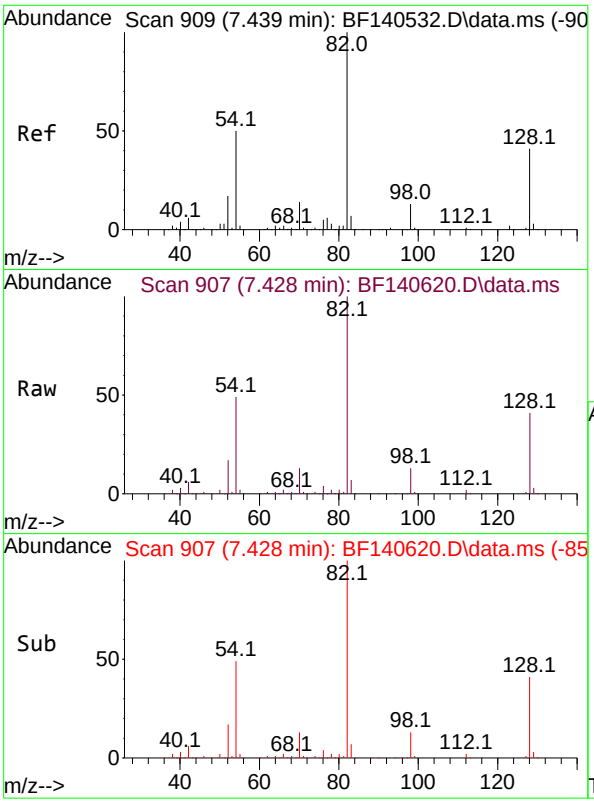




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

Tgt Ion:136 Resp: 215928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.6 | 13.0 |
| 54 | 6.8 | 5.8 | 8.8 |
| 68 | 4.9 | 4.1 | 6.1 |



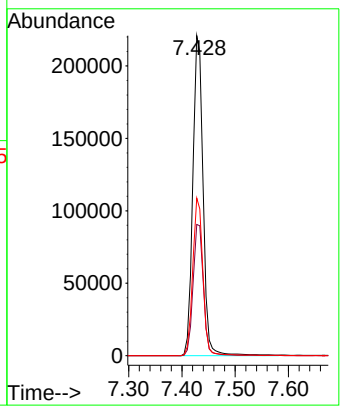


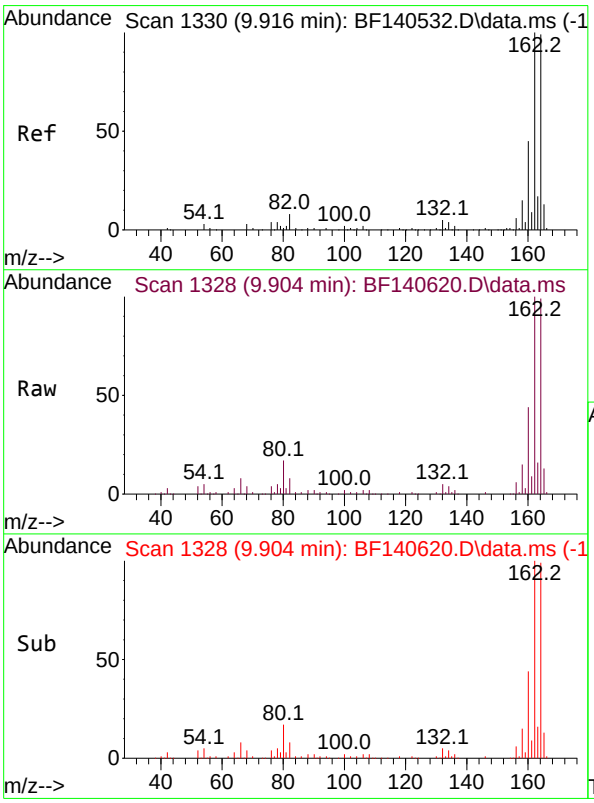

#23
Nitrobenzene-d5
Concen: 70.390 ng
RT: 7.428 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

Tgt Ion: 82 Resp: 297146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.0 | 33.0 | 49.4 |
| 54 | 49.2 | 39.5 | 59.3 |

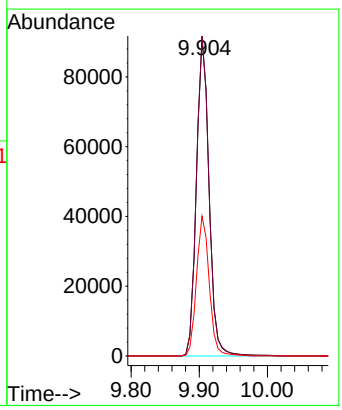


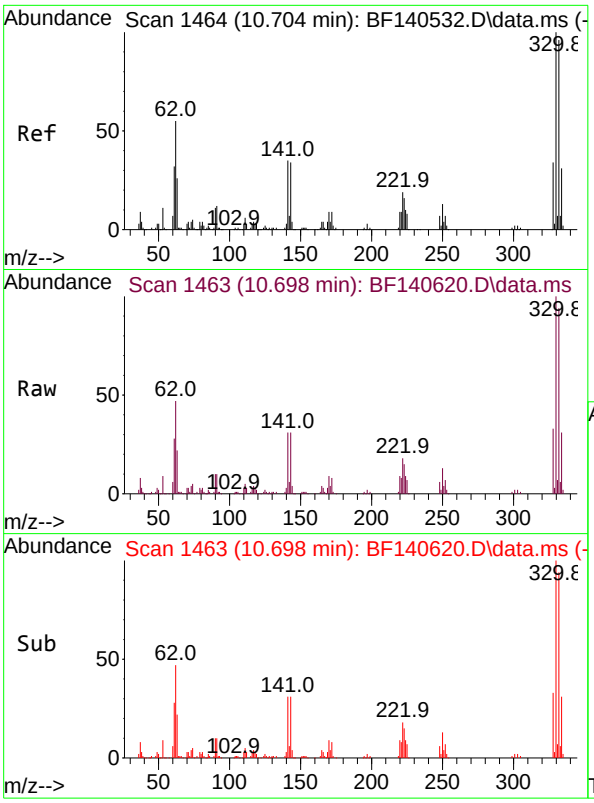




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

Tgt Ion:164 Resp: 117690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.8 | 80.6 | 120.8 |
| 160 | 44.1 | 36.2 | 54.4 |



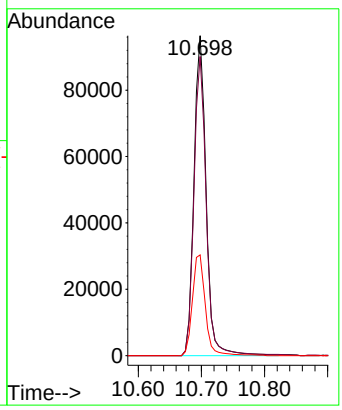


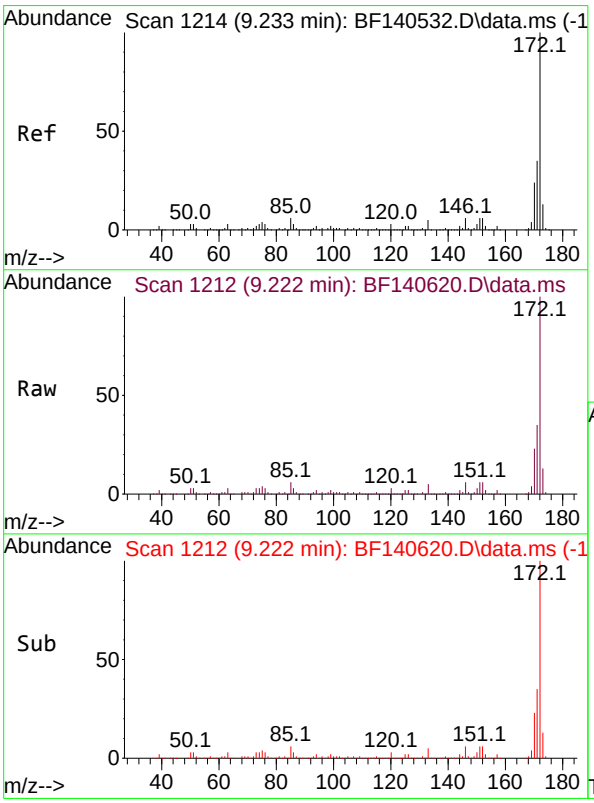

#42
2,4,6-Tribromophenol
Concen: 102.341 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

Tgt Ion:330 Resp: 128817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.1 | 76.9 | 115.3 |
| 141 | 33.6 | 26.7 | 40.1 |

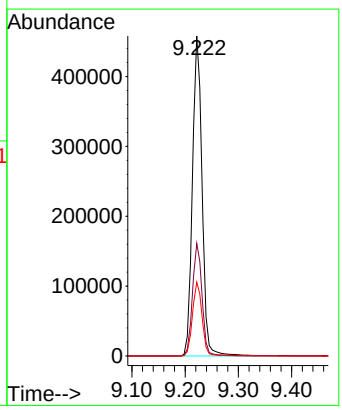


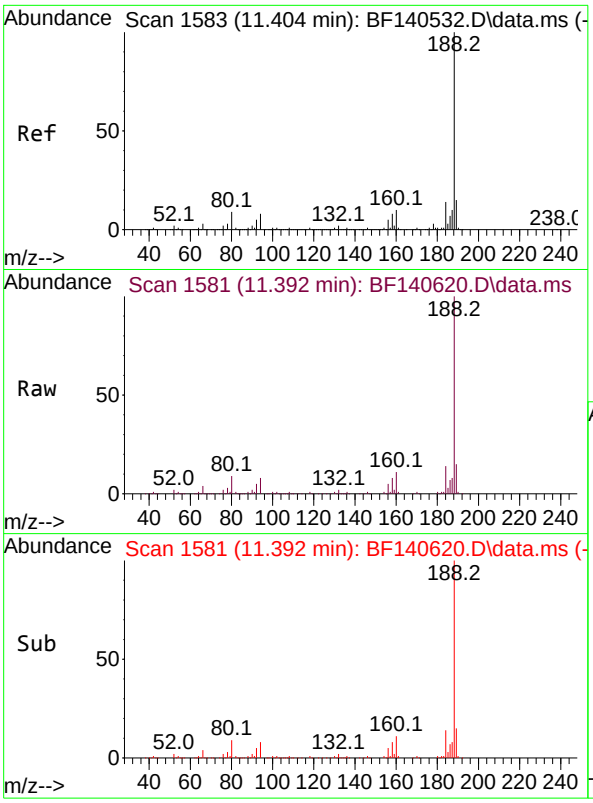




#45
2-Fluorobiphenyl
Concen: 73.245 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

Tgt Ion:172 Resp: 578560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.2 | 28.4 | 42.6 |
| 170 | 23.1 | 19.0 | 28.6 |



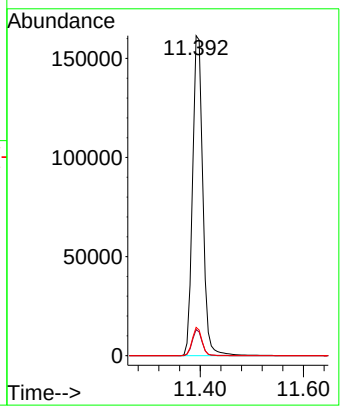


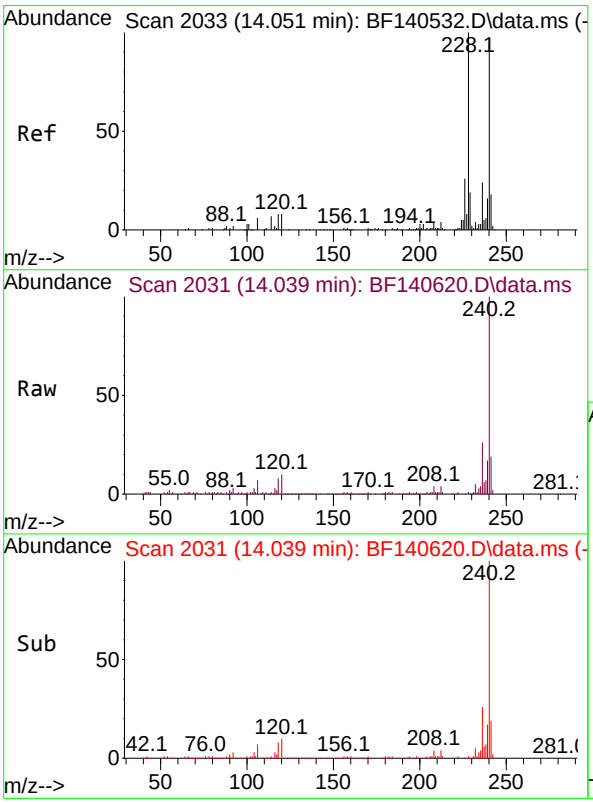

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

Tgt Ion:188 Resp: 222510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.1 | 6.4 | 9.6 |
| 80 | 8.8 | 6.9 | 10.3 |

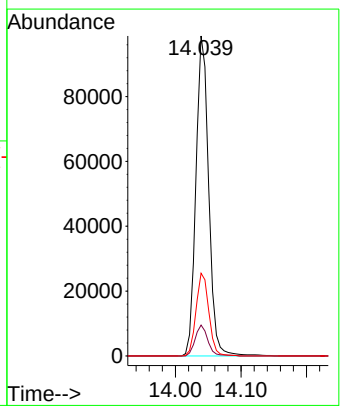


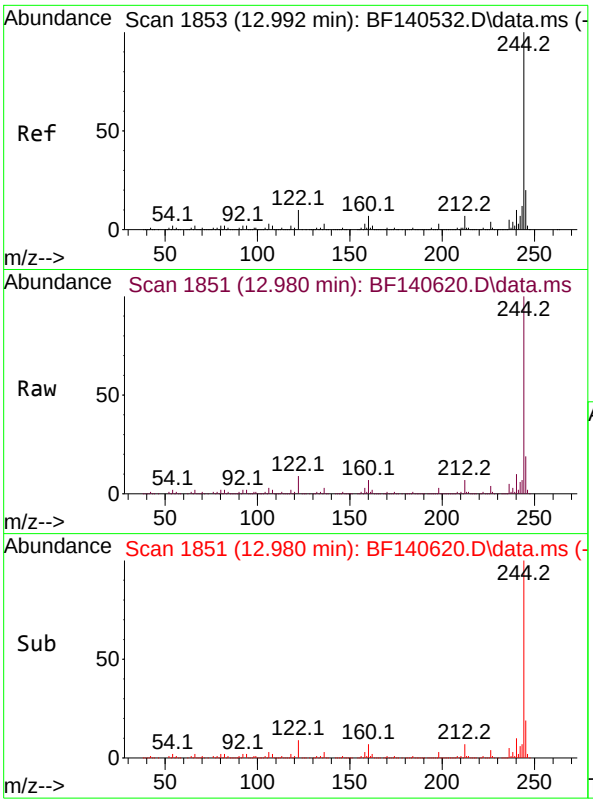




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

Tgt Ion:240 Resp: 134073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.7 | 7.3 | 10.9 |
| 236 | 25.8 | 20.6 | 31.0 |



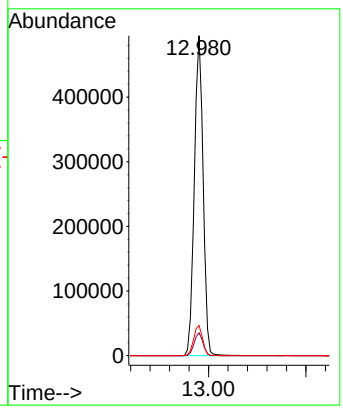


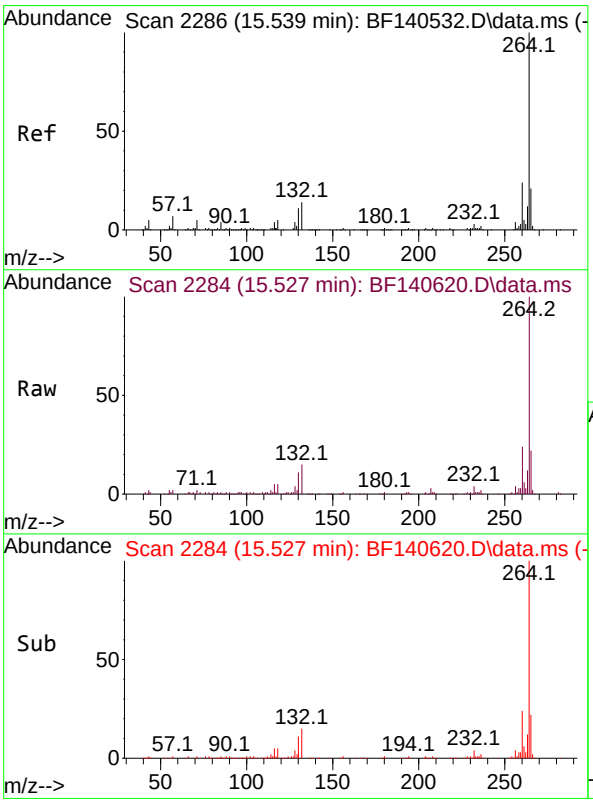

#79
Terphenyl-d14
Concen: 72.655 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

Tgt Ion:244 Resp: 625576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 5.8 | 8.8 |
| 122 | 9.5 | 8.0 | 12.0 |

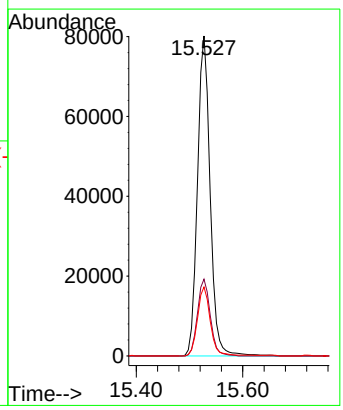



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. -0.012 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

Tgt Ion:264 Resp: 132029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.0 | 19.0 | 28.6 |
| 265 | 21.6 | 16.6 | 25.0 |



Sample Results: **BF140620.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

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: BF140620.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.087 | 504 | 509 | 520 | rVB | 22559 | 36099 | 2.20% | 0.339% |
| 2 | 5.493 | 573 | 578 | 600 | rVB | 924959 | 1254838 | 76.62% | 11.779% |
| 3 | 6.504 | 744 | 750 | 773 | rBV | 994270 | 1311890 | 80.10% | 12.314% |
| 4 | 6.869 | 807 | 812 | 821 | rVB | 288392 | 347691 | 21.23% | 3.264% |
| 5 | 7.428 | 902 | 907 | 920 | rBV | 630832 | 837662 | 51.15% | 7.863% |
| 6 | 8.151 | 1025 | 1030 | 1044 | rBV | 322172 | 428766 | 26.18% | 4.025% |
| 7 | 9.222 | 1207 | 1212 | 1223 | rBV | 1320324 | 1637791 | 100.00% | 15.373% |
| 8 | 9.904 | 1323 | 1328 | 1341 | rBV | 380756 | 484671 | 29.59% | 4.549% |
| 9 | 10.616 | 1444 | 1449 | 1457 | rBV | 78372 | 102573 | 6.26% | 0.963% |
| 10 | 10.698 | 1457 | 1463 | 1478 | rBV | 705269 | 967229 | 59.06% | 9.079% |
| 11 | 11.392 | 1576 | 1581 | 1590 | rBV | 385162 | 524003 | 31.99% | 4.919% |
| 12 | 11.916 | 1665 | 1670 | 1679 | rBV | 57249 | 96158 | 5.87% | 0.903% |
| 13 | 12.980 | 1845 | 1851 | 1856 | rBV | 1293919 | 1636377 | 99.91% | 15.360% |
| 14 | 13.545 | 1943 | 1947 | 1954 | rBV5 | 8211 | 17501 | 1.07% | 0.164% |
| 15 | 13.904 | 2000 | 2008 | 2021 | rBV6 | 22435 | 95499 | 5.83% | 0.896% |
| 16 | 14.010 | 2022 | 2026 | 2027 | rVV | 25739 | 30634 | 1.87% | 0.288% |
| 17 | 14.039 | 2027 | 2031 | 2048 | rVB | 277010 | 387992 | 23.69% | 3.642% |
| 18 | 14.880 | 2170 | 2174 | 2181 | rVB | 34165 | 47016 | 2.87% | 0.441% |
| 19 | 15.145 | 2216 | 2219 | 2225 | rVB | 14813 | 20609 | 1.26% | 0.193% |
| 20 | 15.527 | 2278 | 2284 | 2293 | rBV | 217145 | 348691 | 21.29% | 3.273% |
| 21 | 16.427 | 2433 | 2437 | 2445 | rBV8 | 21896 | 39657 | 2.42% | 0.372% |

Sum of corrected areas: 10653347

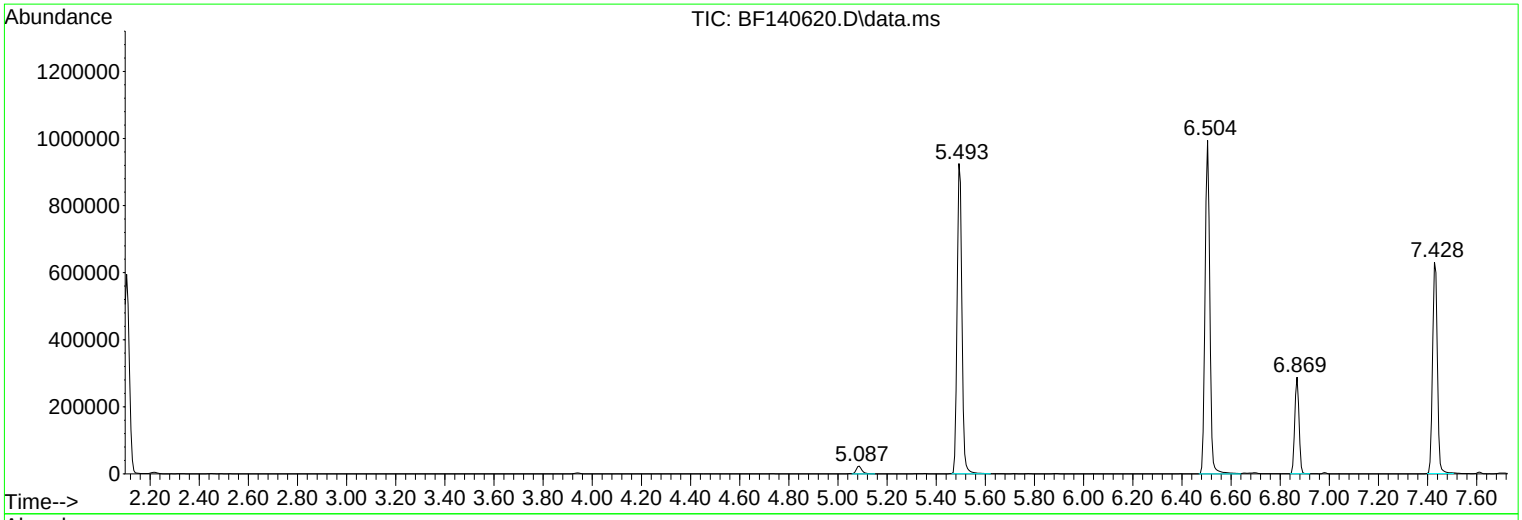
Sample Results: **BF140620.D**

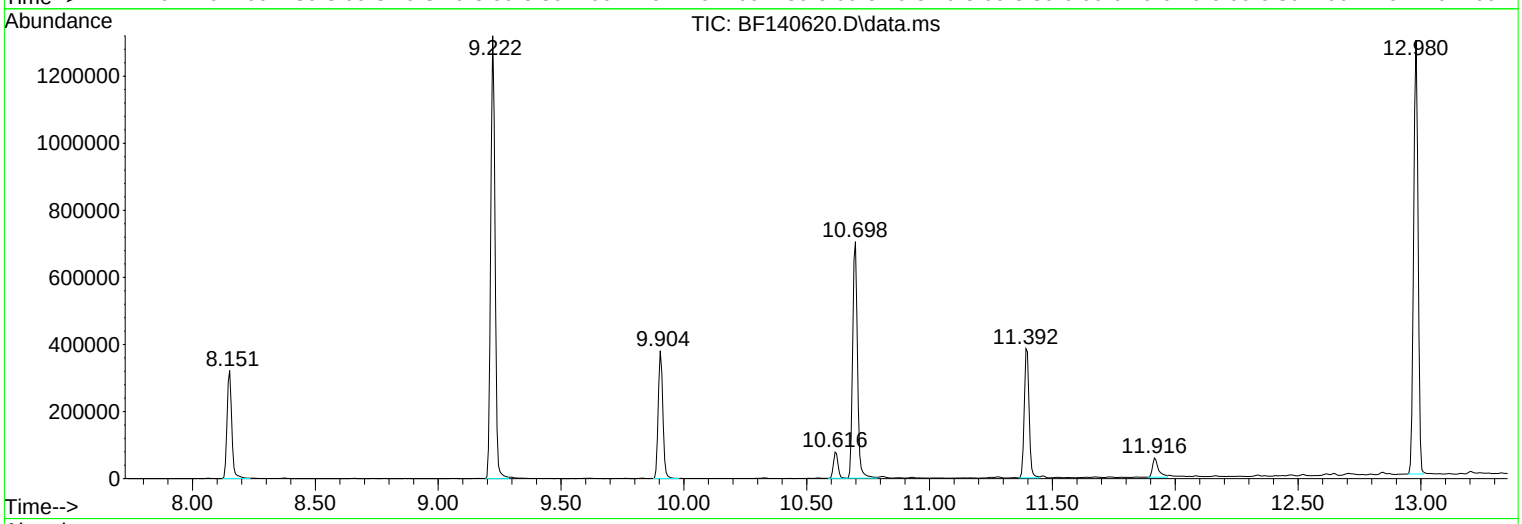
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

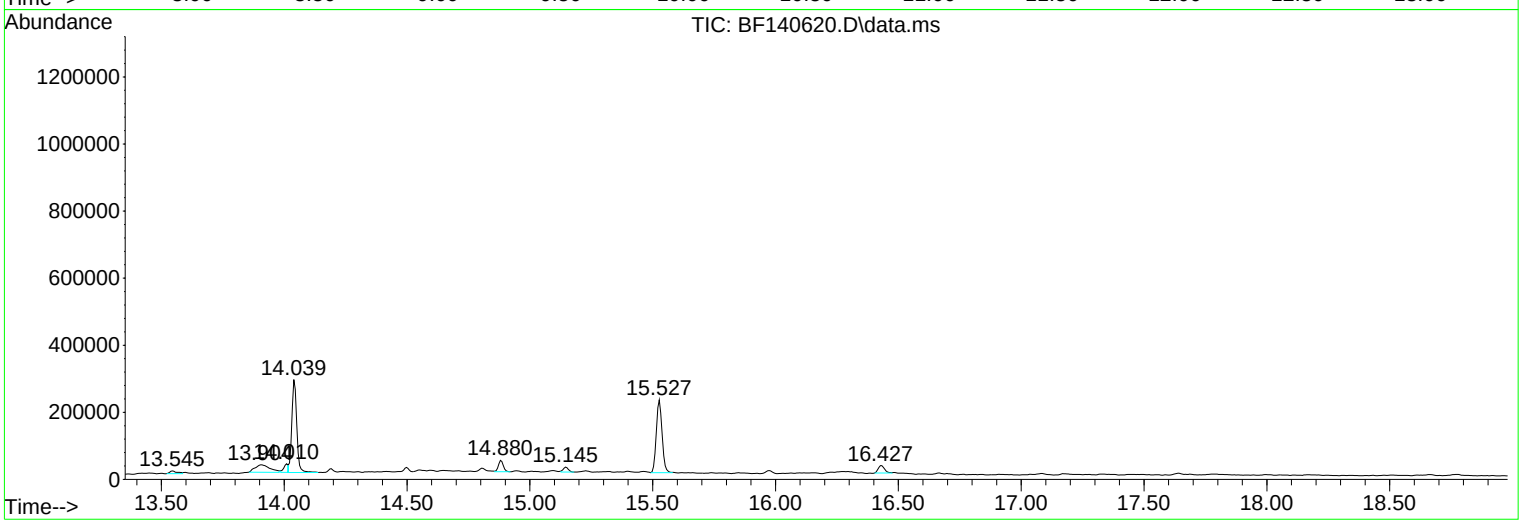
**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

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 : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

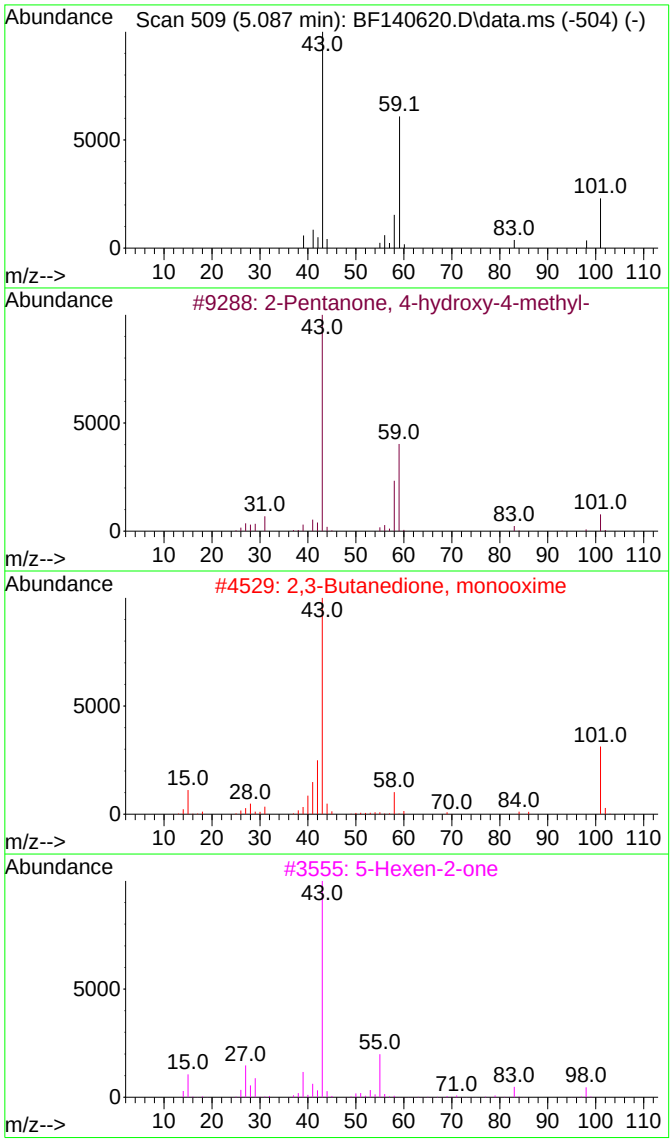
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

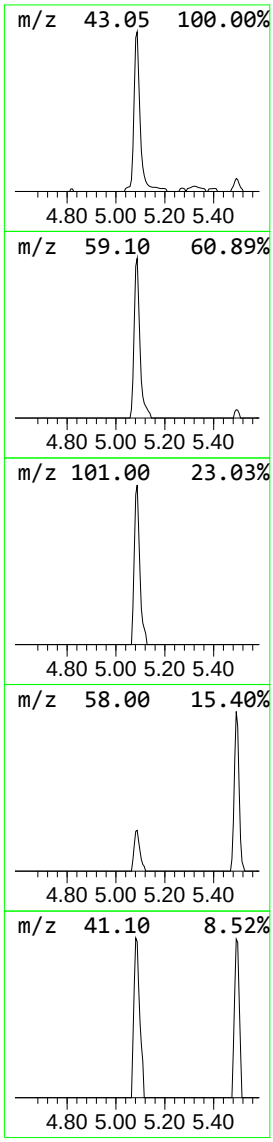
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.087 | 2.08 ng | 36099 | 1,4-Dichlorobenzene-d4 | 6.869 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 32 |
| 3 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |
| 4 | 3-Octanol | 130 | C8H18O | 000589-98-0 | 9 |
| 5 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 9 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

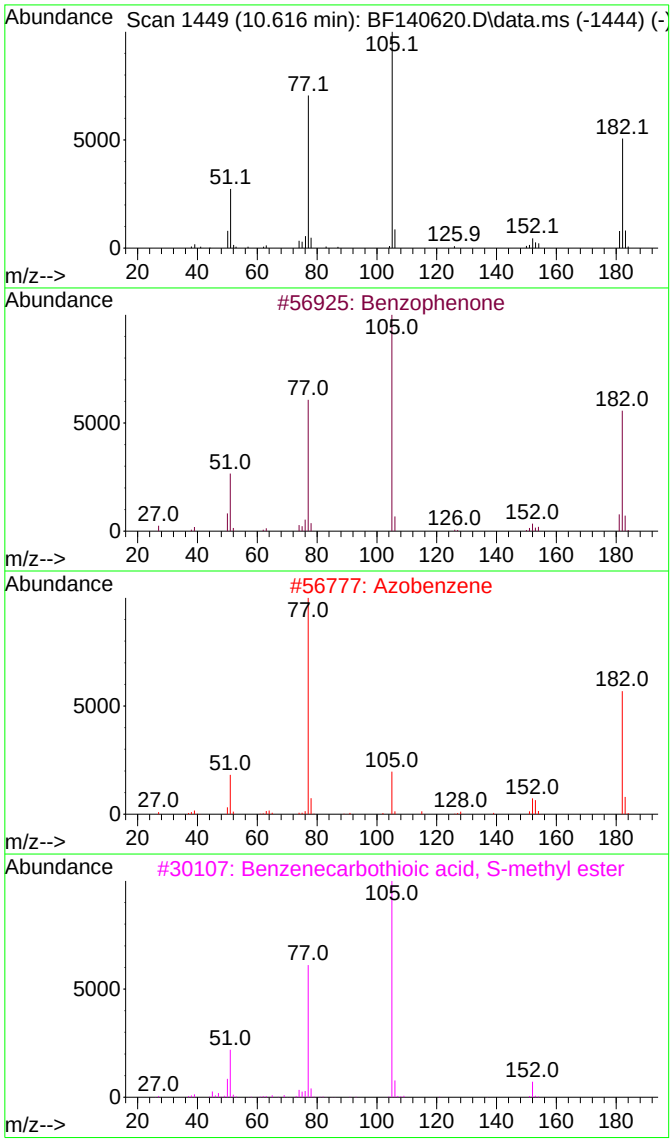
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

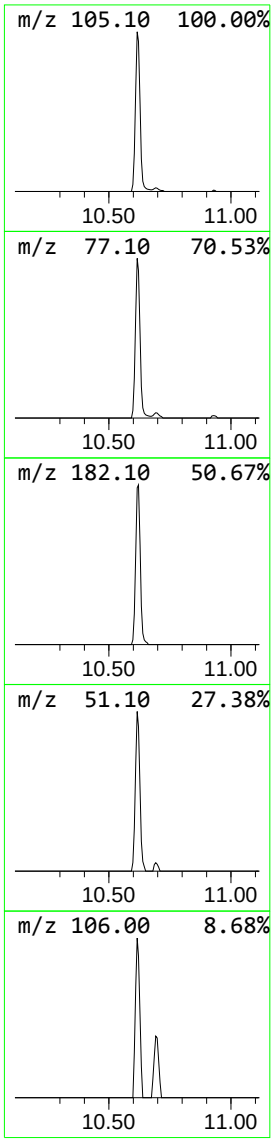
**********

Peak Number 2 Benzophenone Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.616 | 4.23 ng | 102573 | Acenaphthene-d10 | 9.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 96 |
| 2 | Azobenzene | 182 | C12H10N2 | 000103-33-3 | 59 |
| 3 | Benzenecarbothioic acid, S-methy... | 152 | C8H8OS | 005925-68-8 | 52 |
| 4 | 2-Phenyl-4-ethylidene-2-oxazolin... | 187 | C11H9NO2 | 037791-41-6 | 47 |
| 5 | N-Methylbenzamide, N-pentafluoro... | 281 | C11H8F5NO2 | 1000446-98-1 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

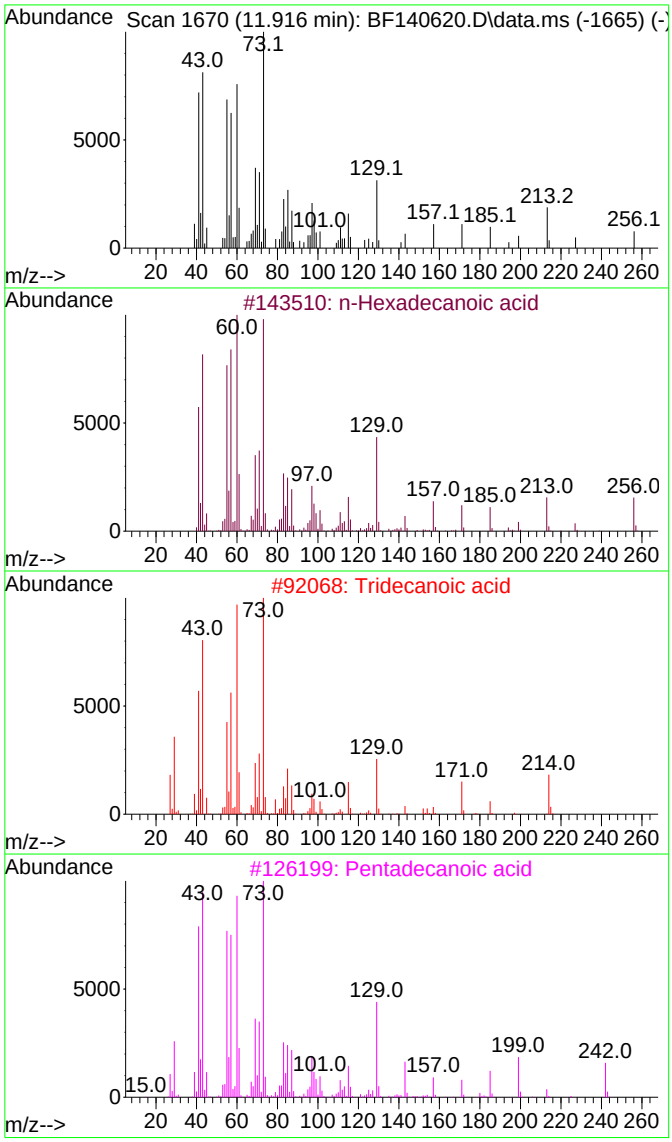
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

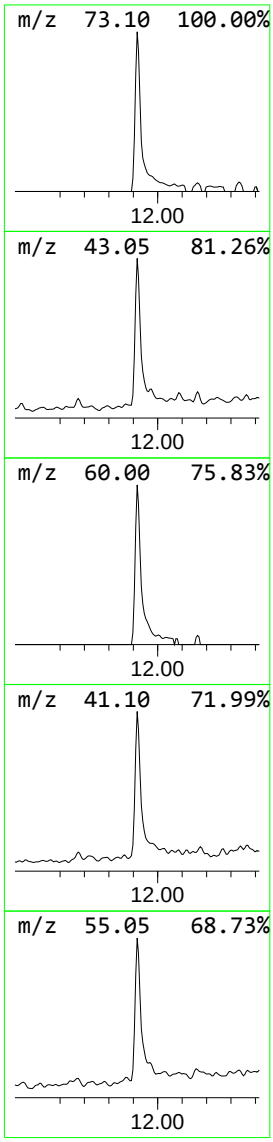
**********

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.916 | 3.67 ng | 96158 | Phenanthrene-d10 | 11.392 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 97 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 90 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 83 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 64 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 49 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

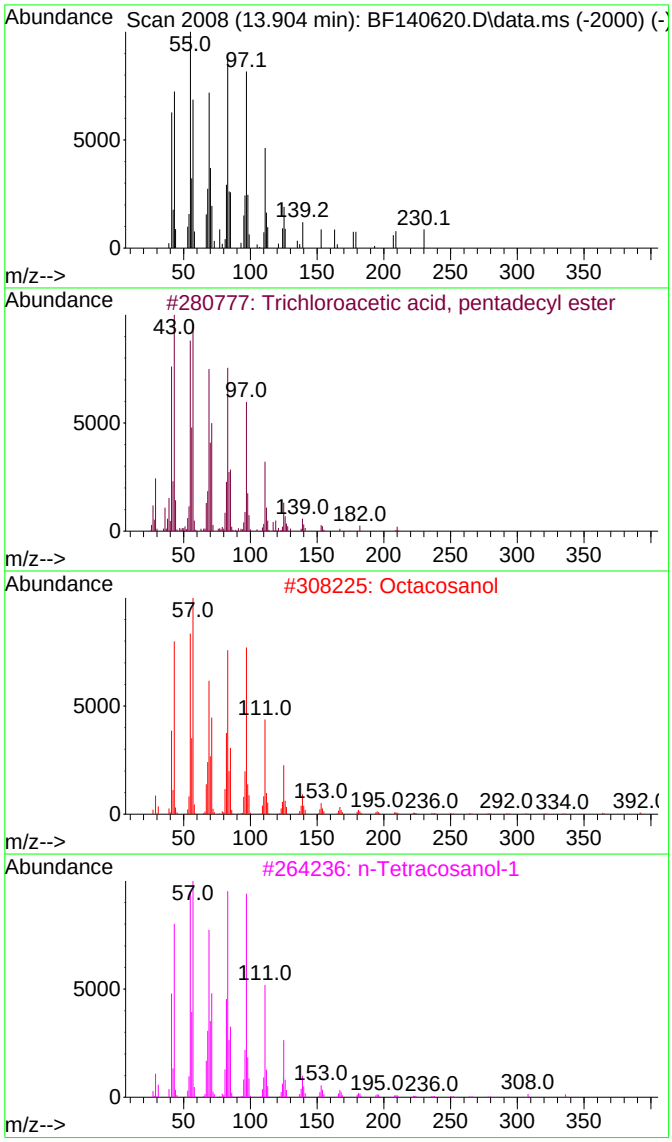
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

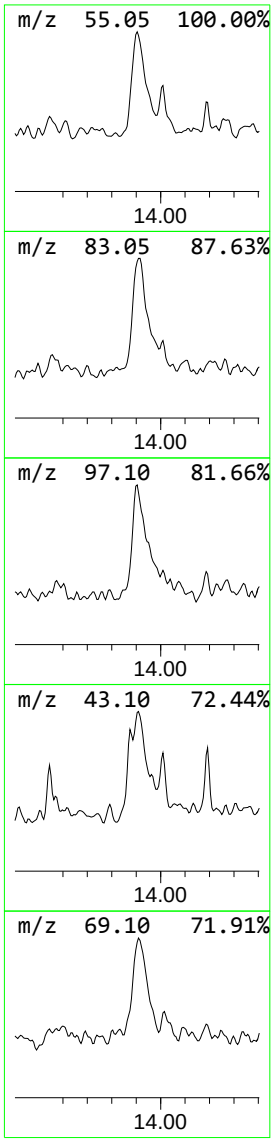
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 Trichloroacetic acid, penta... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.904 | 4.92 ng | 95499 | Chrysene-d12 | 14.039 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 90 |
| 2 | Octacosanol | 410 | C28H58O | 000557-61-9 | 87 |
| 3 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 87 |
| 4 | 1-Tetracosene | 336 | C24H48 | 010192-32-2 | 87 |
| 5 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 87 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

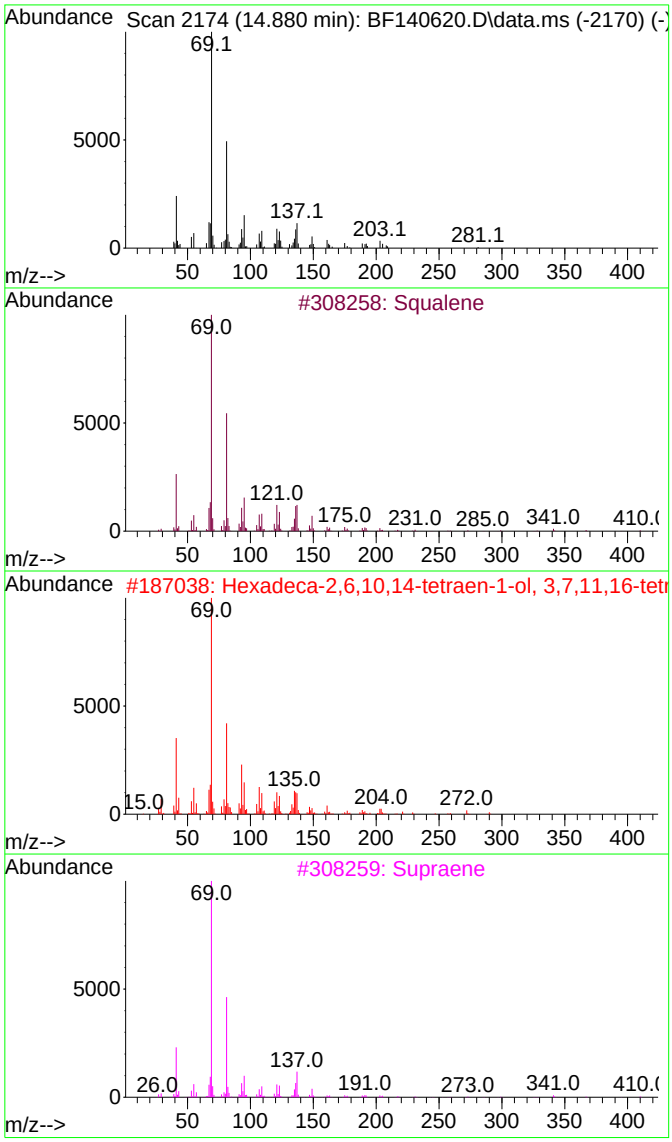
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

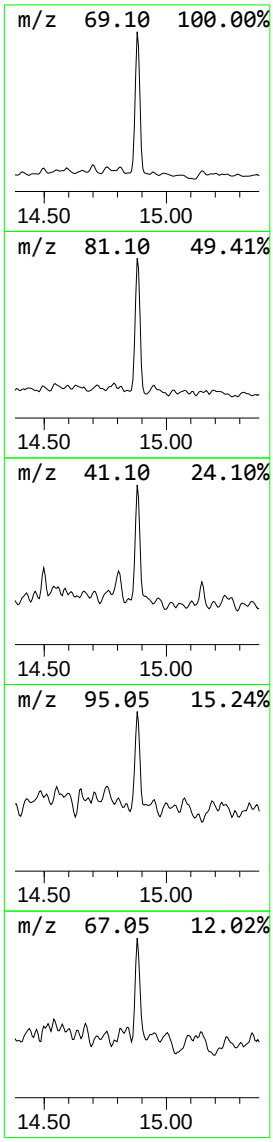
**********

Peak Number 5 Squalene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.880 | 2.70 ng | 47016 | Perylene-d12 | 15.527 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Squalene | 410 | C30H50 | 000111-02-4 | 90 |
| 2 | Hexadeca-2,6,10,14-tetraen-1-ol,... | 290 | C20H34O | 007614-21-3 | 83 |
| 3 | Supraene | 410 | C30H50 | 007683-64-9 | 83 |
| 4 | trans-Farnesol | 222 | C15H26O | 000106-28-5 | 72 |
| 5 | 1,5,9-Undecatriene, 2,6,10-trime... | 192 | C14H24 | 062951-96-6 | 68 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

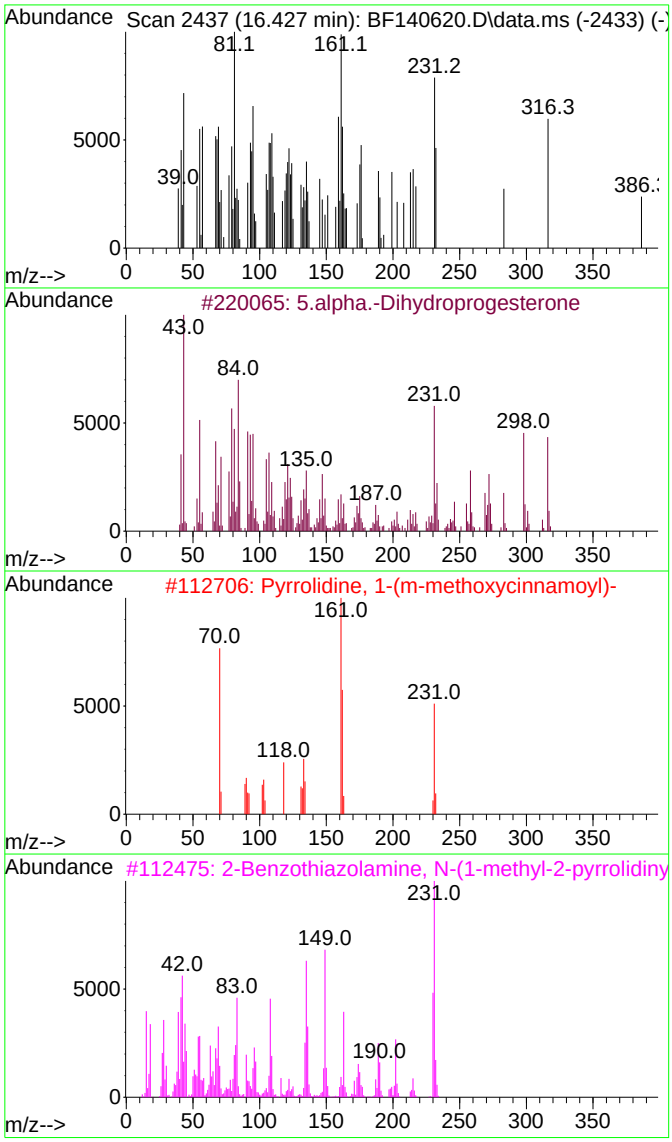
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

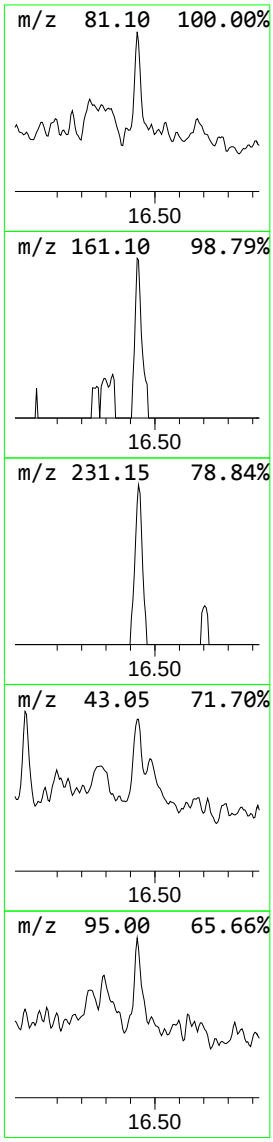
**********

Peak Number 6 unknown16.427 Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.427 | 2.27 ng | 39657 | Perylene-d12 | 15.527 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5.alpha.-Dihydroprogesterone | 316 | C21H32O2 | 000566-65-4 | 47 |
| 2 | Pyrrolidine, 1-(m-methoxycinnamo... | 231 | C14H17NO2 | 029647-01-6 | 35 |
| 3 | 2-Benzothiazolamine, N-(1-methyl... | 231 | C12H13N3S | 084859-07-4 | 25 |
| 4 | Pregn-5-en-20-one, 3-hydroxy- | 316 | C21H32O2 | 038372-24-6 | 25 |
| 5 | 4-Methyl-2-(3-methyl-but-2-enyli... | 176 | C11H16N2 | 1000185-91-3 | 18 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-003

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 |
| 2-Pentanone, 4-... | 5.087 | 2.1 | ng | 36099 | 1 | 6.869 | 347691 | 20.0 |
| Benzophenone | 10.616 | 4.2 | ng | 102573 | 3 | 9.904 | 484671 | 20.0 |
| n-Hexadecanoic ... | 11.916 | 3.7 | ng | 96158 | 4 | 11.392 | 524003 | 20.0 |
| Trichloroacetic... | 13.904 | 4.9 | ng | 95499 | 5 | 14.039 | 387992 | 20.0 |
| Squalene | 14.880 | 2.7 | ng | 47016 | 6 | 15.527 | 348691 | 20.0 |
| unknown16.427 | 16.427 | 2.3 | ng | 39657 | 6 | 15.527 | 348691 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140579.D
Acq On : 22 Nov 2024 15:58
Operator : RC/JU
Sample : P4860-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-004

Quant Time: Nov 22 16:39:28 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

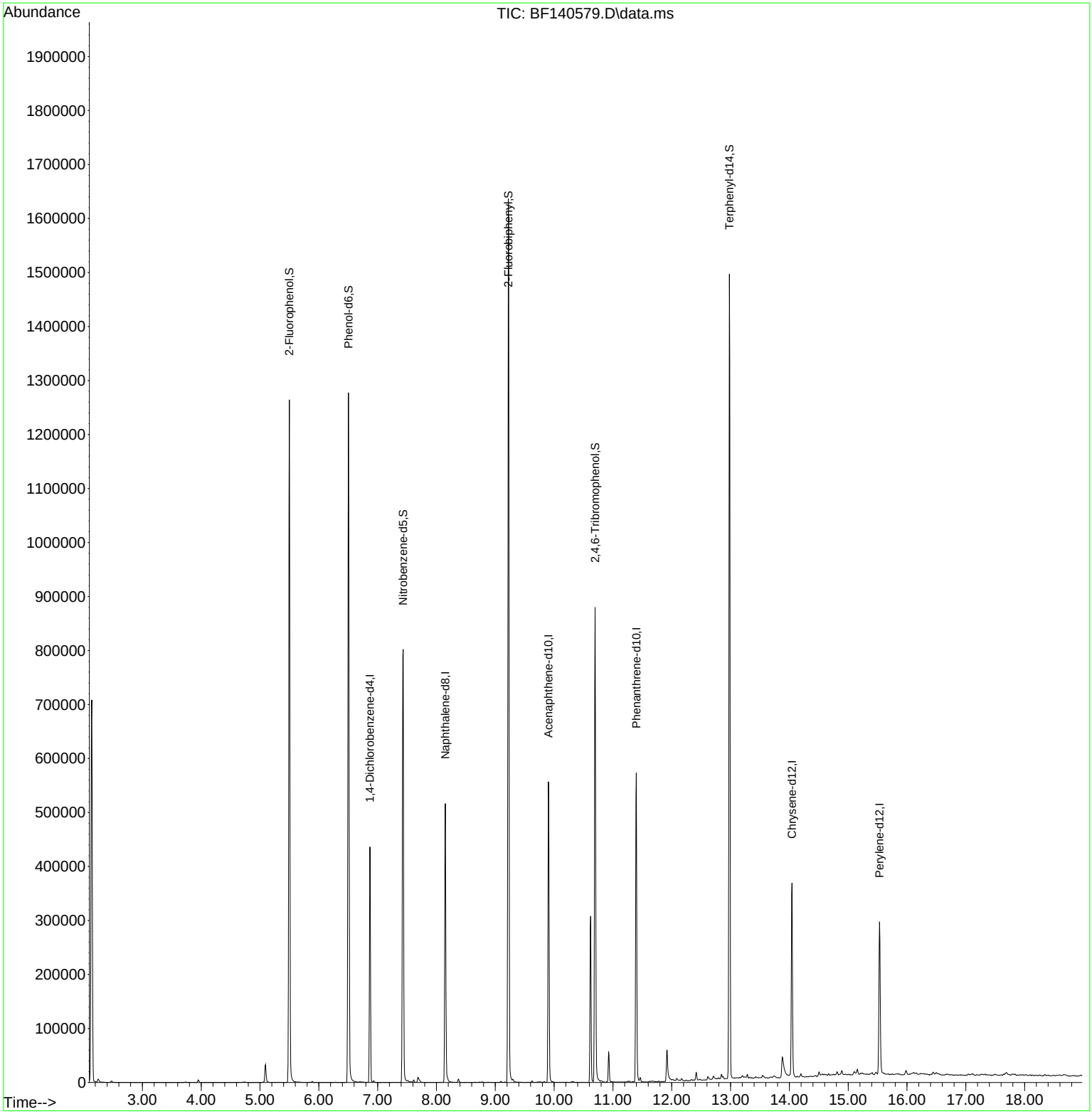
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.869 | 152 | 90927 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.151 | 136 | 332795 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.904 | 164 | 173346 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.398 | 188 | 323538 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.045 | 240 | 178379 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.533 | 264 | 173467 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.498 | 112 | 465203 | 87.293 | ng | 0.00 |
| 7) Phenol-d6 | 6.504 | 99 | 595143 | 84.474 | ng | -0.01 |
| 23) Nitrobenzene-d5 | 7.433 | 82 | 386935 | 59.472 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.698 | 330 | 152697 | 82.363 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 740960 | 63.687 | ng | -0.01 |
| 79) Terphenyl-d14 | 12.980 | 244 | 728599 | 63.602 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |

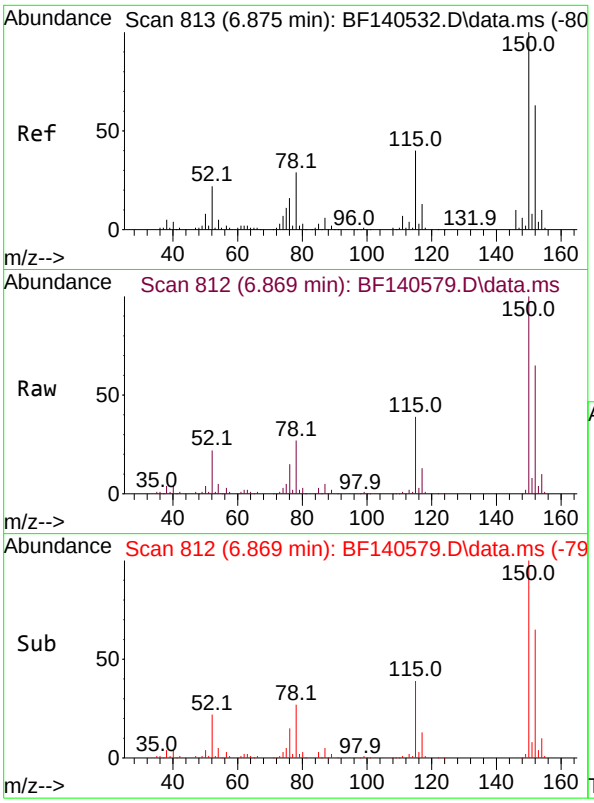
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140579.D
Acq On : 22 Nov 2024 15:58
Operator : RC/JU
Sample : P4860-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-004

Quant Time: Nov 22 16:39:28 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



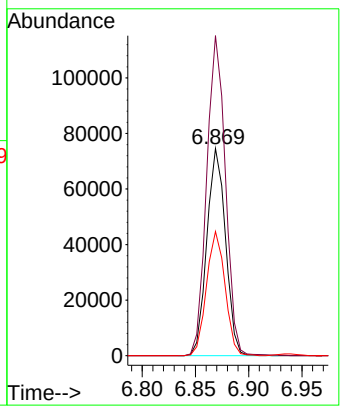


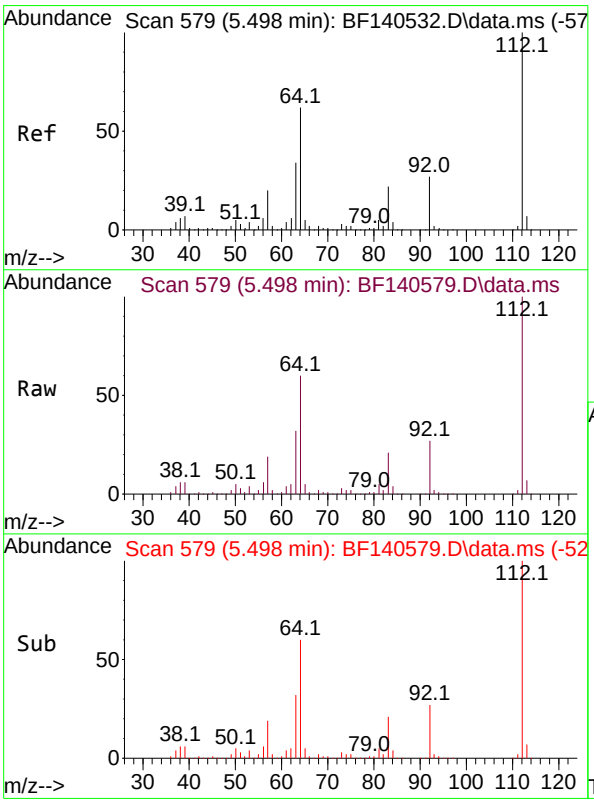

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140579.D
Acq: 22 Nov 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-004

Tgt Ion:152 Resp: 90927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.4 | 128.5 | 192.7 |
| 115 | 59.9 | 50.2 | 75.4 |

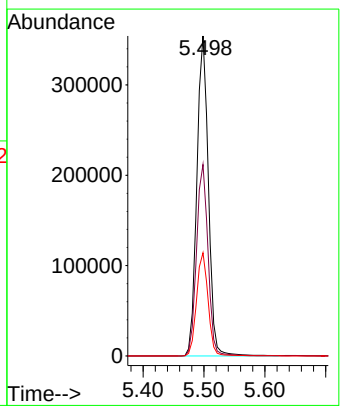


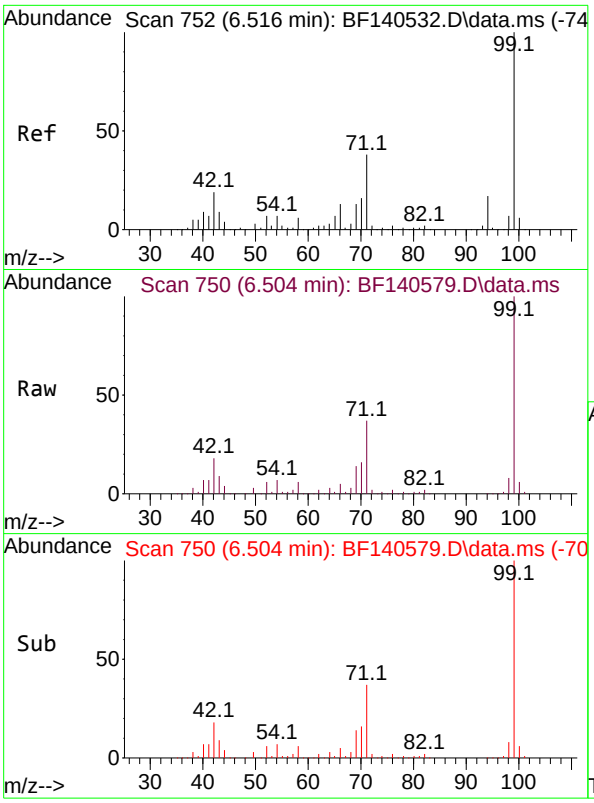




#5
2-Fluorophenol
Concen: 87.293 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF140579.D
Acq: 22 Nov 2024 15:58

Tgt Ion:112 Resp: 465203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 59.9 | 49.2 | 73.8 |
| 63 | 32.2 | 27.0 | 40.4 |



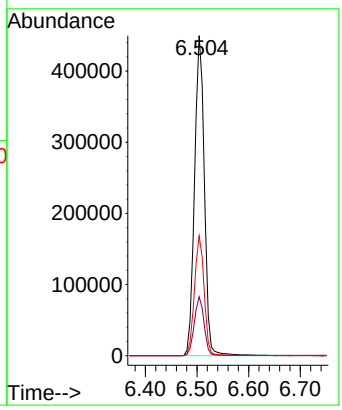


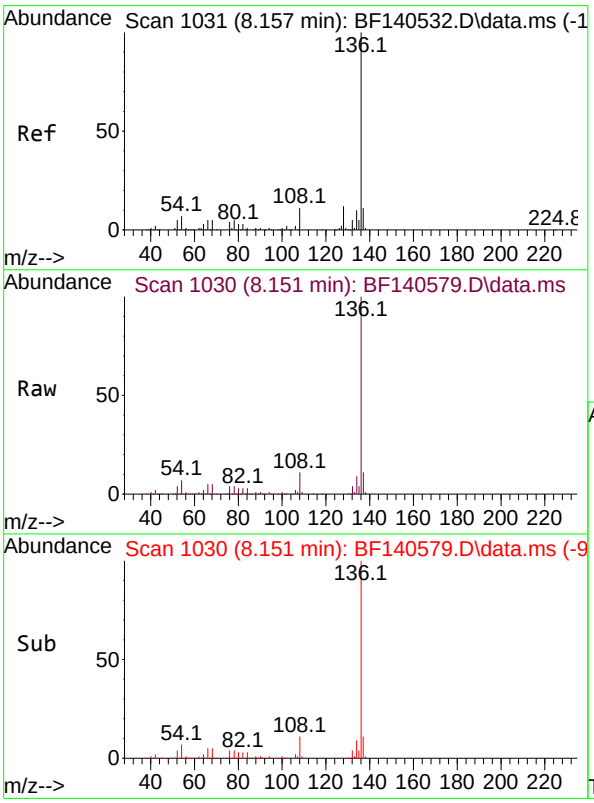

#7
Phenol-d6
Concen: 84.474 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140579.D
Acq: 22 Nov 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-004

Tgt Ion: 99 Resp: 595143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.4 | 15.4 | 23.0 |
| 71 | 37.5 | 30.6 | 46.0 |

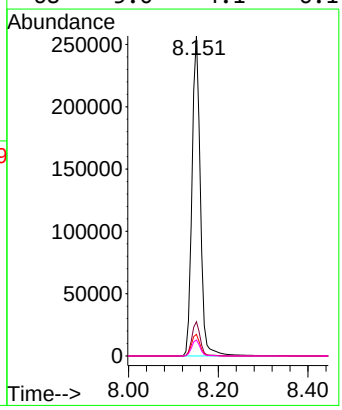


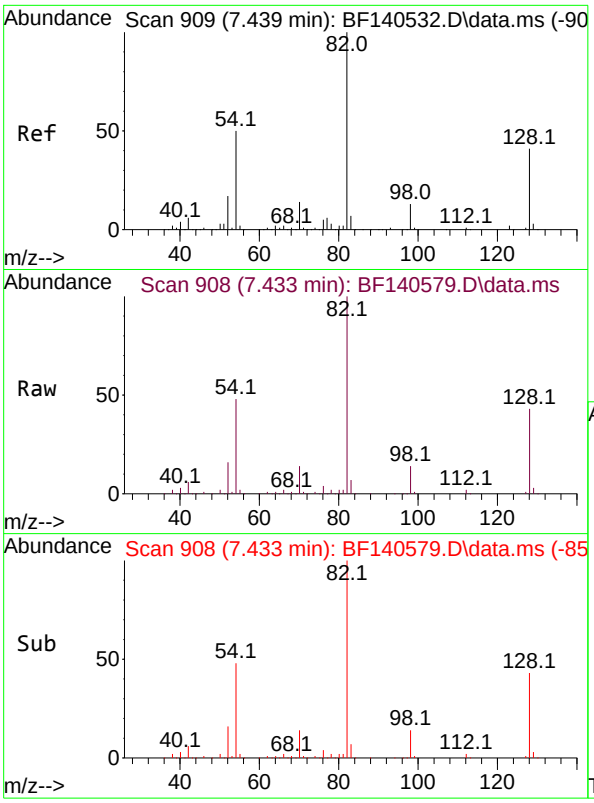




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140579.D
Acq: 22 Nov 2024 15:58

Tgt Ion:136 Resp: 332795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.7 | 8.6 | 13.0 |
| 54 | 6.7 | 5.8 | 8.8 |
| 68 | 5.0 | 4.1 | 6.1 |



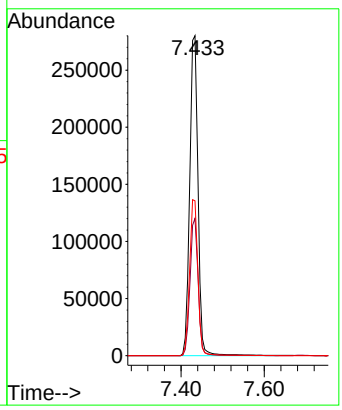


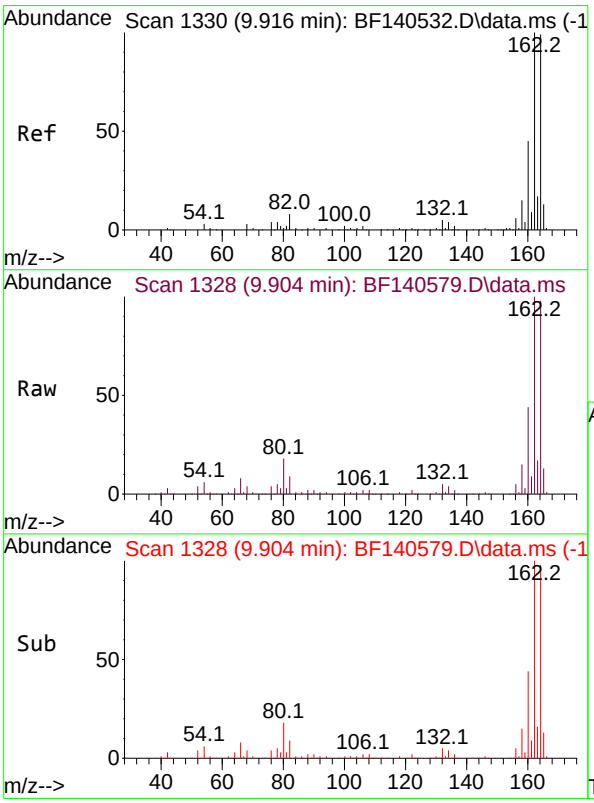

#23
Nitrobenzene-d5
Concen: 59.472 ng
RT: 7.433 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140579.D
Acq: 22 Nov 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-004

Tgt Ion: 82 Resp: 386935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.9 | 33.0 | 49.4 |
| 54 | 48.4 | 39.5 | 59.3 |

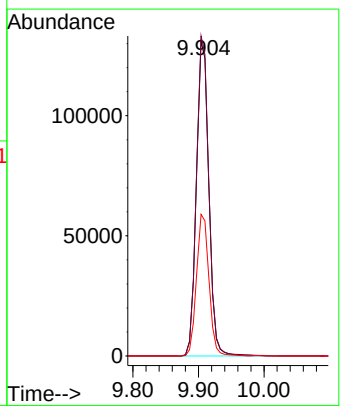


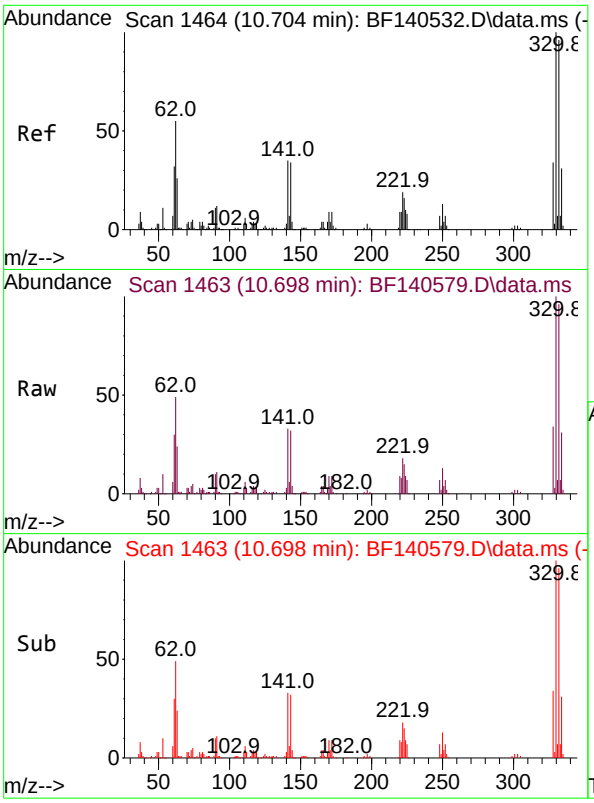




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140579.D
Acq: 22 Nov 2024 15:58

Tgt Ion:164 Resp: 173346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.7 | 80.6 | 120.8 |
| 160 | 45.0 | 36.2 | 54.4 |



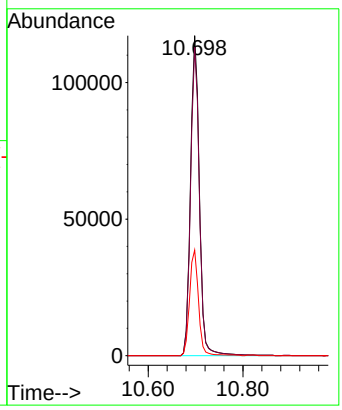


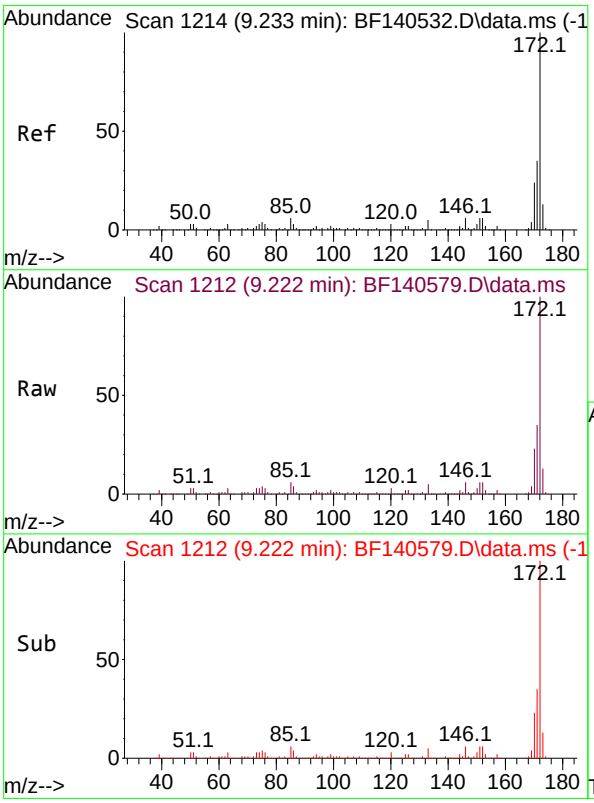

#42
2,4,6-Tribromophenol
Concen: 82.363 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140579.D
Acq: 22 Nov 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-004

Tgt Ion:330 Resp: 152697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.2 | 76.9 | 115.3 |
| 141 | 33.3 | 26.7 | 40.1 |

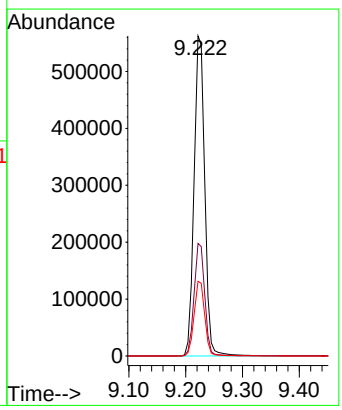


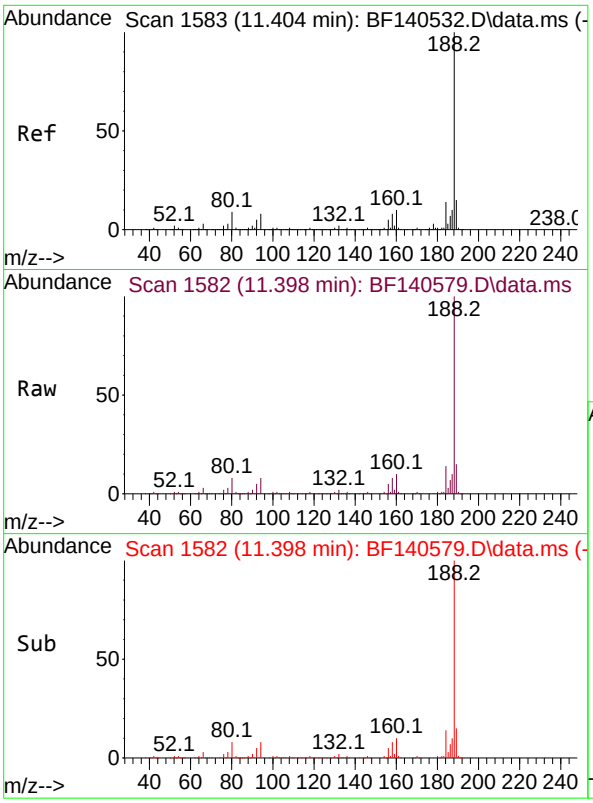




#45
2-Fluorobiphenyl
Concen: 63.687 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140579.D
Acq: 22 Nov 2024 15:58

Tgt Ion:172 Resp: 740960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.1 | 28.4 | 42.6 |
| 170 | 23.4 | 19.0 | 28.6 |



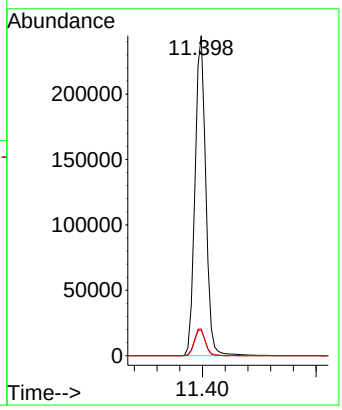


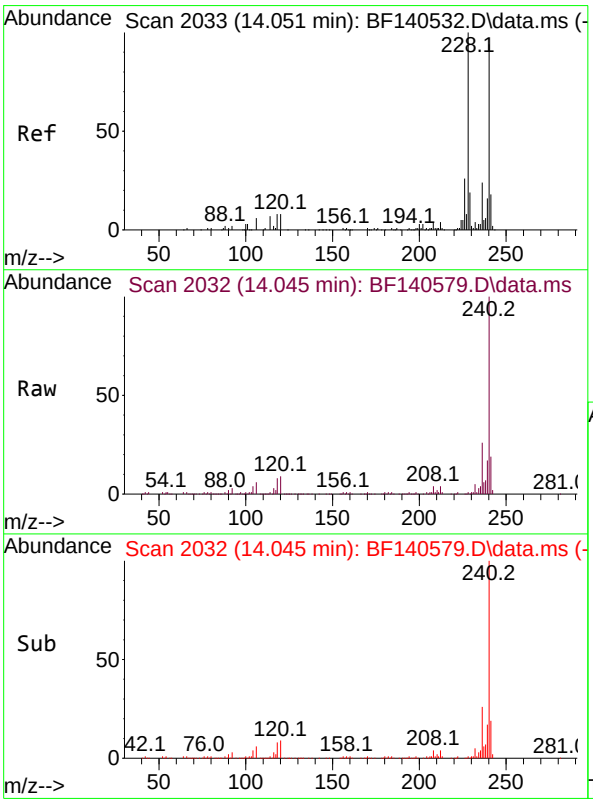

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140579.D
Acq: 22 Nov 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-004

Tgt Ion:188 Resp: 323538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.1 | 6.4 | 9.6 |
| 80 | 8.4 | 6.9 | 10.3 |

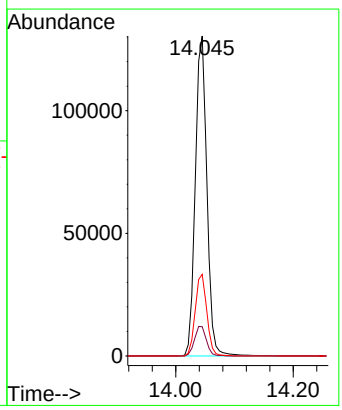


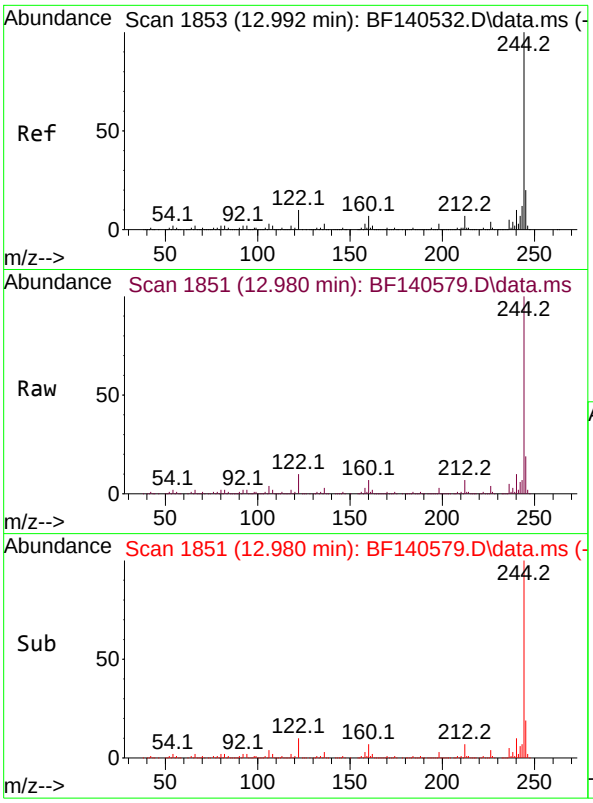




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140579.D
Acq: 22 Nov 2024 15:58

Tgt Ion:240 Resp: 178379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.2 | 7.3 | 10.9 |
| 236 | 25.5 | 20.6 | 31.0 |



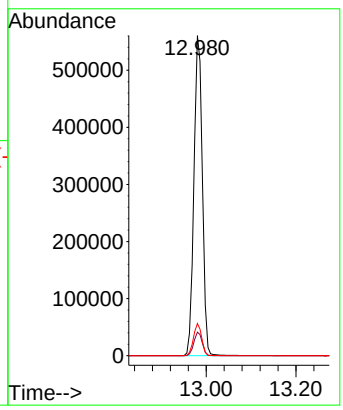


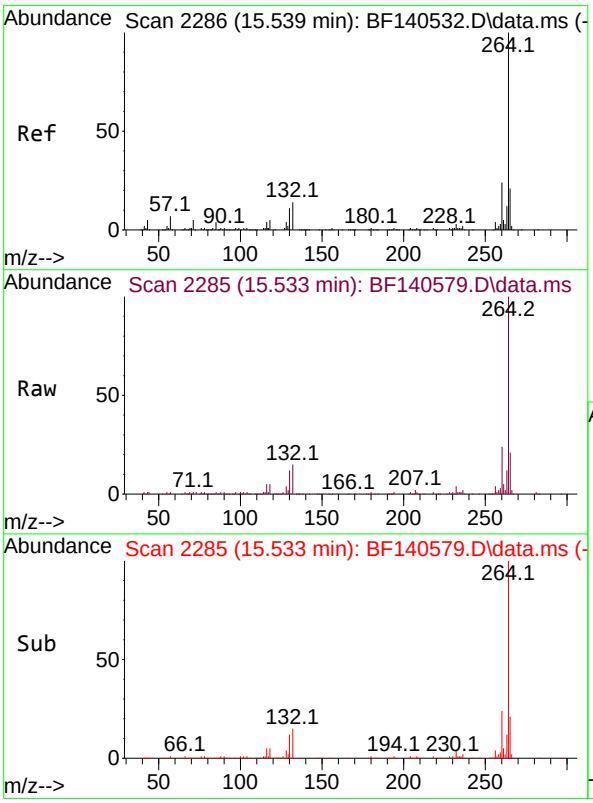

#79
Terphenyl-d14
Concen: 63.602 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140579.D
Acq: 22 Nov 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-004

Tgt Ion:244 Resp: 728599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.4 | 5.8 | 8.8 |
| 122 | 10.1 | 8.0 | 12.0 |

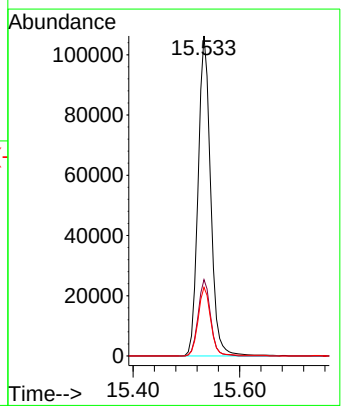



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2285
Delta R.T. -0.006 min
Lab File: BF140579.D
Acq: 22 Nov 2024 15:58

Tgt Ion:264 Resp: 173467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.9 | 19.0 | 28.6 |
| 265 | 21.5 | 16.6 | 25.0 |



Sample Results: **BF140579.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140579.D
Acq On : 22 Nov 2024 15:58
Operator : RC/JU
Sample : P4860-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-004

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: BF140579.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.140 | 3 | 8 | 20 | rVB | 707599 | 1103213 | 52.21% | 7.313% |
| 2 | 5.092 | 505 | 510 | 528 | rVB | 32758 | 51929 | 2.46% | 0.344% |
| 3 | 5.498 | 573 | 579 | 595 | rBV | 1264340 | 1653146 | 78.23% | 10.959% |
| 4 | 6.504 | 744 | 750 | 775 | rBV | 1277387 | 1701092 | 80.50% | 11.277% |
| 5 | 6.869 | 807 | 812 | 817 | rBV | 436223 | 527129 | 24.95% | 3.494% |
| 6 | 7.433 | 902 | 908 | 918 | rBV | 802147 | 1091626 | 51.66% | 7.237% |
| 7 | 8.151 | 1025 | 1030 | 1043 | rBV | 516142 | 661196 | 31.29% | 4.383% |
| 8 | 9.222 | 1207 | 1212 | 1223 | rBV | 1636169 | 2113056 | 100.00% | 14.008% |
| 9 | 9.904 | 1323 | 1328 | 1338 | rBV | 556974 | 727216 | 34.42% | 4.821% |
| 10 | 10.622 | 1445 | 1450 | 1458 | rBV | 307943 | 393829 | 18.64% | 2.611% |
| 11 | 10.698 | 1458 | 1463 | 1477 | rVV | 878509 | 1139149 | 53.91% | 7.552% |
| 12 | 10.927 | 1498 | 1502 | 1510 | rVB | 56202 | 69995 | 3.31% | 0.464% |
| 13 | 11.398 | 1576 | 1582 | 1590 | rBV | 572404 | 756935 | 35.82% | 5.018% |
| 14 | 11.921 | 1666 | 1671 | 1683 | rBV | 57751 | 105011 | 4.97% | 0.696% |
| 15 | 12.980 | 1846 | 1851 | 1863 | rBV | 1489582 | 1916845 | 90.71% | 12.707% |
| 16 | 13.880 | 1999 | 2004 | 2020 | rBV2 | 37395 | 110142 | 5.21% | 0.730% |
| 17 | 14.045 | 2026 | 2032 | 2044 | rVB | 359717 | 502374 | 23.77% | 3.330% |
| 18 | 15.533 | 2279 | 2285 | 2303 | rVB | 282440 | 460815 | 21.81% | 3.055% |

Sum of corrected areas: 15084698

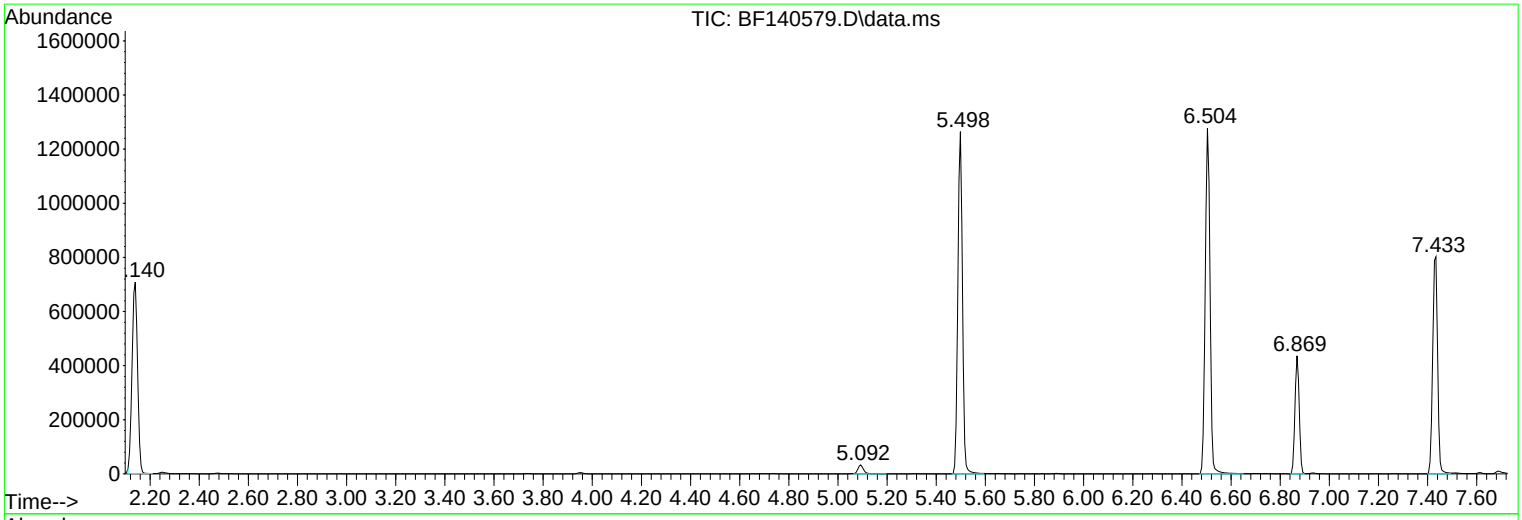
Sample Results: **BF140579.D**

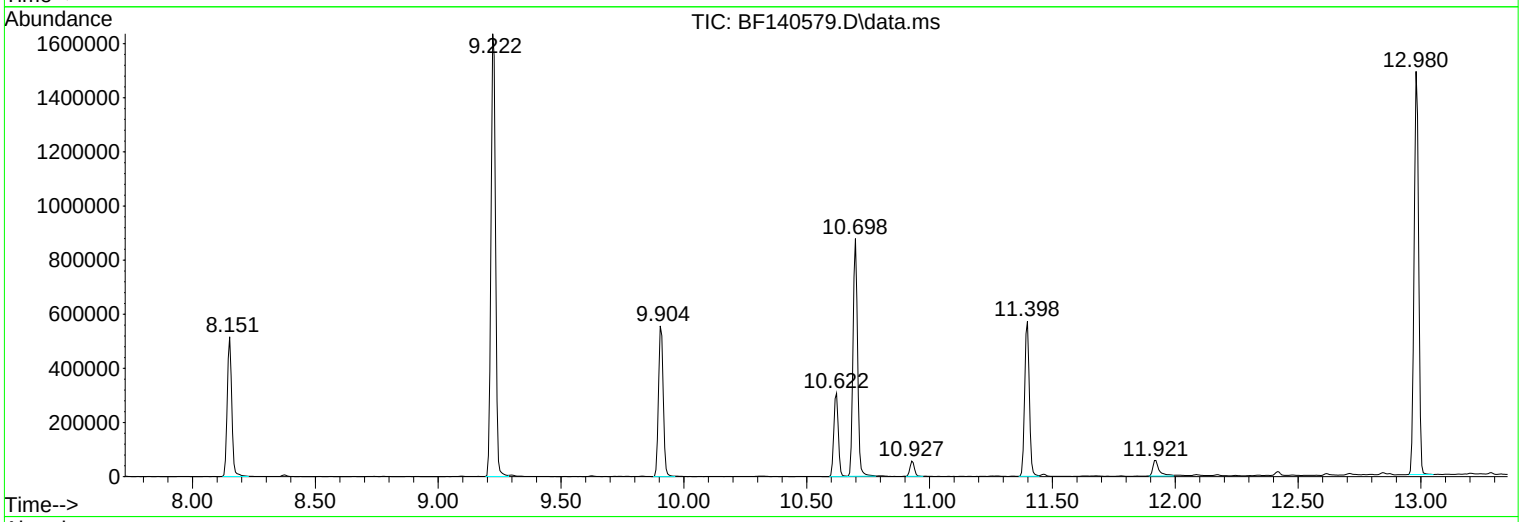
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140579.D
Acq On : 22 Nov 2024 15:58
Operator : RC/JU
Sample : P4860-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

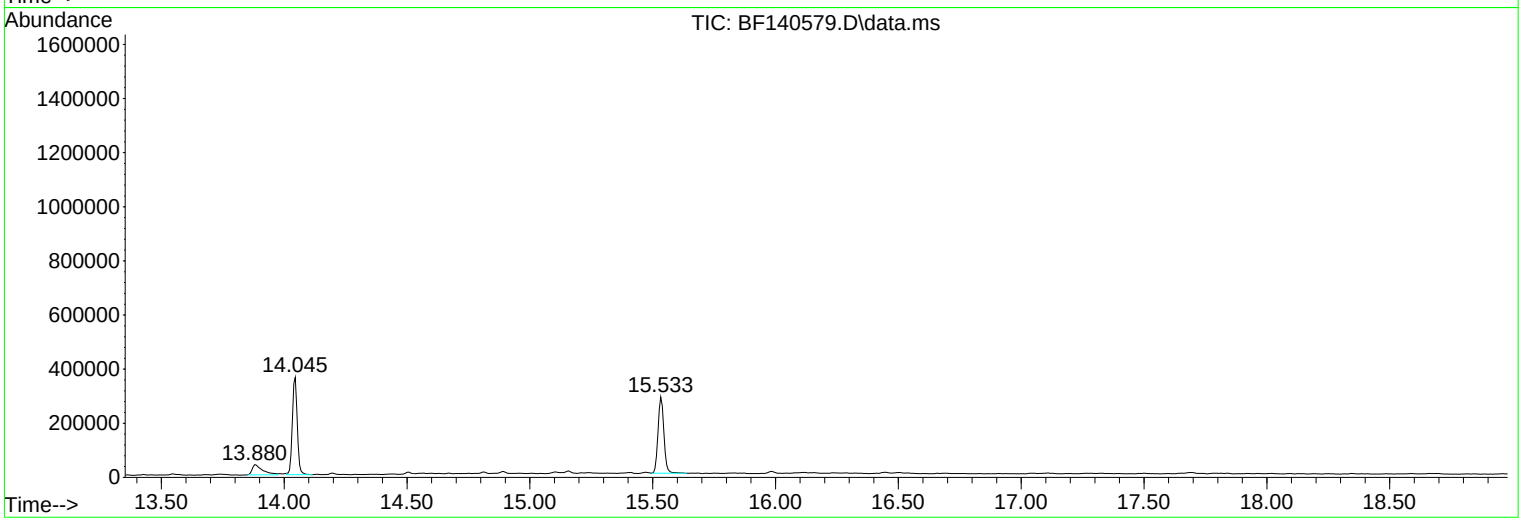
**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-004

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\BF112224\
Data File : BF140579.D
Acq On : 22 Nov 2024 15:58
Operator : RC/JU
Sample : P4860-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-004

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

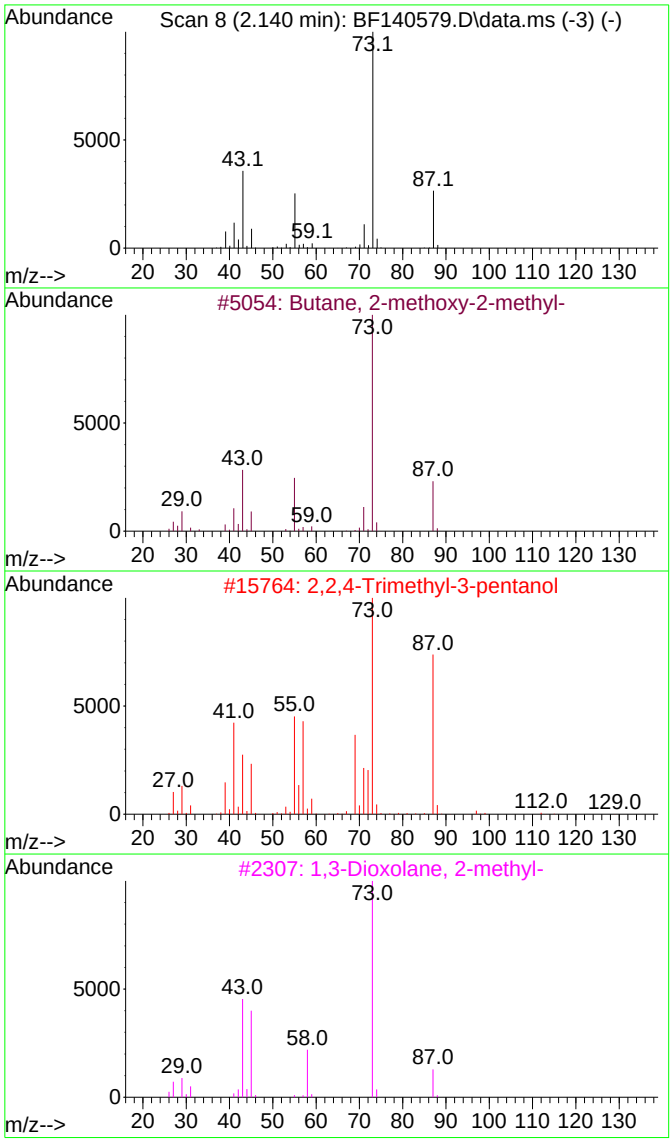
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

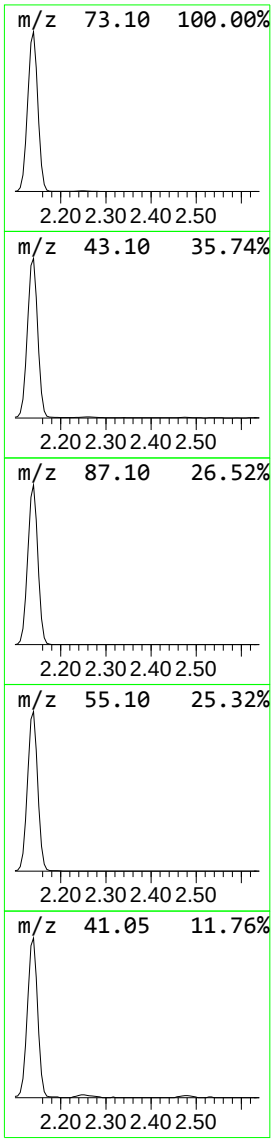
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.140 | 41.86 ng | 1103210 | 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 | 39 |
| 3 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 25 |
| 4 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 23 |
| 5 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 17 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140579.D
Acq On : 22 Nov 2024 15:58
Operator : RC/JU
Sample : P4860-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-004

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

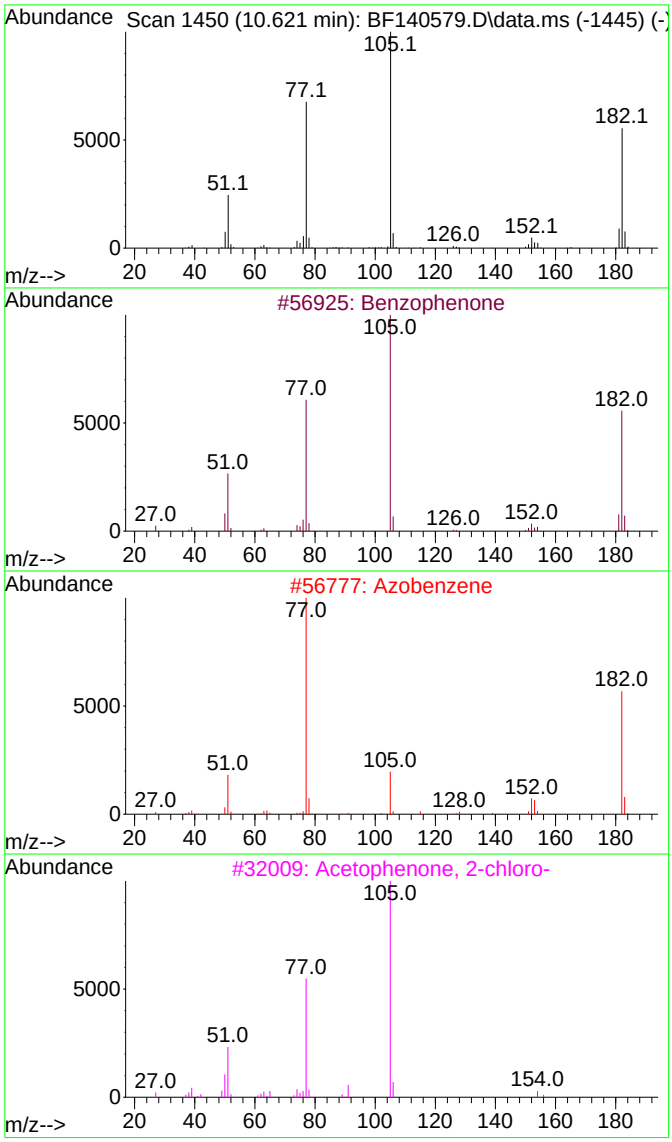
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

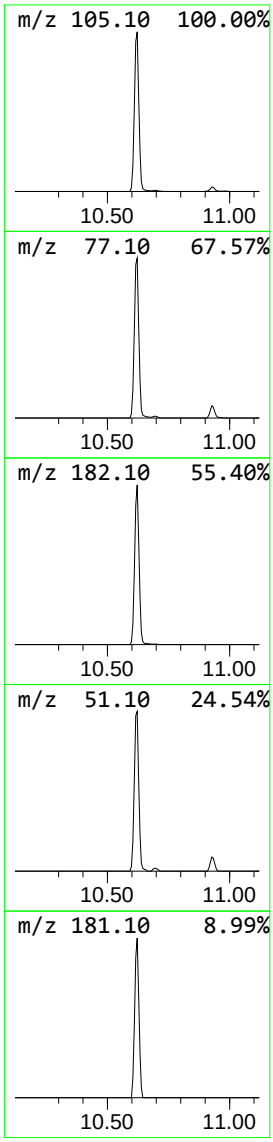
**********

Peak Number 2 Benzophenone Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.621 | 10.83 ng | 393829 | Acenaphthene-d10 | 9.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 96 |
| 2 | Azobenzene | 182 | C12H10N2 | 000103-33-3 | 64 |
| 3 | Acetophenone, 2-chloro- | 154 | C8H7ClO | 000532-27-4 | 47 |
| 4 | Benzeneacetic acid, .alpha.-oxo-... | 164 | C9H8O3 | 015206-55-0 | 47 |
| 5 | Ethanone, 2,2,2-trifluoro-1-phenyl- | 174 | C8H5F3O | 000434-45-7 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140579.D
Acq On : 22 Nov 2024 15:58
Operator : RC/JU
Sample : P4860-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-004

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

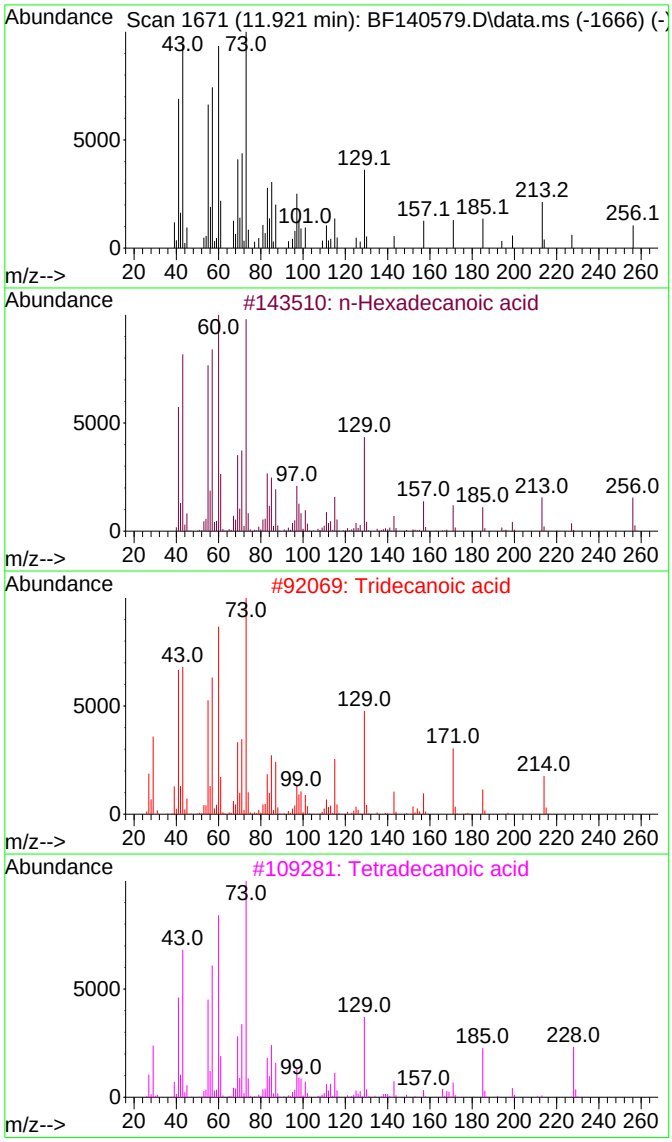
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

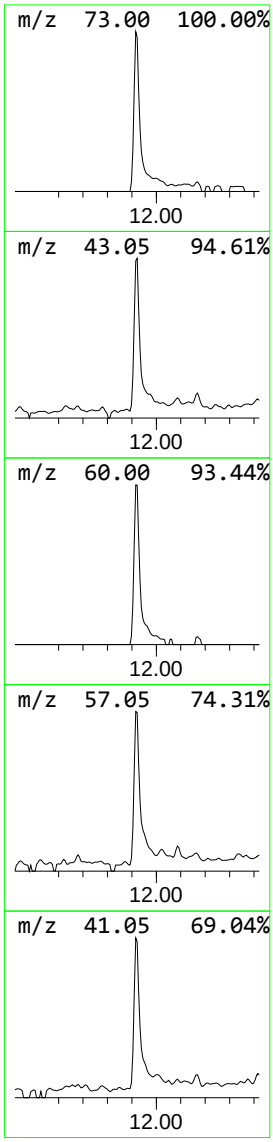
**********

Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.921 | 2.77 ng | 105011 | Phenanthrene-d10 | 11.398 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 97 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 89 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 80 |
| 4 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 68 |
| 5 | Oxalic acid, allyl hexadecyl ester | 354 | C21H38O4 | 1000309-24-4 | 20 |



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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140579.D
Acq On    : 22 Nov 2024  15:58
Operator  : RC/JU
Sample    : P4860-05
Misc      :
ALS Vial  : 17   Sample Multiplier: 1

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
```

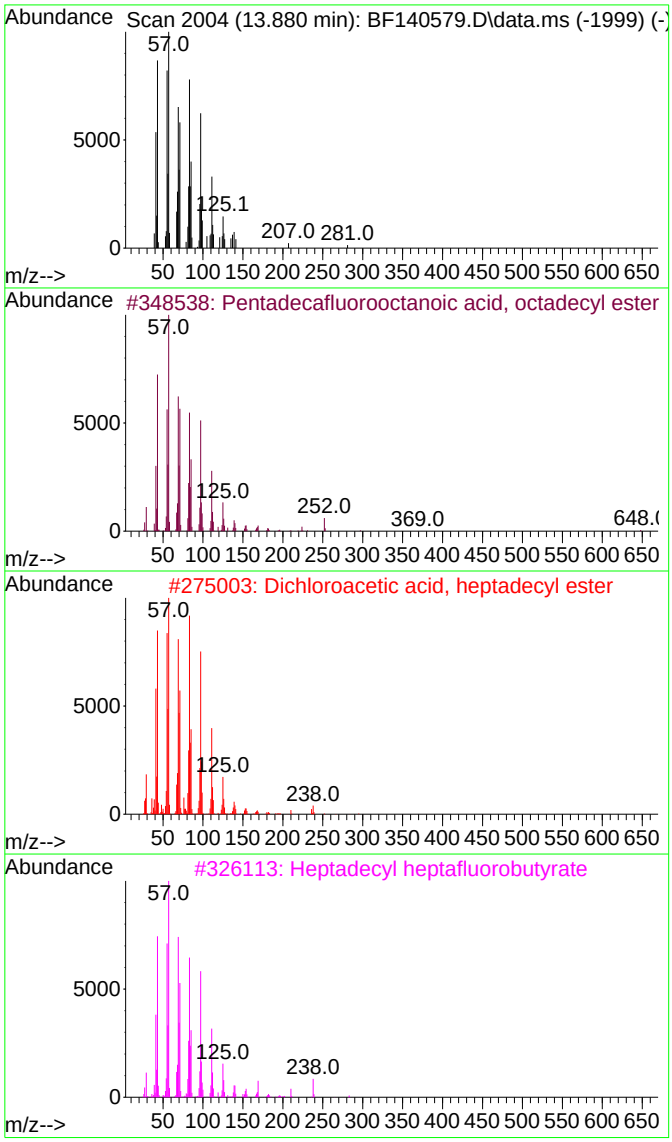
**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-004

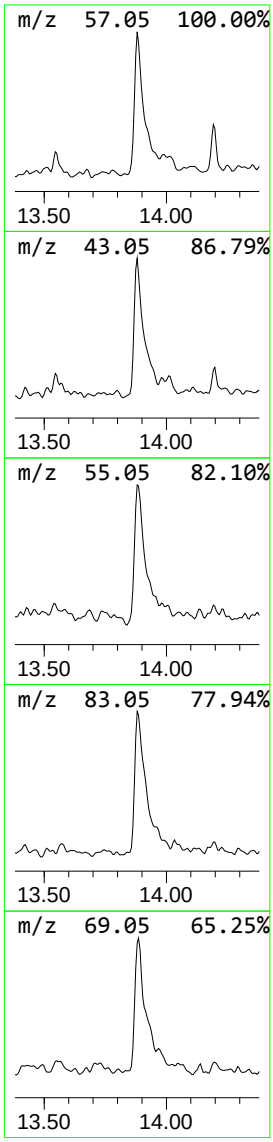
**********

Peak Number 4 Pentadecafluorooctanoic aci... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.880 | 4.38 ng | 110142 | Chrysene-d12 | 14.045 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecafluorooctanoic acid, oc... | 666 | C26H37F15O2 | 1000406-04-8 | 95 |
| 2 | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 95 |
| 3 | Heptadecyl heptafluorobutyrate | 452 | C21H35F7O2 | 959085-66-6 | 93 |
| 4 | Ethanol, 2-(tetradecyloxy)- | 258 | C16H34O2 | 002136-70-1 | 91 |
| 5 | Nonadecyl pentafluoropropionate | 430 | C22H39F5O2 | 1000351-88-8 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140579.D
Acq On : 22 Nov 2024 15:58
Operator : RC/JU
Sample : P4860-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-004

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... | 2.140 | 41.9 | ng | 1103210 | 1 | 6.869 | 527129 | 20.0 |
| Benzophenone | 10.621 | 10.8 | ng | 393829 | 3 | 9.904 | 727216 | 20.0 |
| n-Hexadecanoic ... | 11.921 | 2.8 | ng | 105011 | 4 | 11.398 | 756935 | 20.0 |
| Pentadecafluoro... | 13.880 | 4.4 | ng | 110142 | 5 | 14.045 | 502374 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140615.D
Acq On : 25 Nov 2024 20:45
Operator : RC/JU
Sample : P4860-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-009

Quant Time: Nov 26 00:10:10 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

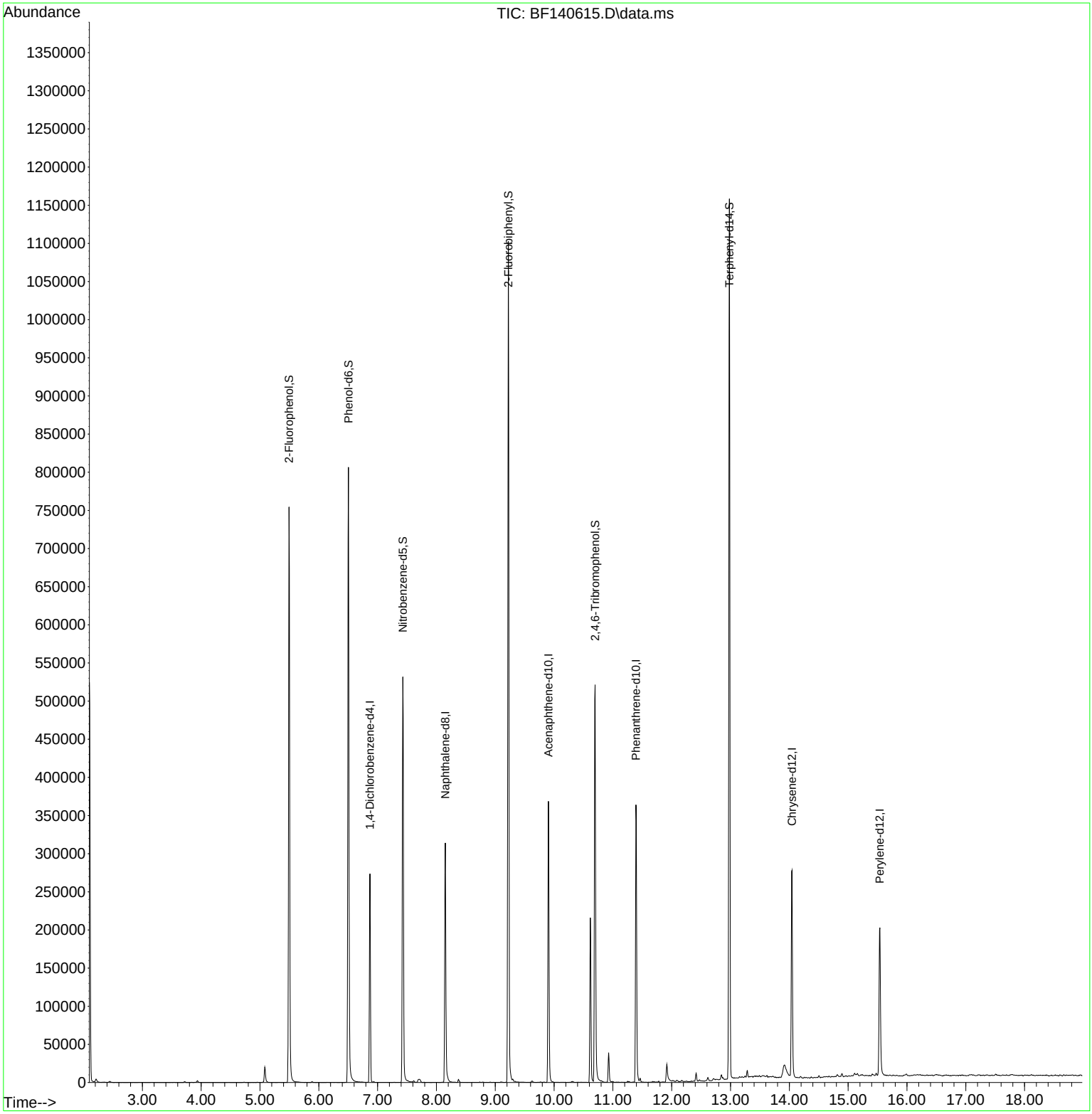
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.869 | 152 | 56272 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.151 | 136 | 212229 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.904 | 164 | 114630 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.392 | 188 | 214306 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 14.045 | 240 | 141699 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.539 | 264 | 130450 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.493 | 112 | 286741 | 86.942 | ng | 0.00 |
| 7) Phenol-d6 | 6.504 | 99 | 381998 | 87.612 | ng | -0.01 |
| 23) Nitrobenzene-d5 | 7.428 | 82 | 249525 | 60.139 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.698 | 330 | 96841 | 78.991 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 483489 | 62.843 | ng | -0.01 |
| 79) Terphenyl-d14 | 12.980 | 244 | 554437 | 60.927 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |

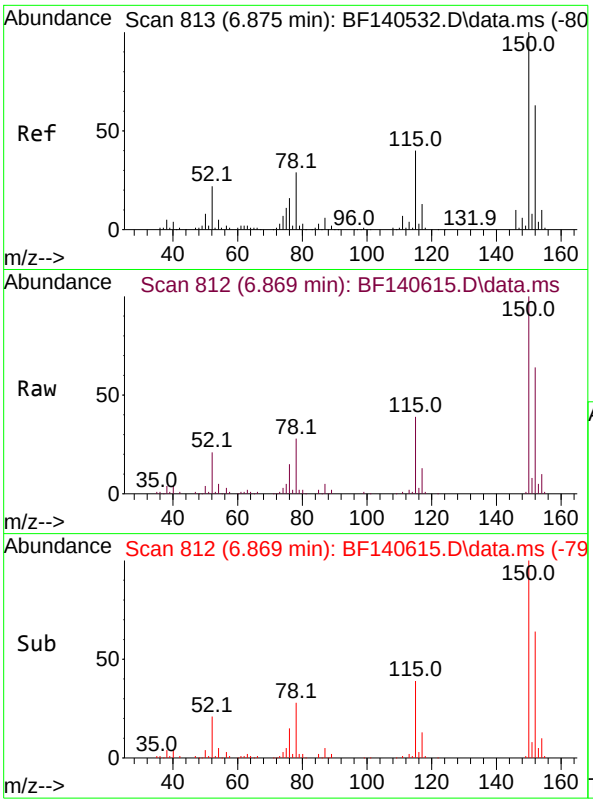
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140615.D
Acq On : 25 Nov 2024 20:45
Operator : RC/JU
Sample : P4860-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-009

Quant Time: Nov 26 00:10:10 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



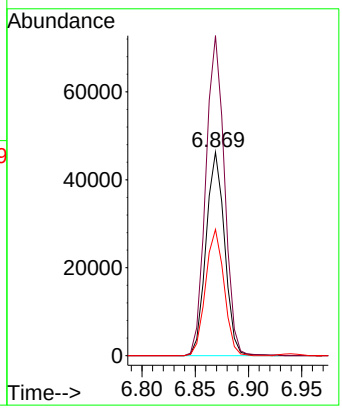


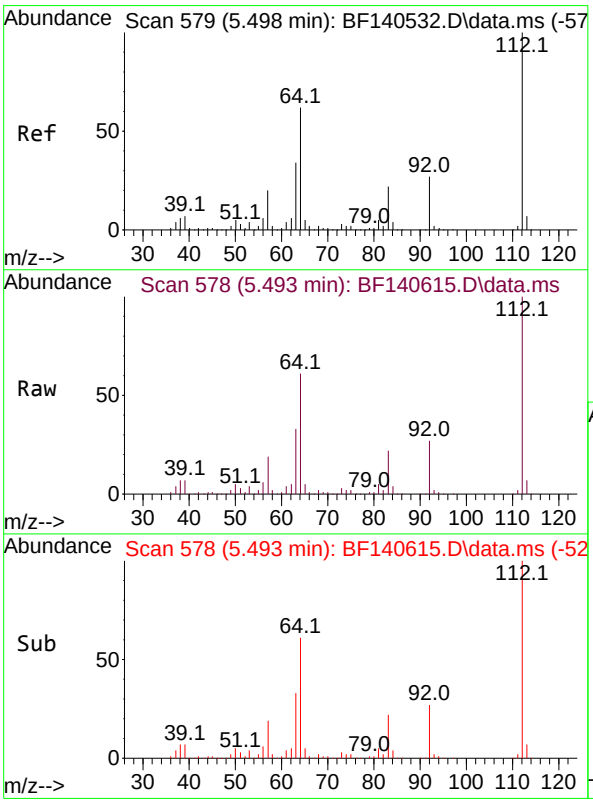

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140615.D
Acq: 25 Nov 2024 20:45

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-009

Tgt Ion:152 Resp: 56272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.2 | 128.5 | 192.7 |
| 115 | 62.0 | 50.2 | 75.4 |

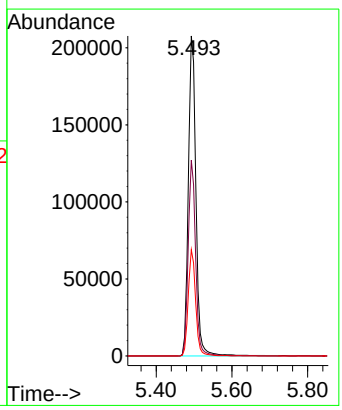


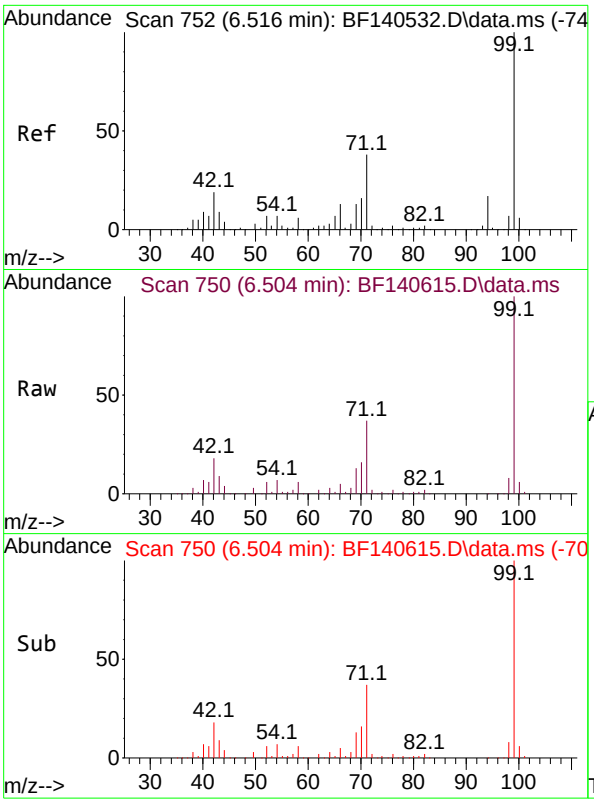




#5
2-Fluorophenol
Concen: 86.942 ng
RT: 5.493 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF140615.D
Acq: 25 Nov 2024 20:45

Tgt Ion:112 Resp: 286741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 61.2 | 49.2 | 73.8 |
| 63 | 33.2 | 27.0 | 40.4 |



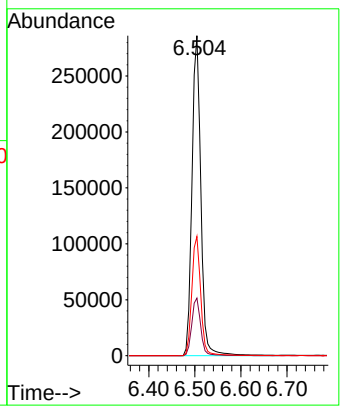


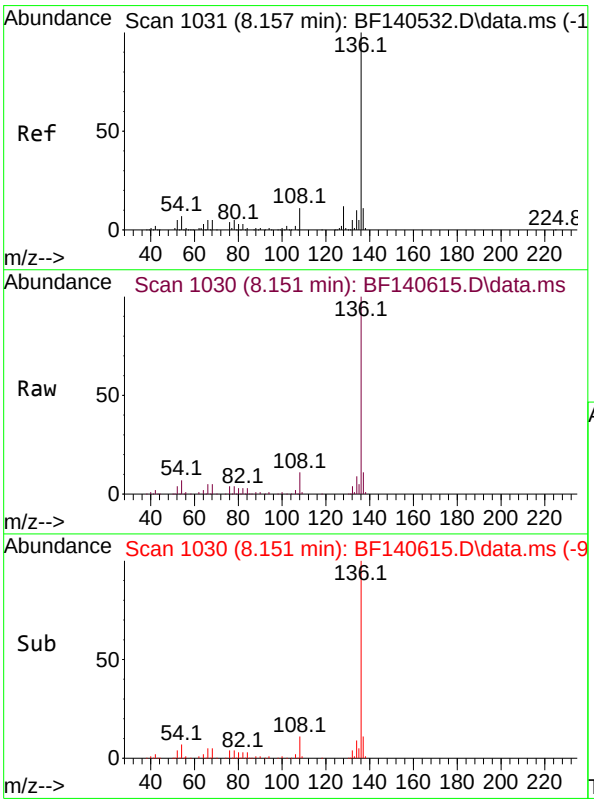

#7
Phenol-d6
Concen: 87.612 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140615.D
Acq: 25 Nov 2024 20:45

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-009

Tgt Ion: 99 Resp: 381998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.0 | 15.4 | 23.0 |
| 71 | 37.3 | 30.6 | 46.0 |

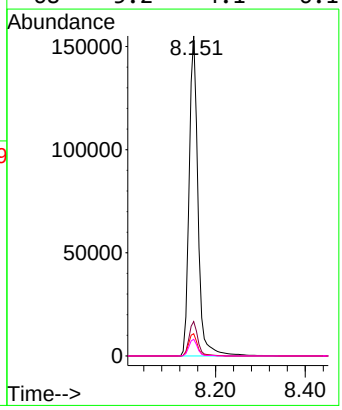


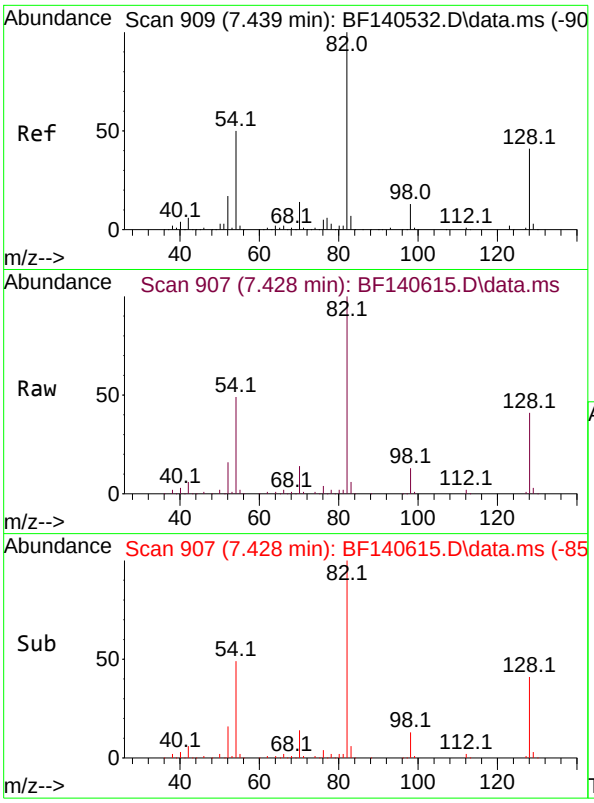




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140615.D
Acq: 25 Nov 2024 20:45

Tgt Ion:136 Resp: 212229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.8 | 8.6 | 13.0 |
| 54 | 6.9 | 5.8 | 8.8 |
| 68 | 5.2 | 4.1 | 6.1 |



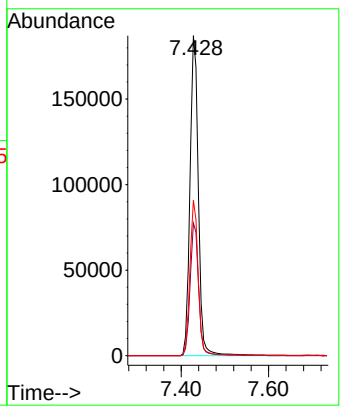


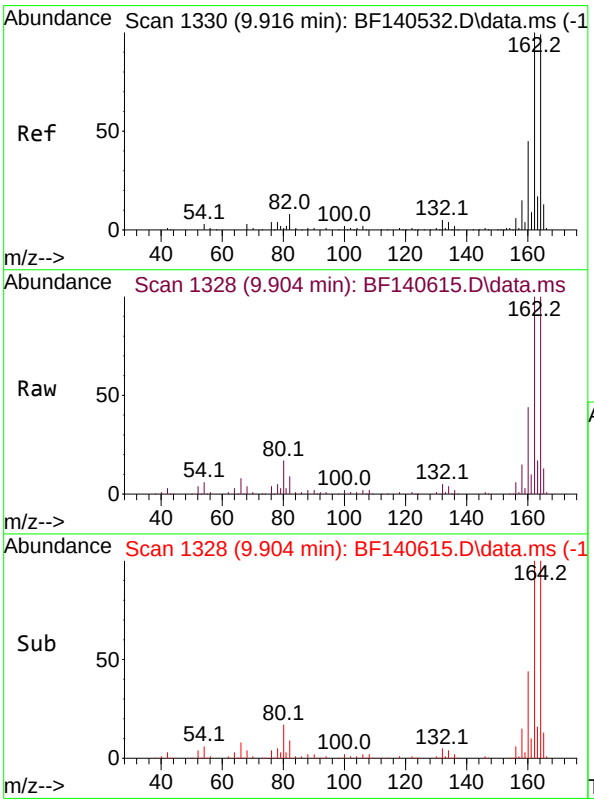

#23
Nitrobenzene-d5
Concen: 60.139 ng
RT: 7.428 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140615.D
Acq: 25 Nov 2024 20:45

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-009

Tgt Ion: 82 Resp: 249525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.4 | 33.0 | 49.4 |
| 54 | 48.5 | 39.5 | 59.3 |

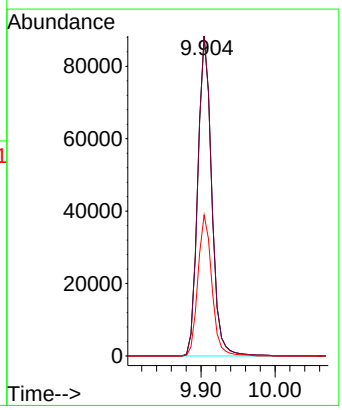


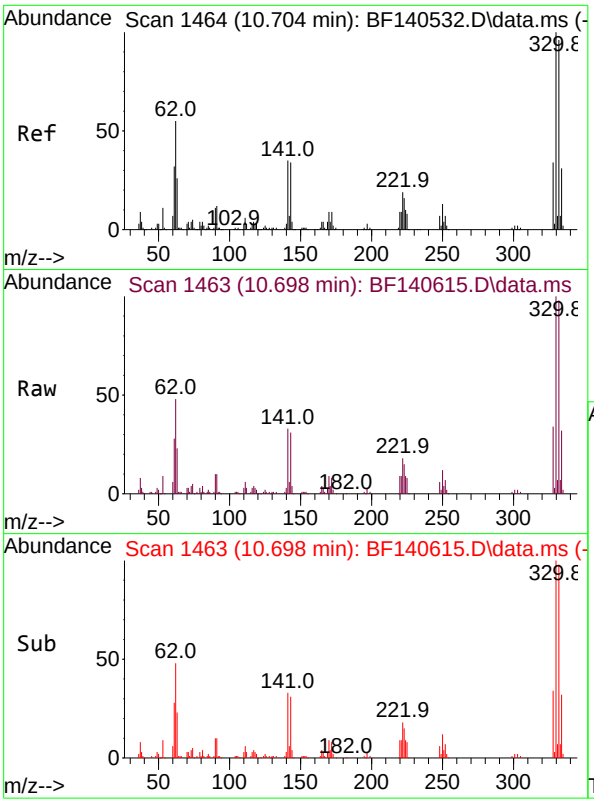




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140615.D
Acq: 25 Nov 2024 20:45

Tgt Ion:164 Resp: 114630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.8 | 80.6 | 120.8 |
| 160 | 44.1 | 36.2 | 54.4 |



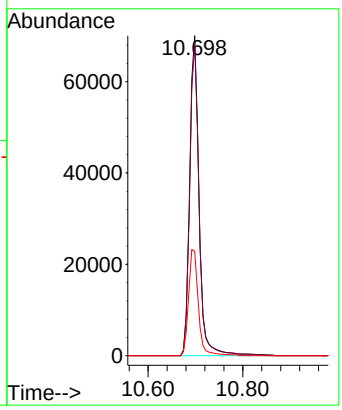


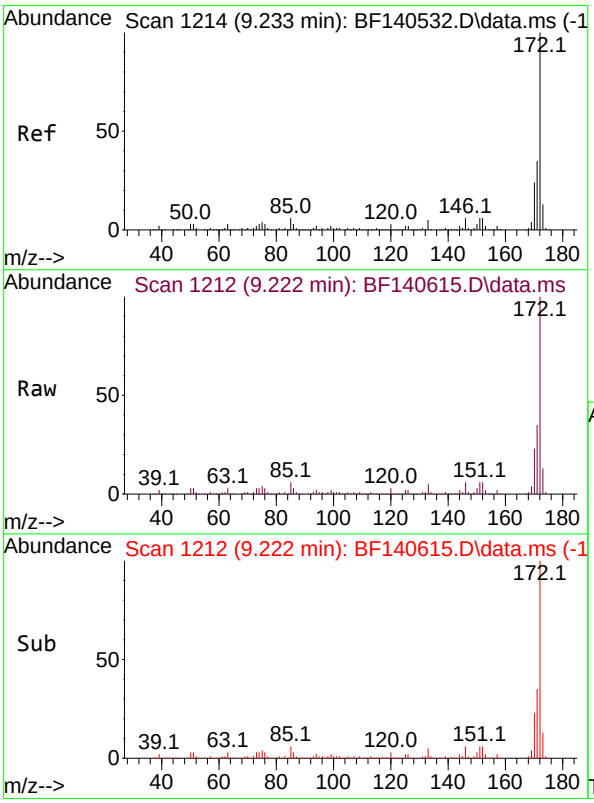

#42
2,4,6-Tribromophenol
Concen: 78.991 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140615.D
Acq: 25 Nov 2024 20:45

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-009

Tgt Ion:330 Resp: 96841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.8 | 76.9 | 115.3 |
| 141 | 34.5 | 26.7 | 40.1 |

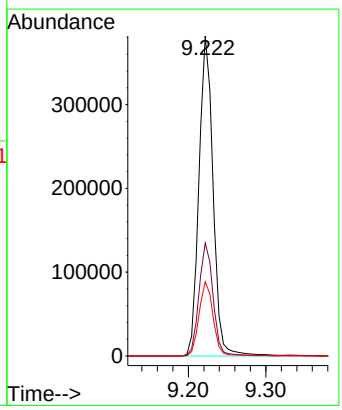


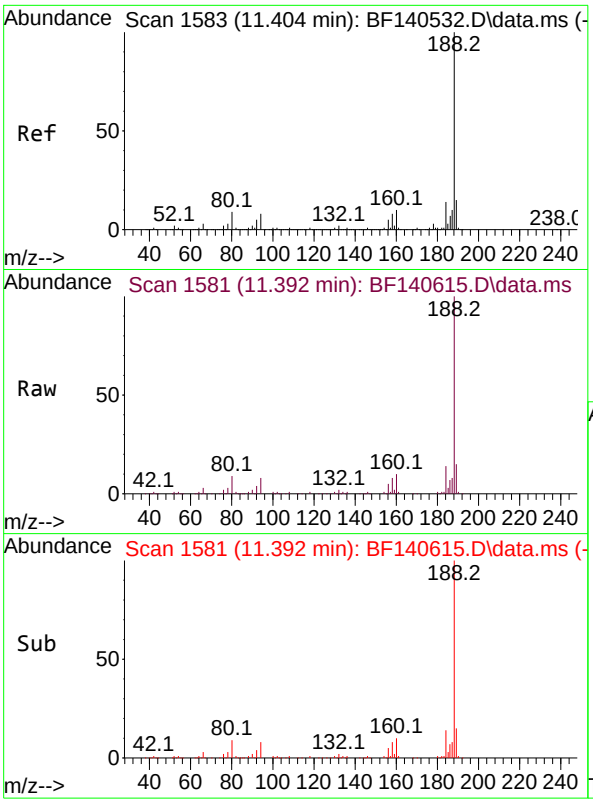




#45
2-Fluorobiphenyl
Concen: 62.843 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140615.D
Acq: 25 Nov 2024 20:45

Tgt Ion:172 Resp: 483489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.3 | 28.4 | 42.6 |
| 170 | 23.2 | 19.0 | 28.6 |



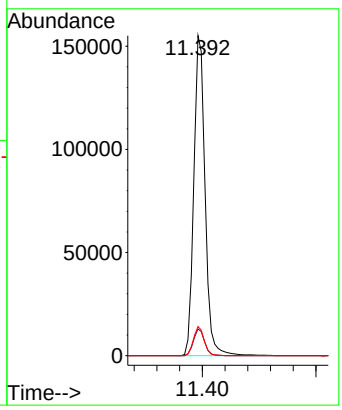


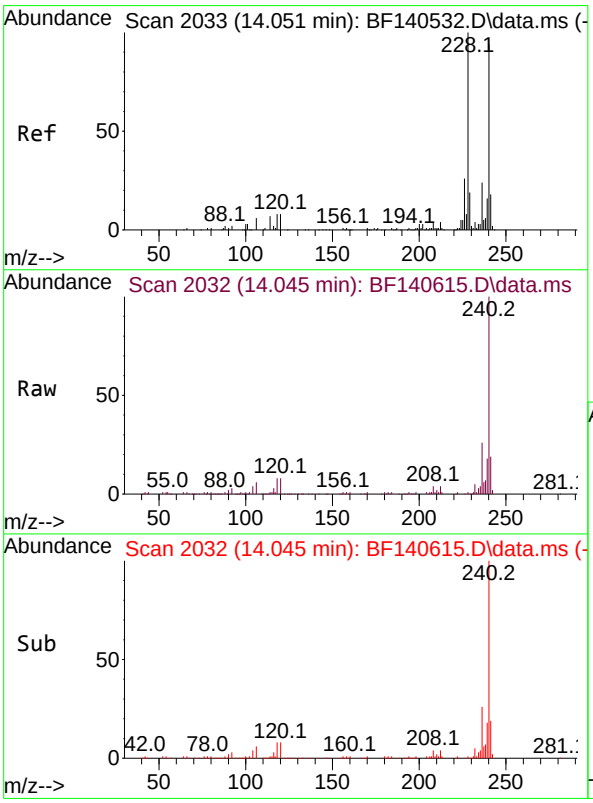

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140615.D
Acq: 25 Nov 2024 20:45

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-009

Tgt Ion:188 Resp: 214306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.3 | 6.4 | 9.6 |
| 80 | 9.1 | 6.9 | 10.3 |

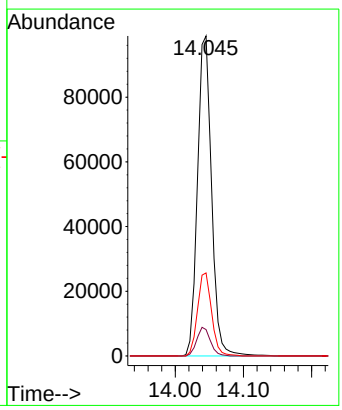


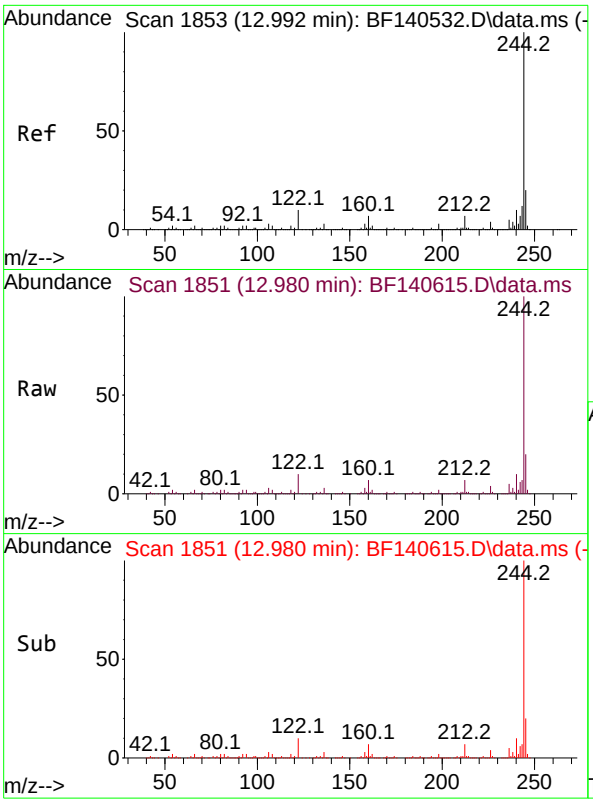




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140615.D
Acq: 25 Nov 2024 20:45

Tgt Ion:240 Resp: 141699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 8.2 | 7.3 | 10.9 |
| 236 | 26.0 | 20.6 | 31.0 |



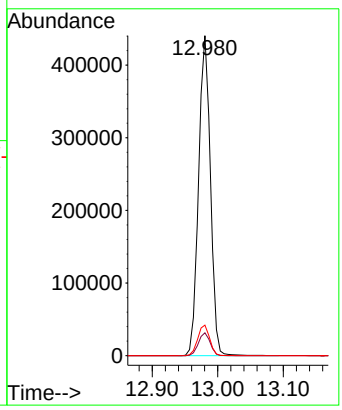


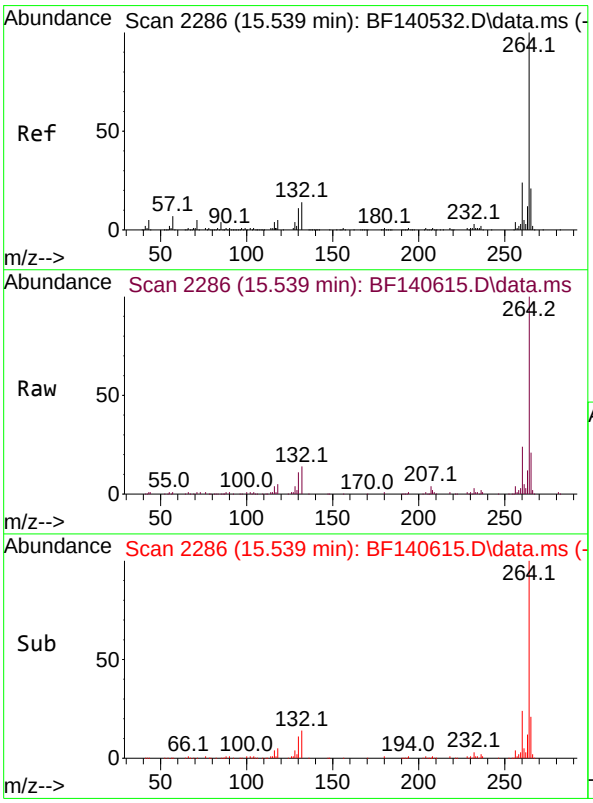

#79
Terphenyl-d14
Concen: 60.927 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140615.D
Acq: 25 Nov 2024 20:45

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-009

Tgt Ion:244 Resp: 554437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.2 | 5.8 | 8.8 |
| 122 | 9.5 | 8.0 | 12.0 |

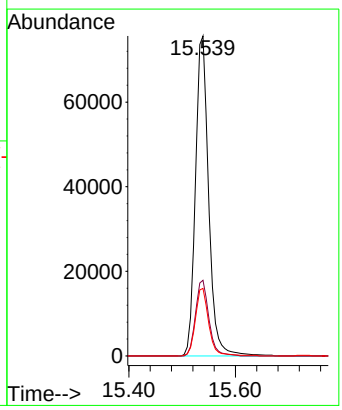



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2286
Delta R.T. 0.000 min
Lab File: BF140615.D
Acq: 25 Nov 2024 20:45

Tgt Ion:264 Resp: 130450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.6 | 19.0 | 28.6 |
| 265 | 21.1 | 16.6 | 25.0 |



Sample Results: **BF140615.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140615.D
Acq On : 25 Nov 2024 20:45
Operator : RC/JU
Sample : P4860-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-009

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: BF140615.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.081 | 503 | 508 | 520 | rVB | 19916 | 31082 | 2.14% | 0.336% |
| 2 | 5.493 | 573 | 578 | 598 | rBV | 754507 | 1016441 | 70.08% | 10.977% |
| 3 | 6.504 | 744 | 750 | 767 | rBV | 806435 | 1078727 | 74.38% | 11.650% |
| 4 | 6.869 | 807 | 812 | 821 | rBV | 273270 | 330865 | 22.81% | 3.573% |
| 5 | 7.428 | 902 | 907 | 920 | rBV | 531563 | 697301 | 48.08% | 7.530% |
| 6 | 8.151 | 1025 | 1030 | 1057 | rBV | 313887 | 423461 | 29.20% | 4.573% |
| 7 | 9.222 | 1207 | 1212 | 1223 | rBV | 1102295 | 1374540 | 94.77% | 14.844% |
| 8 | 9.904 | 1323 | 1328 | 1345 | rBV | 368486 | 473125 | 32.62% | 5.109% |
| 9 | 10.616 | 1444 | 1449 | 1458 | rBV | 215878 | 276926 | 19.09% | 2.991% |
| 10 | 10.698 | 1458 | 1463 | 1479 | rVV | 519957 | 723844 | 49.91% | 7.817% |
| 11 | 10.928 | 1497 | 1502 | 1510 | rBV | 38664 | 51046 | 3.52% | 0.551% |
| 12 | 11.392 | 1576 | 1581 | 1590 | rBV | 363733 | 493453 | 34.02% | 5.329% |
| 13 | 11.916 | 1665 | 1670 | 1685 | rBV2 | 23163 | 45335 | 3.13% | 0.490% |
| 14 | 12.980 | 1845 | 1851 | 1856 | rBV | 1153883 | 1450364 | 100.00% | 15.663% |
| 15 | 13.916 | 2000 | 2010 | 2023 | rBV6 | 16574 | 72805 | 5.02% | 0.786% |
| 16 | 14.045 | 2026 | 2032 | 2044 | rVB | 271780 | 394656 | 27.21% | 4.262% |
| 17 | 15.539 | 2280 | 2286 | 2298 | rVB | 193011 | 325815 | 22.46% | 3.519% |

Sum of corrected areas: 9259786

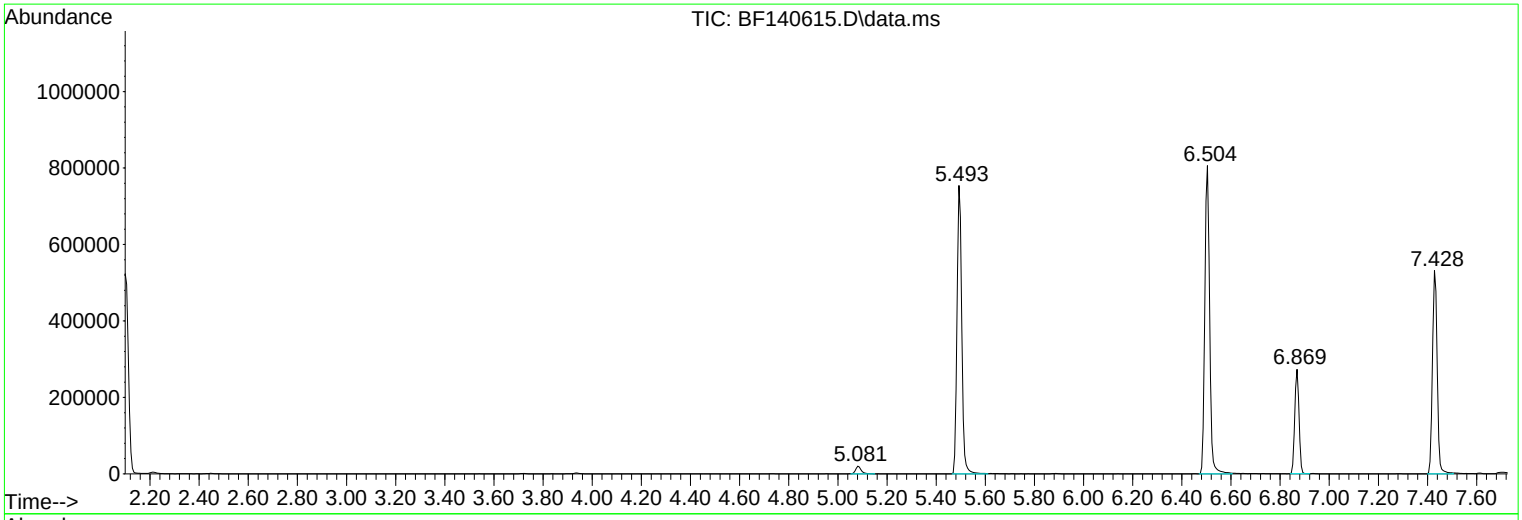
Sample Results: **BF140615.D**

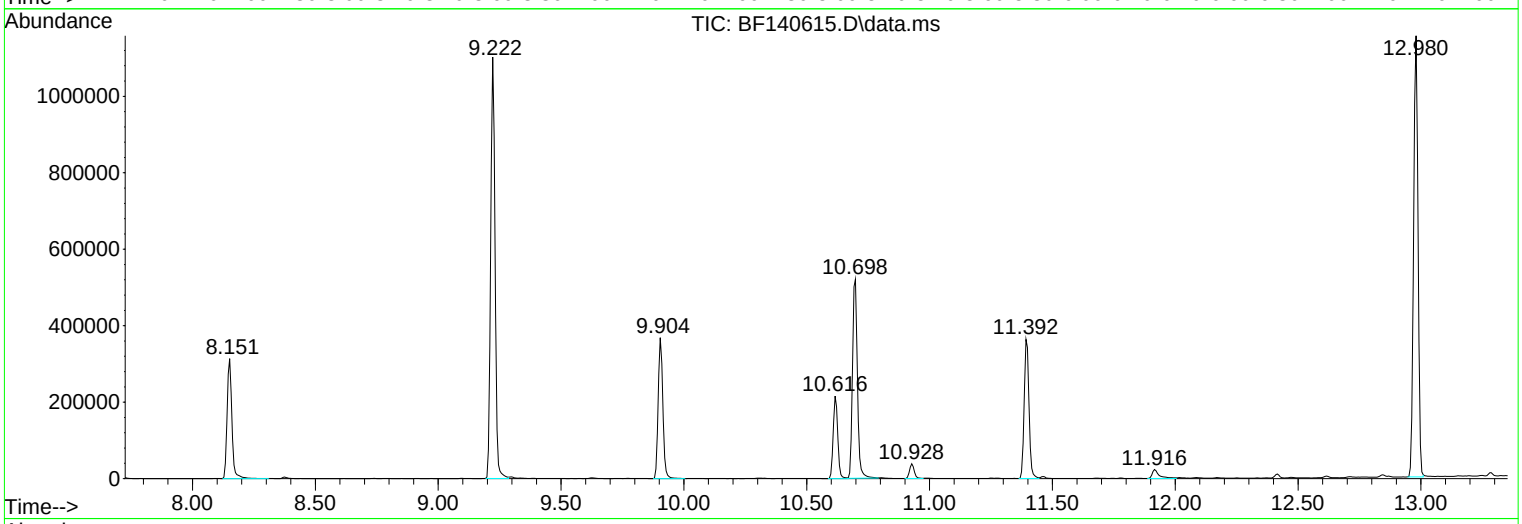
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140615.D
Acq On : 25 Nov 2024 20:45
Operator : RC/JU
Sample : P4860-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

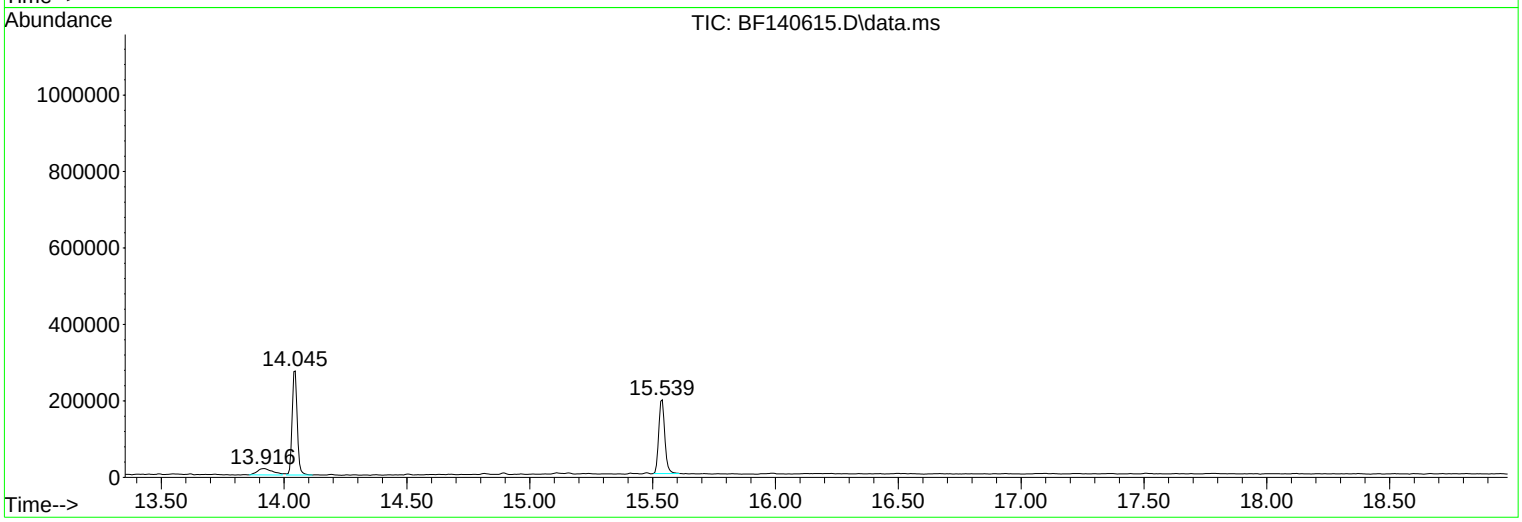
**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-009

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 : BF140615.D
Acq On : 25 Nov 2024 20:45
Operator : RC/JU
Sample : P4860-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-009

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

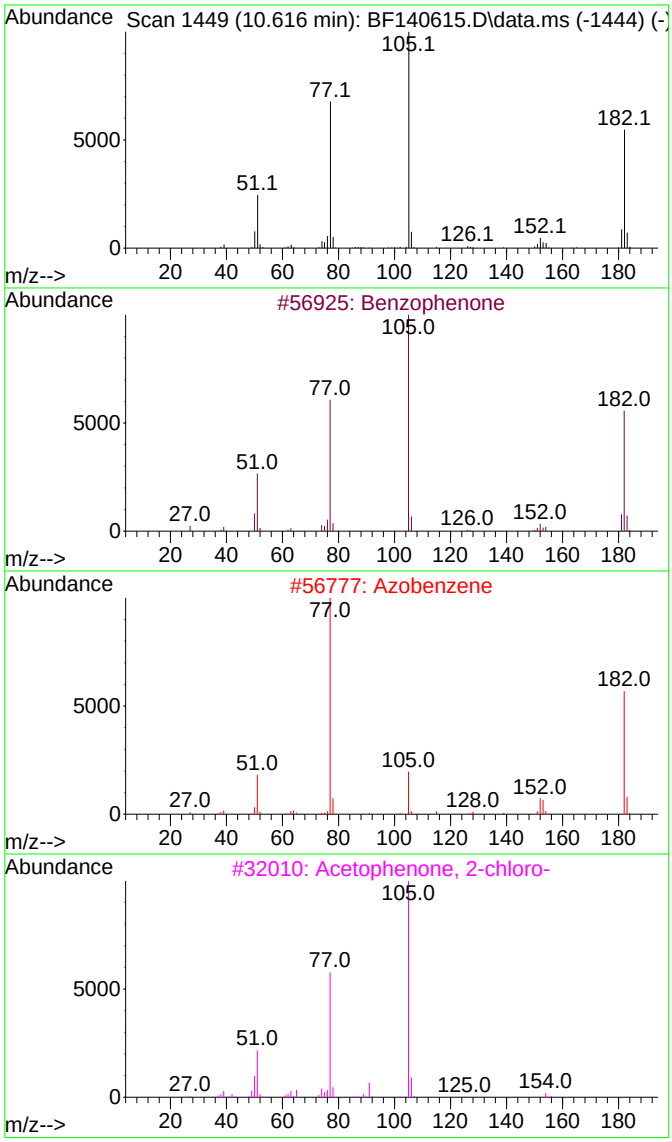
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

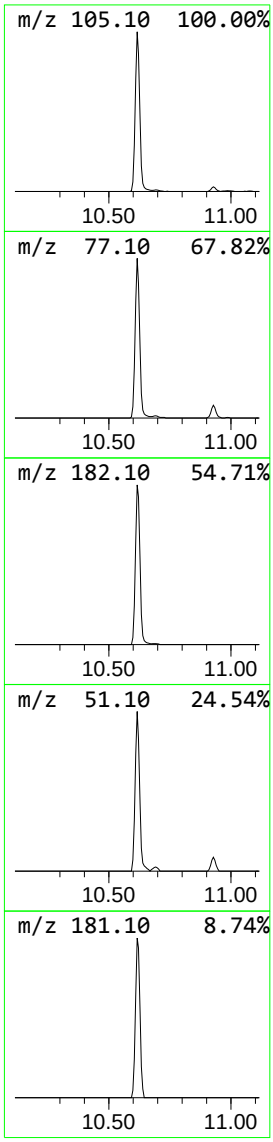
**********

Peak Number 1 Benzophenone Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.616 | 11.71 ng | 276926 | Acenaphthene-d10 | 9.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 96 |
| 2 | Azobenzene | 182 | C12H10N2 | 000103-33-3 | 72 |
| 3 | Acetophenone, 2-chloro- | 154 | C8H7ClO | 000532-27-4 | 49 |
| 4 | Benzeneacetic acid, .alpha.-oxo-... | 164 | C9H8O3 | 015206-55-0 | 47 |
| 5 | Benzenebutanoic acid, .gamma.-oxo- | 178 | C10H10O3 | 002051-95-8 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140615.D
Acq On : 25 Nov 2024 20:45
Operator : RC/JU
Sample : P4860-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-009

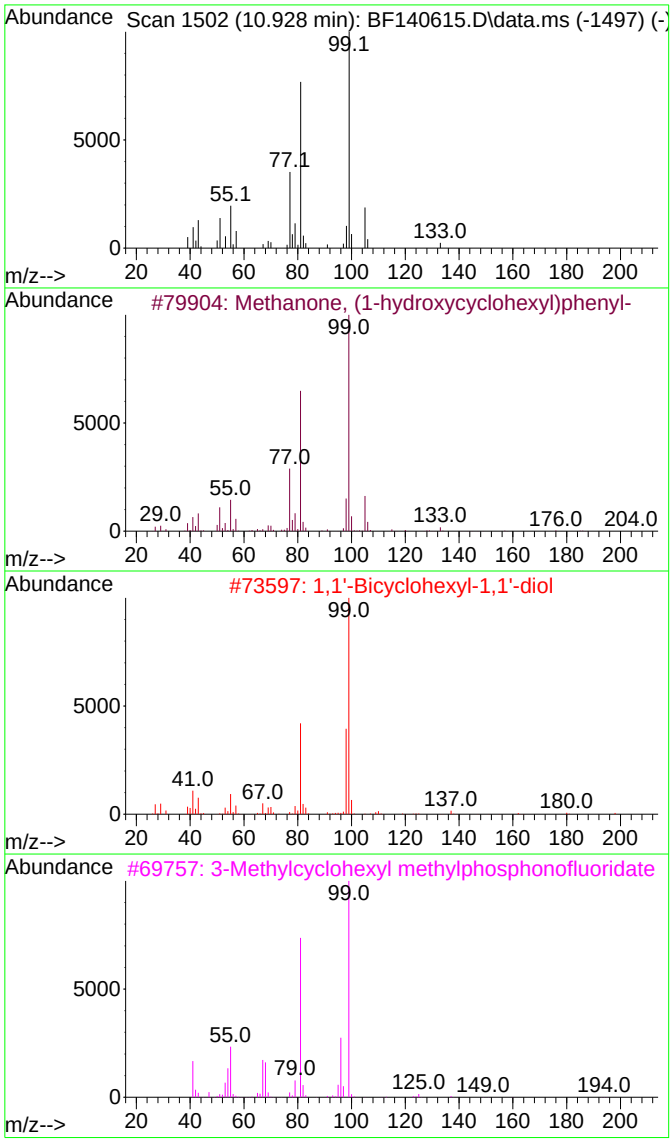
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

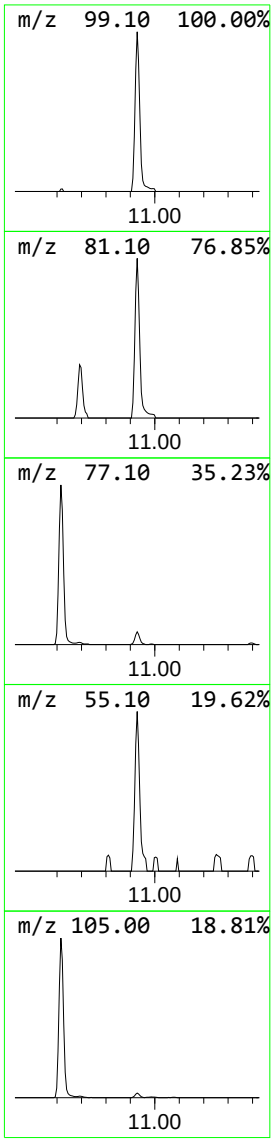
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 Methanone, (1-hydroxycycloh... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.928 | 2.07 ng | 51046 | Phenanthrene-d10 | 11.392 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methanone, (1-hydroxycyclohexyl)... | 204 | C13H16O2 | 000947-19-3 | 90 |
| 2 | 1,1'-Bicyclohexyl-1,1'-diol | 198 | C12H22O2 | 002888-11-1 | 45 |
| 3 | 3-Methylcyclohexyl methylphospho... | 194 | C8H16FO2P | 113548-86-0 | 45 |
| 4 | 1-Hydroxycyclohexanecarboxylic acid | 144 | C7H12O3 | 001123-28-0 | 45 |
| 5 | 2-Methylcyclosarin | 194 | C8H16FO2P | 085473-32-1 | 42 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140615.D
Acq On : 25 Nov 2024 20:45
Operator : RC/JU
Sample : P4860-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-009

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

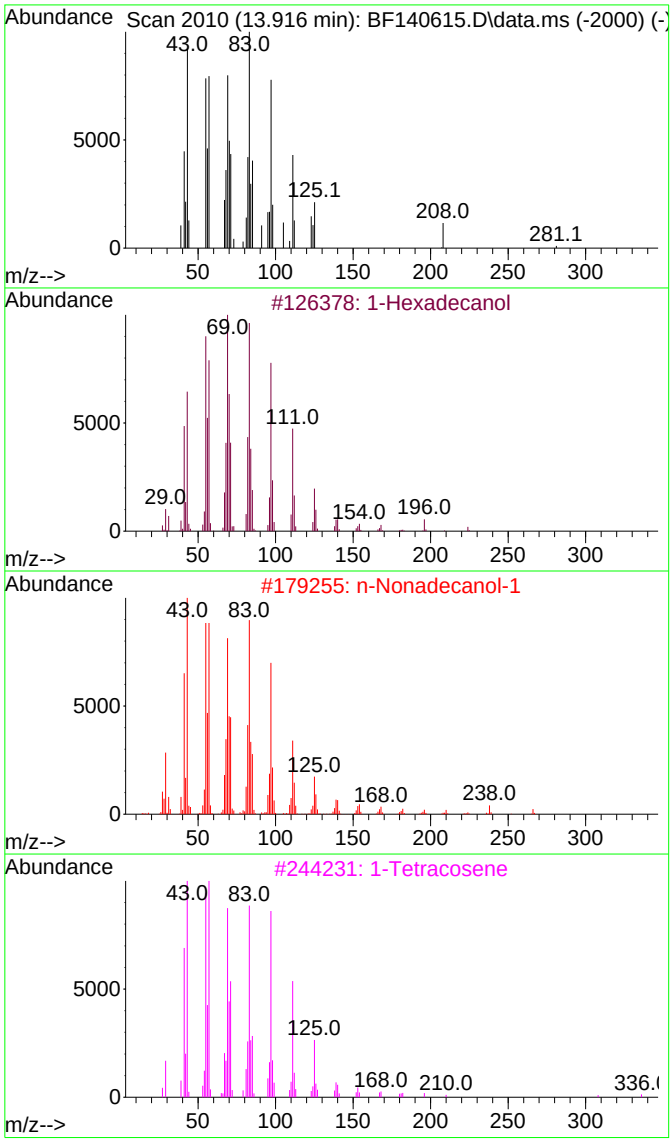
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

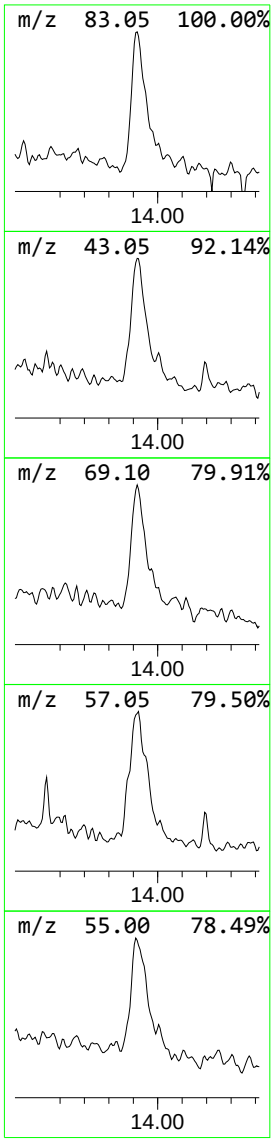
**********

Peak Number 3 1-Hexadecanol Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.916 | 3.69 ng | 72805 | Chrysene-d12 | 14.045 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexadecanol | 242 | C16H34O | 036653-82-4 | 93 |
| 2 | n-Nonadecanol-1 | 284 | C19H40O | 001454-84-8 | 93 |
| 3 | 1-Tetracosene | 336 | C24H48 | 010192-32-2 | 93 |
| 4 | 2- Chloropropionic acid, pentade... | 318 | C18H35ClO2 | 1000292-44-1 | 91 |
| 5 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140615.D
Acq On : 25 Nov 2024 20:45
Operator : RC/JU
Sample : P4860-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-009

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 |
| Benzophenone | 10.616 | 11.7 | ng | 276926 | 3 | 9.904 | 473125 | 20.0 |
| Methanone, (1-h... | 10.928 | 2.1 | ng | 51046 | 4 | 11.392 | 493453 | 20.0 |
| 1-Hexadecanol | 13.916 | 3.7 | ng | 72805 | 5 | 14.045 | 394656 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140621.D
Acq On : 25 Nov 2024 23:22
Operator : RC/JU
Sample : P4860-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-008

Quant Time: Nov 26 00:11:43 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

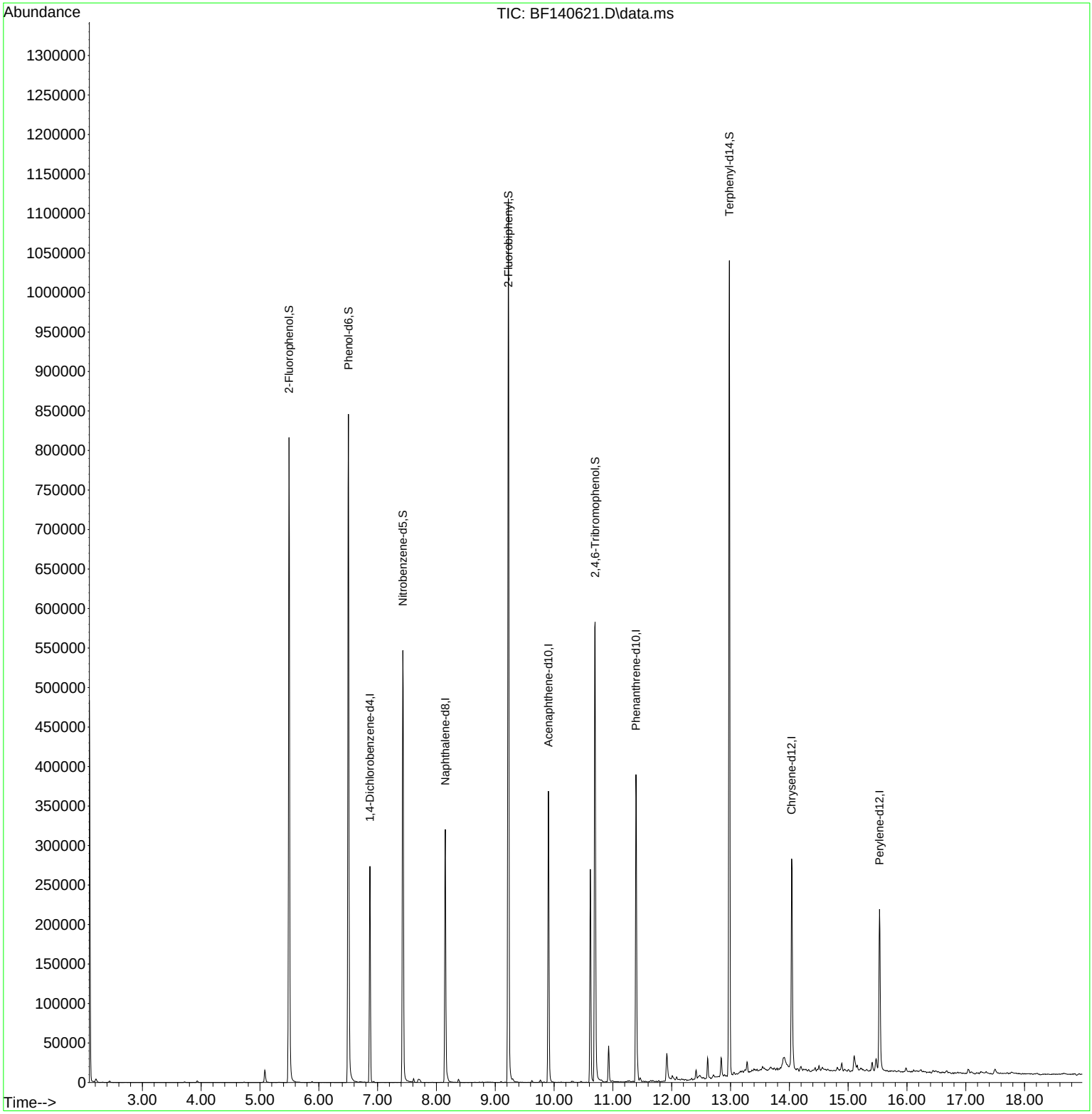
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.869 | 152 | 56779 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.151 | 136 | 211702 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.904 | 164 | 113735 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.392 | 188 | 220246 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 14.039 | 240 | 128275 | 20.000 | ng | -0.01 |
| 86) Perylene-d12 | 15.533 | 264 | 122422 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.493 | 112 | 306468 | 92.094 | ng | 0.00 |
| 7) Phenol-d6 | 6.504 | 99 | 397890 | 90.442 | ng | -0.01 |
| 23) Nitrobenzene-d5 | 7.428 | 82 | 256943 | 62.081 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.698 | 330 | 107865 | 88.675 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 495612 | 64.926 | ng | -0.01 |
| 79) Terphenyl-d14 | 12.980 | 244 | 498356 | 60.495 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |

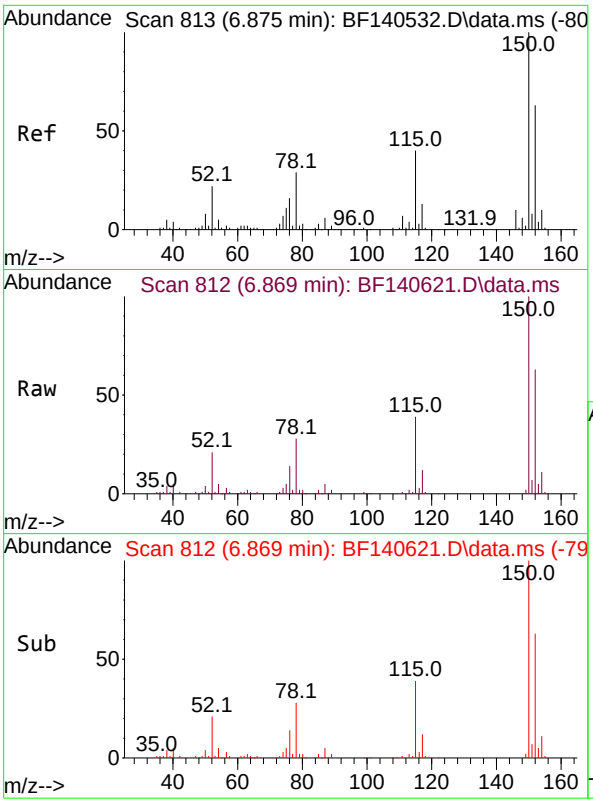
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140621.D
Acq On : 25 Nov 2024 23:22
Operator : RC/JU
Sample : P4860-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-008

Quant Time: Nov 26 00:11:43 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



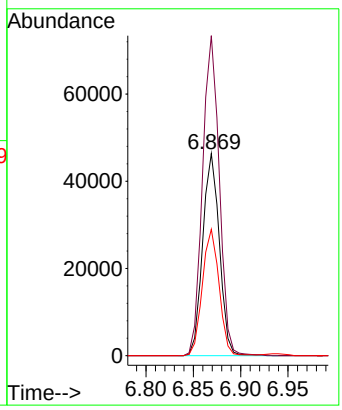


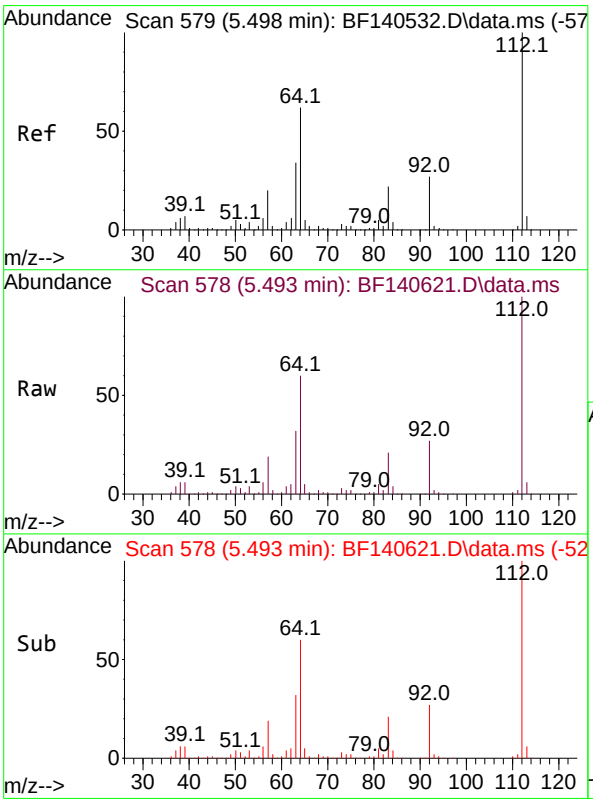

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-008

Tgt Ion:152 Resp: 56779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 158.3 | 128.5 | 192.7 |
| 115 | 62.5 | 50.2 | 75.4 |

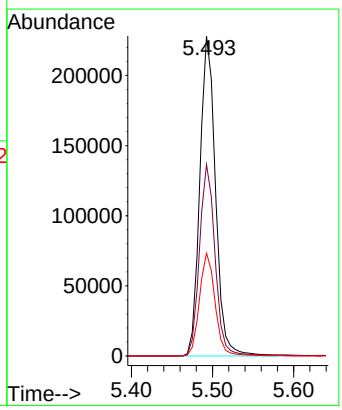


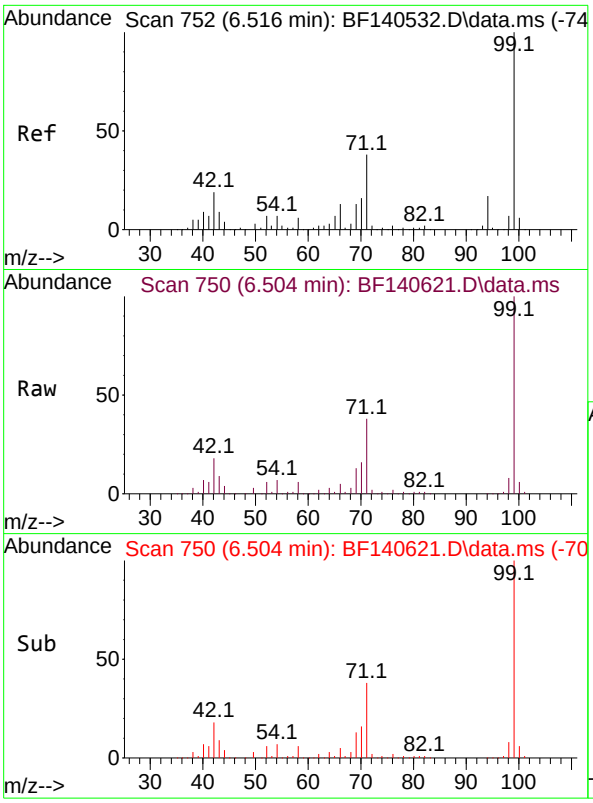




#5
2-Fluorophenol
Concen: 92.094 ng
RT: 5.493 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

Tgt Ion:112 Resp: 306468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 59.8 | 49.2 | 73.8 |
| 63 | 32.2 | 27.0 | 40.4 |



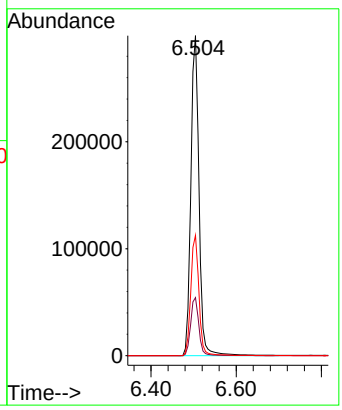


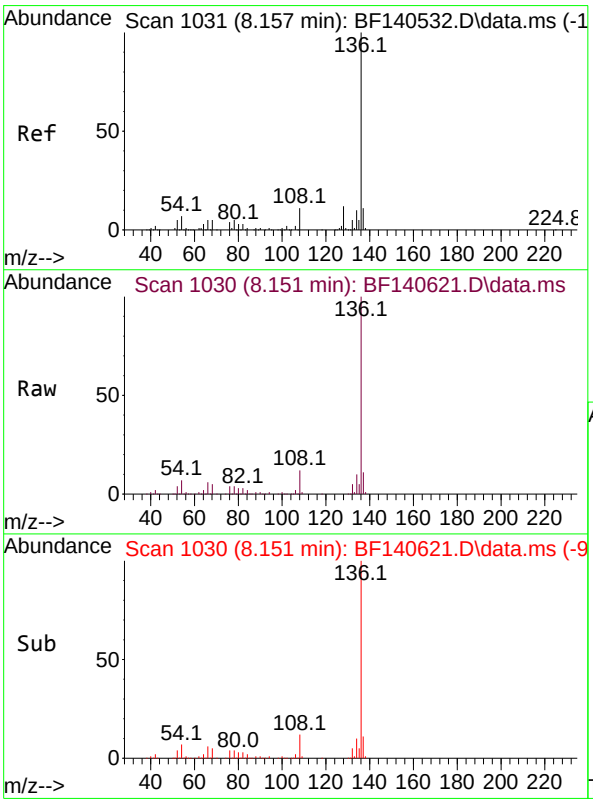

#7
Phenol-d6
Concen: 90.442 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-008

Tgt Ion: 99 Resp: 397890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.2 | 15.4 | 23.0 |
| 71 | 37.6 | 30.6 | 46.0 |

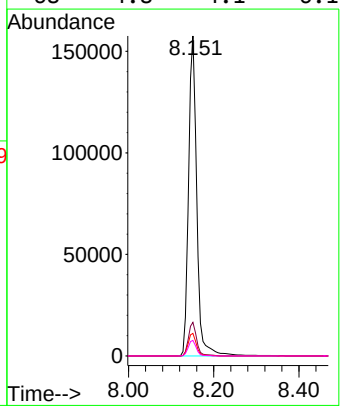


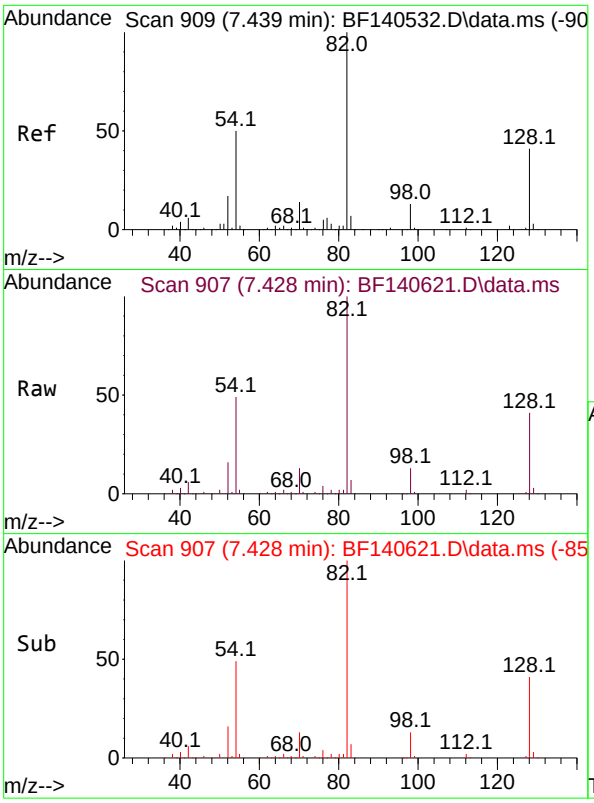




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

Tgt Ion:136 Resp: 211702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.5 | 8.6 | 13.0 |
| 54 | 7.0 | 5.8 | 8.8 |
| 68 | 4.8 | 4.1 | 6.1 |



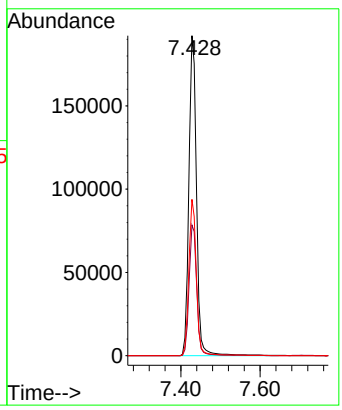


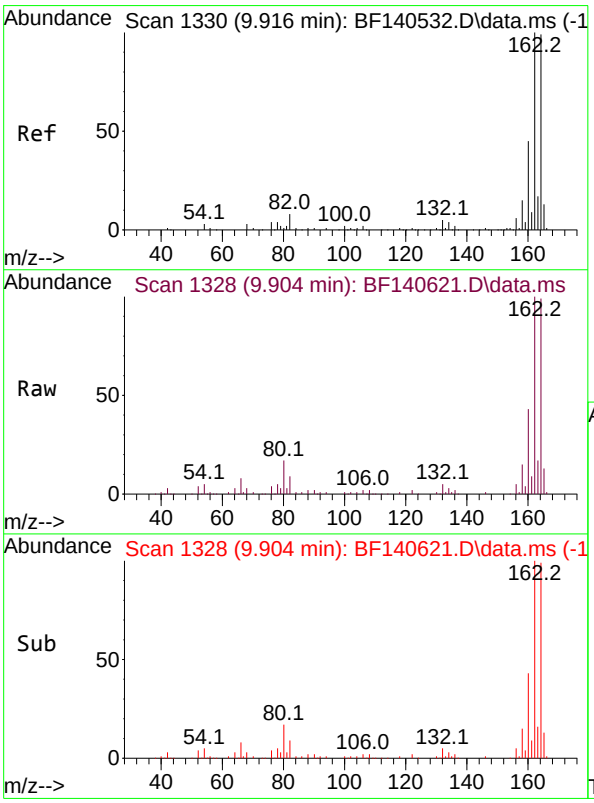

#23
Nitrobenzene-d5
Concen: 62.081 ng
RT: 7.428 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-008

Tgt Ion: 82 Resp: 256943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.8 | 33.0 | 49.4 |
| 54 | 48.9 | 39.5 | 59.3 |

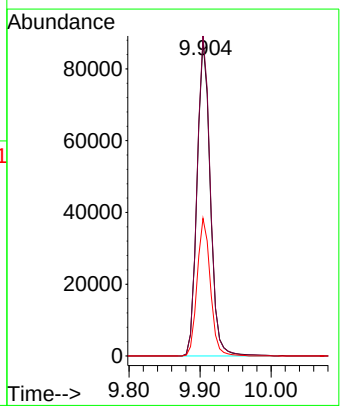


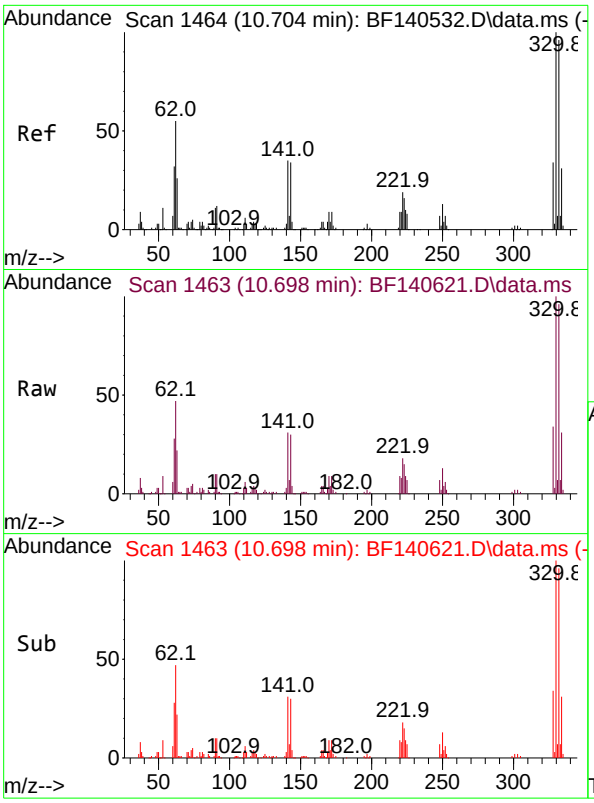




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

Tgt Ion:164 Resp: 113735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.5 | 80.6 | 120.8 |
| 160 | 43.6 | 36.2 | 54.4 |



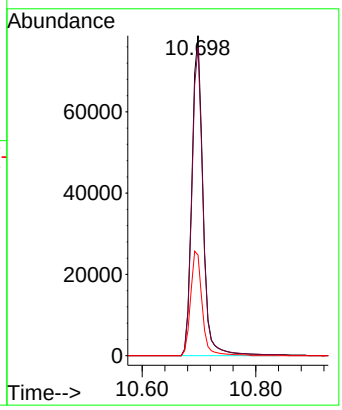


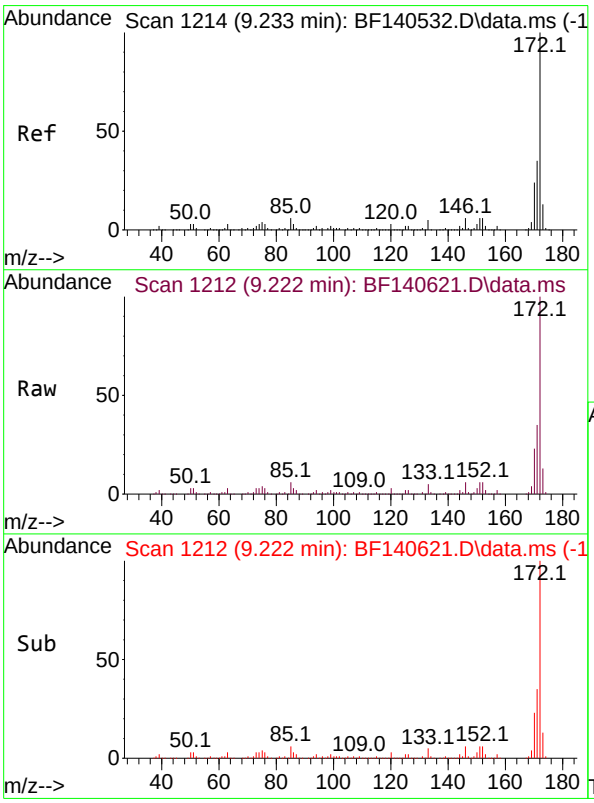

#42
2,4,6-Tribromophenol
Concen: 88.675 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-008

Tgt Ion:330 Resp: 107865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.6 | 76.9 | 115.3 |
| 141 | 33.8 | 26.7 | 40.1 |

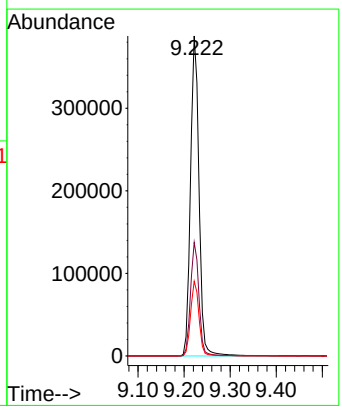


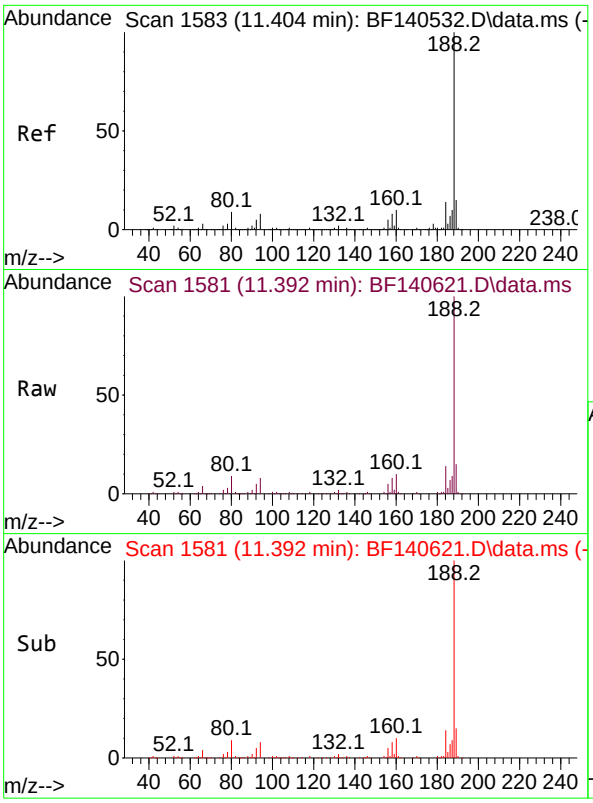




#45
2-Fluorobiphenyl
Concen: 64.926 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

Tgt Ion:172 Resp: 495612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.5 | 28.4 | 42.6 |
| 170 | 23.3 | 19.0 | 28.6 |



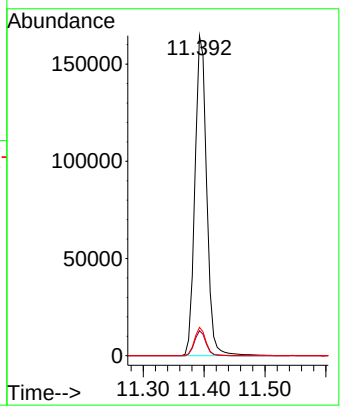


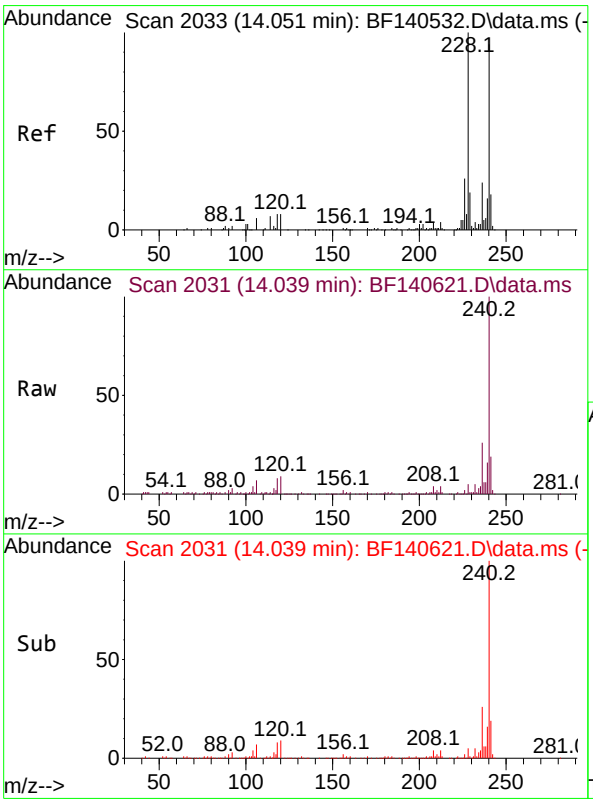

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-008

Tgt Ion:188 Resp: 220246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 7.8 | 6.4 | 9.6 |
| 80 | 8.8 | 6.9 | 10.3 |

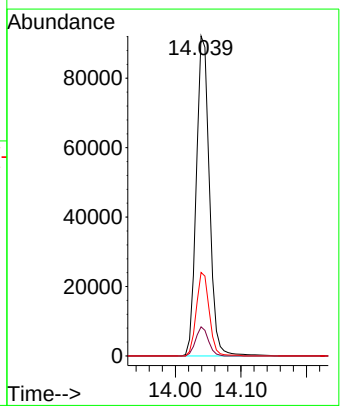


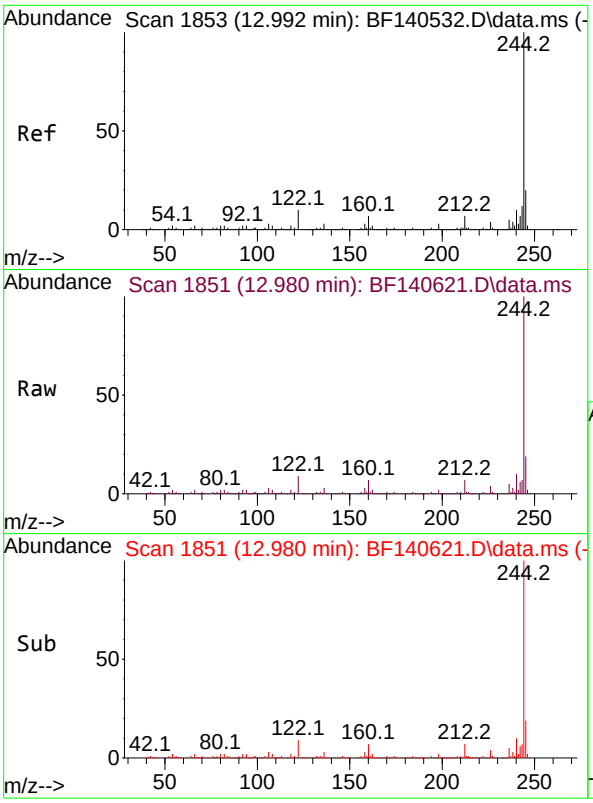




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

Tgt Ion:240 Resp: 128275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.1 | 7.3 | 10.9 |
| 236 | 26.1 | 20.6 | 31.0 |



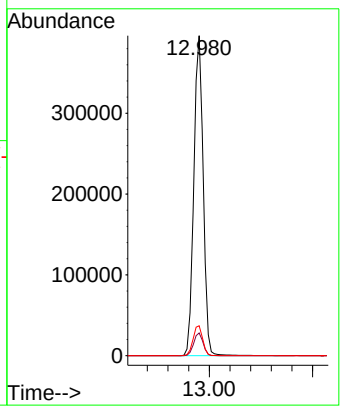


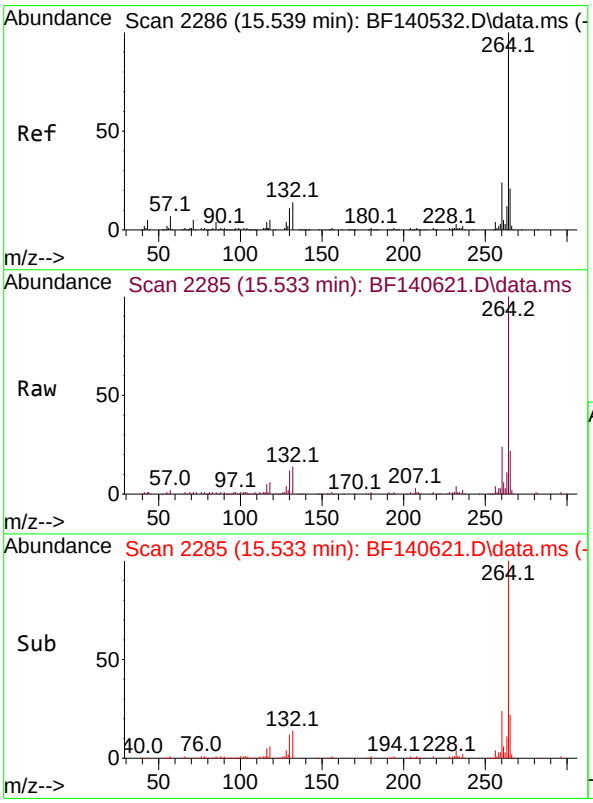

#79
Terphenyl-d14
Concen: 60.495 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-008

Tgt Ion:244 Resp: 498356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 5.8 | 8.8 |
| 122 | 9.3 | 8.0 | 12.0 |

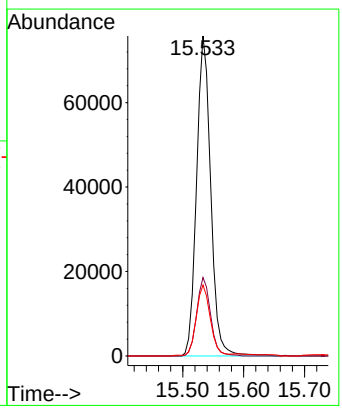



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2285
Delta R.T. -0.006 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

Tgt Ion:264 Resp: 122422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.5 | 19.0 | 28.6 |
| 265 | 22.1 | 16.6 | 25.0 |



Sample Results: **BF140621.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140621.D
Acq On : 25 Nov 2024 23:22
Operator : RC/JU
Sample : P4860-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-008

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: BF140621.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.081 | 503 | 508 | 518 | rVB | 15257 | 23354 | 1.67% | 0.243% |
| 2 | 5.493 | 573 | 578 | 593 | rBV | 816602 | 1088857 | 77.80% | 11.309% |
| 3 | 6.504 | 744 | 750 | 768 | rBV | 846002 | 1125236 | 80.40% | 11.687% |
| 4 | 6.869 | 807 | 812 | 819 | rBV | 273360 | 332648 | 23.77% | 3.455% |
| 5 | 7.428 | 902 | 907 | 919 | rBV | 546891 | 716794 | 51.21% | 7.445% |
| 6 | 8.151 | 1025 | 1030 | 1048 | rBV | 320042 | 420219 | 30.02% | 4.364% |
| 7 | 9.222 | 1207 | 1212 | 1222 | rBV | 1118456 | 1399617 | 100.00% | 14.536% |
| 8 | 9.904 | 1323 | 1328 | 1345 | rVB | 368694 | 473336 | 33.82% | 4.916% |
| 9 | 10.616 | 1444 | 1449 | 1458 | rBV | 269816 | 342604 | 24.48% | 3.558% |
| 10 | 10.698 | 1458 | 1463 | 1479 | rVV | 581555 | 816579 | 58.34% | 8.481% |
| 11 | 10.928 | 1497 | 1502 | 1509 | rBV | 45411 | 57699 | 4.12% | 0.599% |
| 12 | 11.392 | 1576 | 1581 | 1590 | rBV | 389017 | 530674 | 37.92% | 5.512% |
| 13 | 11.916 | 1665 | 1670 | 1682 | rBV2 | 35355 | 69317 | 4.95% | 0.720% |
| 14 | 12.416 | 1750 | 1755 | 1758 | rBV | 11711 | 15860 | 1.13% | 0.165% |
| 15 | 12.610 | 1784 | 1788 | 1793 | rBV | 25963 | 33045 | 2.36% | 0.343% |
| 16 | 12.839 | 1822 | 1827 | 1834 | rBV | 24219 | 37157 | 2.65% | 0.386% |
| 17 | 12.980 | 1845 | 1851 | 1861 | rBV | 1032712 | 1315490 | 93.99% | 13.663% |
| 18 | 13.280 | 1899 | 1902 | 1908 | rVB6 | 13217 | 17638 | 1.26% | 0.183% |
| 19 | 14.039 | 2026 | 2031 | 2044 | rVB | 267006 | 397938 | 28.43% | 4.133% |
| 20 | 15.104 | 2207 | 2212 | 2218 | rBV | 18719 | 40280 | 2.88% | 0.418% |
| 21 | 15.410 | 2260 | 2264 | 2270 | rVB | 10446 | 15191 | 1.09% | 0.158% |
| 22 | 15.474 | 2270 | 2275 | 2279 | rBV | 15041 | 26439 | 1.89% | 0.275% |
| 23 | 15.533 | 2279 | 2285 | 2299 | rVB | 204114 | 332339 | 23.74% | 3.452% |

Sum of corrected areas: 9628311

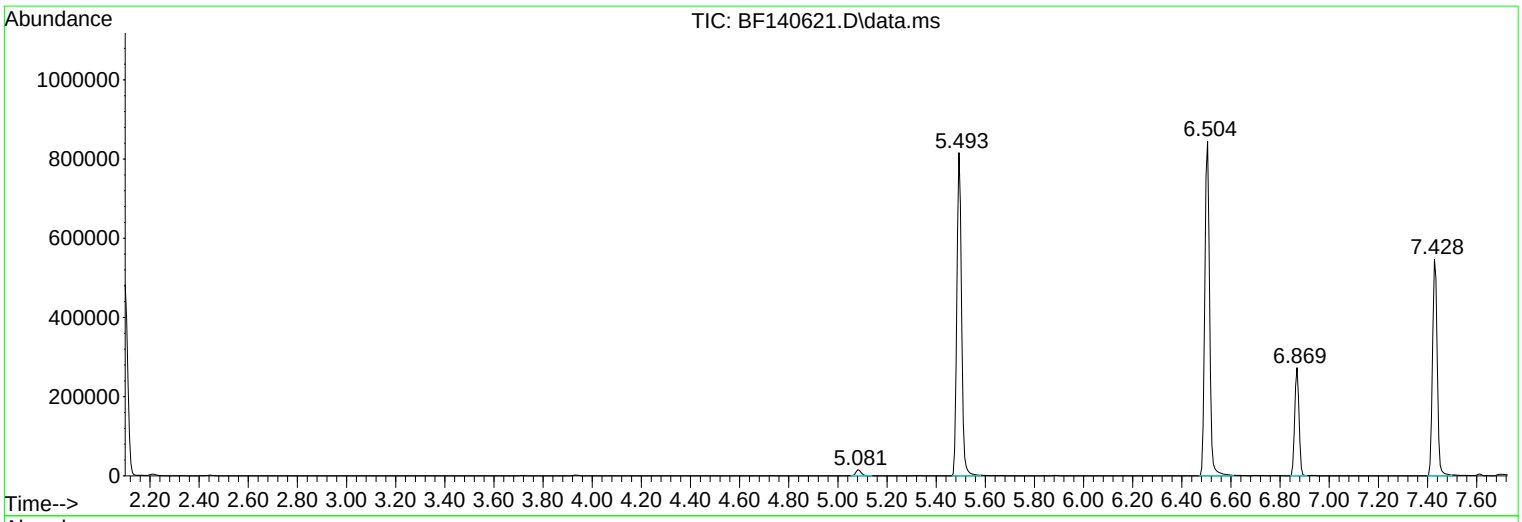
Sample Results: **BF140621.D**

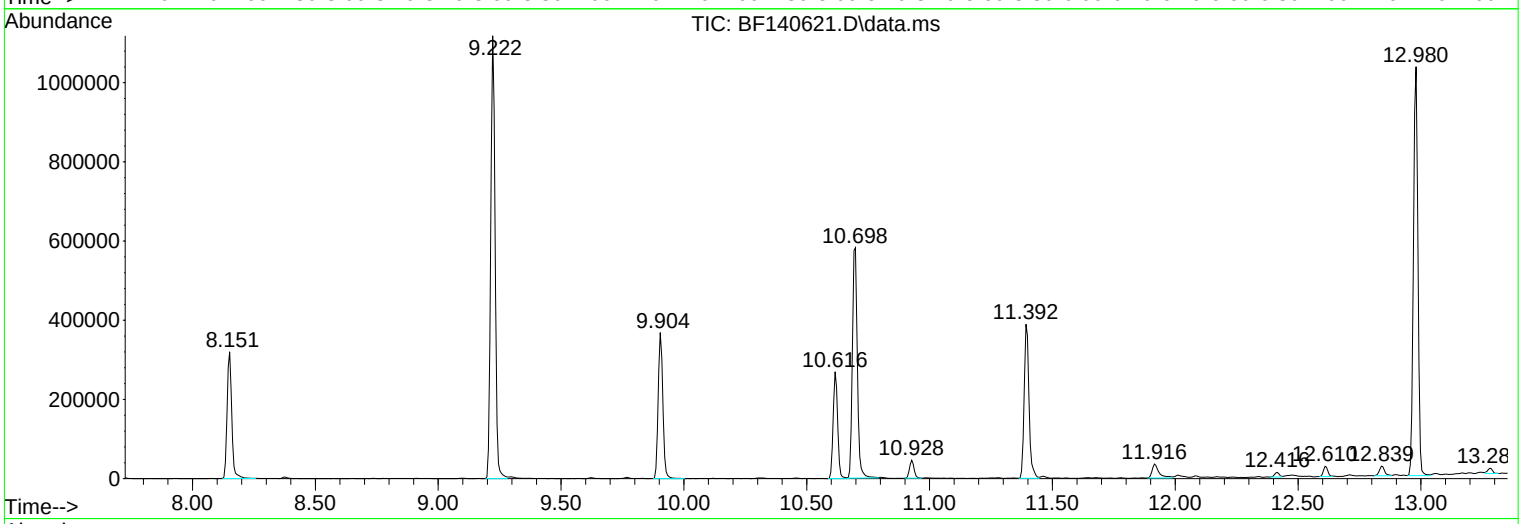
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140621.D
Acq On : 25 Nov 2024 23:22
Operator : RC/JU
Sample : P4860-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

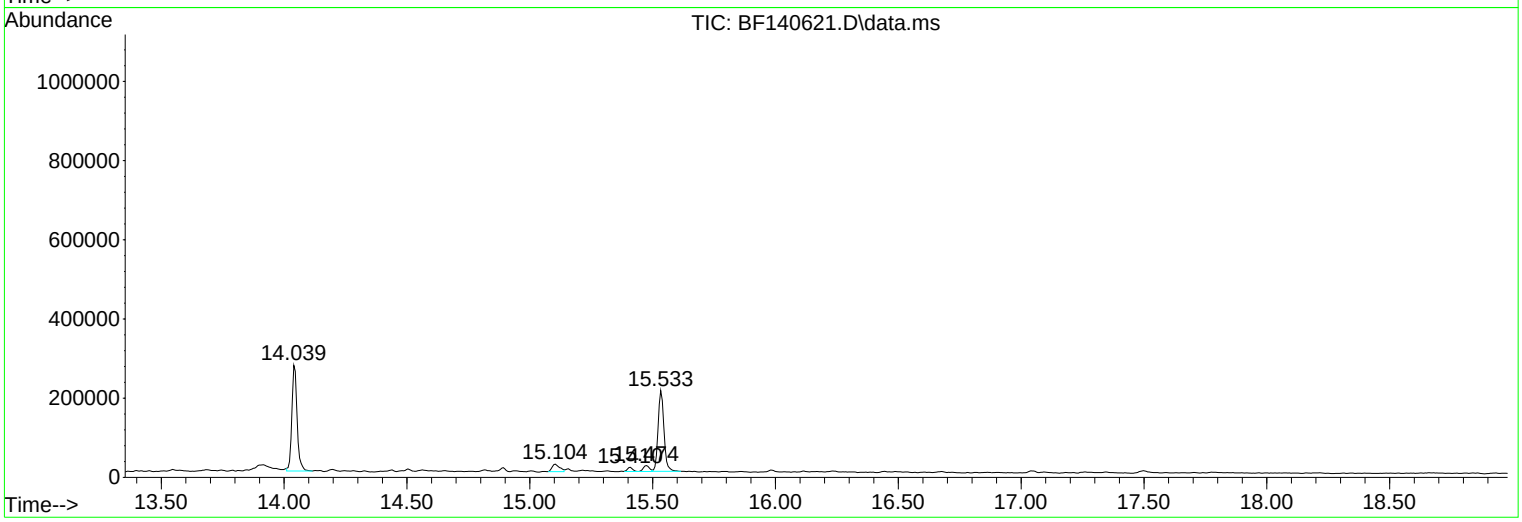
**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-008

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 : BF140621.D
Acq On : 25 Nov 2024 23:22
Operator : RC/JU
Sample : P4860-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-008

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

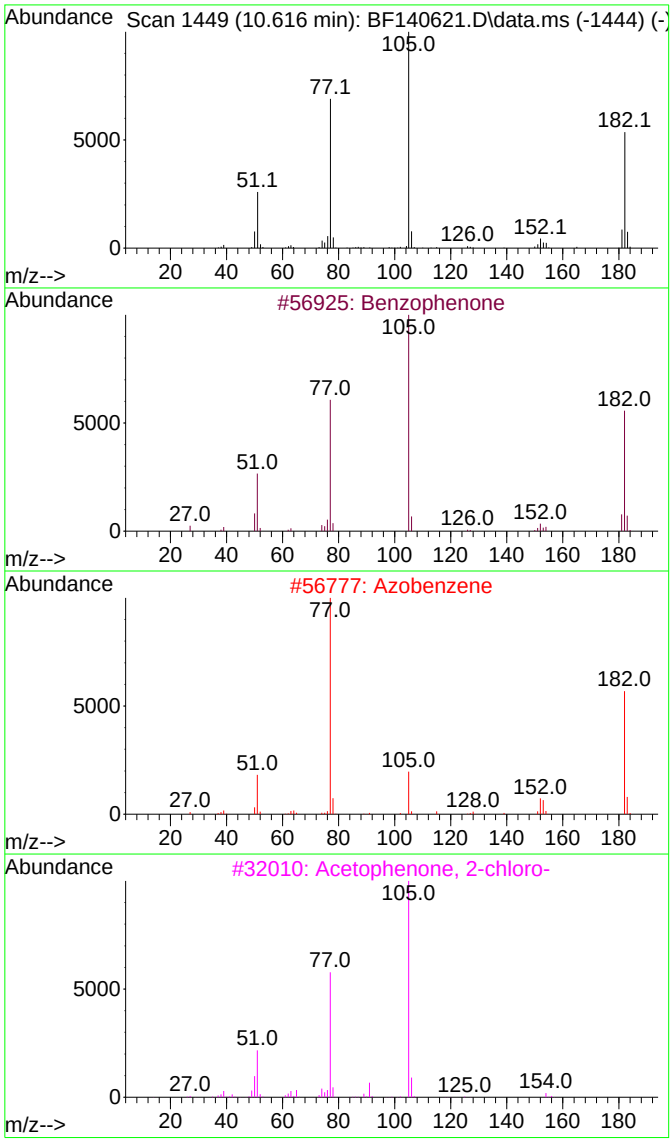
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

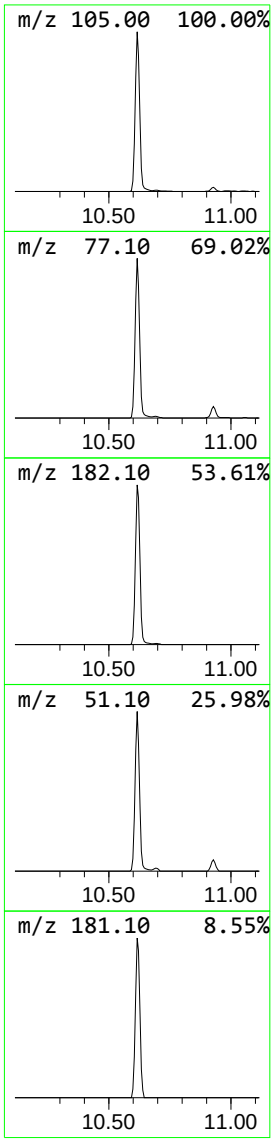
**********

Peak Number 1 Benzophenone Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.616 | 14.48 ng | 342604 | Acenaphthene-d10 | 9.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 96 |
| 2 | Azobenzene | 182 | C12H10N2 | 000103-33-3 | 72 |
| 3 | Acetophenone, 2-chloro- | 154 | C8H7ClO | 000532-27-4 | 49 |
| 4 | Benzoyl bromide | 184 | C7H5BrO | 000618-32-6 | 47 |
| 5 | Methyl 2-benzoyl-4-cyanobutanoate | 231 | C13H13NO3 | 1010486-83-8 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140621.D
Acq On : 25 Nov 2024 23:22
Operator : RC/JU
Sample : P4860-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-008

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

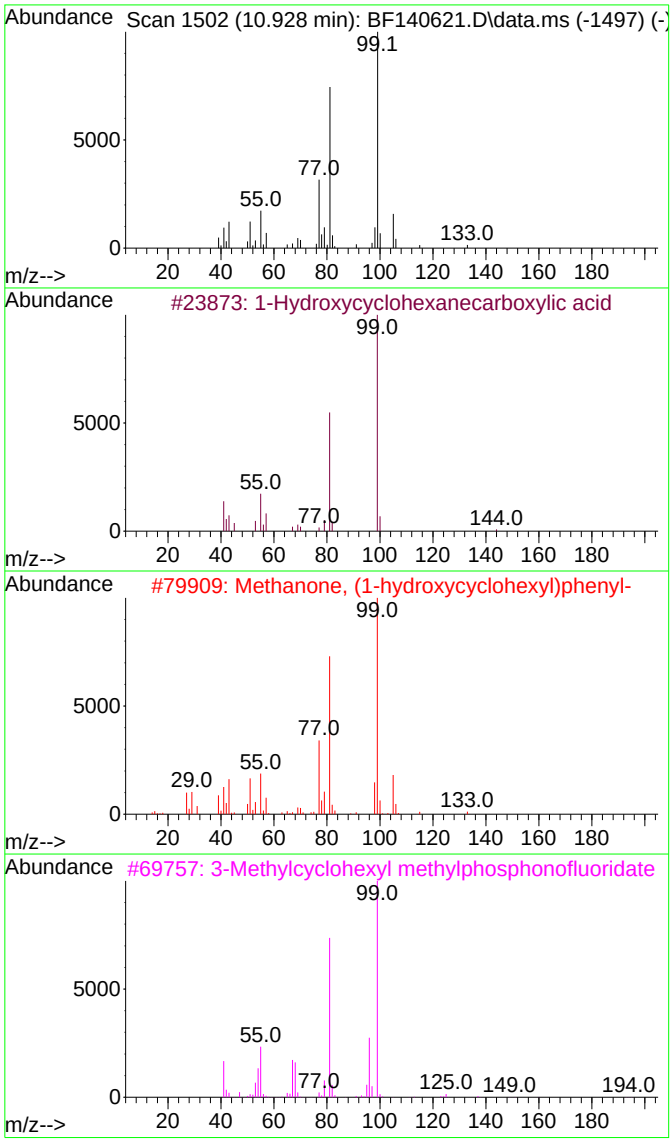
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

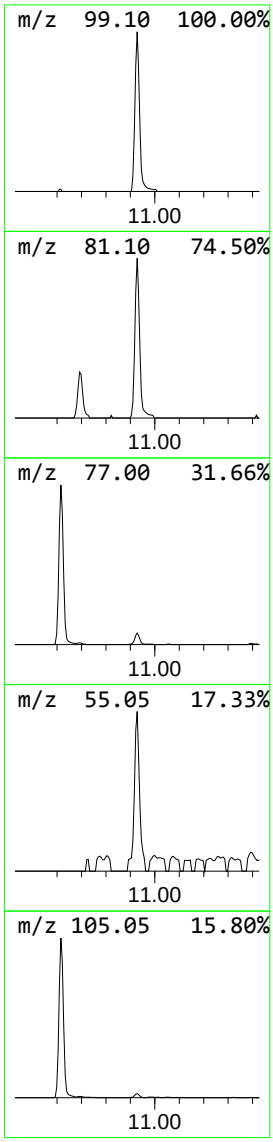
**********

Peak Number 2 1-Hydroxycyclohexanecarboxy... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.928 | 2.17 ng | 57699 | Phenanthrene-d10 | 11.392 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hydroxycyclohexanecarboxylic acid | 144 | C7H12O3 | 001123-28-0 | 59 |
| 2 | Methanone, (1-hydroxycyclohexyl)... | 204 | C13H16O2 | 000947-19-3 | 38 |
| 3 | 3-Methylcyclohexyl methylphospho... | 194 | C8H16FO2P | 113548-86-0 | 38 |
| 4 | 1,1'-Bicyclohexyl-1,1'-diol | 198 | C12H22O2 | 002888-11-1 | 38 |
| 5 | Cyclohexanol, 1-ethyl- | 128 | C8H16O | 001940-18-7 | 38 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140621.D
Acq On : 25 Nov 2024 23:22
Operator : RC/JU
Sample : P4860-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-008

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

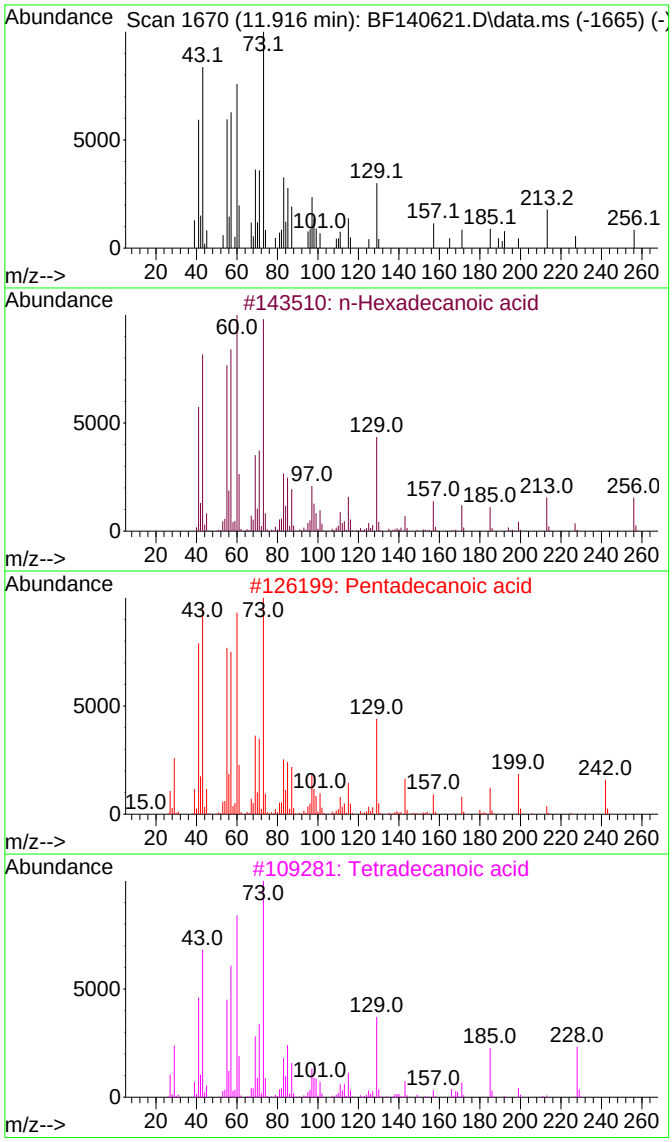
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

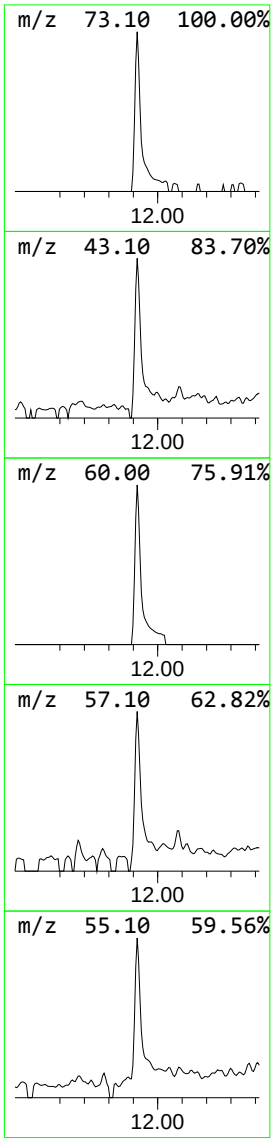
**********

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.916 | 2.61 ng | 69317 | Phenanthrene-d10 | 11.392 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 83 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 80 |
| 4 | Undecanoic acid | 186 | C11H22O2 | 000112-37-8 | 72 |
| 5 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 64 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140621.D
Acq On : 25 Nov 2024 23:22
Operator : RC/JU
Sample : P4860-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-008

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 |
| Benzophenone | 10.616 | 14.5 | ng | 342604 | 3 | 9.904 | 473336 | 20.0 |
| 1-Hydroxycycloh... | 10.928 | 2.2 | ng | 57699 | 4 | 11.392 | 530674 | 20.0 |
| n-Hexadecanoic ... | 11.916 | 2.6 | ng | 69317 | 4 | 11.392 | 530674 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-007

Quant Time: Nov 22 15:59:54 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

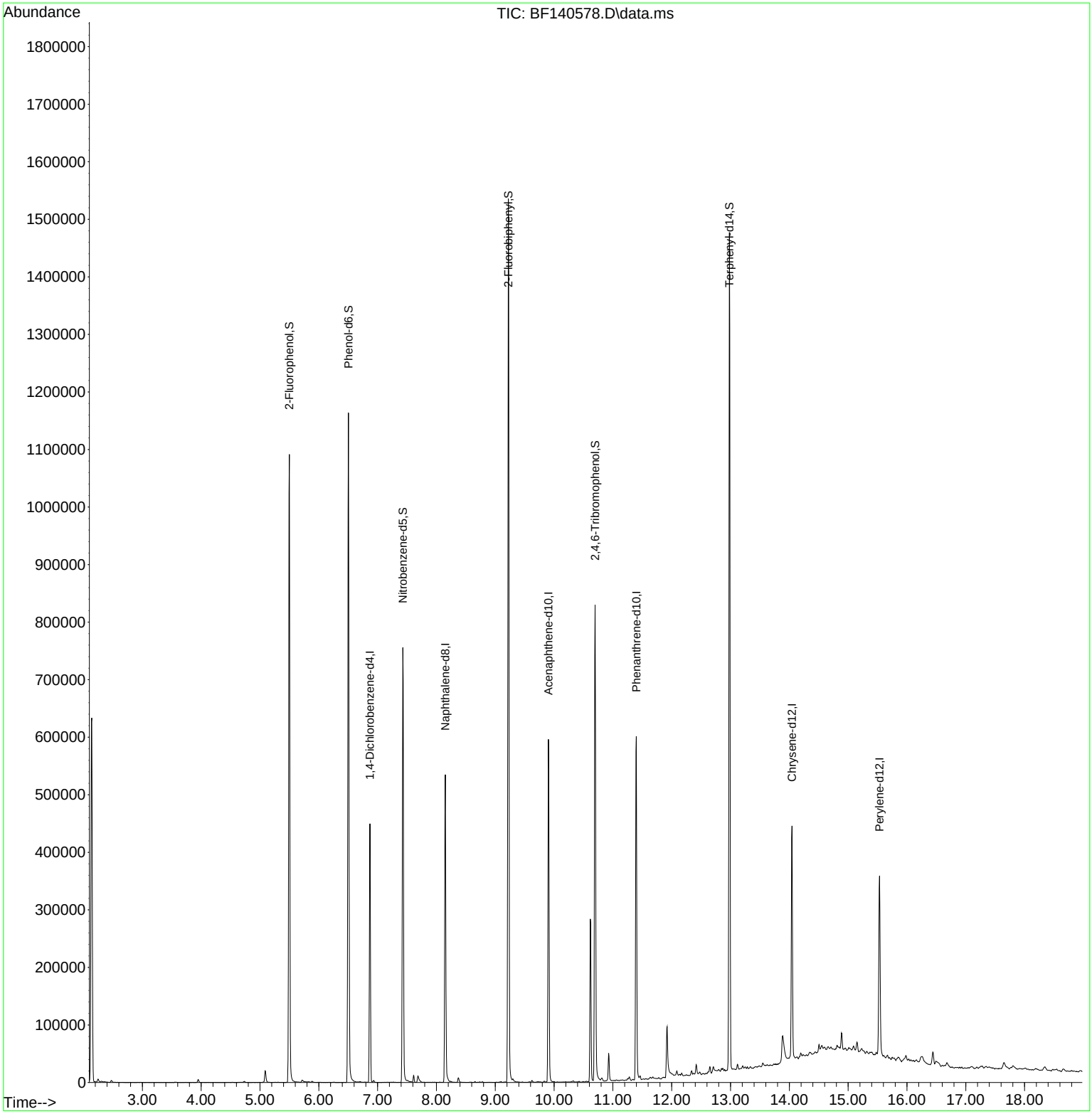
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.869 | 152 | 93283 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.151 | 136 | 346410 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.904 | 164 | 184115 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.398 | 188 | 340852 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.045 | 240 | 203007 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.533 | 264 | 190451 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.499 | 112 | 411293 | 75.228 | ng | 0.00 |
| 7) Phenol-d6 | 6.504 | 99 | 543906 | 75.251 | ng | -0.01 |
| 23) Nitrobenzene-d5 | 7.428 | 82 | 354742 | 52.381 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.698 | 330 | 146071 | 74.181 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 689195 | 55.773 | ng | -0.01 |
| 79) Terphenyl-d14 | 12.980 | 244 | 705882 | 54.143 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |

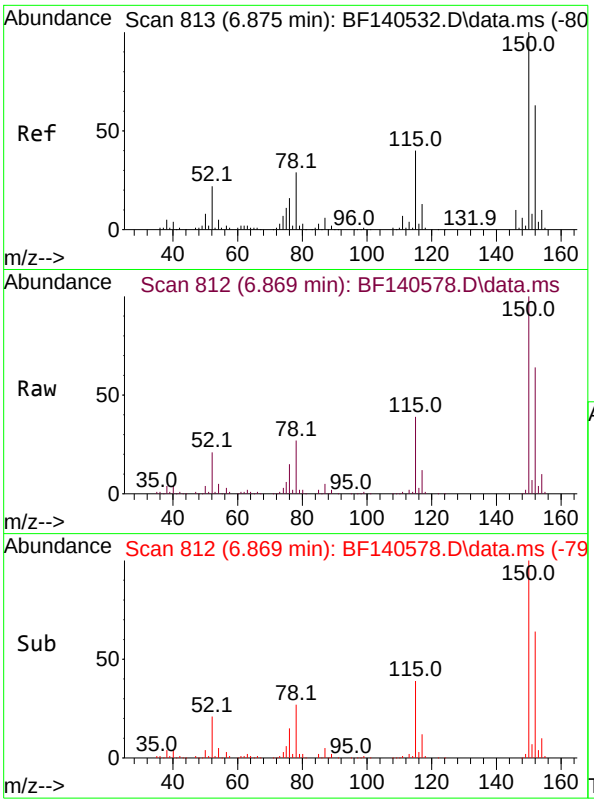
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-007

Quant Time: Nov 22 15:59:54 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



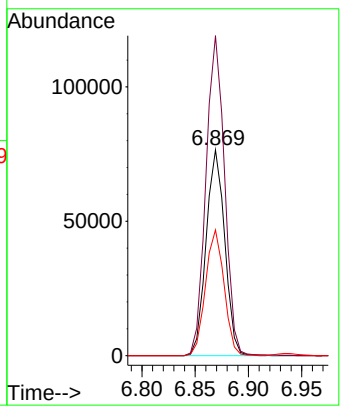


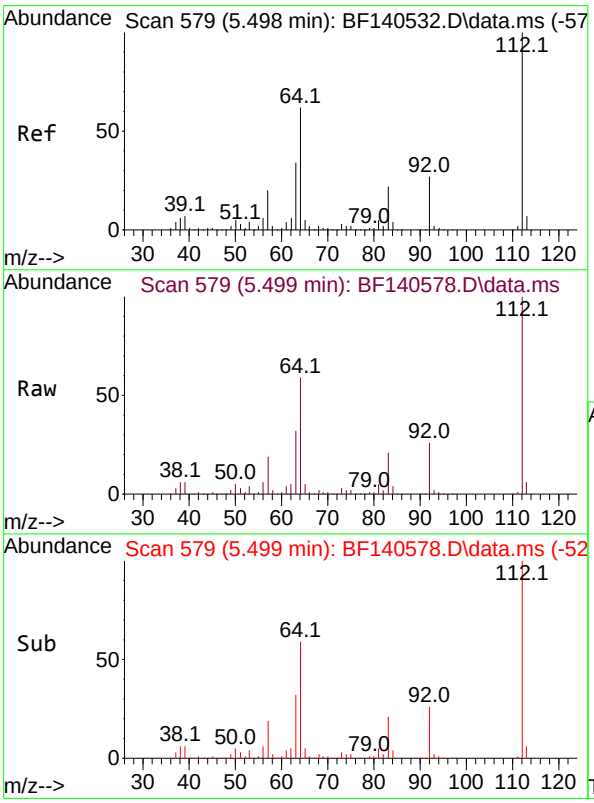

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-007

Tgt Ion:152 Resp: 93283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.5 | 128.5 | 192.7 |
| 115 | 61.1 | 50.2 | 75.4 |

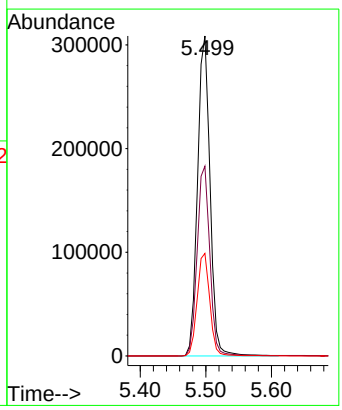


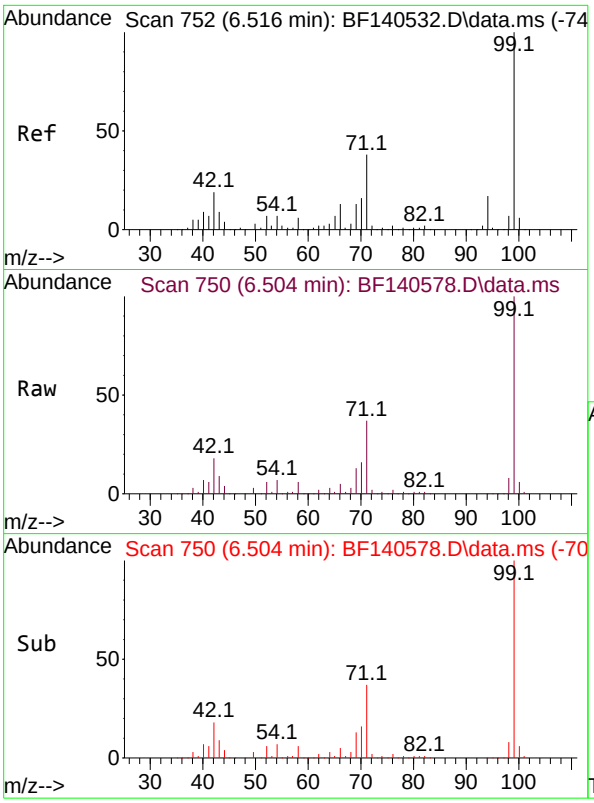




#5
2-Fluorophenol
Concen: 75.228 ng
RT: 5.499 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

Tgt Ion:112 Resp: 411293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 59.3 | 49.2 | 73.8 |
| 63 | 32.1 | 27.0 | 40.4 |



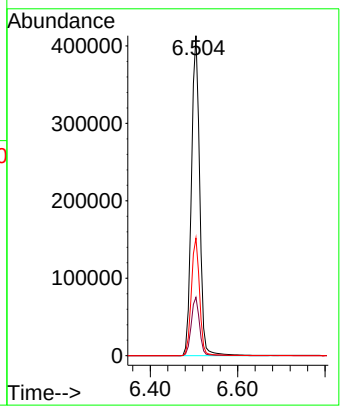


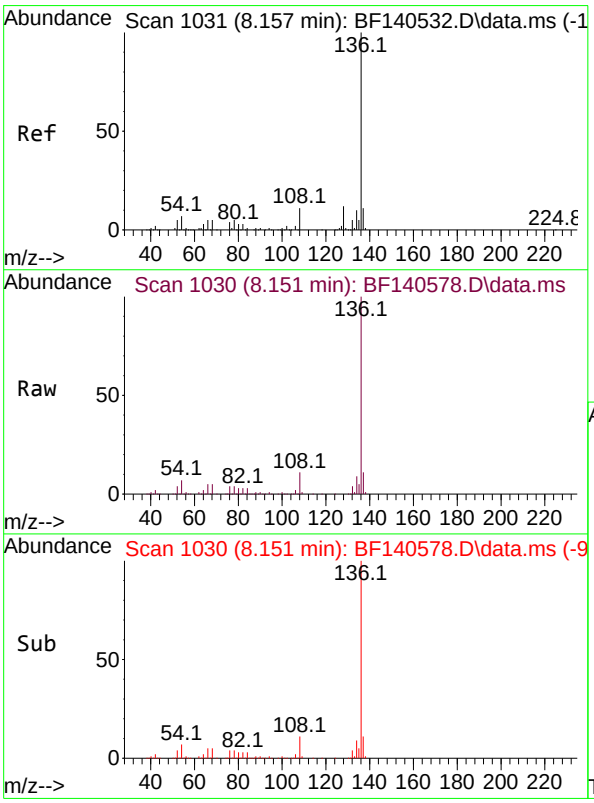

#7
Phenol-d6
Concen: 75.251 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-007

Tgt Ion: 99 Resp: 543906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.2 | 15.4 | 23.0 |
| 71 | 36.7 | 30.6 | 46.0 |

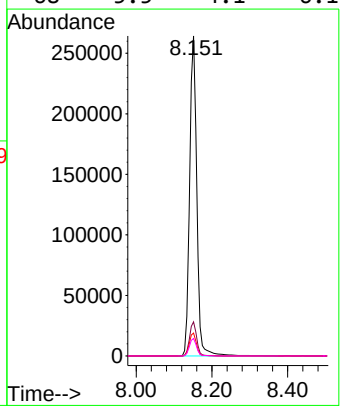


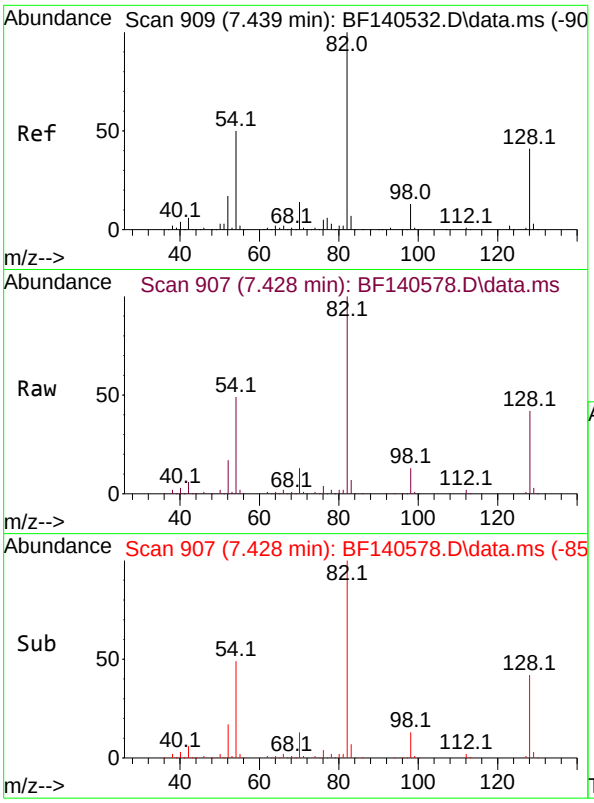




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

Tgt Ion:136 Resp: 346410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.7 | 8.6 | 13.0 |
| 54 | 7.2 | 5.8 | 8.8 |
| 68 | 5.5 | 4.1 | 6.1 |



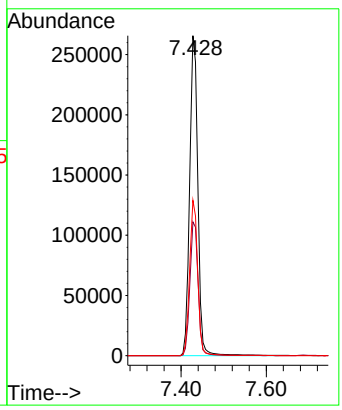


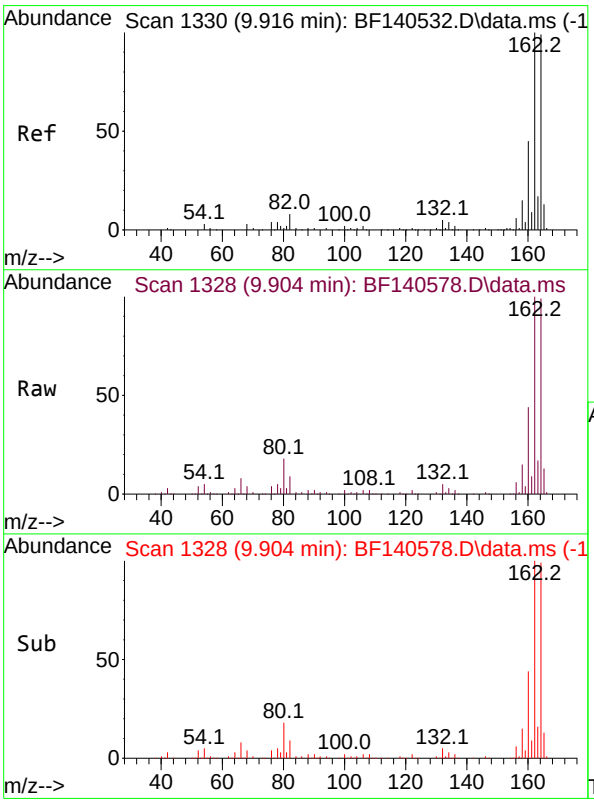

#23
Nitrobenzene-d5
Concen: 52.381 ng
RT: 7.428 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-007

Tgt Ion: 82 Resp: 354742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.8 | 33.0 | 49.4 |
| 54 | 48.6 | 39.5 | 59.3 |

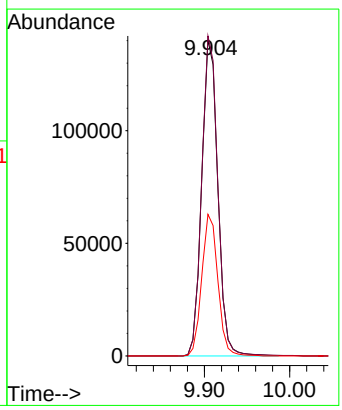


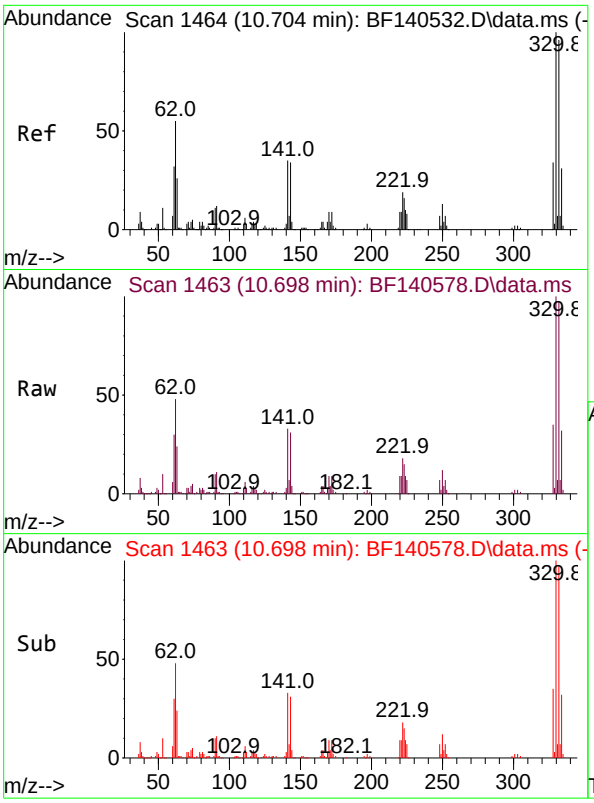




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

Tgt Ion:164 Resp: 184115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.3 | 80.6 | 120.8 |
| 160 | 44.8 | 36.2 | 54.4 |



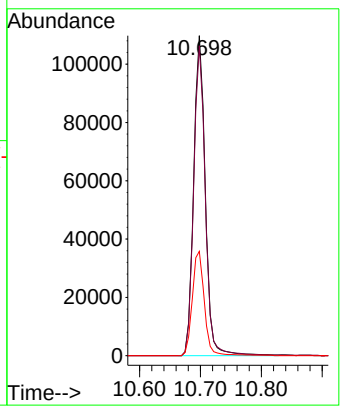


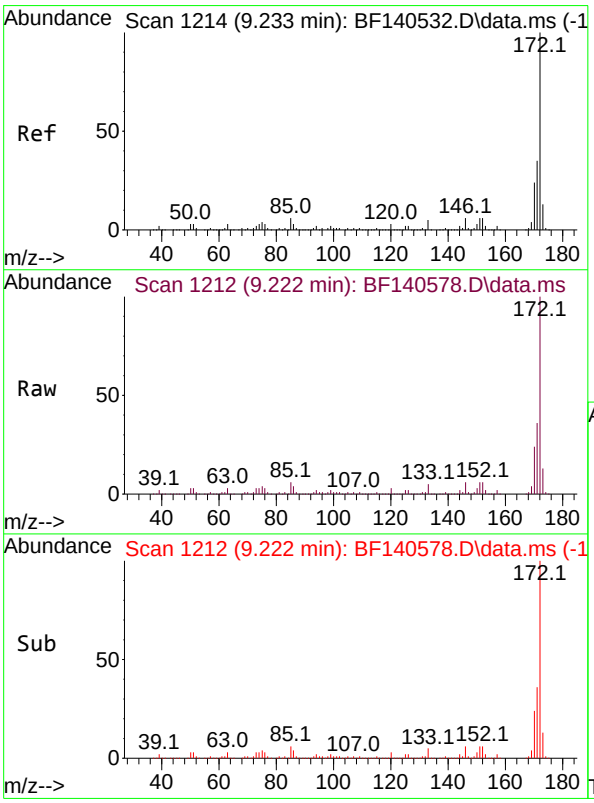

#42
2,4,6-Tribromophenol
Concen: 74.181 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-007

Tgt Ion:330 Resp: 146071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.1 | 76.9 | 115.3 |
| 141 | 33.9 | 26.7 | 40.1 |

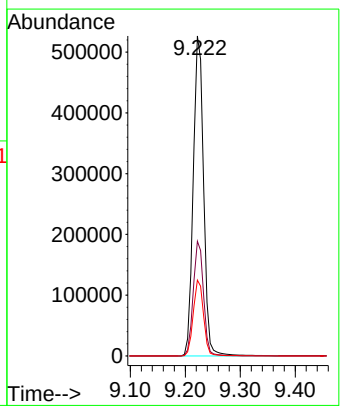


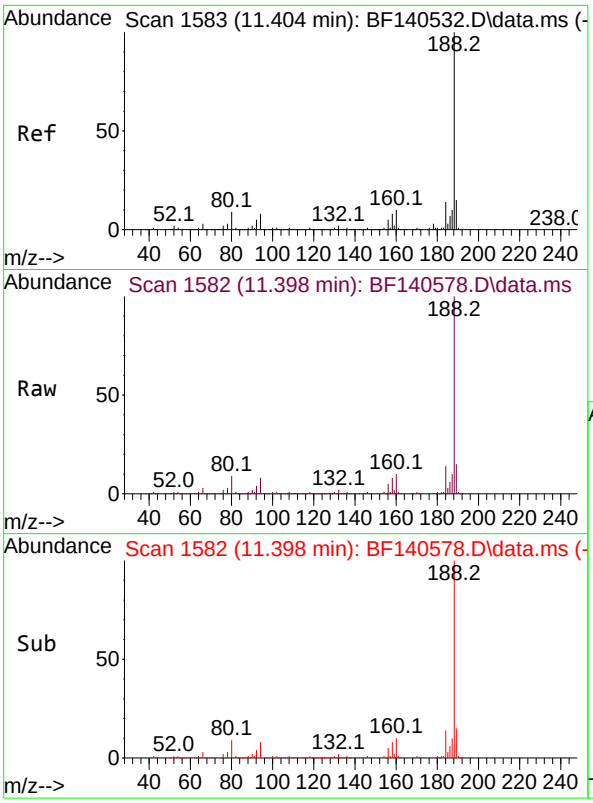




#45
2-Fluorobiphenyl
Concen: 55.773 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

Tgt Ion:172 Resp: 689195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.9 | 28.4 | 42.6 |
| 170 | 23.7 | 19.0 | 28.6 |



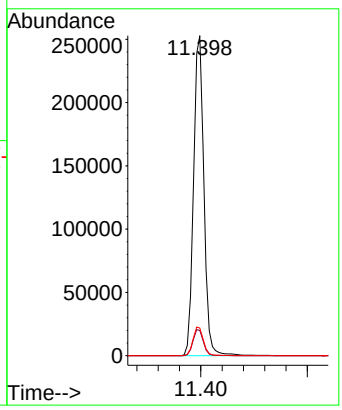


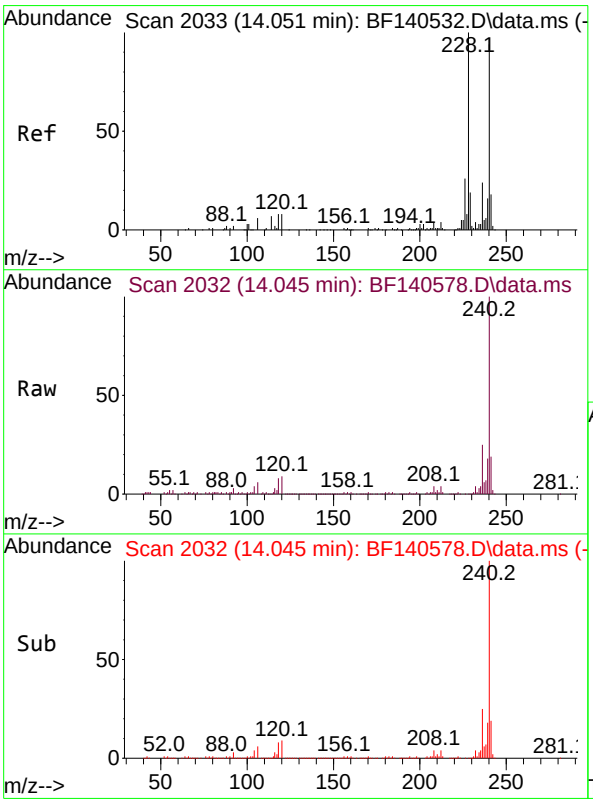

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-007

Tgt Ion:188 Resp: 340852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 7.9 | 6.4 | 9.6 |
| 80 | 8.6 | 6.9 | 10.3 |

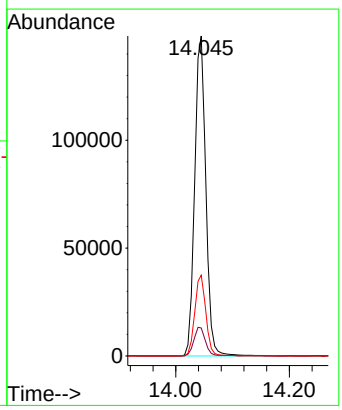


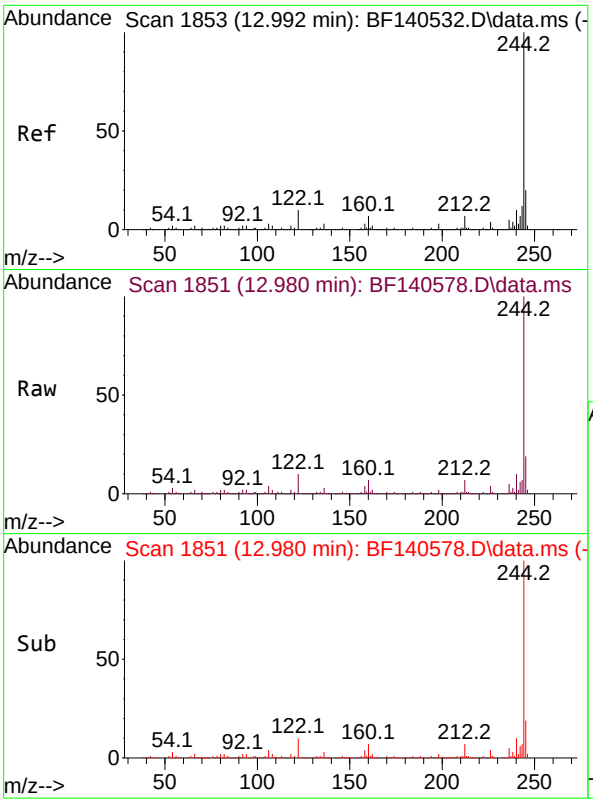




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

Tgt Ion:240 Resp: 203007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 8.7 | 7.3 | 10.9 |
| 236 | 25.3 | 20.6 | 31.0 |



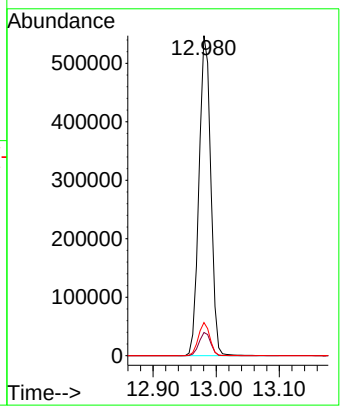


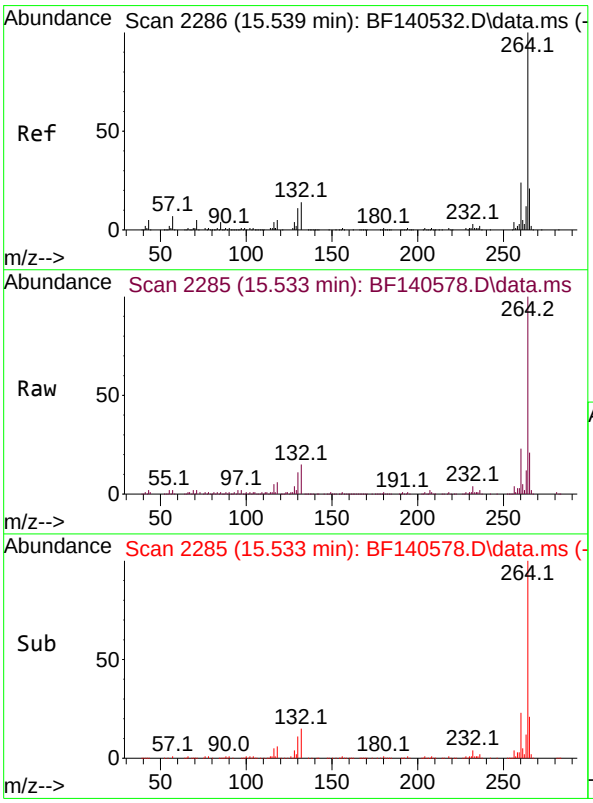

#79
Terphenyl-d14
Concen: 54.143 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-007

Tgt Ion:244 Resp: 705882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.3 | 5.8 | 8.8 |
| 122 | 10.4 | 8.0 | 12.0 |

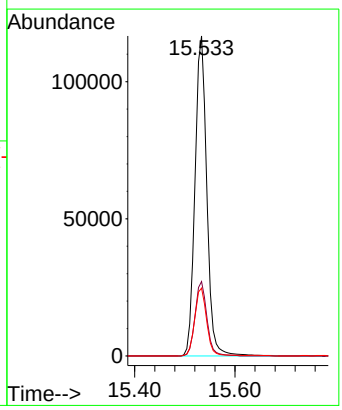



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2285
Delta R.T. -0.006 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

Tgt Ion:264 Resp: 190451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.3 | 19.0 | 28.6 |
| 265 | 21.2 | 16.6 | 25.0 |



Sample Results: **BF140578.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-007

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: BF140578.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.140 | 3 | 8 | 15 | rVB | 632045 | 997274 | 50.50% | 6.785% |
| 2 | 5.087 | 501 | 509 | 520 | rBV | 20430 | 34982 | 1.77% | 0.238% |
| 3 | 5.499 | 573 | 579 | 598 | rBV | 1091468 | 1462476 | 74.05% | 9.951% |
| 4 | 6.504 | 744 | 750 | 774 | rBV | 1163733 | 1541971 | 78.08% | 10.492% |
| 5 | 6.869 | 807 | 812 | 817 | rBV | 449413 | 544959 | 27.59% | 3.708% |
| 6 | 7.428 | 902 | 907 | 918 | rBV | 755586 | 995695 | 50.42% | 6.775% |
| 7 | 7.687 | 947 | 951 | 963 | rVB | 11169 | 23683 | 1.20% | 0.161% |
| 8 | 8.151 | 1024 | 1030 | 1043 | rBV | 534347 | 690774 | 34.98% | 4.700% |
| 9 | 9.222 | 1207 | 1212 | 1223 | rBV | 1535184 | 1974892 | 100.00% | 13.437% |
| 10 | 9.904 | 1323 | 1328 | 1341 | rBV | 595458 | 773003 | 39.14% | 5.260% |
| 11 | 10.616 | 1445 | 1449 | 1458 | rBV | 282552 | 368338 | 18.65% | 2.506% |
| 12 | 10.698 | 1458 | 1463 | 1478 | rVV | 826556 | 1113695 | 56.39% | 7.578% |
| 13 | 10.928 | 1495 | 1502 | 1512 | rBV | 47805 | 65079 | 3.30% | 0.443% |
| 14 | 11.398 | 1576 | 1582 | 1590 | rBV | 597238 | 805271 | 40.78% | 5.479% |
| 15 | 11.922 | 1666 | 1671 | 1680 | rBV | 88391 | 156485 | 7.92% | 1.065% |
| 16 | 12.416 | 1751 | 1755 | 1761 | rBV | 16245 | 22820 | 1.16% | 0.155% |
| 17 | 12.980 | 1846 | 1851 | 1859 | rBV | 1454675 | 1855529 | 93.96% | 12.625% |
| 18 | 13.886 | 2000 | 2005 | 2018 | rBV4 | 42820 | 123822 | 6.27% | 0.842% |
| 19 | 14.045 | 2027 | 2032 | 2041 | rVB | 403201 | 552594 | 27.98% | 3.760% |
| 20 | 14.886 | 2172 | 2175 | 2180 | rVB | 28716 | 39381 | 1.99% | 0.268% |
| 21 | 15.533 | 2279 | 2285 | 2295 | rVB | 312999 | 518542 | 26.26% | 3.528% |
| 22 | 16.439 | 2435 | 2439 | 2444 | rVB4 | 20877 | 35879 | 1.82% | 0.244% |

Sum of corrected areas: 14697144

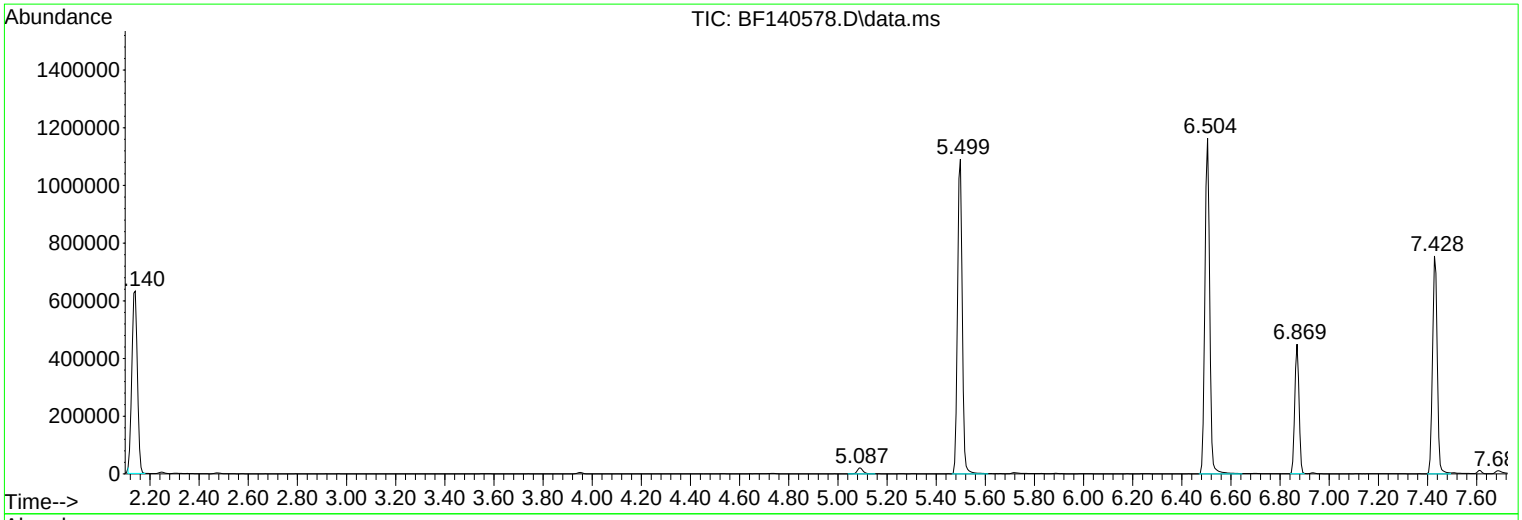
Sample Results: **BF140578.D**

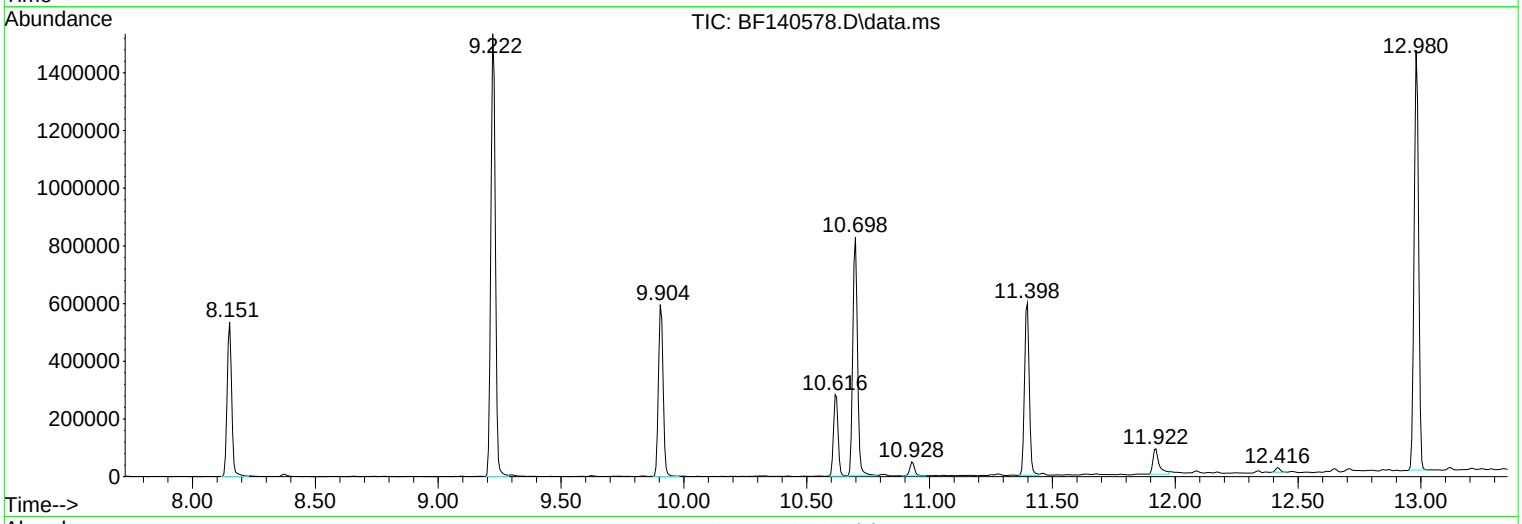
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

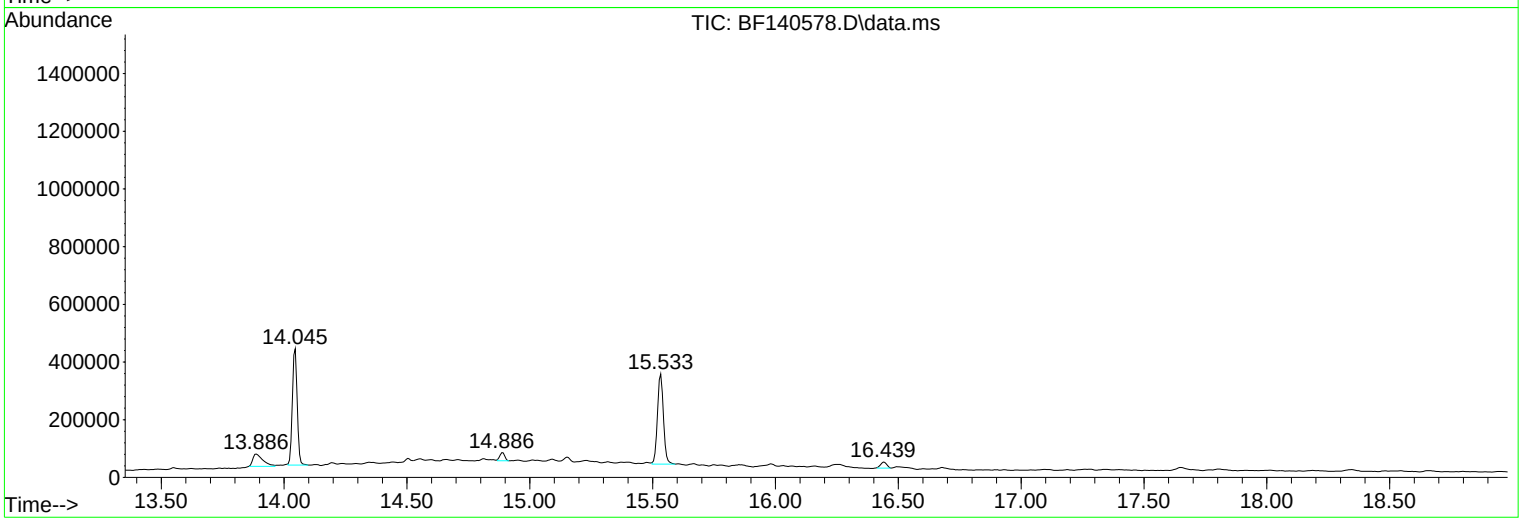
**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-007

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\BF112224\
Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-007

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

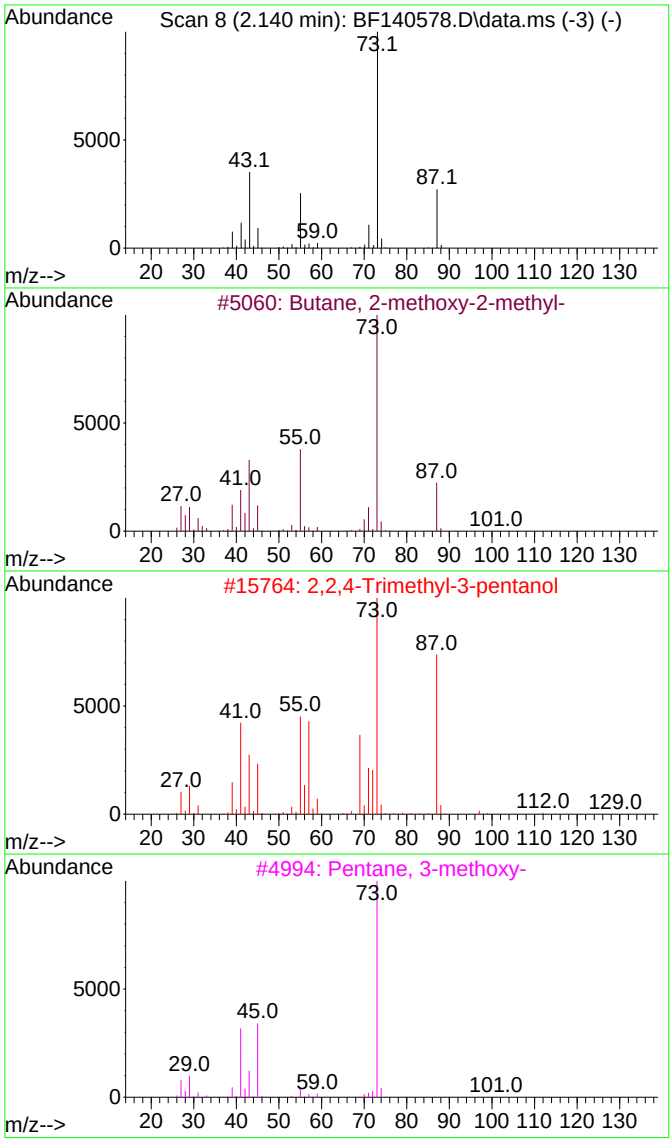
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

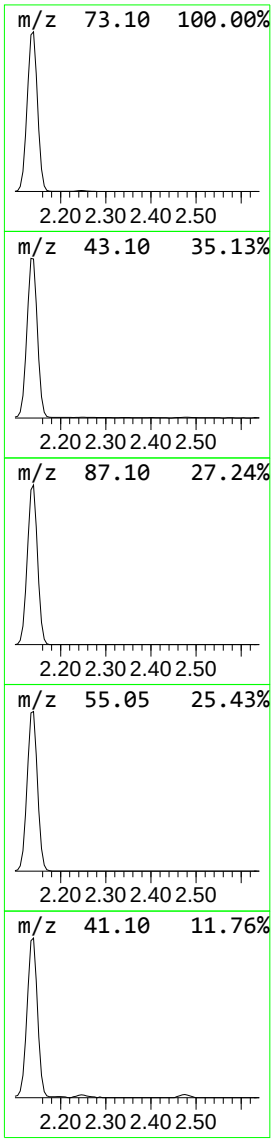
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.140 | 36.60 ng | 997274 | 1,4-Dichlorobenzene-d4 | 6.869 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 83 |
| 2 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 40 |
| 3 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 17 |
| 4 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 12 |
| 5 | Borane, dimethoxy- | 74 | C2H7BO2 | 004542-61-4 | 9 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-007

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

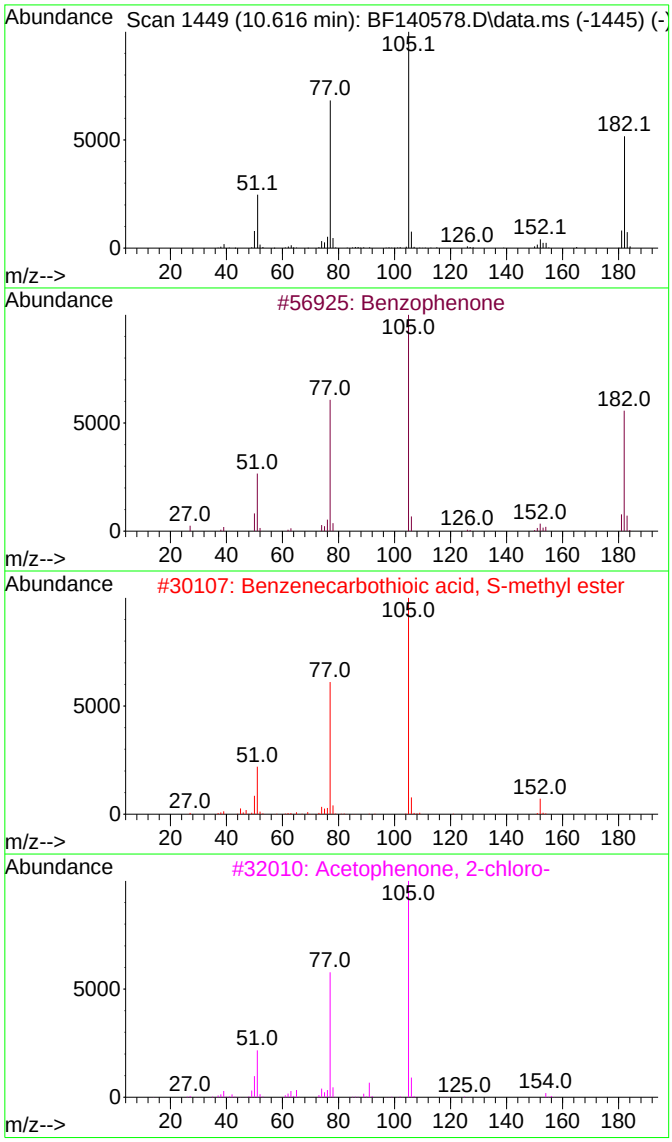
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

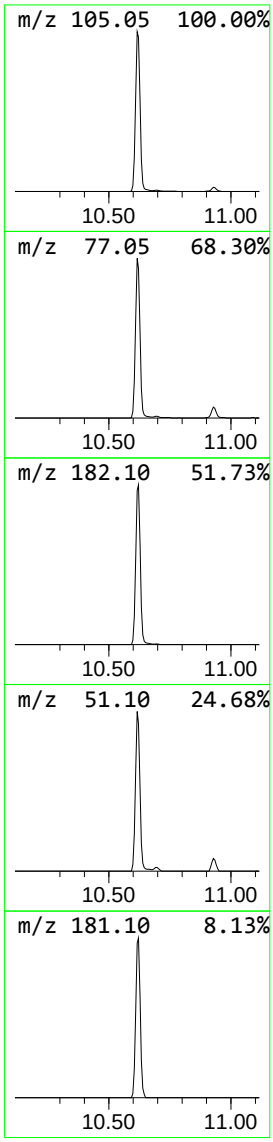
**********

Peak Number 2 Benzophenone Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.616 | 9.53 ng | 368338 | Acenaphthene-d10 | 9.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 96 |
| 2 | Benzenecarbothioic acid, S-methy... | 152 | C8H8OS | 005925-68-8 | 52 |
| 3 | Acetophenone, 2-chloro- | 154 | C8H7ClO | 000532-27-4 | 49 |
| 4 | Benzenepropanenitrile, .beta.-oxo- | 145 | C9H7NO | 000614-16-4 | 47 |
| 5 | .alpha.,.alpha.-Dichloroacetophe... | 188 | C8H6Cl2O | 002648-61-5 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-007

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

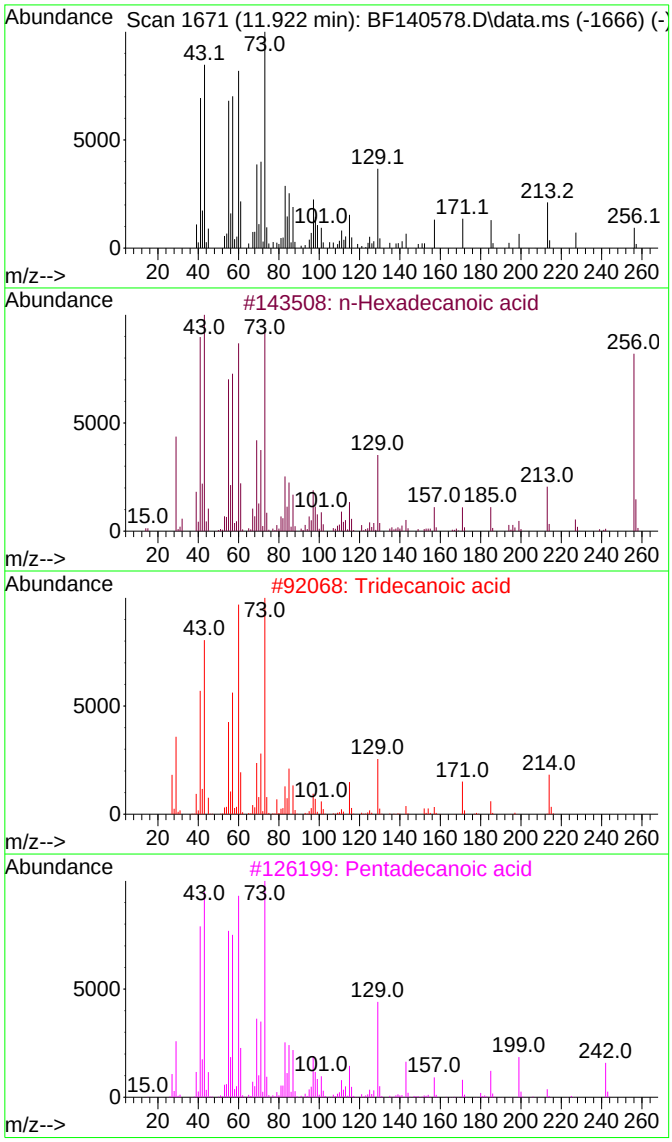
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

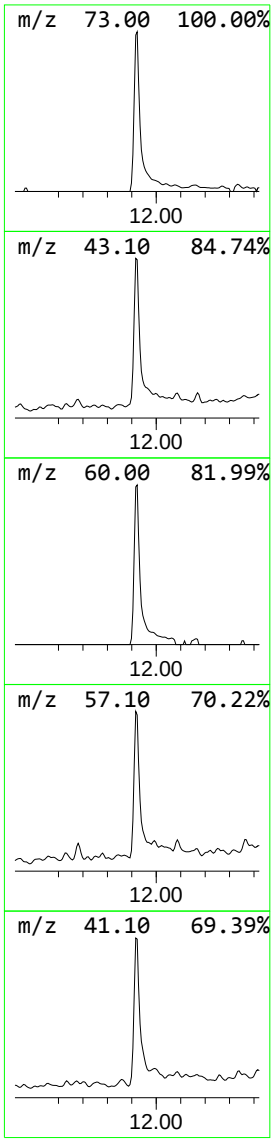
**********

Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.922 | 3.89 ng | 156485 | Phenanthrene-d10 | 11.398 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 87 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 87 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 72 |
| 5 | Estra-1,3,5(10)-trien-17.beta.-ol | 256 | C18H24O | 002529-64-8 | 30 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-007

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

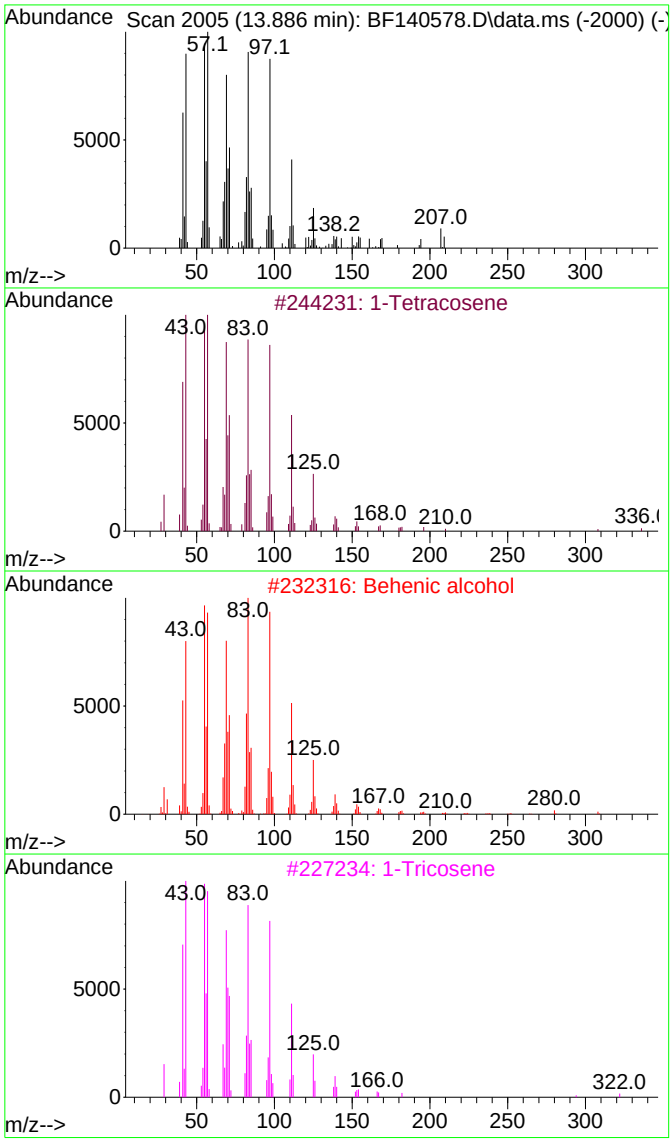
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

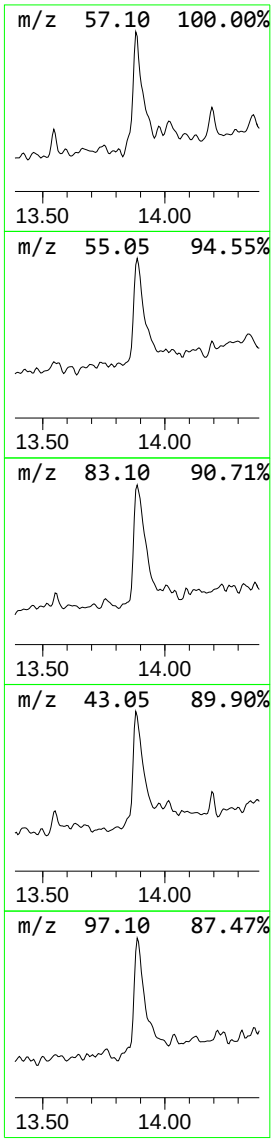
**********

Peak Number 4 1-Tetracosene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.886 | 4.48 ng | 123822 | Chrysene-d12 | 14.045 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Tetracosene | 336 | C24H48 | 010192-32-2 | 94 |
| 2 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 94 |
| 3 | 1-Tricosene | 322 | C23H46 | 018835-32-0 | 94 |
| 4 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 94 |
| 5 | 1-Hexacosene | 364 | C26H52 | 018835-33-1 | 94 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-007

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... | 2.140 | 36.6 | ng | 997274 | 1 | 6.869 | 544959 | 20.0 |
| Benzophenone | 10.616 | 9.5 | ng | 368338 | 3 | 9.904 | 773003 | 20.0 |
| n-Hexadecanoic ... | 11.922 | 3.9 | ng | 156485 | 4 | 11.398 | 805271 | 20.0 |
| 1-Tetracosene | 13.886 | 4.5 | ng | 123822 | 5 | 14.045 | 552594 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-006

Quant Time: Nov 26 00:08:15 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

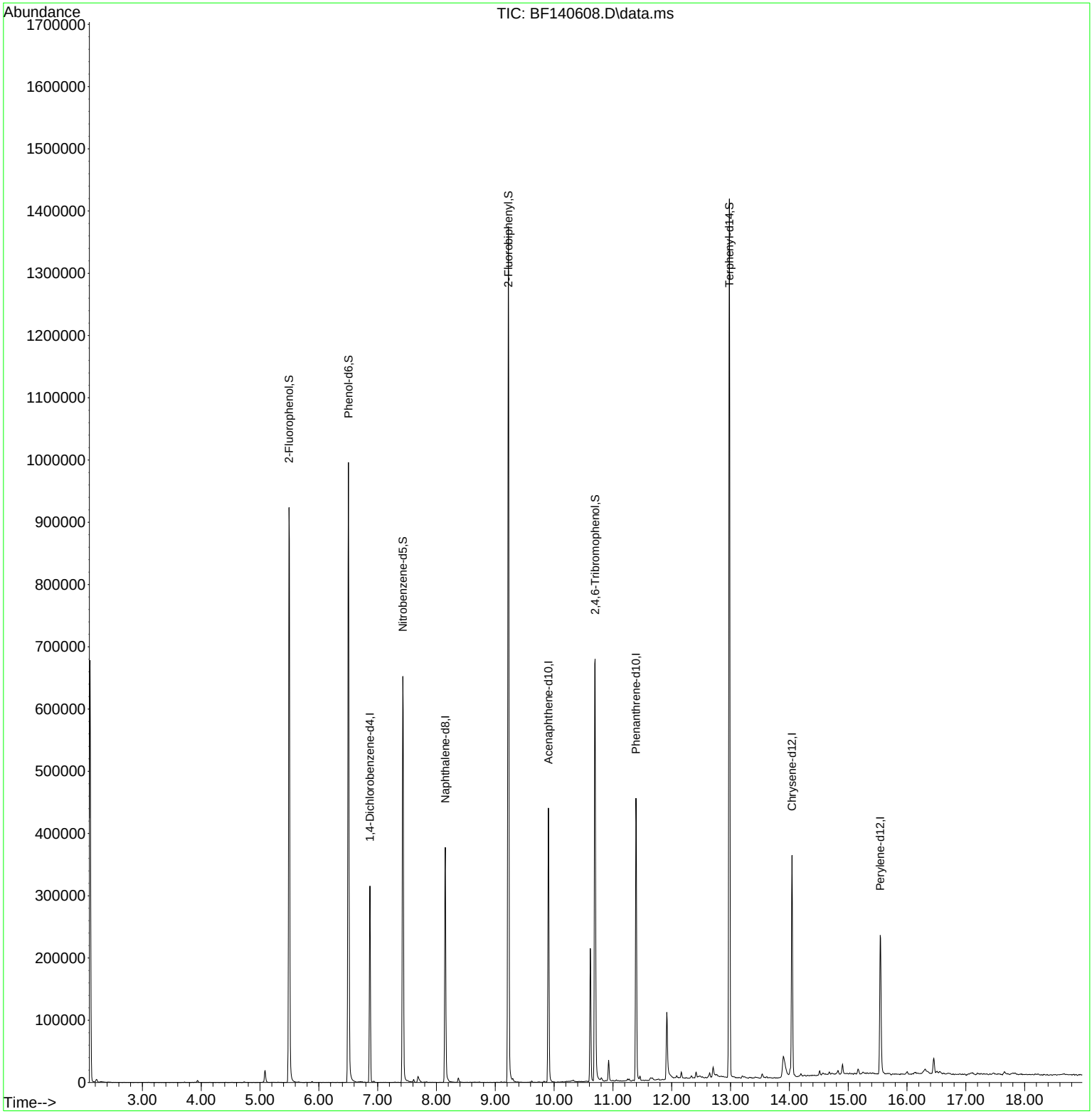
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.869 | 152 | 65730 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.151 | 136 | 249226 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.904 | 164 | 135754 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.392 | 188 | 253640 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 14.045 | 240 | 176049 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.545 | 264 | 146465 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.493 | 112 | 350615 | 91.012 | ng | 0.00 |
| 7) Phenol-d6 | 6.504 | 99 | 460783 | 90.475 | ng | -0.01 |
| 23) Nitrobenzene-d5 | 7.428 | 82 | 307735 | 63.158 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.698 | 330 | 124598 | 85.817 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 607797 | 66.708 | ng | -0.01 |
| 79) Terphenyl-d14 | 12.980 | 244 | 684477 | 60.541 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |

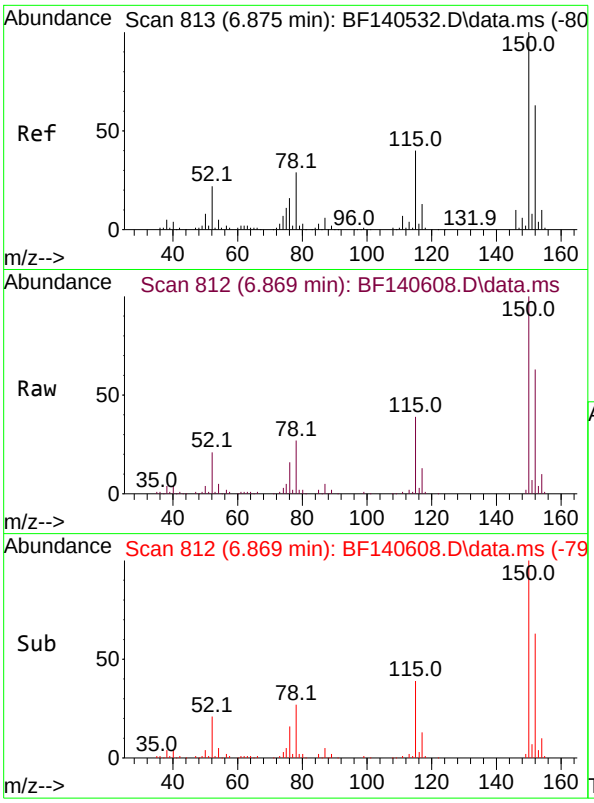
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-006

Quant Time: Nov 26 00:08:15 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



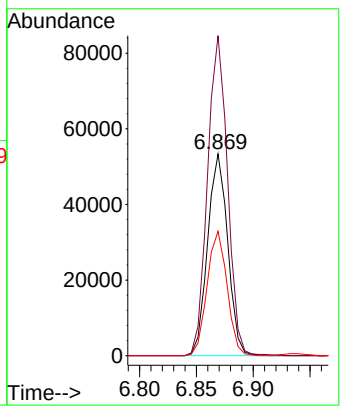


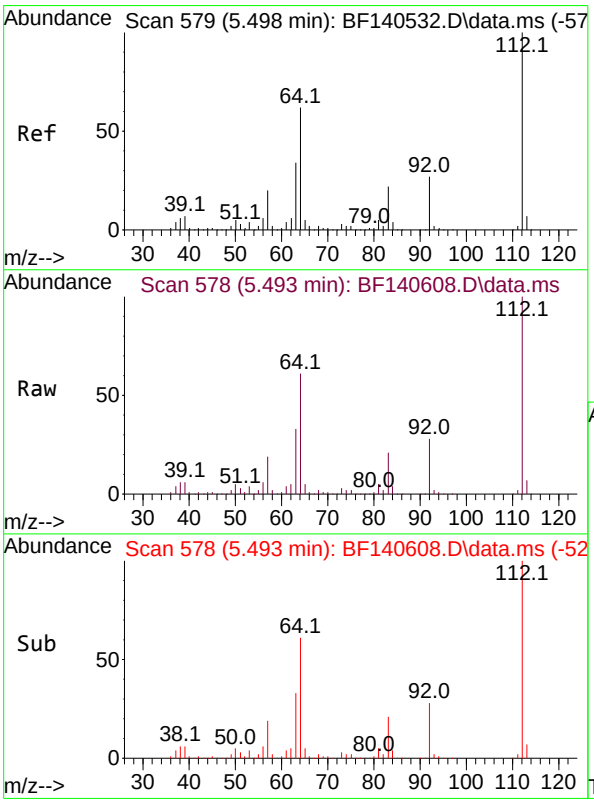

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-006

Tgt Ion:152 Resp: 65730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 158.6 | 128.5 | 192.7 |
| 115 | 61.6 | 50.2 | 75.4 |

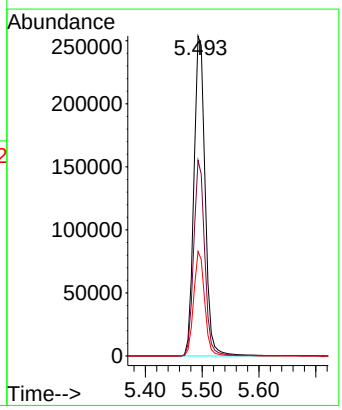


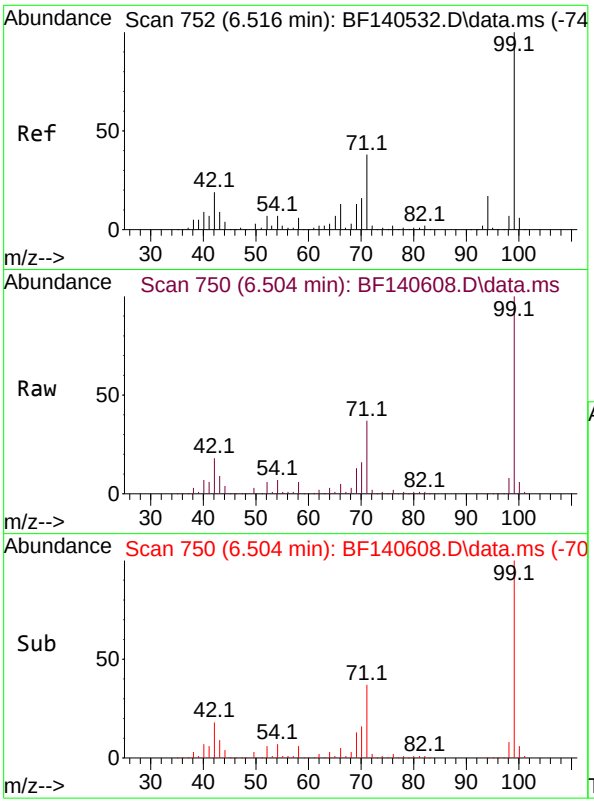




#5
2-Fluorophenol
Concen: 91.012 ng
RT: 5.493 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

Tgt Ion:112 Resp: 350615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 61.1 | 49.2 | 73.8 |
| 63 | 32.7 | 27.0 | 40.4 |



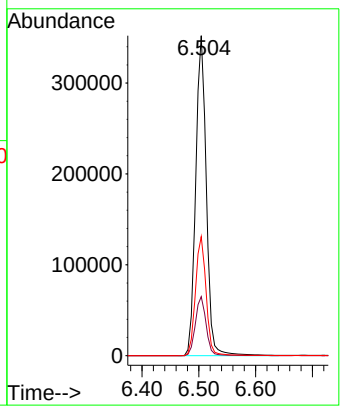


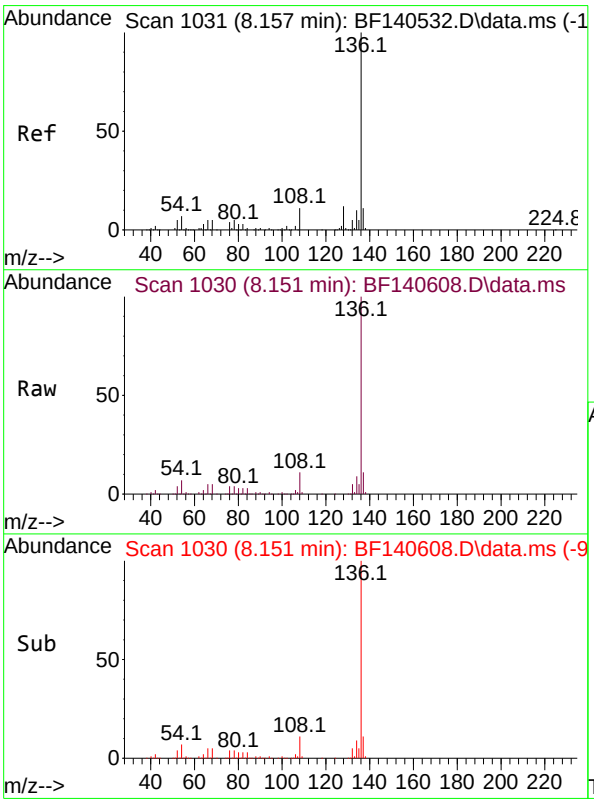

#7
Phenol-d6
Concen: 90.475 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-006

Tgt Ion: 99 Resp: 460783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.5 | 15.4 | 23.0 |
| 71 | 37.2 | 30.6 | 46.0 |

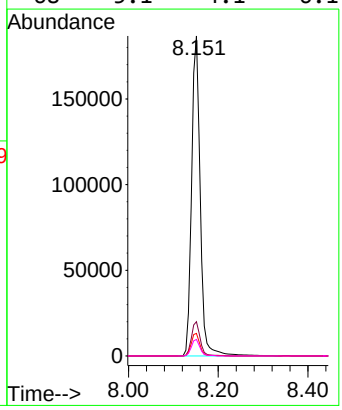


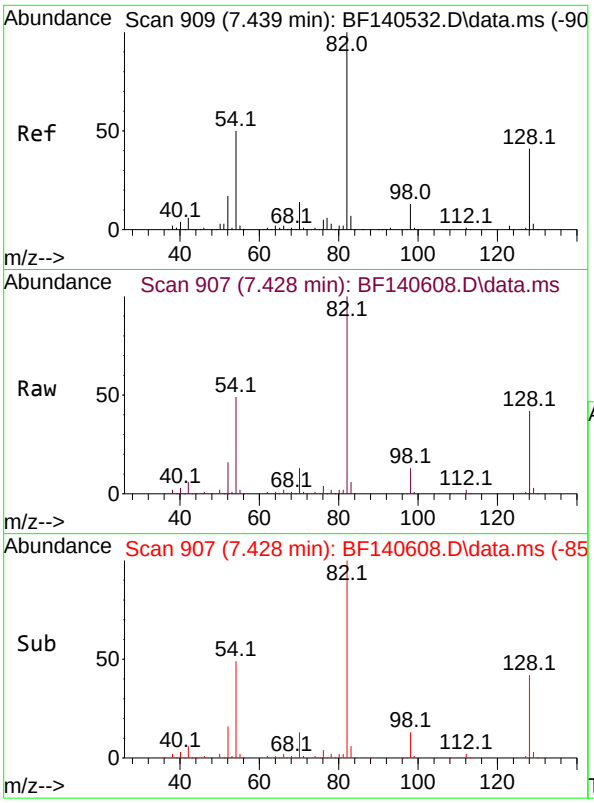




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

Tgt Ion:136 Resp: 249226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.7 | 8.6 | 13.0 |
| 54 | 7.1 | 5.8 | 8.8 |
| 68 | 5.1 | 4.1 | 6.1 |



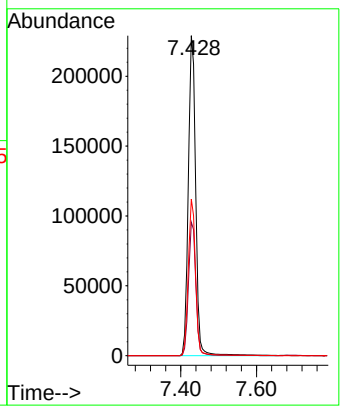


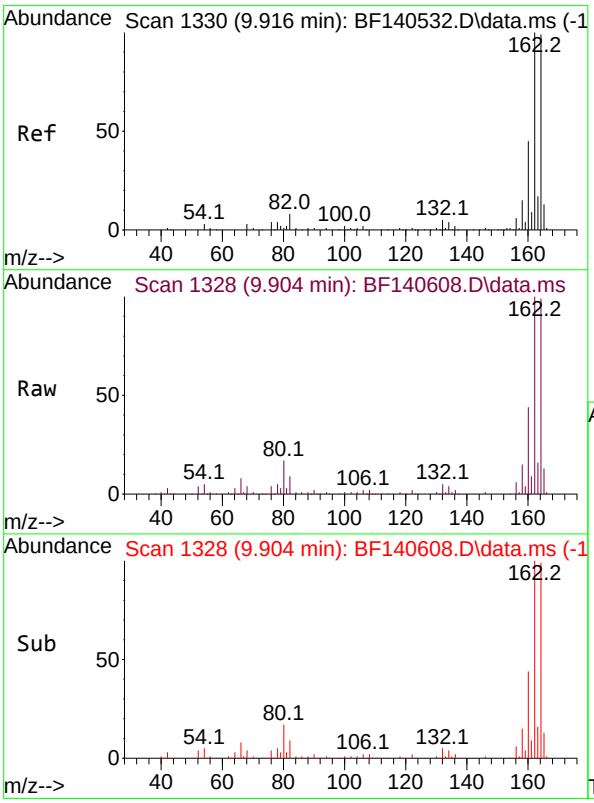

#23
Nitrobenzene-d5
Concen: 63.158 ng
RT: 7.428 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-006

Tgt Ion: 82 Resp: 307735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.7 | 33.0 | 49.4 |
| 54 | 49.0 | 39.5 | 59.3 |

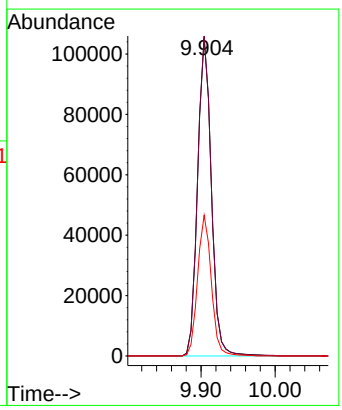


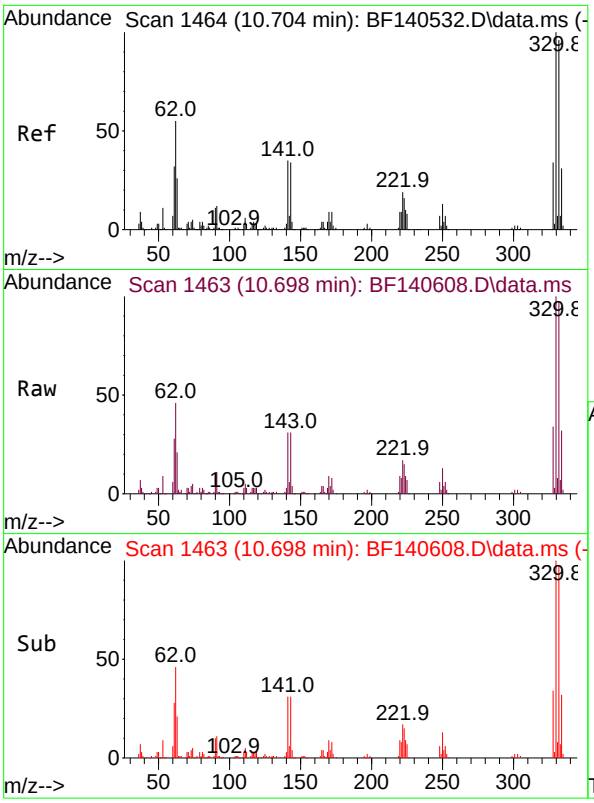




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

Tgt Ion:164 Resp: 135754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.6 | 80.6 | 120.8 |
| 160 | 44.2 | 36.2 | 54.4 |



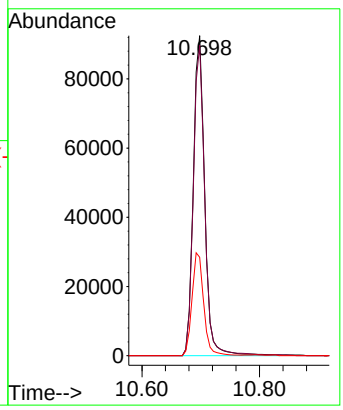


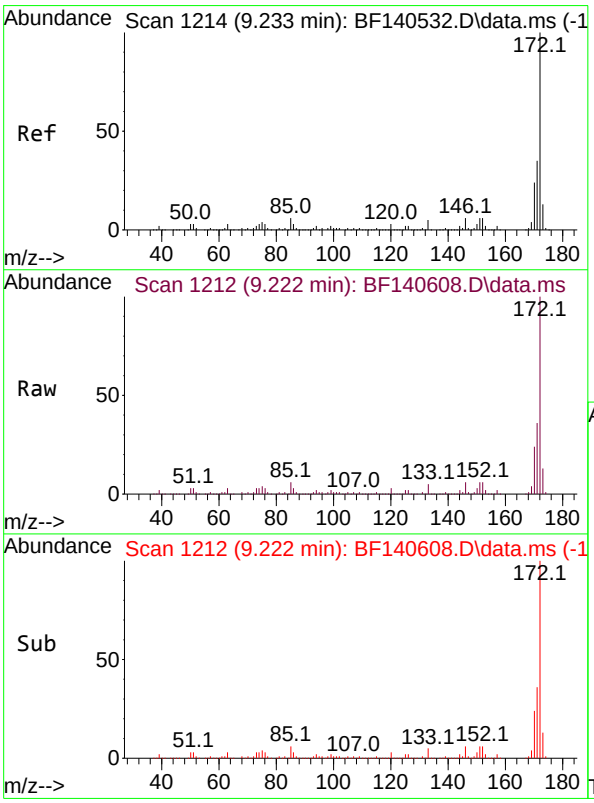

#42
2,4,6-Tribromophenol
Concen: 85.817 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-006

Tgt Ion:330 Resp: 124598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.4 | 76.9 | 115.3 |
| 141 | 33.1 | 26.7 | 40.1 |

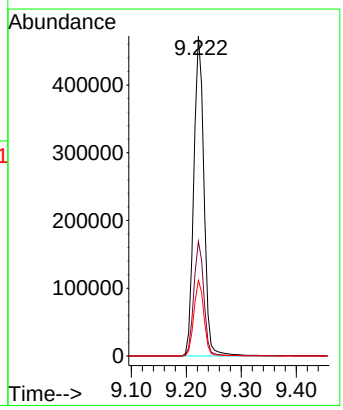


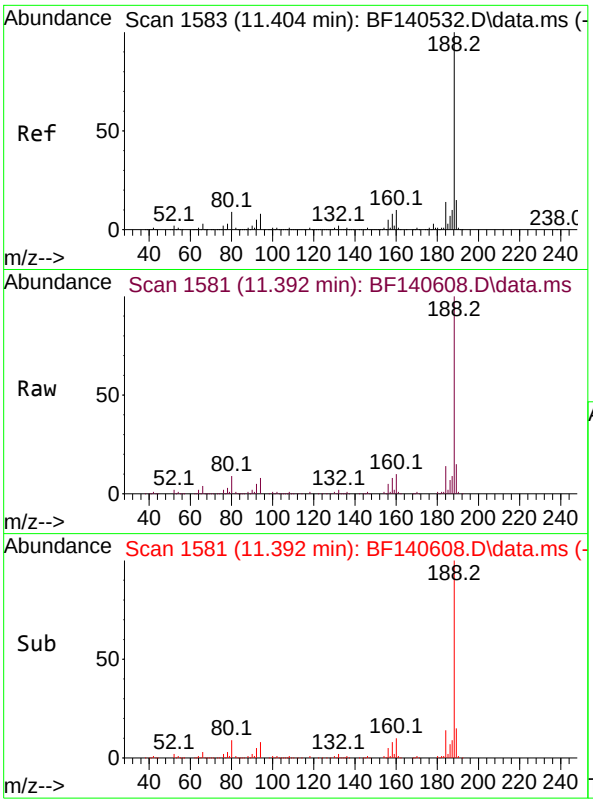




#45
2-Fluorobiphenyl
Concen: 66.708 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

Tgt Ion:172 Resp: 607797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.8 | 28.4 | 42.6 |
| 170 | 23.6 | 19.0 | 28.6 |



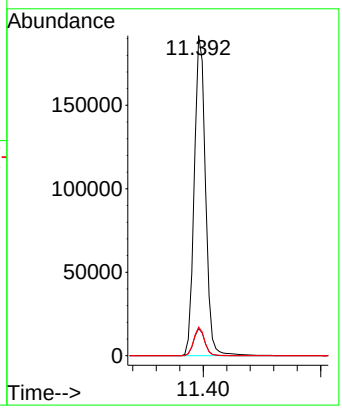


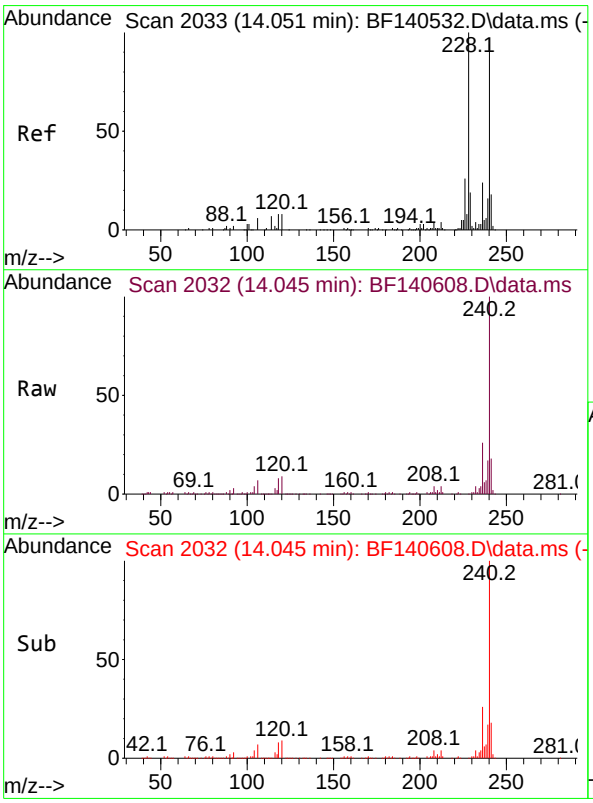

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-006

Tgt Ion:188 Resp: 253640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.5 | 6.4 | 9.6 |
| 80 | 8.9 | 6.9 | 10.3 |

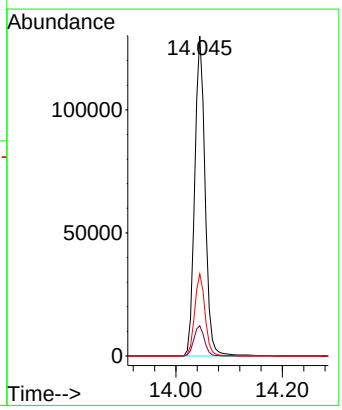


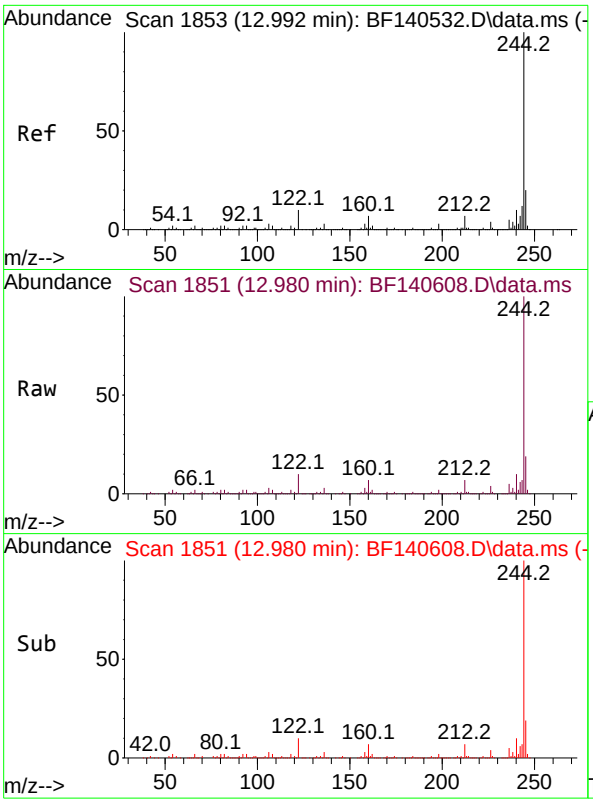




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

Tgt Ion:240 Resp: 176049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.5 | 7.3 | 10.9 |
| 236 | 25.7 | 20.6 | 31.0 |



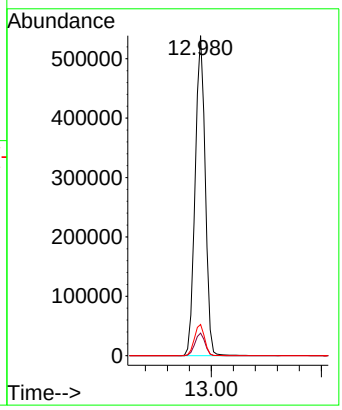


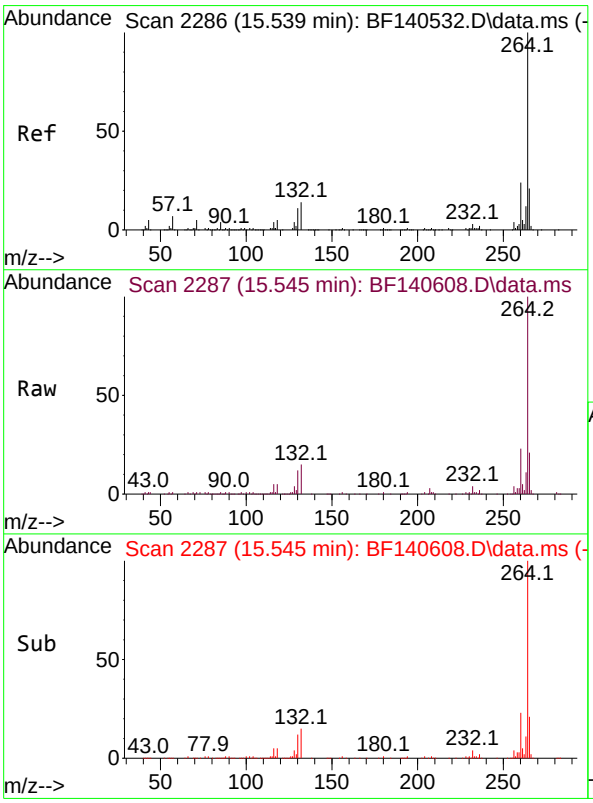

#79
Terphenyl-d14
Concen: 60.541 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-006

Tgt Ion:244 Resp: 684477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 5.8 | 8.8 |
| 122 | 9.8 | 8.0 | 12.0 |

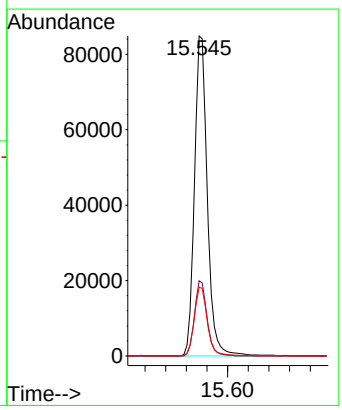



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2287
Delta R.T. 0.006 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

Tgt Ion:264 Resp: 146465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.5 | 19.0 | 28.6 |
| 265 | 21.5 | 16.6 | 25.0 |



Sample Results: **BF140608.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-006

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: BF140608.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.087 | 500 | 509 | 520 | rBV | 18912 | 31211 | 1.74% | 0.270% |
| 2 | 5.493 | 573 | 578 | 598 | rBV | 923606 | 1254820 | 70.04% | 10.850% |
| 3 | 6.504 | 744 | 750 | 775 | rBV | 996261 | 1317890 | 73.56% | 11.395% |
| 4 | 6.869 | 807 | 812 | 820 | rBV | 315472 | 385136 | 21.50% | 3.330% |
| 5 | 7.428 | 902 | 907 | 918 | rBV | 652264 | 858938 | 47.94% | 7.427% |
| 6 | 7.687 | 945 | 951 | 966 | rBV2 | 9349 | 20131 | 1.12% | 0.174% |
| 7 | 8.151 | 1024 | 1030 | 1043 | rBV | 377420 | 497479 | 27.77% | 4.301% |
| 8 | 9.222 | 1207 | 1212 | 1223 | rBV | 1374884 | 1738917 | 97.06% | 15.035% |
| 9 | 9.904 | 1323 | 1328 | 1342 | rBV | 440591 | 564535 | 31.51% | 4.881% |
| 10 | 10.616 | 1444 | 1449 | 1457 | rBV | 213999 | 269990 | 15.07% | 2.334% |
| 11 | 10.698 | 1457 | 1463 | 1478 | rVV | 677347 | 944443 | 52.72% | 8.166% |
| 12 | 10.928 | 1497 | 1502 | 1511 | rVB | 33028 | 42964 | 2.40% | 0.371% |
| 13 | 11.392 | 1576 | 1581 | 1590 | rBV | 453953 | 594800 | 33.20% | 5.143% |
| 14 | 11.916 | 1665 | 1670 | 1690 | rBV | 107859 | 188419 | 10.52% | 1.629% |
| 15 | 12.704 | 1799 | 1804 | 1812 | rBV4 | 16045 | 31803 | 1.78% | 0.275% |
| 16 | 12.980 | 1845 | 1851 | 1856 | rBV | 1411511 | 1791596 | 100.00% | 15.491% |
| 17 | 13.898 | 2000 | 2007 | 2022 | rBV4 | 32895 | 117396 | 6.55% | 1.015% |
| 18 | 14.045 | 2027 | 2032 | 2039 | rVB | 352973 | 471822 | 26.34% | 4.080% |
| 19 | 14.904 | 2174 | 2178 | 2186 | rVB | 14964 | 21163 | 1.18% | 0.183% |
| 20 | 15.545 | 2281 | 2287 | 2301 | rBV | 222868 | 378632 | 21.13% | 3.274% |
| 21 | 16.457 | 2436 | 2442 | 2447 | rBV5 | 24355 | 43343 | 2.42% | 0.375% |

Sum of corrected areas: 11565428

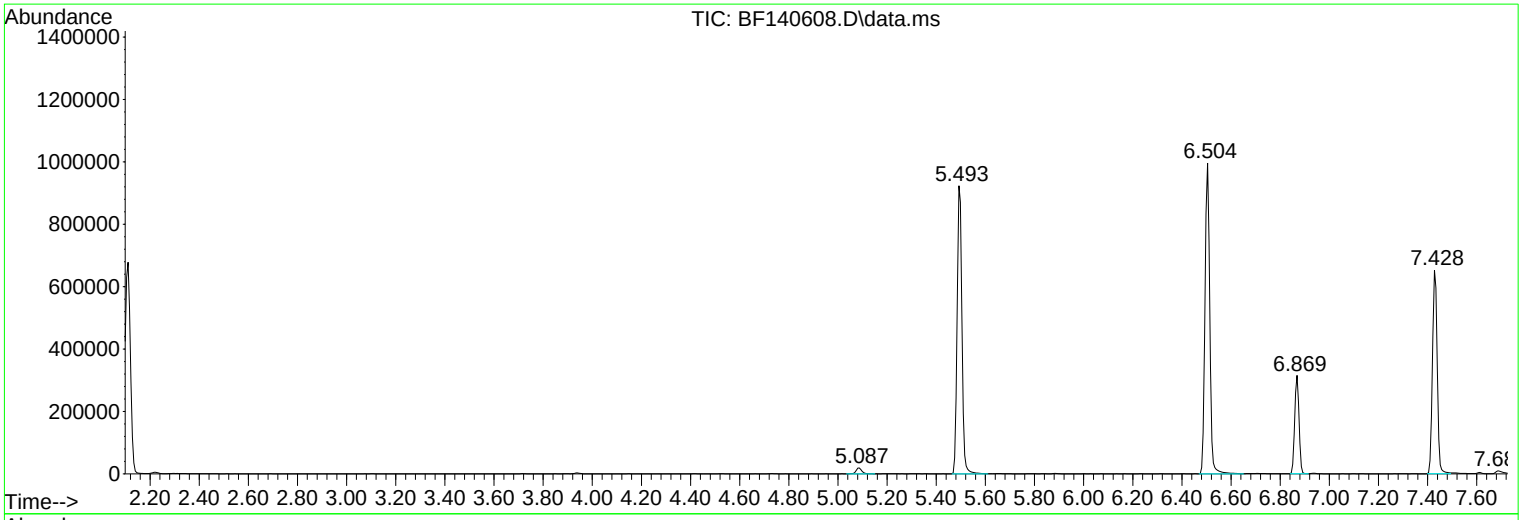
Sample Results: **BF140608.D**

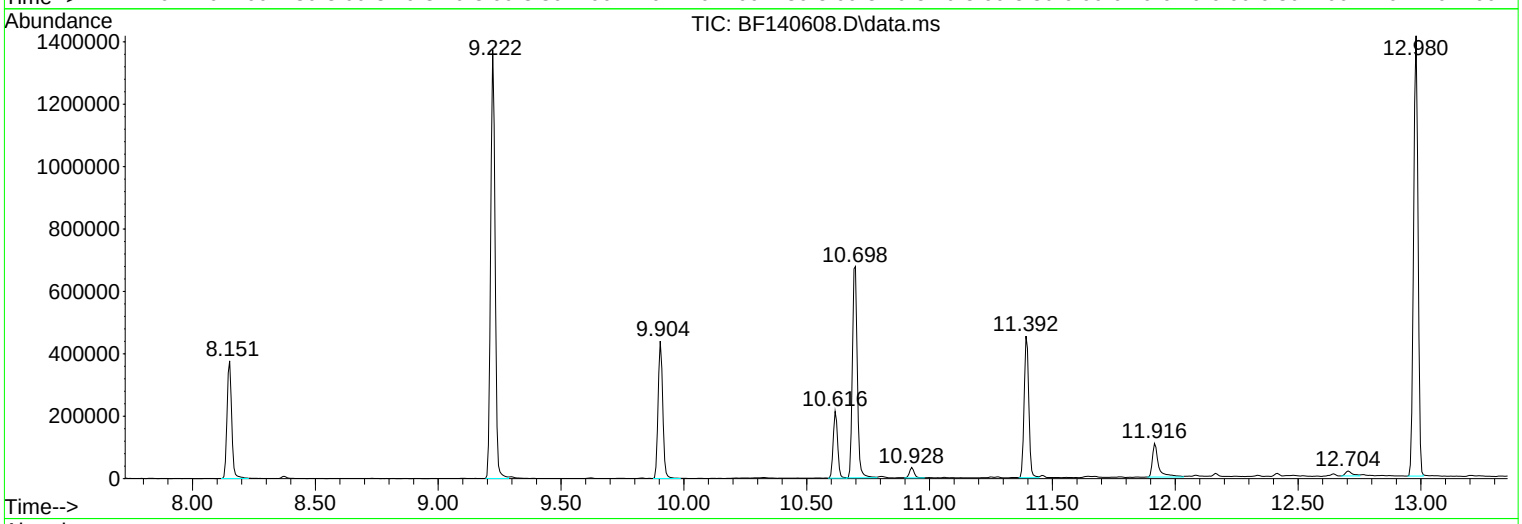
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

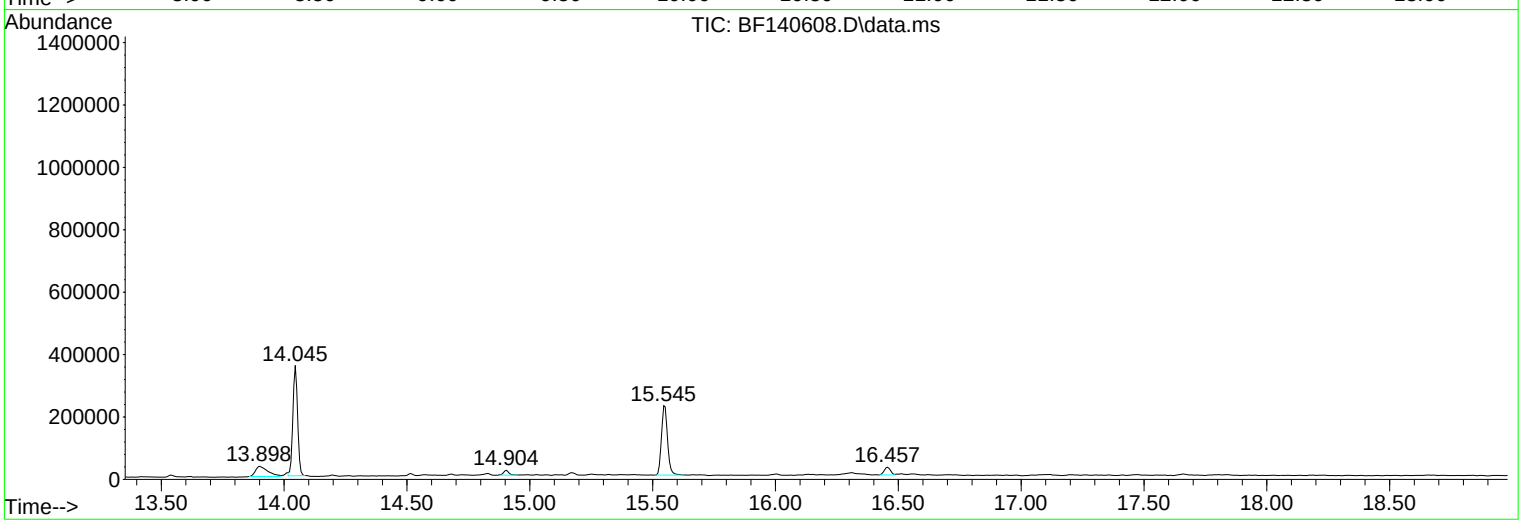
**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-006

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 : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-006

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

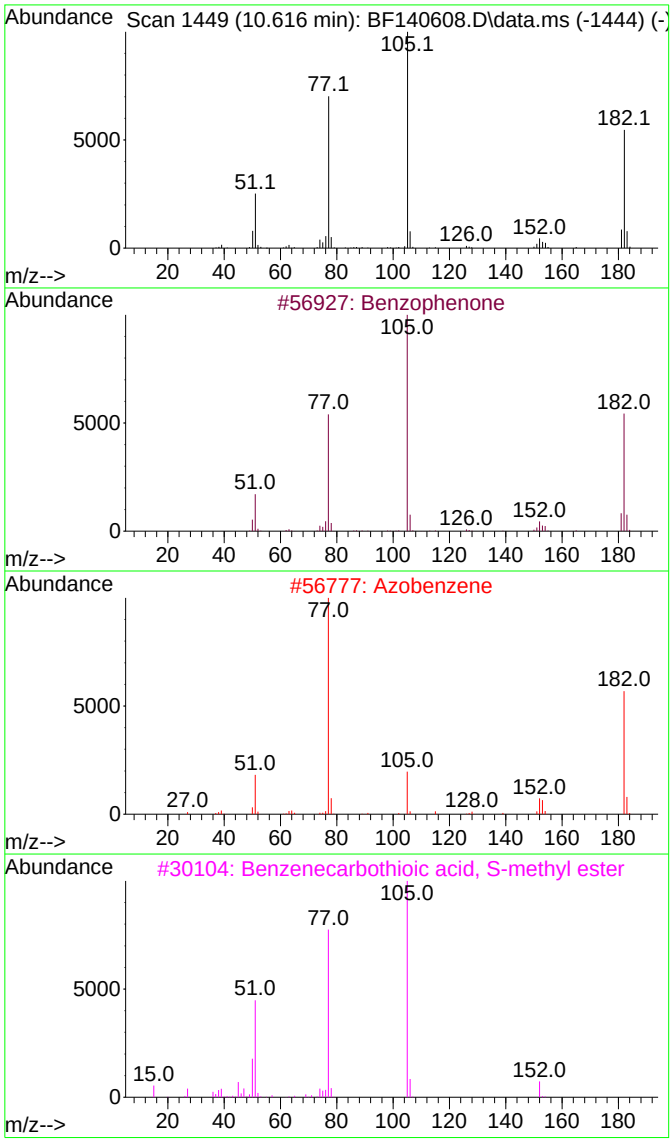
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

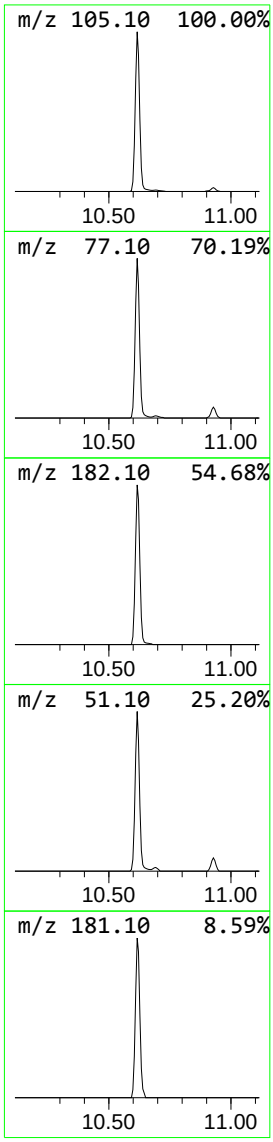
**********

Peak Number 1 Benzophenone Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.616 | 9.57 ng | 269990 | Acenaphthene-d10 | 9.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 96 |
| 2 | Azobenzene | 182 | C12H10N2 | 000103-33-3 | 59 |
| 3 | Benzenecarbothioic acid, S-methy... | 152 | C8H8OS | 005925-68-8 | 50 |
| 4 | N-Methoxy-N-methylbenzamide | 165 | C9H11NO2 | 006919-61-5 | 49 |
| 5 | Acetophenone, 2-chloro- | 154 | C8H7ClO | 000532-27-4 | 49 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-006

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

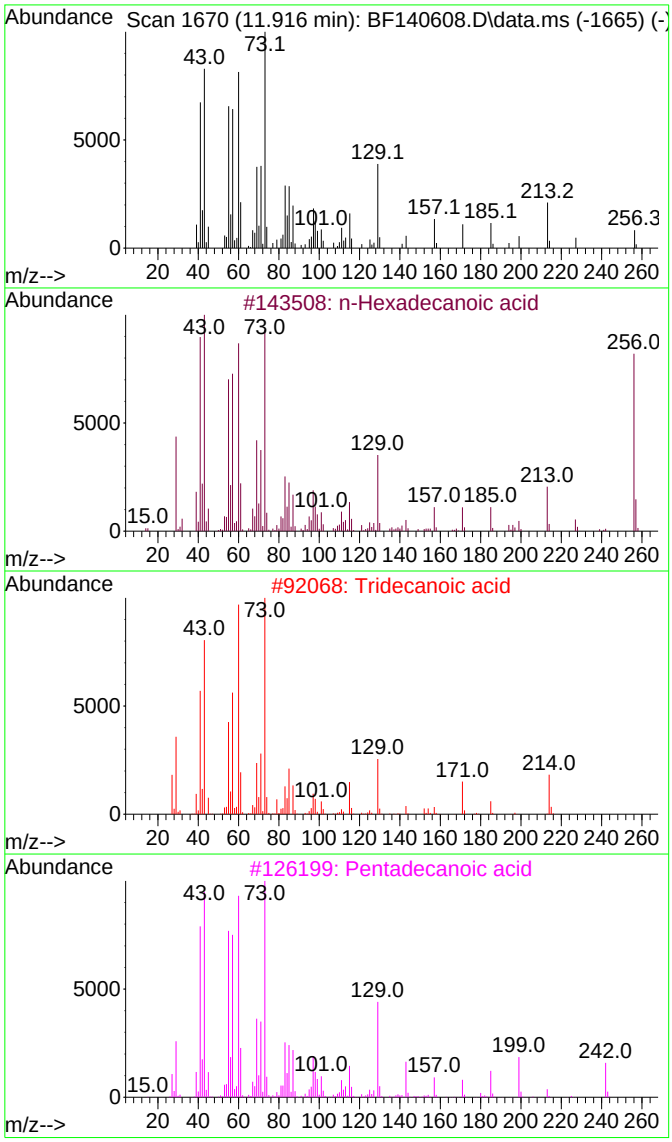
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

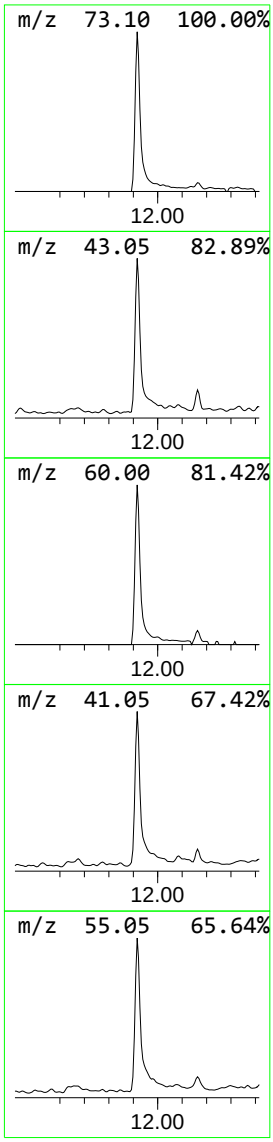
**********

Peak Number 2 n-Hexadecanoic acid Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.916 | 6.34 ng | 188419 | Phenanthrene-d10 | 11.392 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 87 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 87 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 80 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 53 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-006

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

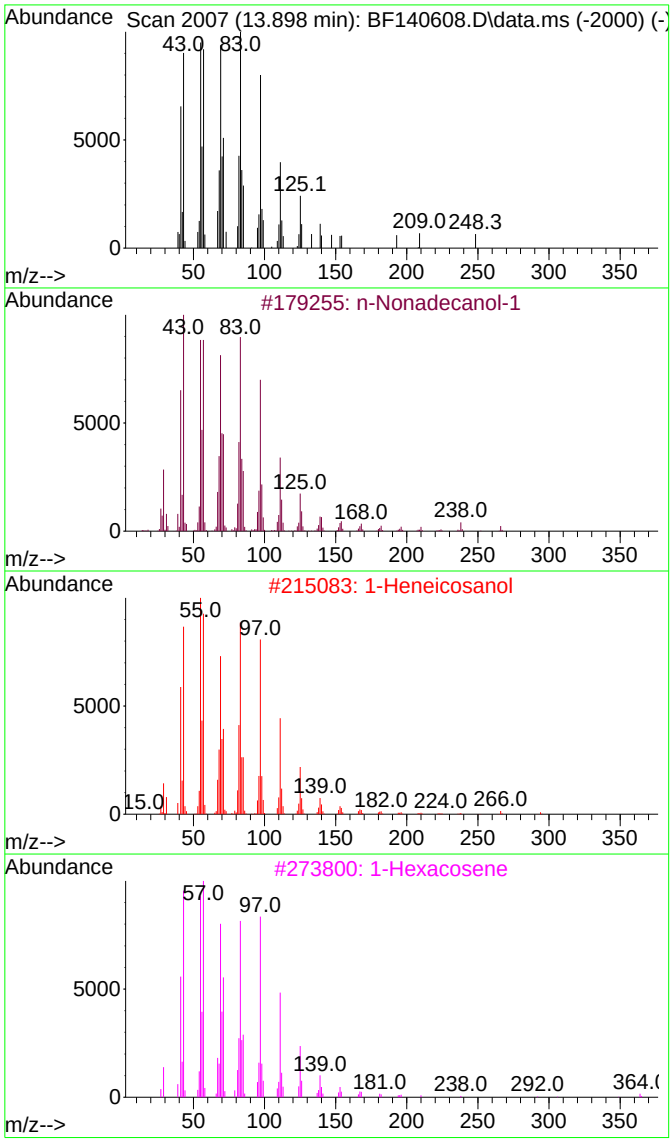
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

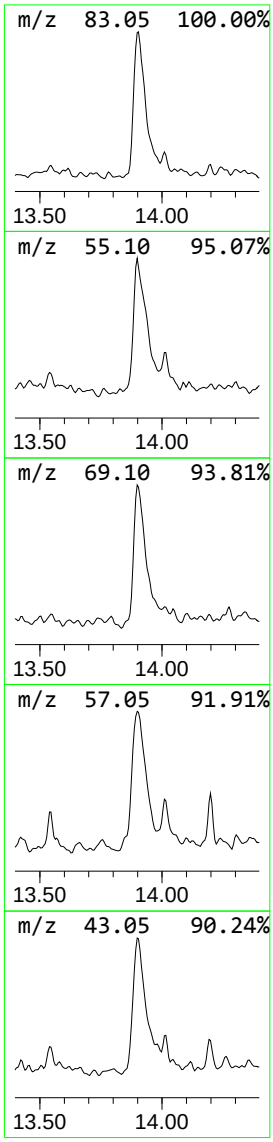
**********

Peak Number 3 n-Nonadecanol-1 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.898 | 4.98 ng | 117396 | Chrysene-d12 | 14.045 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Nonadecanol-1 | 284 | C19H40O | 001454-84-8 | 95 |
| 2 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 95 |
| 3 | 1-Hexacosene | 364 | C26H52 | 018835-33-1 | 95 |
| 4 | Pentafluoropropionic acid, tetra... | 360 | C17H29F5O2 | 006222-06-6 | 94 |
| 5 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 93 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-006

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

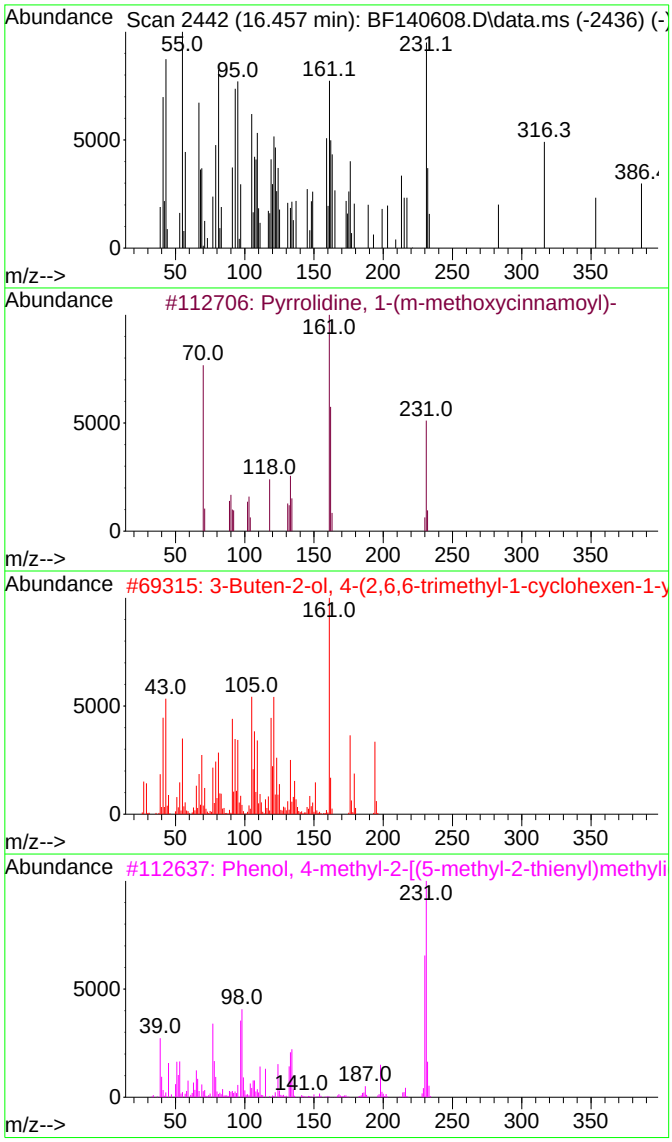
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

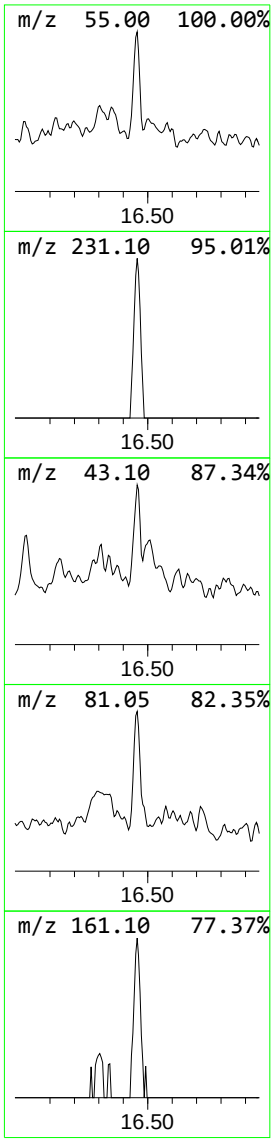
**********

Peak Number 4 unknown16.457 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.457 | 2.29 ng | 43343 | Perylene-d12 | 15.545 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrrolidine, 1-(m-methoxycinnamo... | 231 | C14H17NO2 | 029647-01-6 | 35 |
| 2 | 3-Buten-2-ol, 4-(2,6,6-trimethyl... | 194 | C13H22O | 022029-76-1 | 14 |
| 3 | Phenol, 4-methyl-2-[(5-methyl-2-... | 231 | C13H13NOS | 315670-71-4 | 11 |
| 4 | 3-Buten-2-one, 4-(4-methoxyphenyl)- | 176 | C11H12O2 | 000943-88-4 | 11 |
| 5 | (1-Methoxy-1-methylbut-2-enyl)be... | 176 | C12H16O | 1000211-11-5 | 11 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-006

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 |
| Benzophenone | 10.616 | 9.6 | ng | 269990 | 3 | 9.904 | 564535 | 20.0 |
| n-Hexadecanoic ... | 11.916 | 6.3 | ng | 188419 | 4 | 11.392 | 594800 | 20.0 |
| n-Nonadecanol-1 | 13.898 | 5.0 | ng | 117396 | 5 | 14.045 | 471822 | 20.0 |
| unknown16.457 | 16.457 | 2.3 | ng | 43343 | 6 | 15.545 | 378632 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Quant Time: Nov 26 15:24:35 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

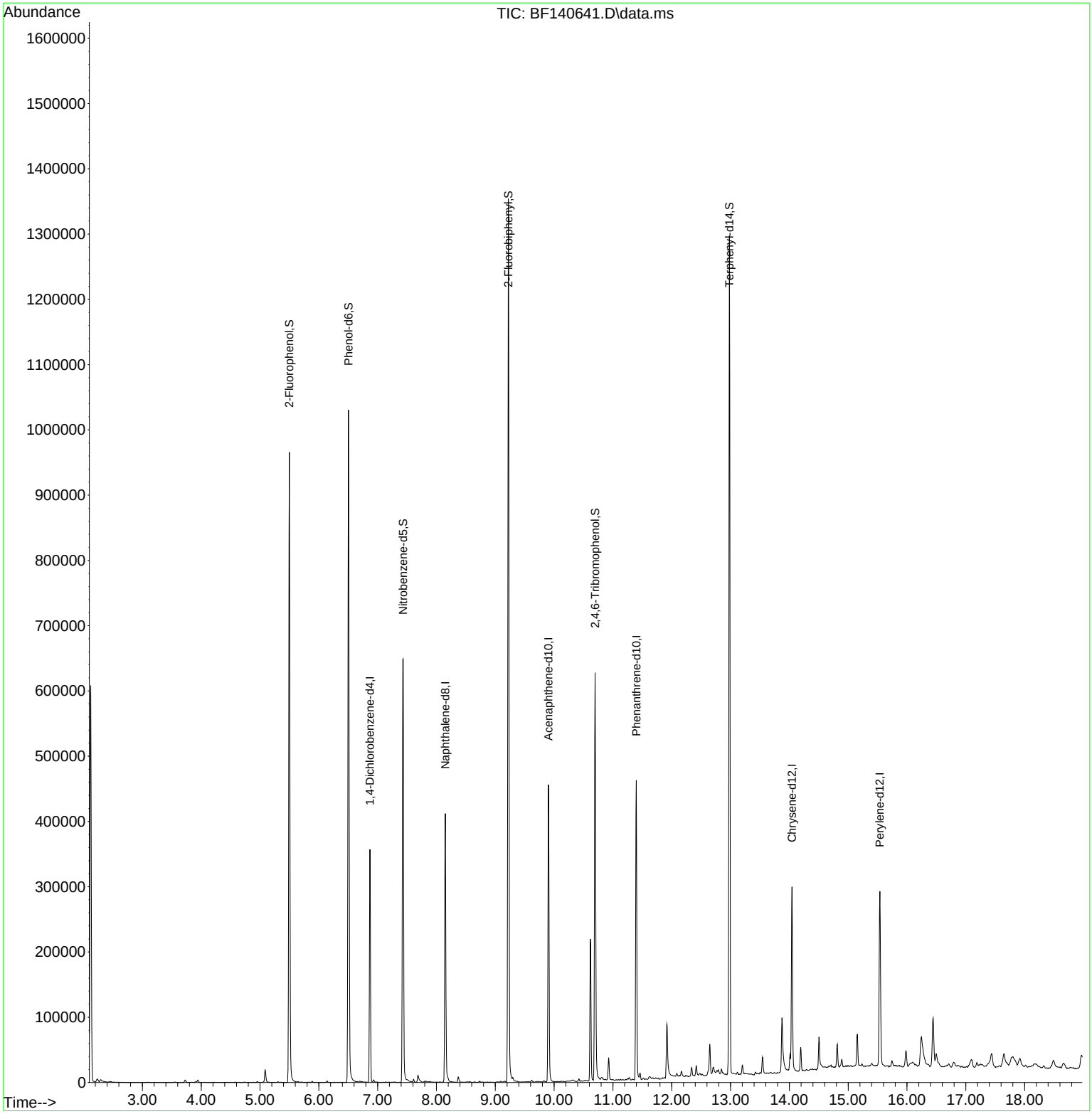
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.869 | 152 | 73436 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.151 | 136 | 269764 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.904 | 164 | 139709 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.398 | 188 | 252976 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.045 | 240 | 141346 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.539 | 264 | 153491 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.498 | 112 | 362082 | 84.126 | ng | 0.00 |
| 7) Phenol-d6 | 6.504 | 99 | 486862 | 85.564 | ng | -0.01 |
| 23) Nitrobenzene-d5 | 7.434 | 82 | 311652 | 59.093 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.698 | 330 | 110521 | 73.967 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 610897 | 65.150 | ng | -0.01 |
| 79) Terphenyl-d14 | 12.980 | 244 | 621212 | 68.435 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |

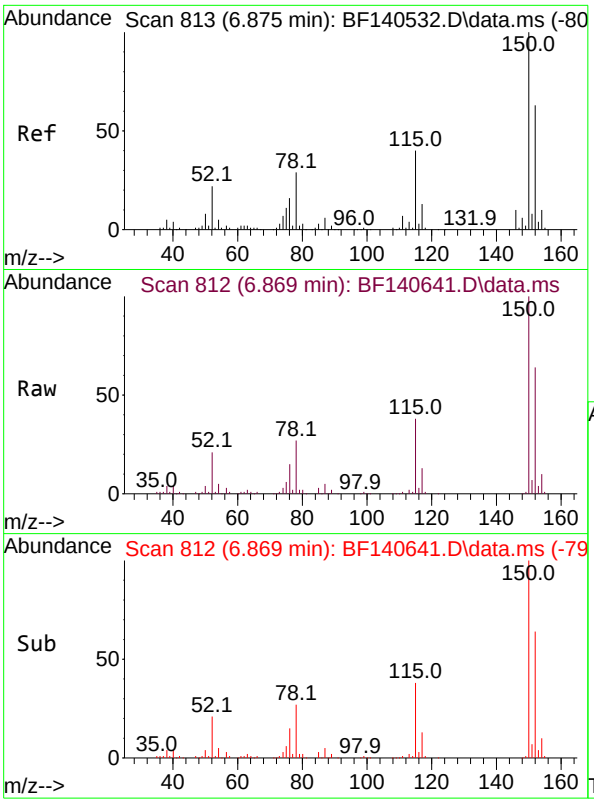
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Quant Time: Nov 26 15:24:35 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



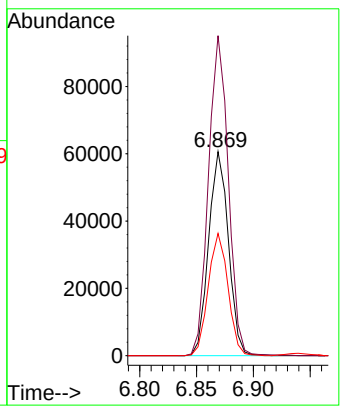


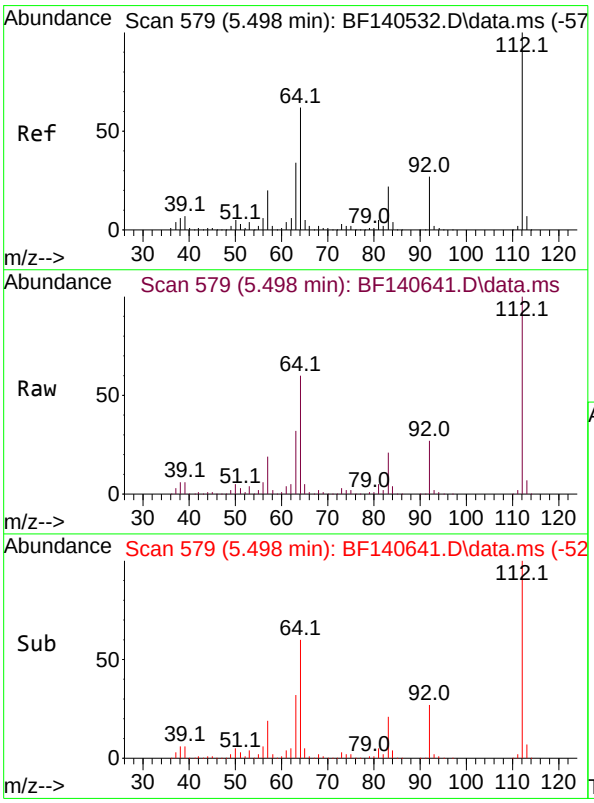

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Tgt Ion:152 Resp: 73436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.9 | 128.5 | 192.7 |
| 115 | 59.9 | 50.2 | 75.4 |

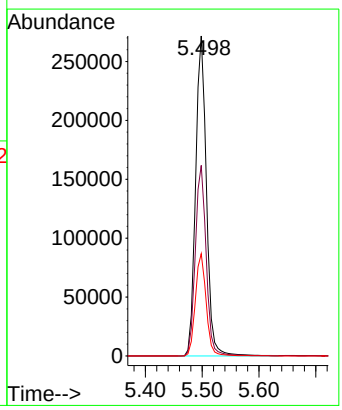


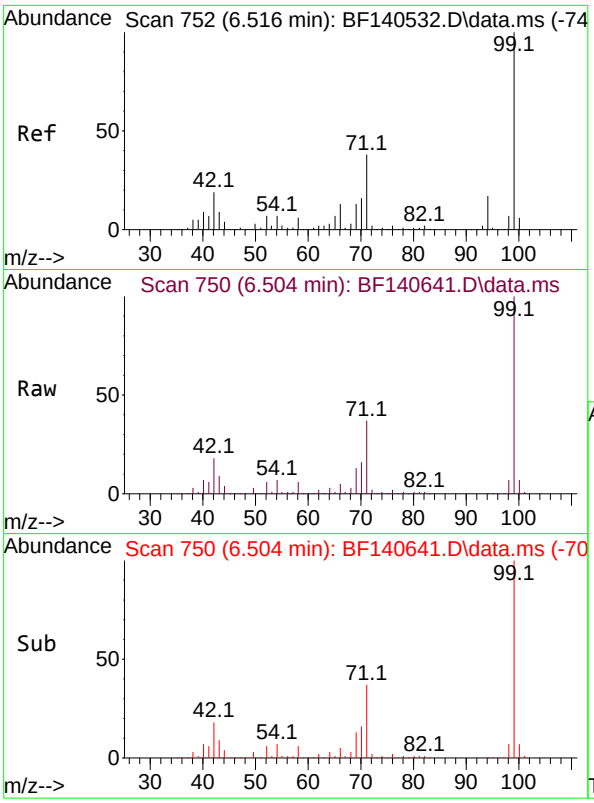




#5
2-Fluorophenol
Concen: 84.126 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

Tgt Ion:112 Resp: 362082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 59.6 | 49.2 | 73.8 |
| 63 | 31.9 | 27.0 | 40.4 |



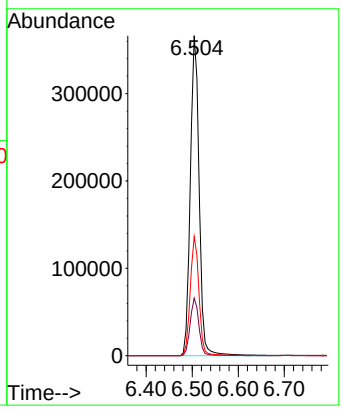


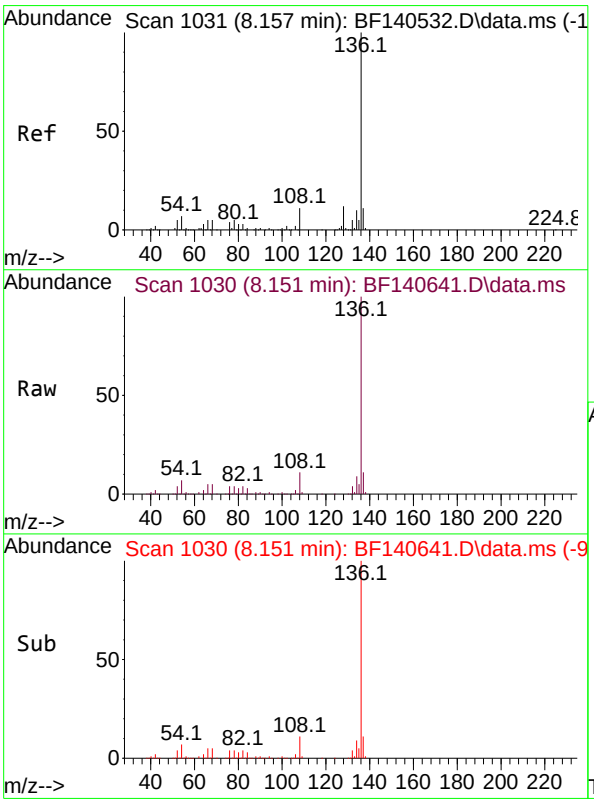

#7
Phenol-d6
Concen: 85.564 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Tgt Ion: 99 Resp: 486862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.0 | 15.4 | 23.0 |
| 71 | 37.2 | 30.6 | 46.0 |

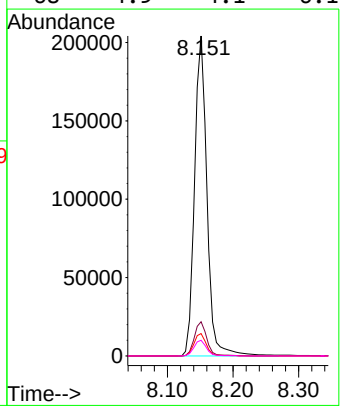


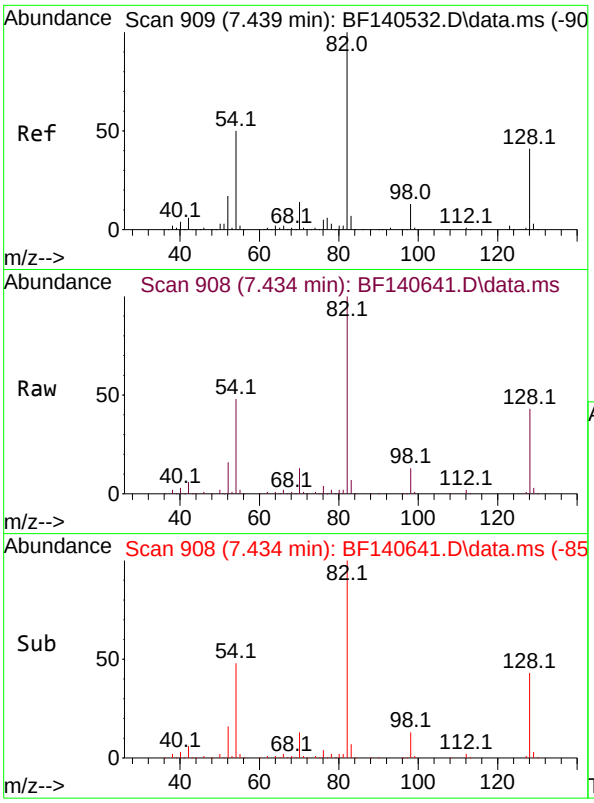




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

Tgt Ion:136 Resp: 269764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.7 | 8.6 | 13.0 |
| 54 | 7.0 | 5.8 | 8.8 |
| 68 | 4.9 | 4.1 | 6.1 |



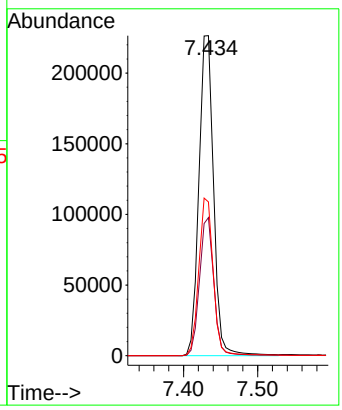


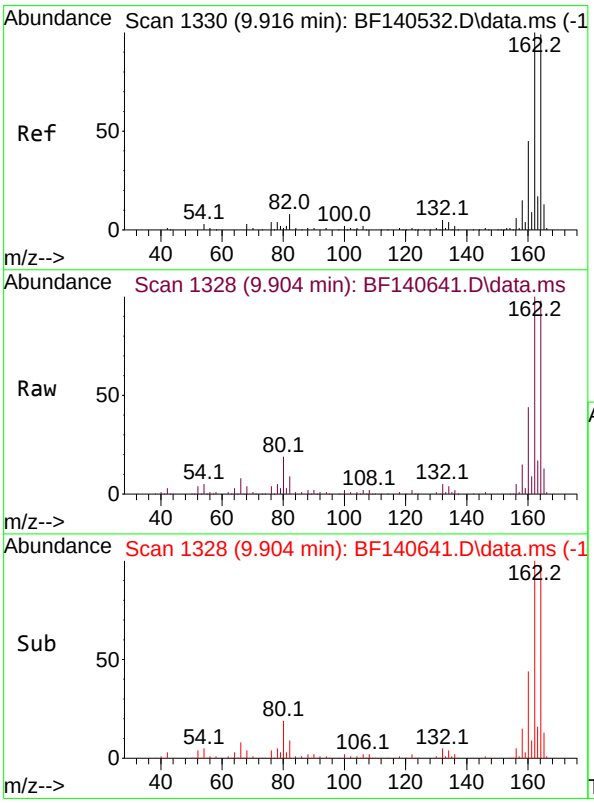

#23
Nitrobenzene-d5
Concen: 59.093 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Tgt Ion: 82 Resp: 311652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.1 | 33.0 | 49.4 |
| 54 | 48.1 | 39.5 | 59.3 |

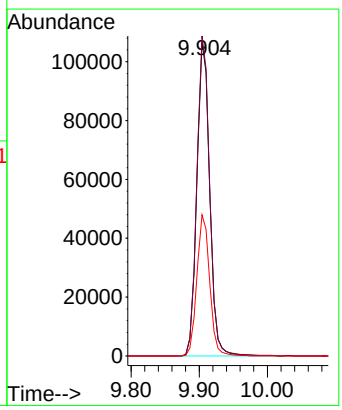


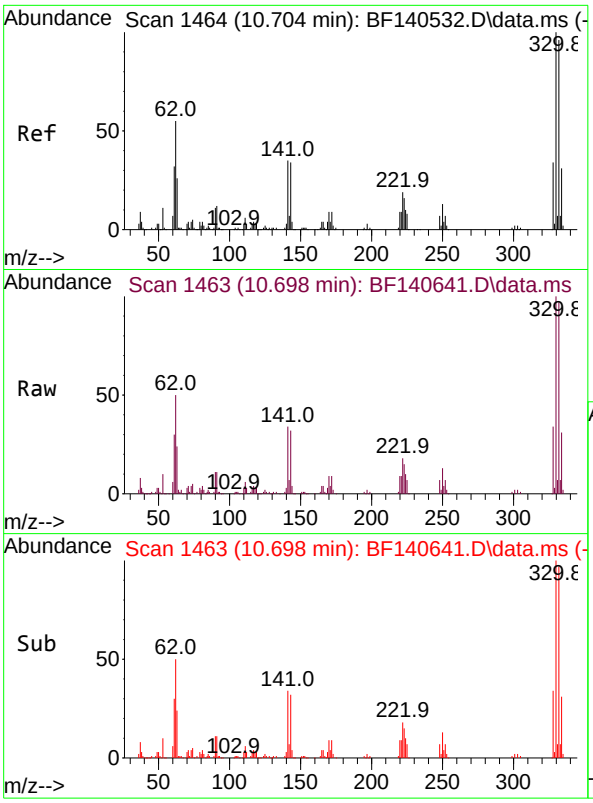




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

Tgt Ion:164 Resp: 139709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.8 | 80.6 | 120.8 |
| 160 | 44.9 | 36.2 | 54.4 |



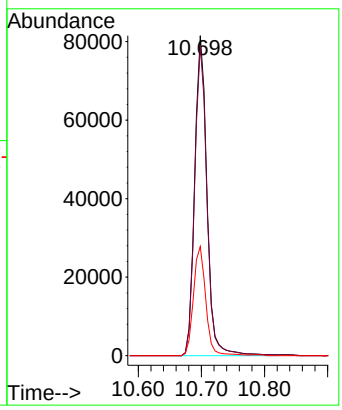


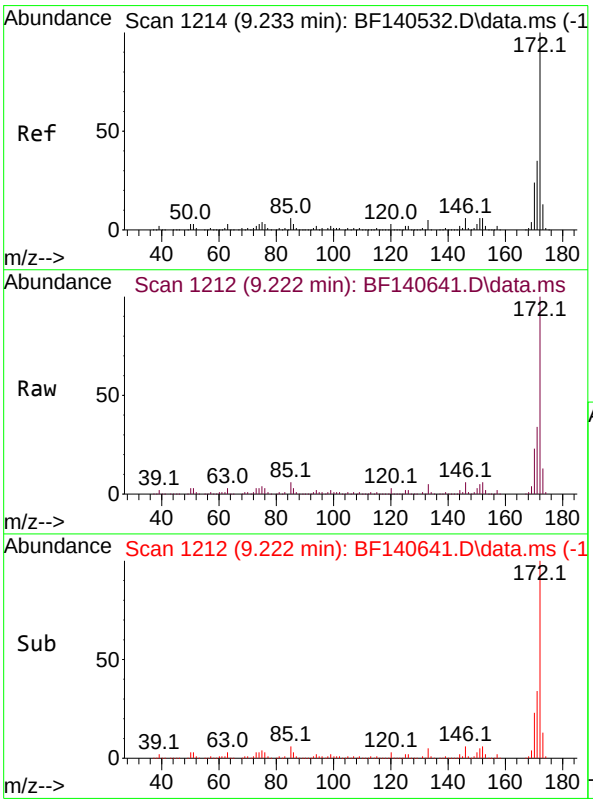

#42
2,4,6-Tribromophenol
Concen: 73.967 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Tgt Ion:330 Resp: 110521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.9 | 76.9 | 115.3 |
| 141 | 34.0 | 26.7 | 40.1 |

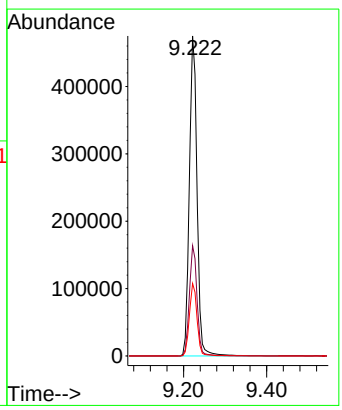


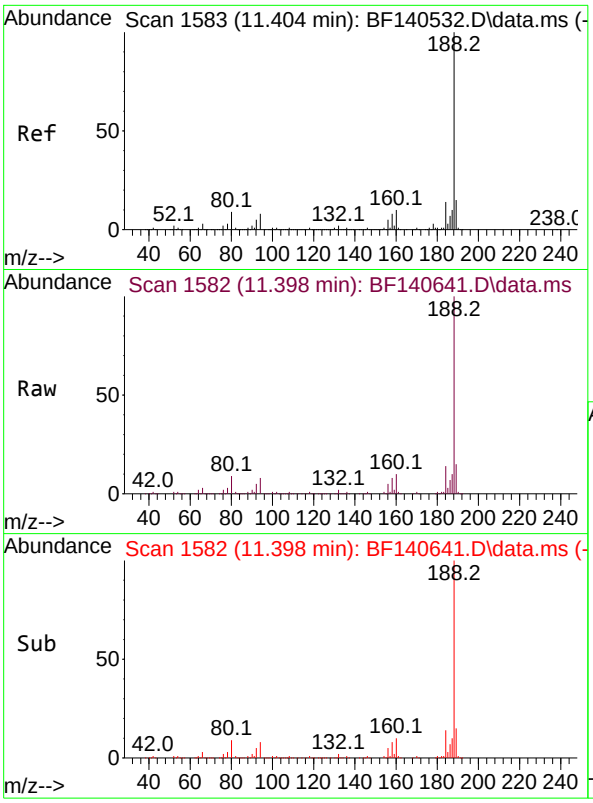




#45
2-Fluorobiphenyl
Concen: 65.150 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

Tgt Ion:172 Resp: 610897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.4 | 28.4 | 42.6 |
| 170 | 22.6 | 19.0 | 28.6 |



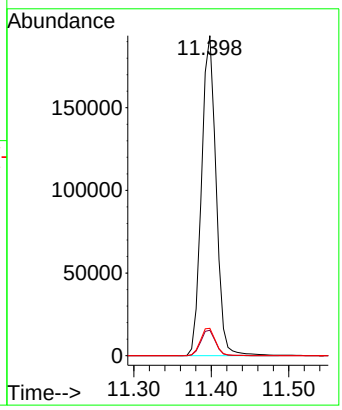


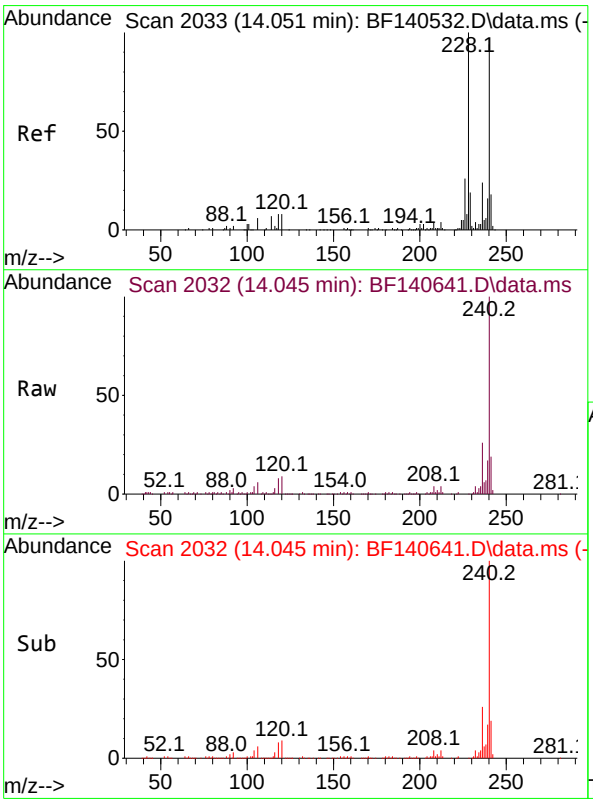

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Tgt Ion:188 Resp: 252976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.0 | 6.4 | 9.6 |
| 80 | 8.6 | 6.9 | 10.3 |

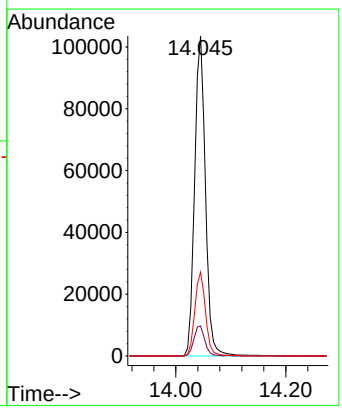


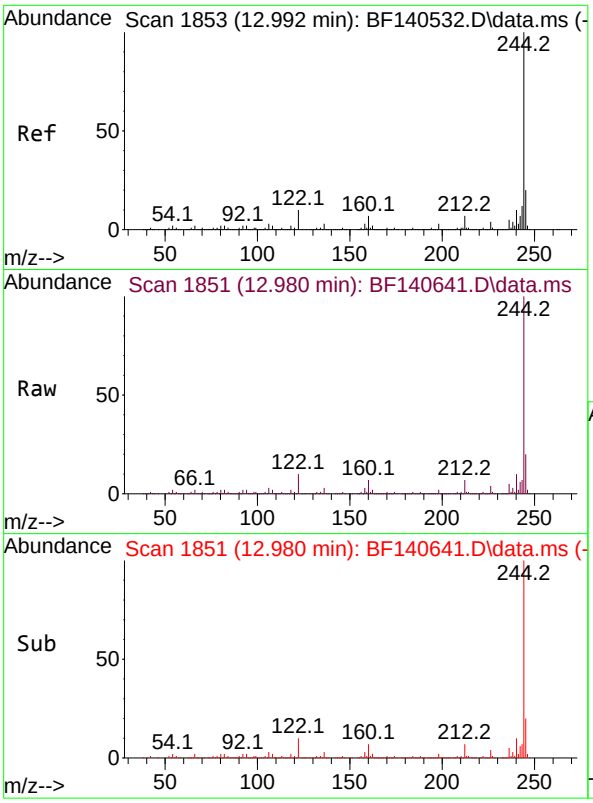




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

Tgt Ion:240 Resp: 141346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.4 | 7.3 | 10.9 |
| 236 | 26.2 | 20.6 | 31.0 |



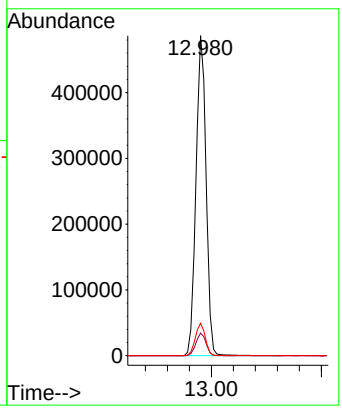


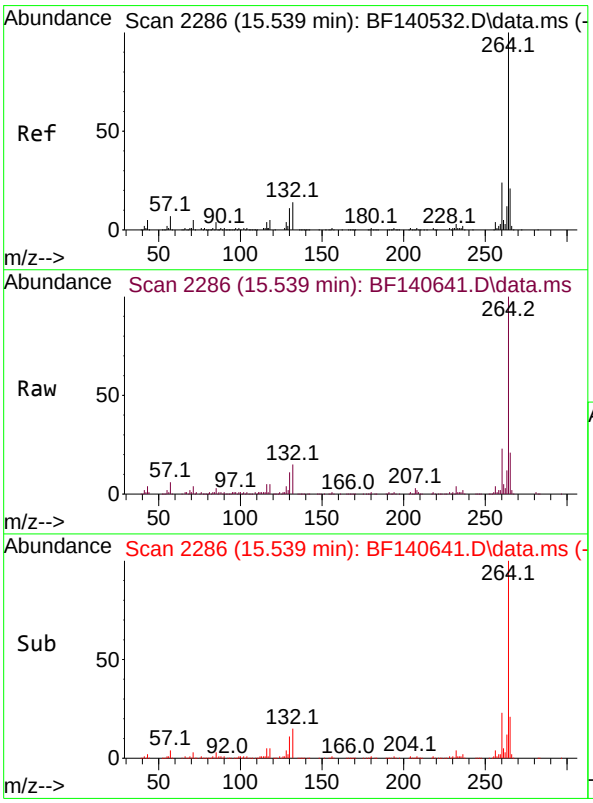

#79
Terphenyl-d14
Concen: 68.435 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Tgt Ion:244 Resp: 621212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 5.8 | 8.8 |
| 122 | 10.2 | 8.0 | 12.0 |

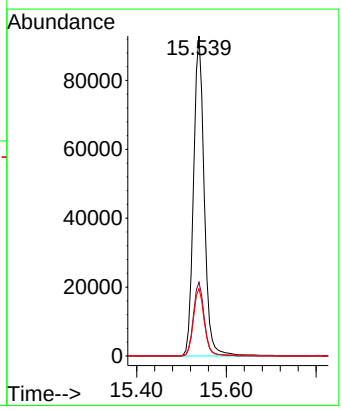



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2286
Delta R.T. -0.000 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

Tgt Ion:264 Resp: 153491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.0 | 19.0 | 28.6 |
| 265 | 21.1 | 16.6 | 25.0 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

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: BF140641.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.122 | 3 | 5 | 14 | rVB | 606370 | 703888 | 41.04% | 5.408% |
| 2 | 5.087 | 500 | 509 | 519 | rBV | 19315 | 32671 | 1.90% | 0.251% |
| 3 | 5.498 | 573 | 579 | 594 | rBV | 965519 | 1282769 | 74.80% | 9.856% |
| 4 | 6.504 | 745 | 750 | 774 | rBV | 1030272 | 1372157 | 80.01% | 10.543% |
| 5 | 6.869 | 807 | 812 | 819 | rBV | 356677 | 430326 | 25.09% | 3.306% |
| 6 | 7.434 | 902 | 908 | 919 | rBV | 648844 | 887376 | 51.74% | 6.818% |
| 7 | 7.686 | 946 | 951 | 963 | rBV2 | 10719 | 22096 | 1.29% | 0.170% |
| 8 | 8.151 | 1025 | 1030 | 1045 | rBV | 410981 | 535824 | 31.24% | 4.117% |
| 9 | 9.222 | 1207 | 1212 | 1223 | rBV | 1353393 | 1715039 | 100.00% | 13.178% |
| 10 | 9.904 | 1323 | 1328 | 1345 | rVB | 454879 | 590370 | 34.42% | 4.536% |
| 11 | 10.616 | 1444 | 1449 | 1458 | rBV | 217506 | 284390 | 16.58% | 2.185% |
| 12 | 10.698 | 1458 | 1463 | 1478 | rVV | 624413 | 837670 | 48.84% | 6.436% |
| 13 | 10.927 | 1497 | 1502 | 1512 | rVB | 34059 | 46679 | 2.72% | 0.359% |
| 14 | 11.398 | 1576 | 1582 | 1590 | rBV | 459145 | 602196 | 35.11% | 4.627% |
| 15 | 11.916 | 1666 | 1670 | 1684 | rBV | 82658 | 147459 | 8.60% | 1.133% |
| 16 | 12.416 | 1751 | 1755 | 1761 | rBV2 | 15298 | 22741 | 1.33% | 0.175% |
| 17 | 12.645 | 1786 | 1794 | 1799 | rBV | 47372 | 72175 | 4.21% | 0.555% |
| 18 | 12.980 | 1845 | 1851 | 1861 | rBV | 1284783 | 1631156 | 95.11% | 12.533% |
| 19 | 13.204 | 1884 | 1889 | 1893 | rBV | 14086 | 20043 | 1.17% | 0.154% |
| 20 | 13.545 | 1943 | 1947 | 1953 | rBV | 24588 | 33211 | 1.94% | 0.255% |
| 21 | 13.874 | 1998 | 2003 | 2018 | rBV | 82803 | 161630 | 9.42% | 1.242% |
| 22 | 14.010 | 2022 | 2026 | 2028 | rVV | 25533 | 34821 | 2.03% | 0.268% |
| 23 | 14.045 | 2028 | 2032 | 2045 | rVB | 282281 | 389191 | 22.69% | 2.990% |
| 24 | 14.192 | 2053 | 2057 | 2062 | rVB | 35892 | 45459 | 2.65% | 0.349% |
| 25 | 14.504 | 2106 | 2110 | 2123 | rBV | 48562 | 80254 | 4.68% | 0.617% |
| 26 | 14.815 | 2158 | 2163 | 2169 | rVB | 34523 | 48570 | 2.83% | 0.373% |
| 27 | 15.157 | 2216 | 2221 | 2226 | rVB | 47975 | 65806 | 3.84% | 0.506% |
| 28 | 15.539 | 2280 | 2286 | 2301 | rVB | 268191 | 443348 | 25.85% | 3.406% |
| 29 | 15.980 | 2357 | 2361 | 2368 | rVB | 23818 | 39891 | 2.33% | 0.307% |
| 30 | 16.245 | 2399 | 2406 | 2423 | rBV7 | 43904 | 147265 | 8.59% | 1.132% |
| 31 | 16.445 | 2433 | 2440 | 2445 | rBV2 | 73348 | 142864 | 8.33% | 1.098% |
| 32 | 16.498 | 2446 | 2449 | 2464 | rVB4 | 19590 | 49181 | 2.87% | 0.378% |
| 33 | 17.439 | 2605 | 2609 | 2620 | rVB9 | 21092 | 50352 | 2.94% | 0.387% |
| 34 | 17.651 | 2641 | 2645 | 2658 | rVB9 | 17542 | 45973 | 2.68% | 0.353% |

Sum of corrected areas: 13014841

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

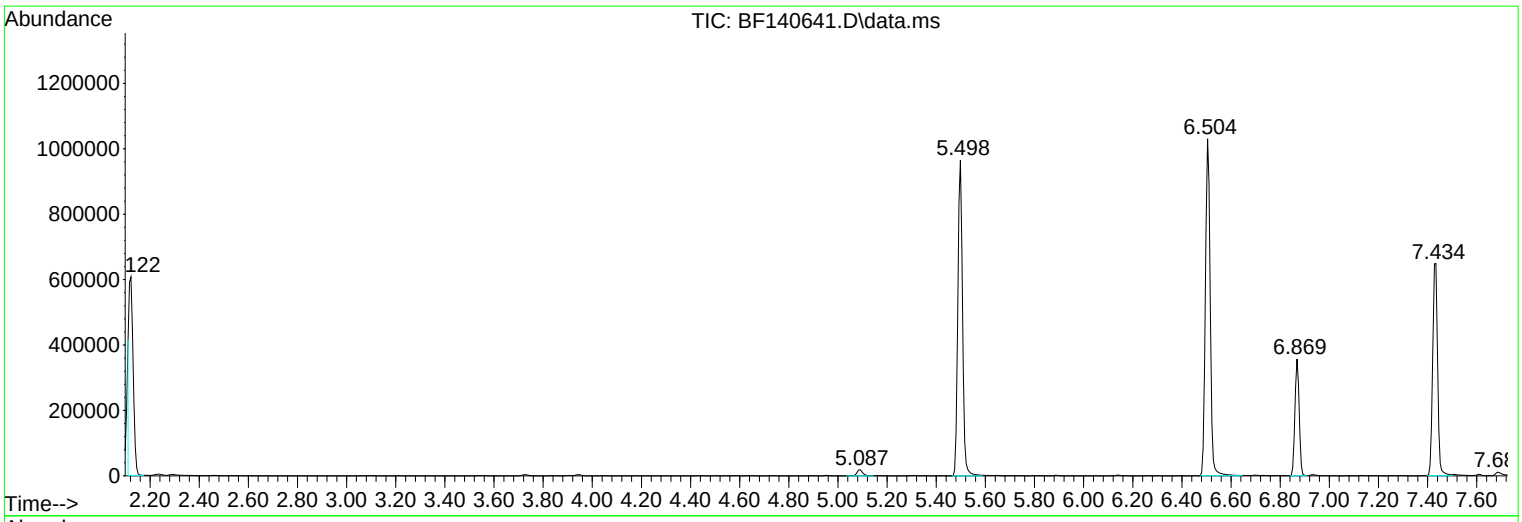
Sample Results: **BF140641.D**

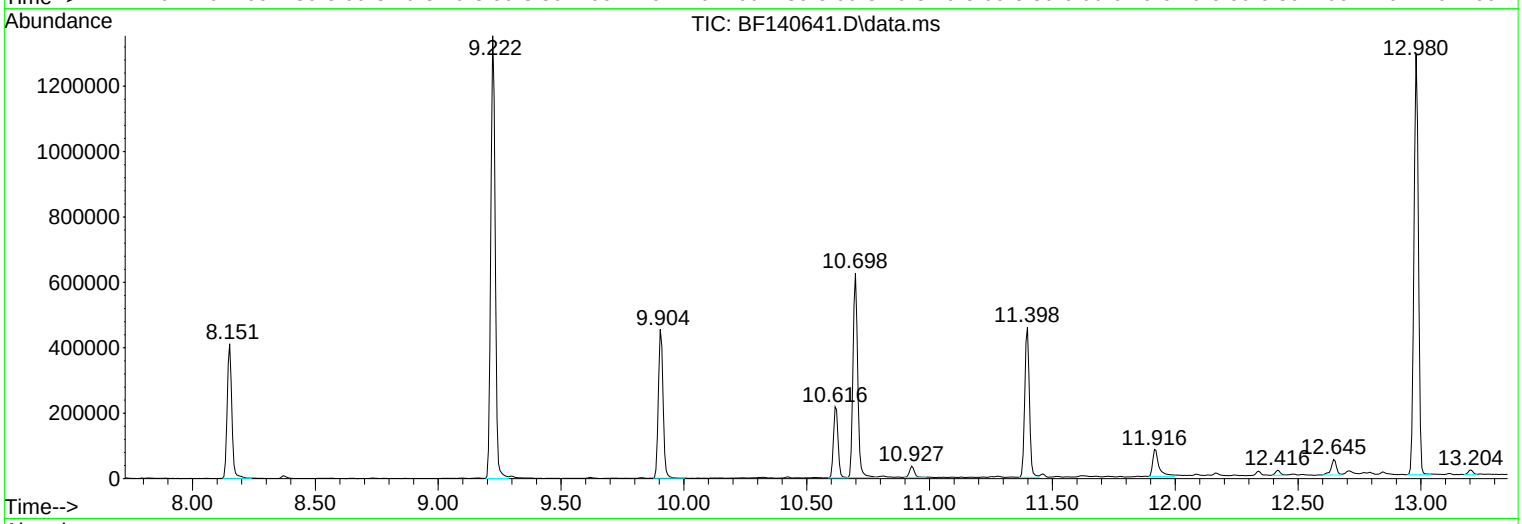
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

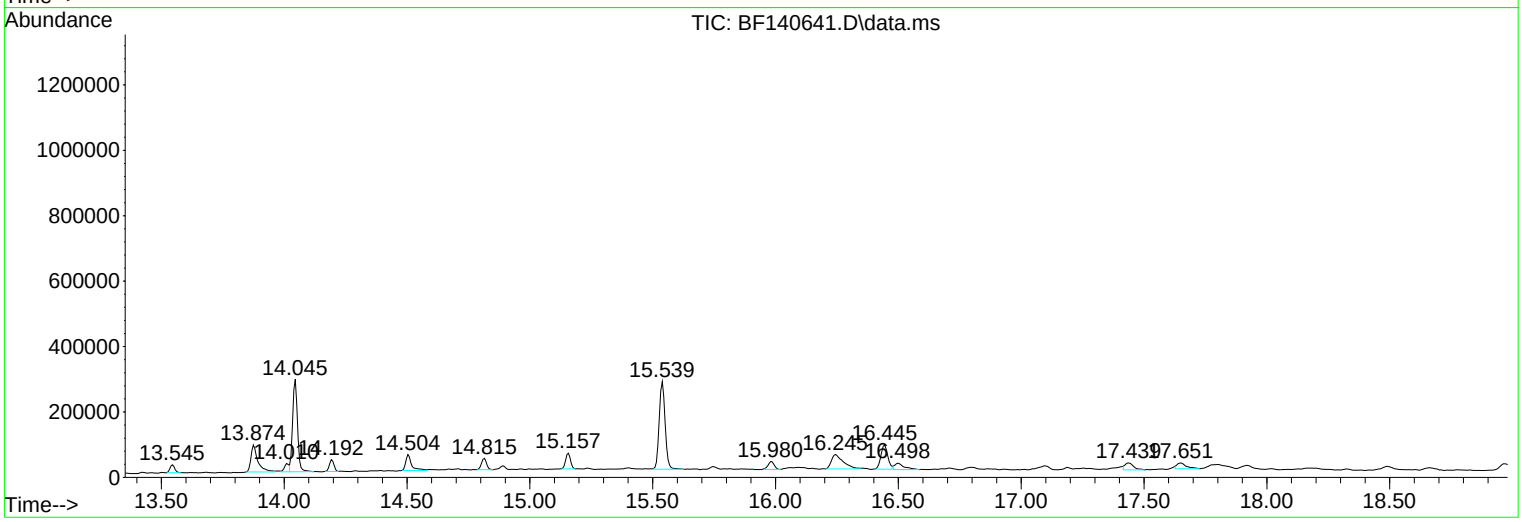
**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

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\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

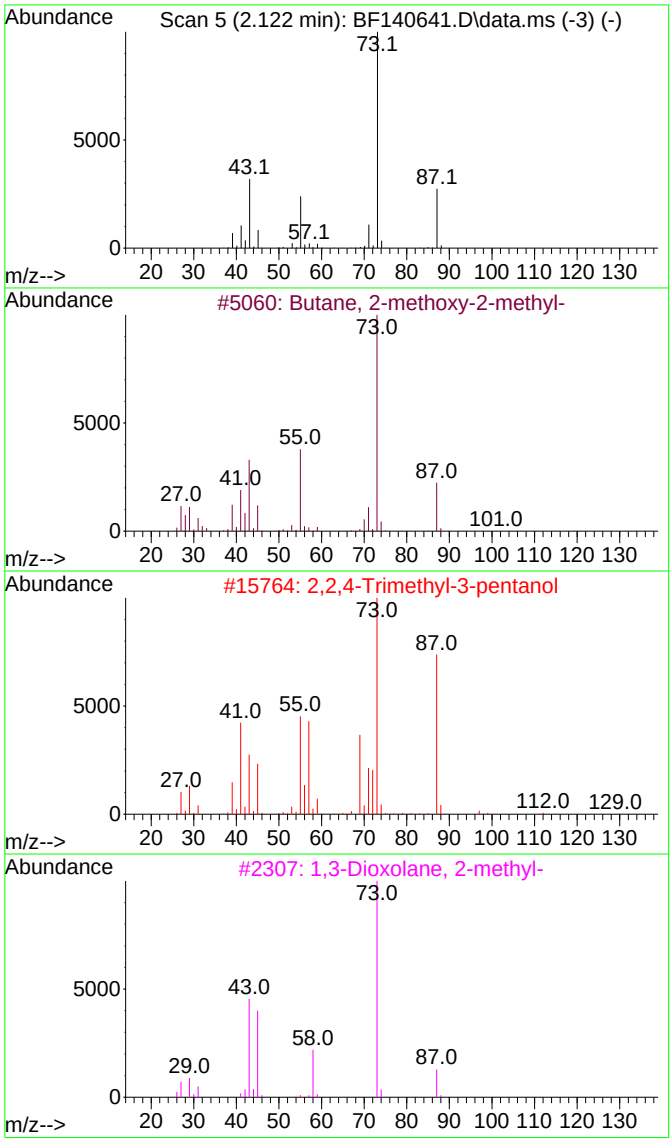
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

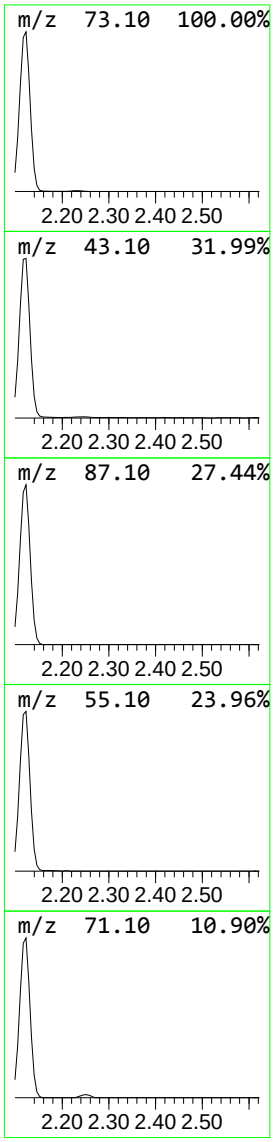
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.122 | 32.71 ng | 703888 | 1,4-Dichlorobenzene-d4 | 6.869 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 83 |
| 2 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 39 |
| 3 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 25 |
| 4 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 23 |
| 5 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 17 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

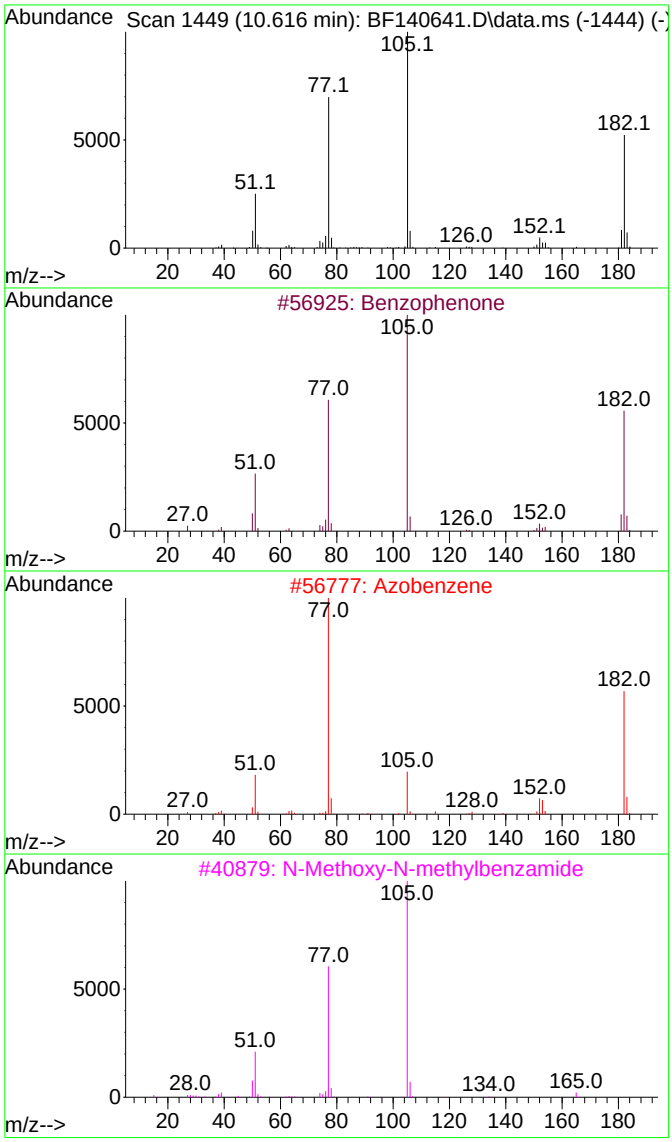
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

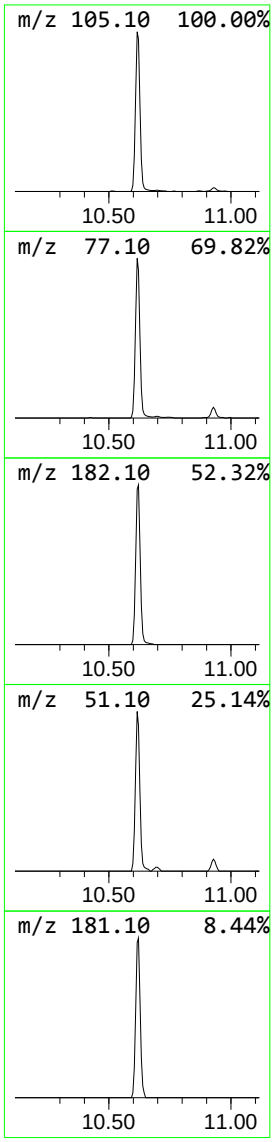
**********

Peak Number 2 Benzophenone Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.616 | 9.63 ng | 284390 | Acenaphthene-d10 | 9.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 96 |
| 2 | Azobenzene | 182 | C12H10N2 | 000103-33-3 | 59 |
| 3 | N-Methoxy-N-methylbenzamide | 165 | C9H11NO2 | 006919-61-5 | 49 |
| 4 | N-Methylbenzamide, N-trifluoroac... | 231 | C10H8F3NO2 | 1000446-91-5 | 47 |
| 5 | Vinyl benzoate | 148 | C9H8O2 | 000769-78-8 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

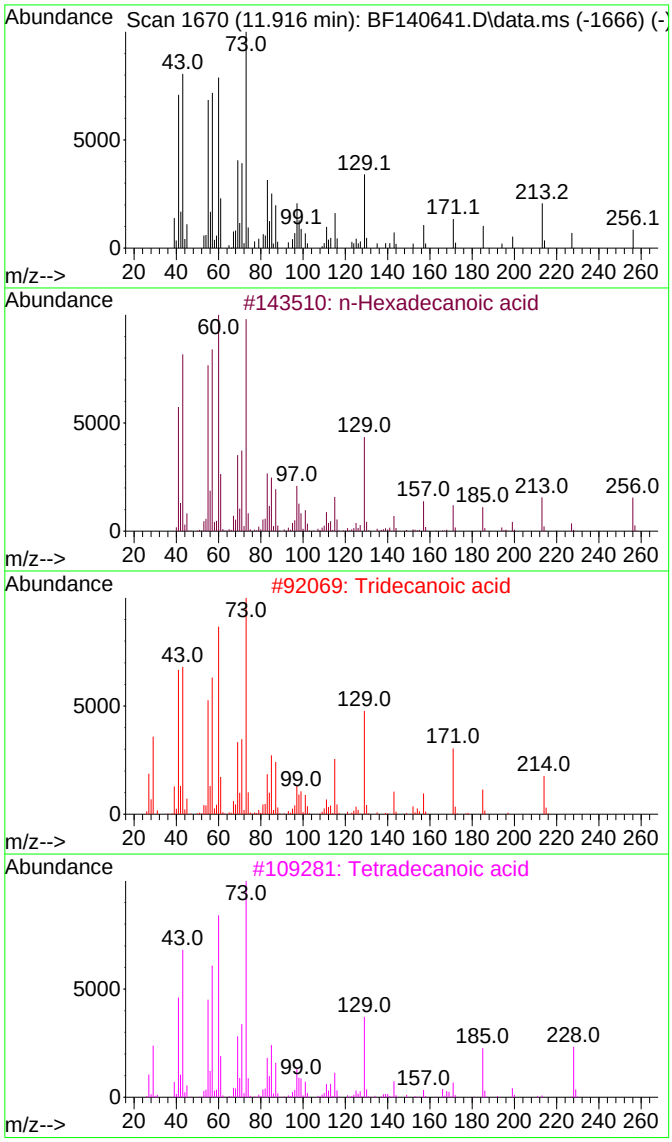
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

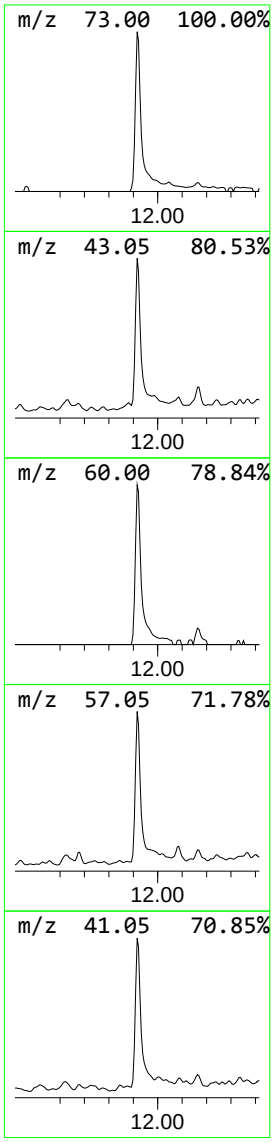
**********

Peak Number 3 n-Hexadecanoic acid Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.916 | 4.90 ng | 147459 | Phenanthrene-d10 | 11.398 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 97 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 95 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 80 |
| 4 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 74 |
| 5 | Oxalic acid, dodecyl propyl ester | 300 | C17H32O4 | 1000309-26-5 | 25 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

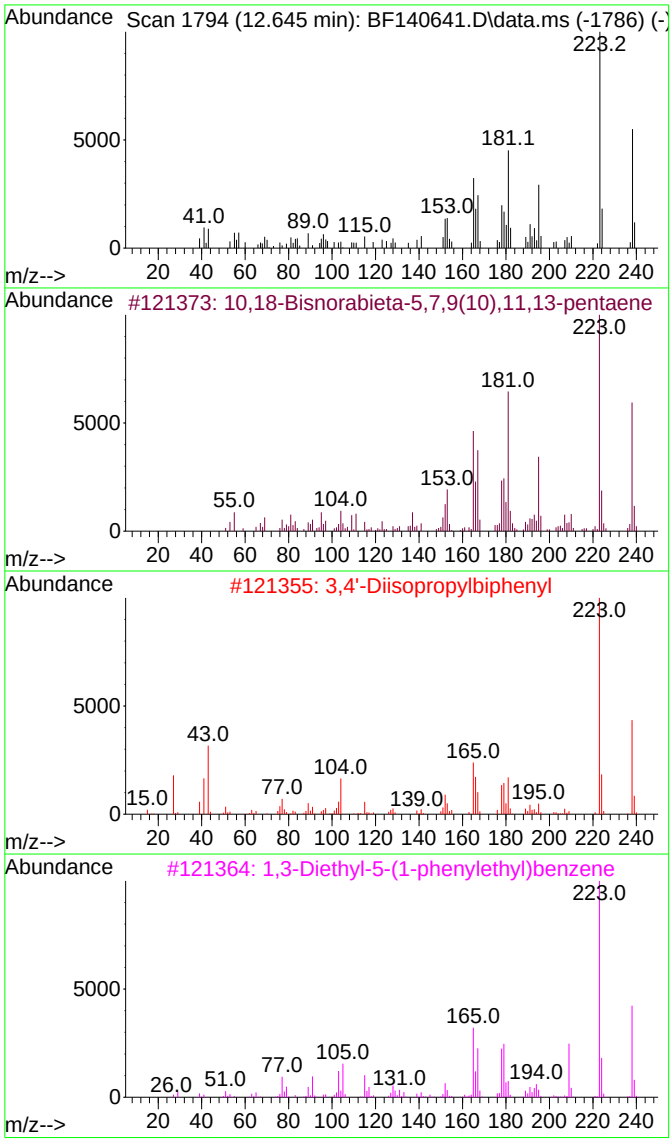
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

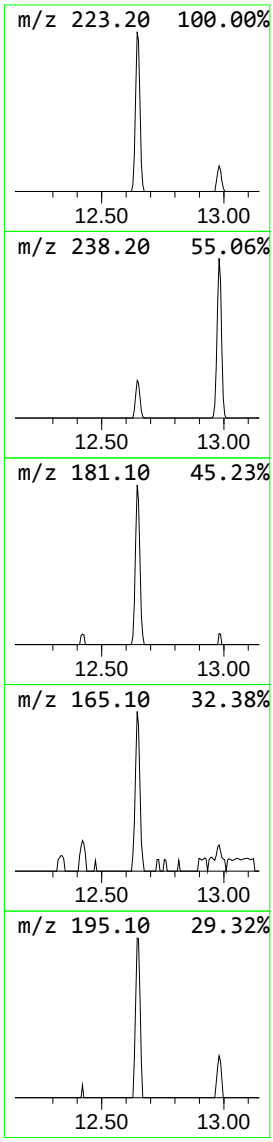
**********

Peak Number 4 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.645 | 2.40 ng | 72175 | Phenanthrene-d10 | 11.398 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10,18-Bisnorabieta-5,7,9(10),11,... | 238 | C18H22 | 006566-19-4 | 99 |
| 2 | 3,4'-Diisopropylbiphenyl | 238 | C18H22 | 061434-46-6 | 89 |
| 3 | 1,3-Diethyl-5-(1-phenylethyl)ben... | 238 | C18H22 | 1000482-32-6 | 72 |
| 4 | 3-(N,N-Diethylamino)carbazole | 238 | C16H18N2 | 054994-31-9 | 49 |
| 5 | 4,4'-Diisopropylbiphenyl | 238 | C18H22 | 018970-30-4 | 49 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

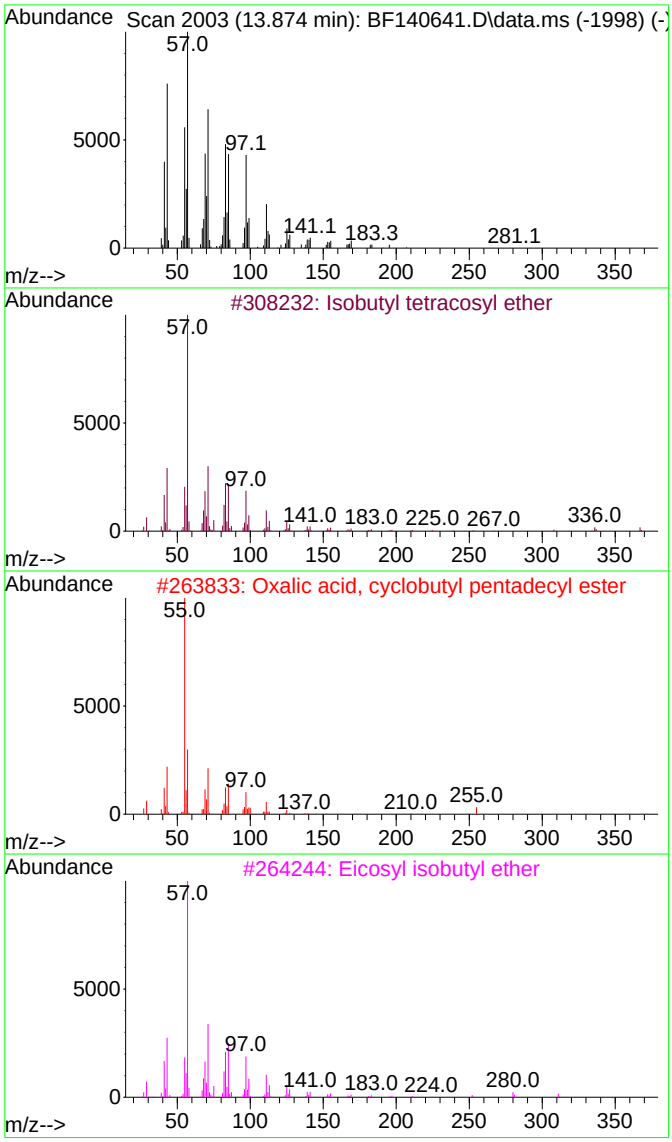
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

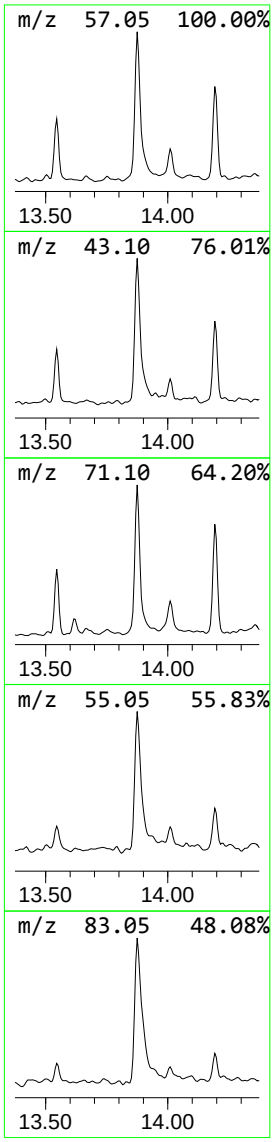
**********

Peak Number 5 Isobutyl tetracosyl ether Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.874 | 8.31 ng | 161630 | Chrysene-d12 | 14.045 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isobutyl tetracosyl ether | 410 | C28H58O | 1000406-33-2 | 91 |
| 2 | Oxalic acid, cyclobutyl pentadec... | 354 | C21H38O4 | 1010309-70-5 | 90 |
| 3 | Eicosyl isobutyl ether | 354 | C24H50O | 1000406-33-0 | 90 |
| 4 | 1-Decanol, 2-octyl- | 270 | C18H38O | 045235-48-1 | 83 |
| 5 | 1-Decanol, 2-hexyl- | 242 | C16H34O | 002425-77-6 | 74 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

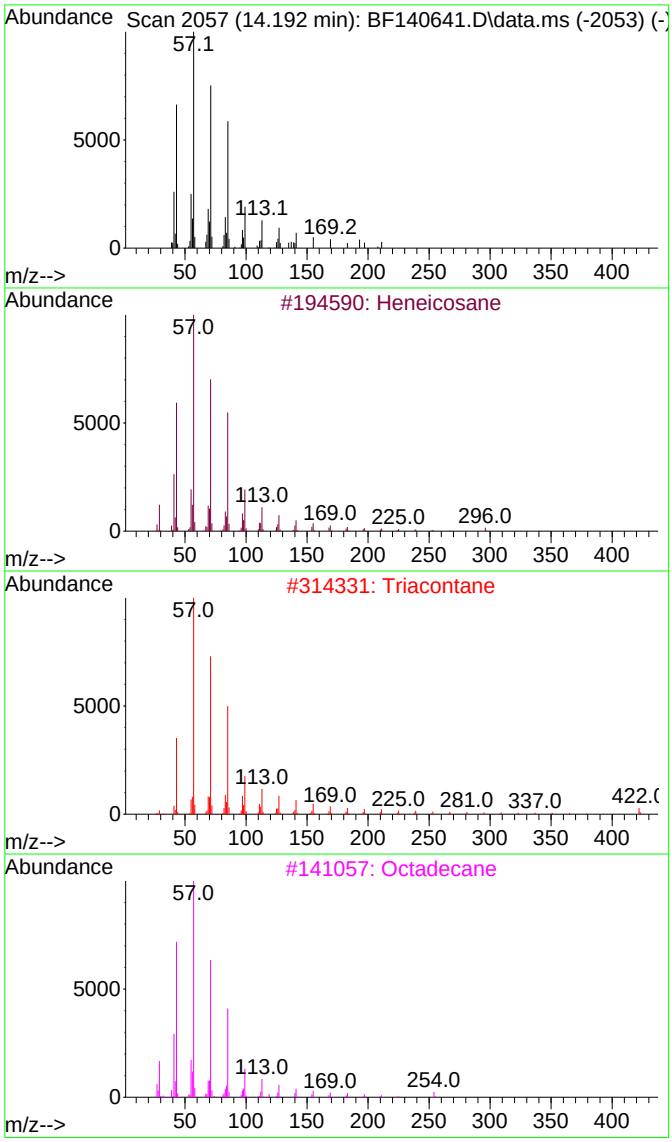
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

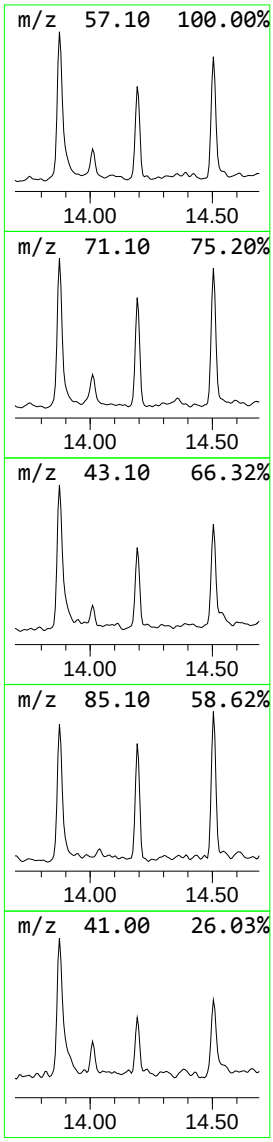
**********

Peak Number 6 Heneicosane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.192 | 2.34 ng | 45459 | Chrysene-d12 | 14.045 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 2 | Triacontane | 422 | C30H62 | 000638-68-6 | 91 |
| 3 | Octadecane | 254 | C18H38 | 000593-45-3 | 91 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 90 |
| 5 | Tridecanol, 2-ethyl-2-methyl- | 242 | C16H34O | 1010115-66-1 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

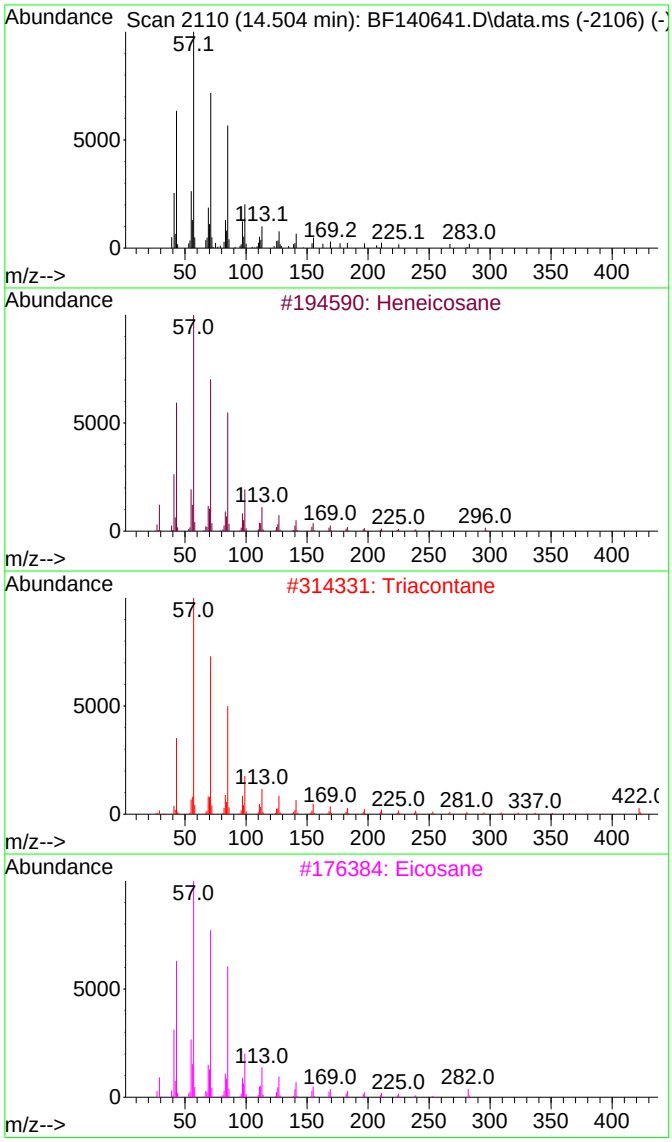
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

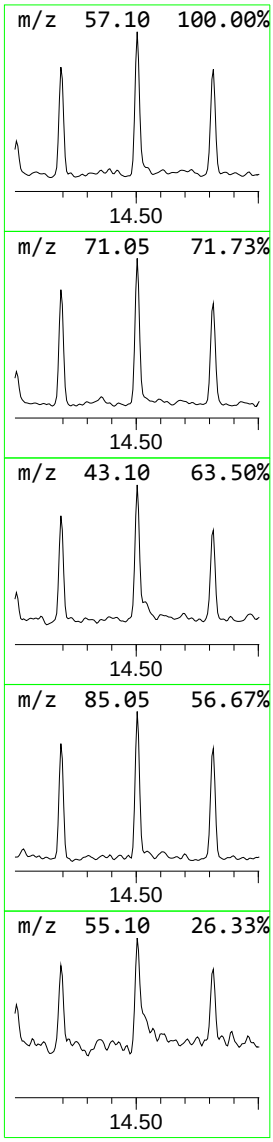
**********

Peak Number 7 Triacontane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.504 | 4.12 ng | 80254 | Chrysene-d12 | 14.045 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 2 | Triacontane | 422 | C30H62 | 000638-68-6 | 91 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 91 |
| 4 | Octacosane, 2-methyl- | 408 | C29H60 | 001560-98-1 | 91 |
| 5 | Octacosane | 394 | C28H58 | 000630-02-4 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

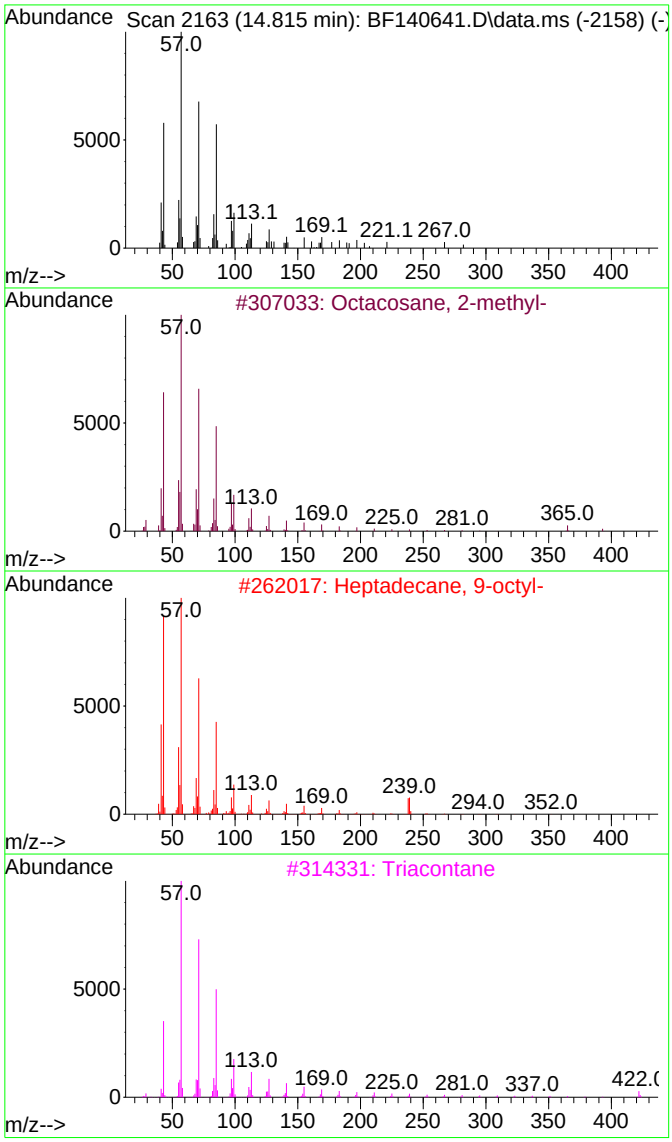
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

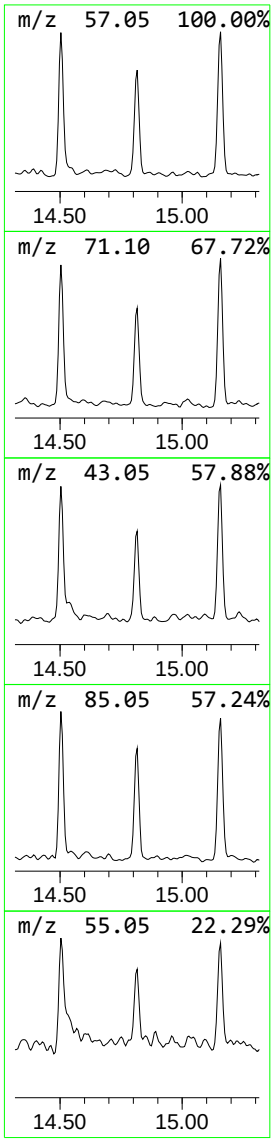
**********

Peak Number 8 Octacosane, 2-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.815 | 2.19 ng | 48570 | Perylene-d12 | 15.539 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octacosane, 2-methyl- | 408 | C29H60 | 001560-98-1 | 91 |
| 2 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 91 |
| 3 | Triacontane | 422 | C30H62 | 000638-68-6 | 91 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 91 |
| 5 | Octadecane | 254 | C18H38 | 000593-45-3 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

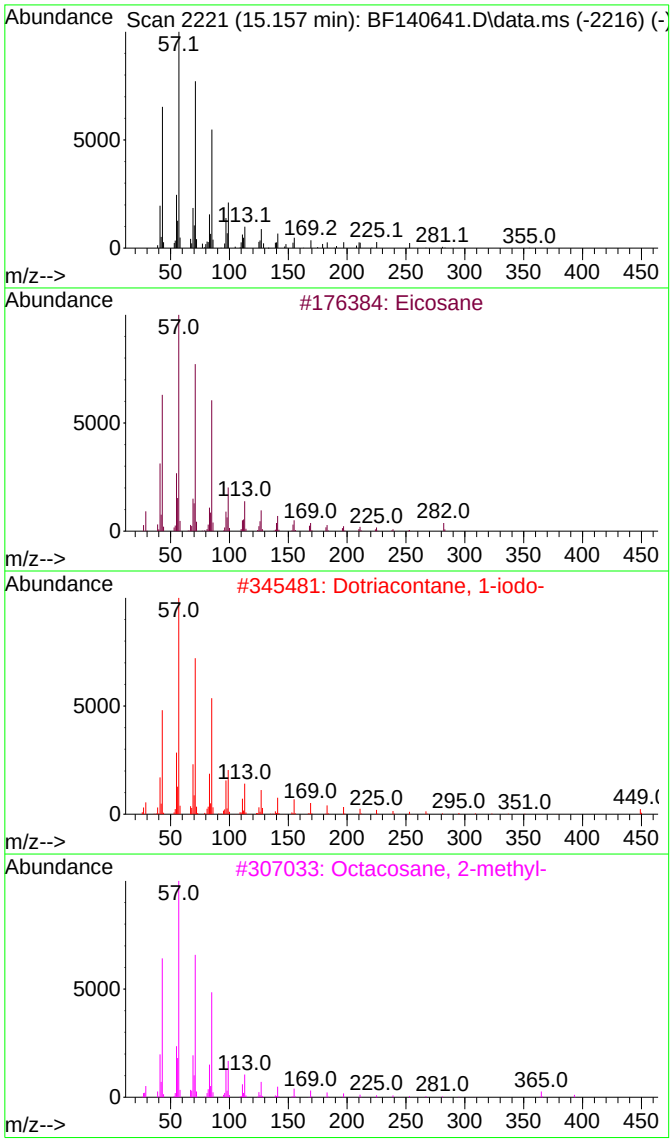
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

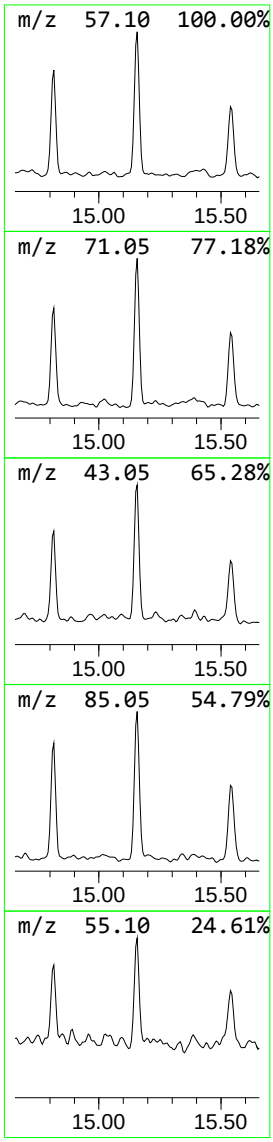
**********

Peak Number 9 Eicosane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.157 | 2.97 ng | 65806 | Perylene-d12 | 15.539 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 91 |
| 2 | Dotriacontane, 1-iodo- | 576 | C32H65I | 1000406-32-4 | 91 |
| 3 | Octacosane, 2-methyl- | 408 | C29H60 | 001560-98-1 | 91 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 5 | Triacontane | 422 | C30H62 | 000638-68-6 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

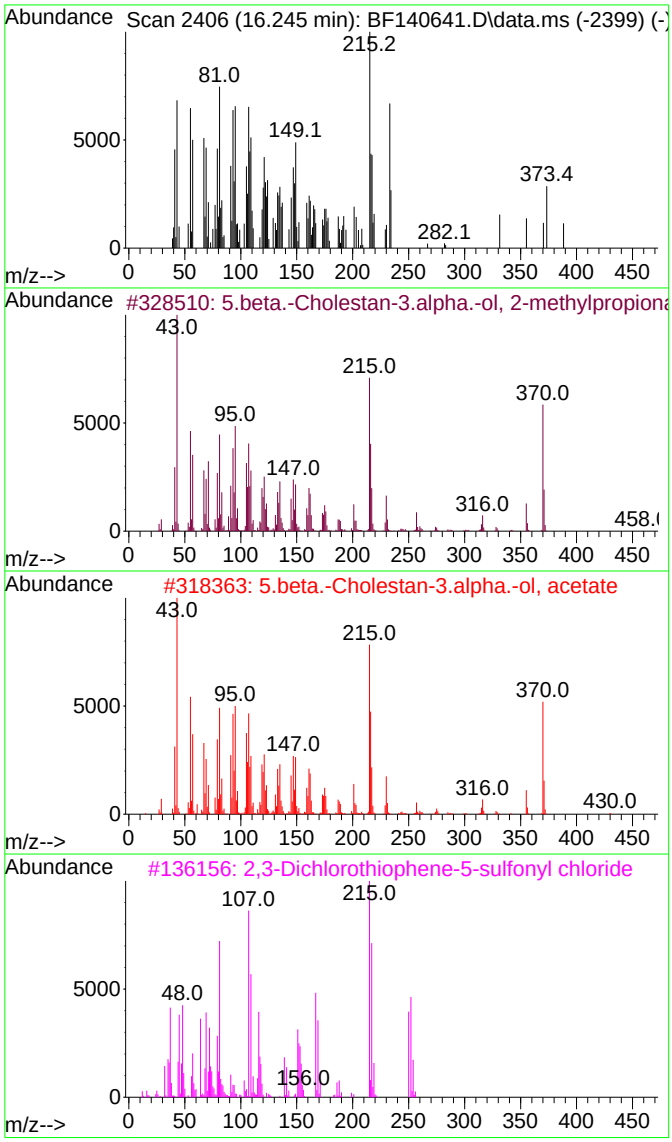
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

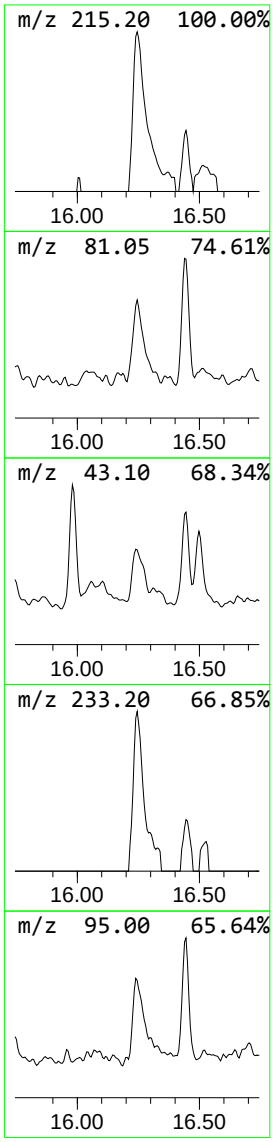
**********

Peak Number 10 unknown16.245 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.245 | 6.64 ng | 147265 | Perylene-d12 | 15.539 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5.beta.-Cholestan-3.alpha.-ol, 2... | 458 | C31H54O2 | 1000514-95-7 | 49 |
| 2 | 5.beta.-Cholestan-3.alpha.-ol, a... | 430 | C29H50O2 | 033157-47-0 | 38 |
| 3 | 2,3-Dichlorothiophene-5-sulfonyl... | 250 | C4HCl3O2S2 | 126714-85-0 | 38 |
| 4 | Cholestan-3.beta.-yl benzoate | 492 | C34H52O2 | 005808-11-7 | 27 |
| 5 | 5-(2-Methyloctan-2-yl)-3-(1R,3R-... | 332 | C22H36O2 | 070434-92-3 | 27 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

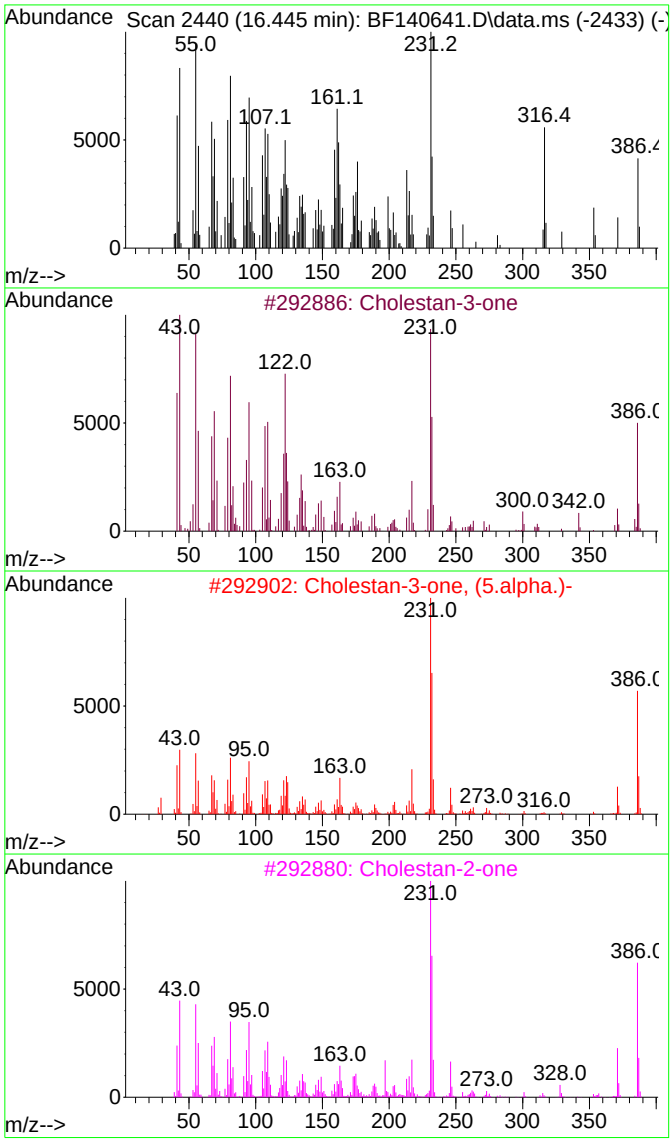
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

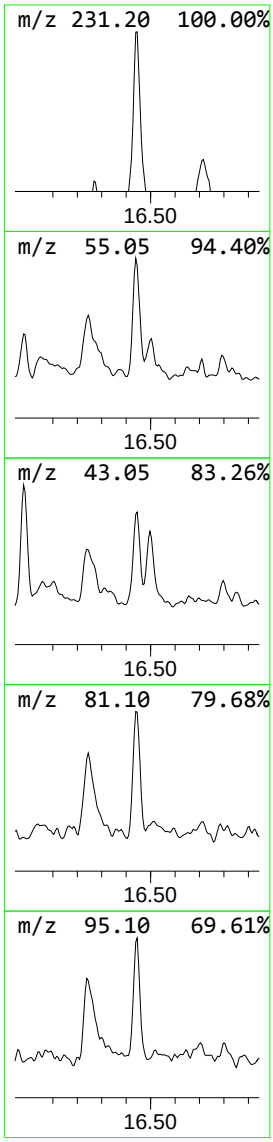
**********

Peak Number 11 Cholestan-3-one Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.445 | 6.44 ng | 142864 | Perylene-d12 | 15.539 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cholestan-3-one | 386 | C27H46O | 015600-08-5 | 83 |
| 2 | Cholestan-3-one, (5.alpha.)- | 386 | C27H46O | 000566-88-1 | 62 |
| 3 | Cholestan-2-one | 386 | C27H46O | 1010210-43-4 | 47 |
| 4 | Cholestan-3-one, (5.beta.)- | 386 | C27H46O | 000601-53-6 | 42 |
| 5 | trans-1-(p-Methoxyphenyl)-1-tetr... | 316 | C21H32O2 | 123501-67-7 | 35 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

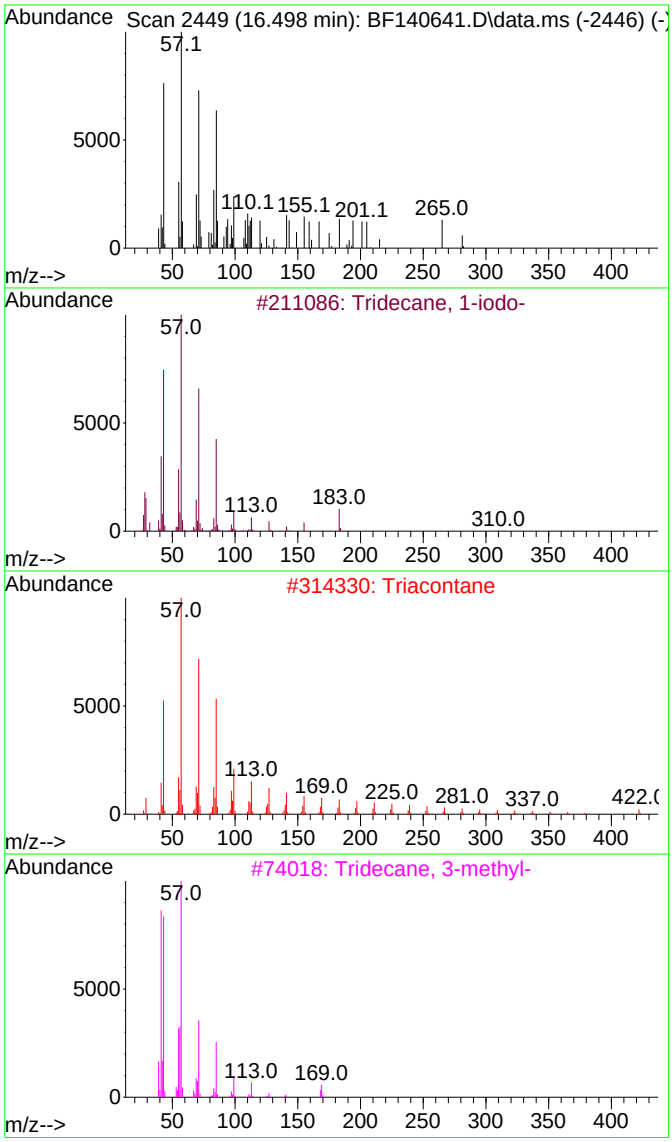
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

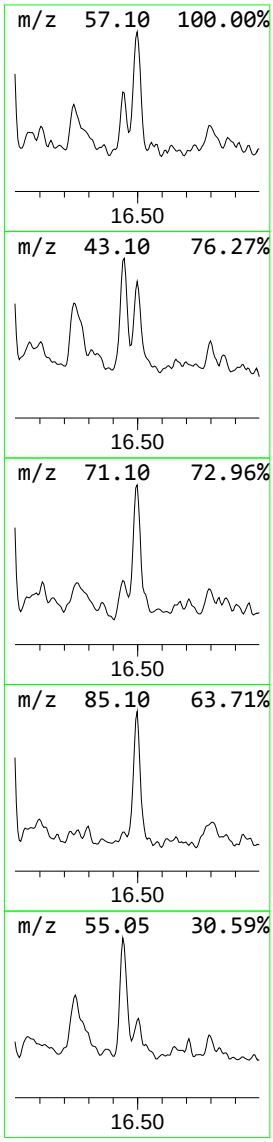
**********

Peak Number 12 unknown16.498 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.498 | 2.22 ng | 49181 | Perylene-d12 | 15.539 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 47 |
| 2 | Triacontane | 422 | C30H62 | 000638-68-6 | 47 |
| 3 | Tridecane, 3-methyl- | 198 | C14H30 | 006418-41-3 | 47 |
| 4 | Sulfurous acid, 2-propyl undecyl... | 278 | C14H30O3S | 1000309-12-2 | 47 |
| 5 | Octacosane | 394 | C28H58 | 000630-02-4 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

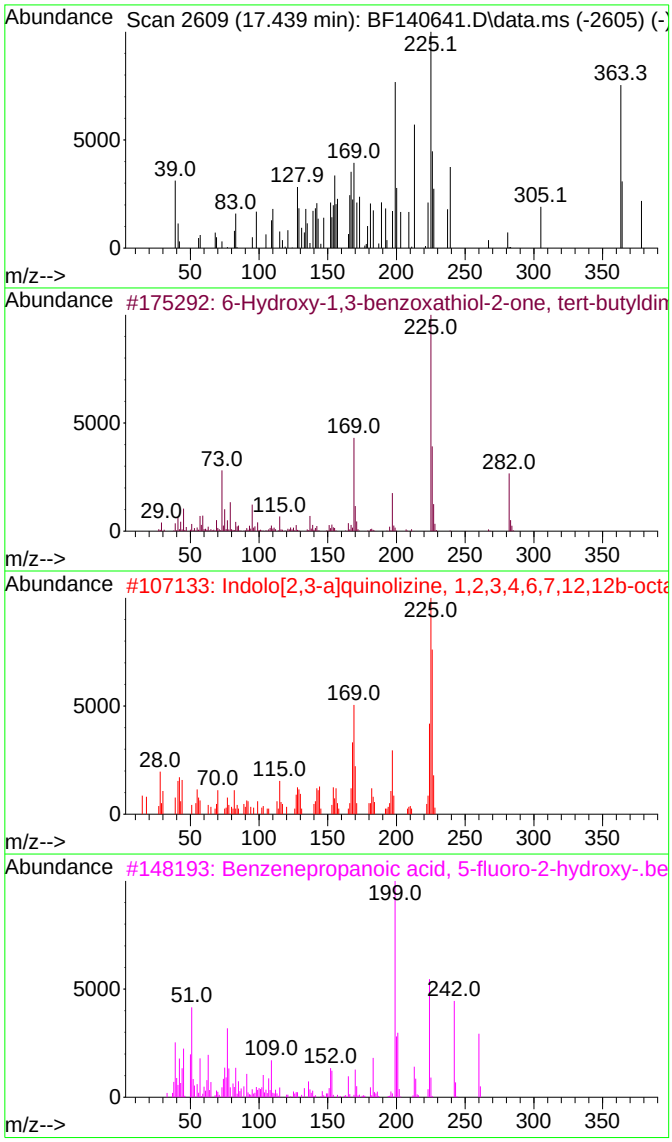
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

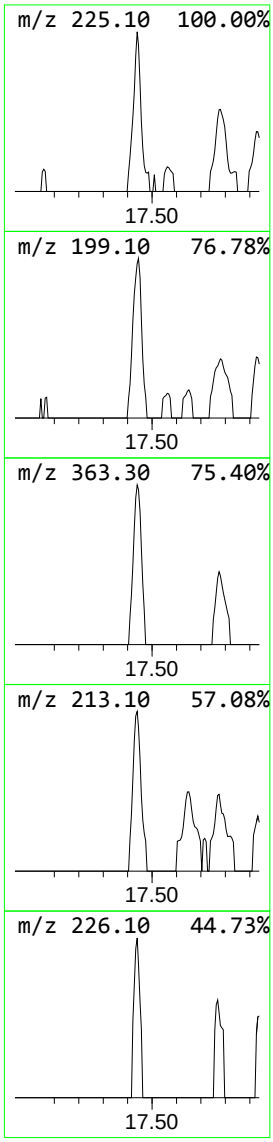
**********

Peak Number 13 unknown17.439 Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.439 | 2.27 ng | 50352 | Perylene-d12 | 15.539 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 6-Hydroxy-1,3-benzoxathiol-2-one... | 282 | C13H18O3SSi | 1010461-98-2 | 12 |
| 2 | Indolo[2,3-a]quinolizine, 1,2,3,... | 226 | C15H18N2 | 004802-79-3 | 11 |
| 3 | Benzenepropanoic acid, 5-fluoro-... | 260 | C15H13FO3 | 1000362-84-1 | 10 |
| 4 | 3-Methoxydiphenylamine | 199 | C13H13NO | 000101-16-6 | 10 |
| 5 | 6-(2-Chloroethylthio)-N,N,N',N'-... | 261 | C9H16ClN5S | 1000102-02-9 | 10 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

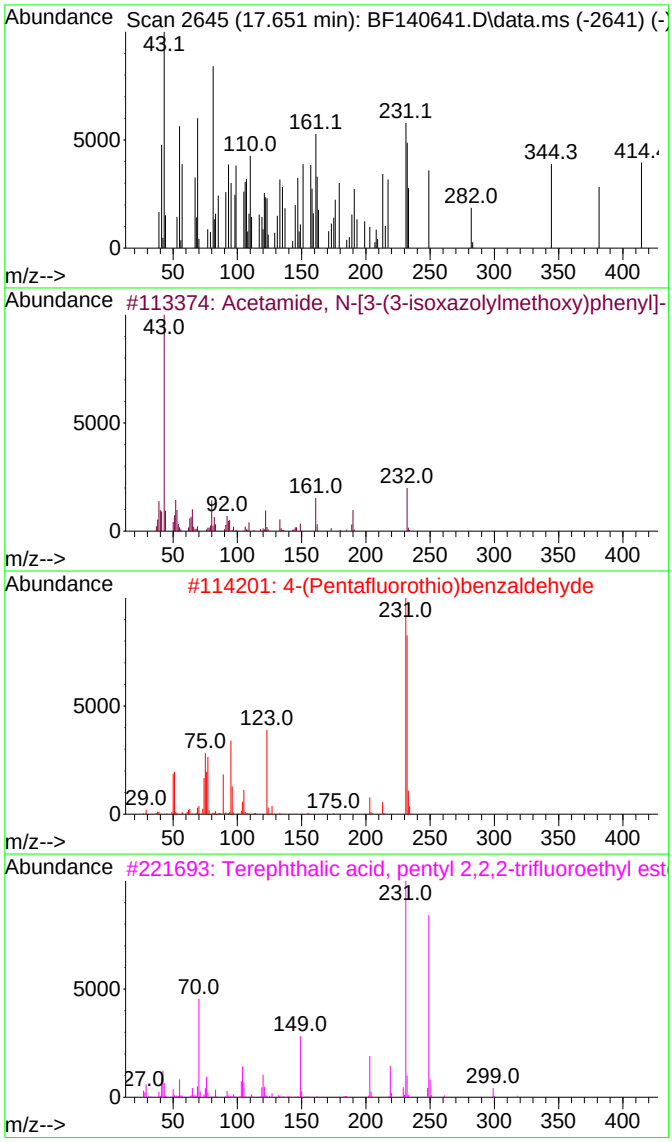
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

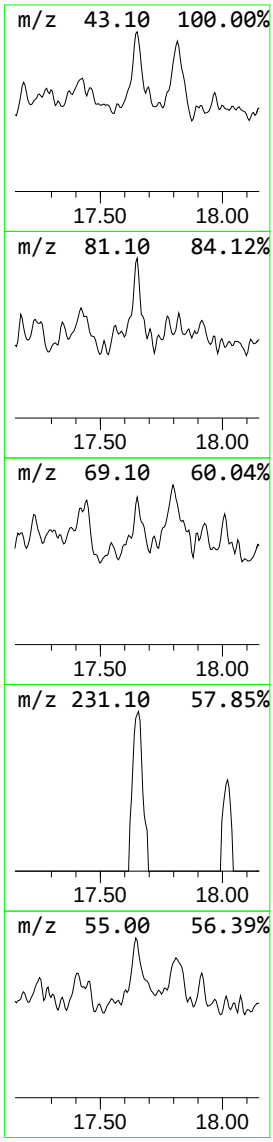
**********

Peak Number 14 unknown17.651 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.651 | 2.07 ng | 45973 | Perylene-d12 | 15.539 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetamide, N-[3-(3-isoxazolylmet... | 232 | C12H12N2O3 | 1000362-73-8 | 10 |
| 2 | 4-(Pentafluorothio)benzaldehyde | 232 | C7H5F5OS | 401892-84-0 | 10 |
| 3 | Terephthalic acid, pentyl 2,2,2-... | 318 | C15H17F3O4 | 1000383-04-0 | 10 |
| 4 | 4-(4-Chlorophenoxy)benzaldehyde | 232 | C13H9ClO2 | 061343-99-5 | 10 |
| 5 | Costunolide | 232 | C15H20O2 | 000553-21-9 | 10 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PH2-BOT-005

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... | 2.122 | 32.7 | ng | 703888 | 1 | 6.869 | 430326 | 20.0 |
| Benzophenone | 10.616 | 9.6 | ng | 284390 | 3 | 9.904 | 590370 | 20.0 |
| n-Hexadecanoic ... | 11.916 | 4.9 | ng | 147459 | 4 | 11.398 | 602196 | 20.0 |
| 10,18-Bisnorabi... | 12.645 | 2.4 | ng | 72175 | 4 | 11.398 | 602196 | 20.0 |
| Isobutyl tetrac... | 13.874 | 8.3 | ng | 161630 | 5 | 14.045 | 389191 | 20.0 |
| Heneicosane | 14.192 | 2.3 | ng | 45459 | 5 | 14.045 | 389191 | 20.0 |
| Triacontane | 14.504 | 4.1 | ng | 80254 | 5 | 14.045 | 389191 | 20.0 |
| Octacosane, 2-m... | 14.815 | 2.2 | ng | 48570 | 6 | 15.539 | 443348 | 20.0 |
| Eicosane | 15.157 | 3.0 | ng | 65806 | 6 | 15.539 | 443348 | 20.0 |
| unknown16.245 | 16.245 | 6.6 | ng | 147265 | 6 | 15.539 | 443348 | 20.0 |
| Cholestan-3-one | 16.445 | 6.4 | ng | 142864 | 6 | 15.539 | 443348 | 20.0 |
| unknown16.498 | 16.498 | 2.2 | ng | 49181 | 6 | 15.539 | 443348 | 20.0 |
| unknown17.439 | 17.439 | 2.3 | ng | 50352 | 6 | 15.539 | 443348 | 20.0 |
| unknown17.651 | 17.651 | 2.1 | ng | 45973 | 6 | 15.539 | 443348 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140444.D
Acq On : 18 Nov 2024 10:39
Operator : RC/JU
Sample : PB165029BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB165029BL

Quant Time: Nov 18 11:37:15 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

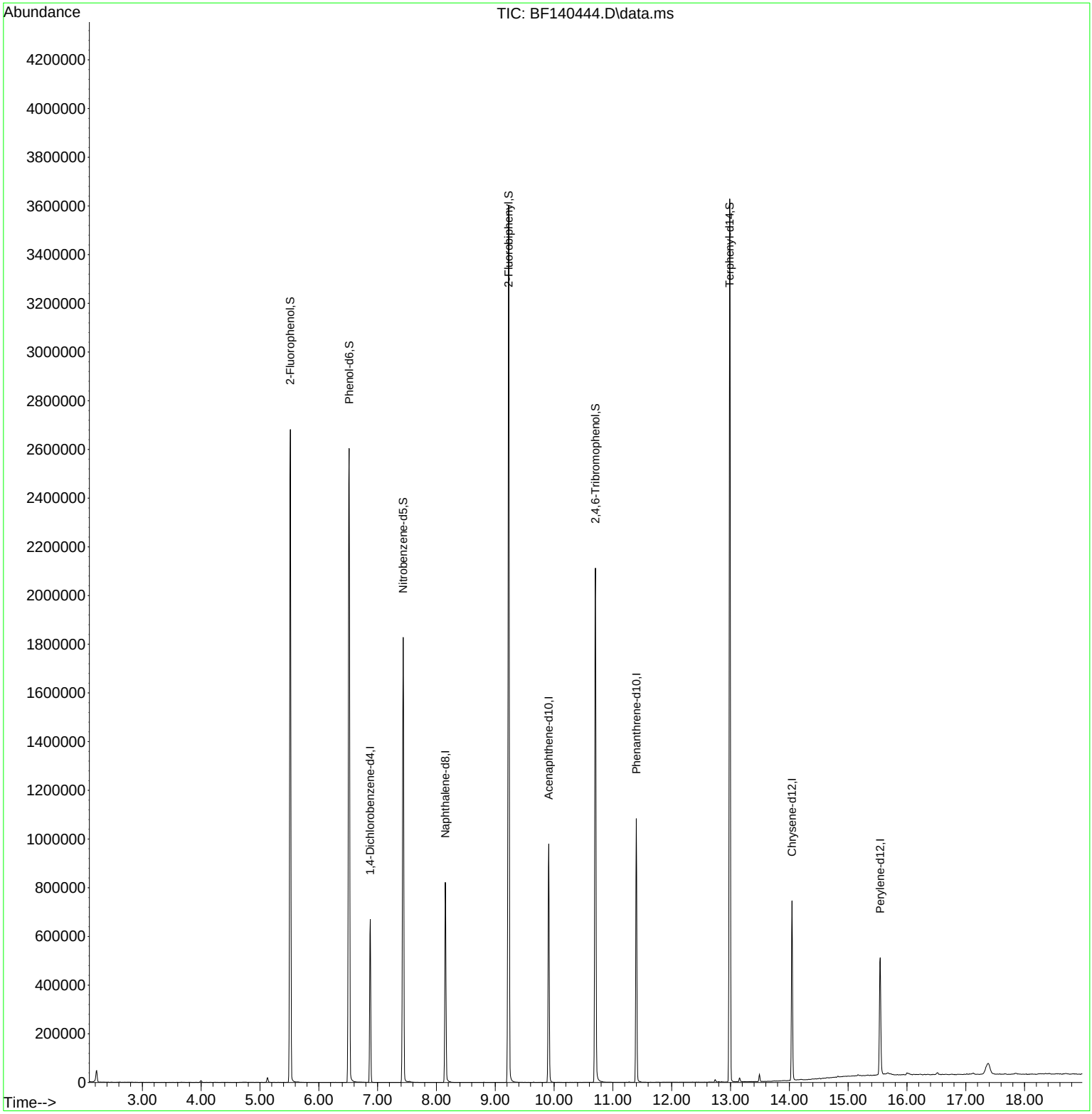
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.875 | 152 | 142751 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.151 | 136 | 545917 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.910 | 164 | 305122 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.398 | 188 | 581224 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.045 | 240 | 355427 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.545 | 264 | 295657 | 20.000 | ng | -0.01 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.516 | 112 | 1035618 | 123.866 | ng | 0.02 |
| 7) Phenol-d6 | 6.516 | 99 | 1358724 | 119.949 | ng | 0.01 |
| 23) Nitrobenzene-d5 | 7.434 | 82 | 893759 | 85.301 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.704 | 330 | 382445 | 126.045 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.228 | 172 | 1679654 | 88.493 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.986 | 244 | 1809956 | 88.392 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

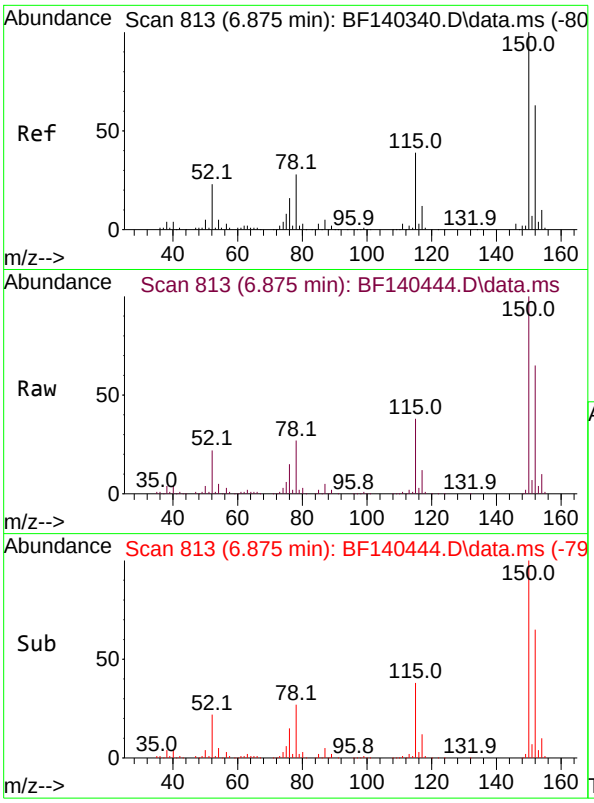
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140444.D
Acq On : 18 Nov 2024 10:39
Operator : RC/JU
Sample : PB165029BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB165029BL

Quant Time: Nov 18 11:37:15 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



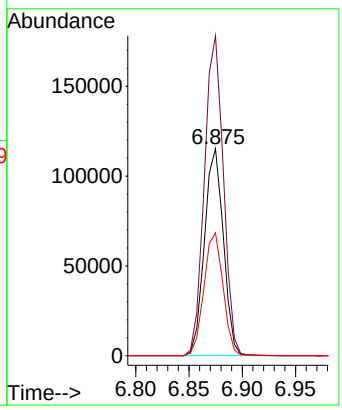


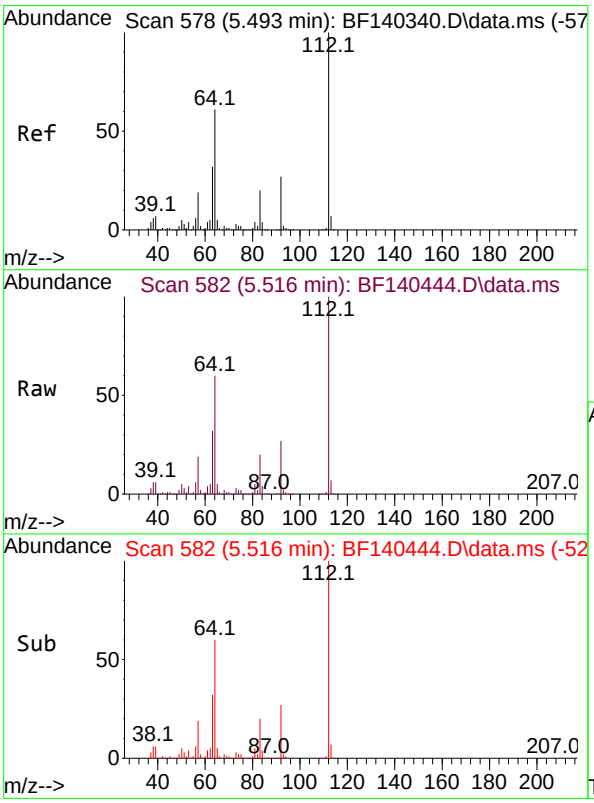

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

**Instrument :**
BNA_F
**ClientSampleId :**
PB165029BL

Tgt Ion:152 Resp: 142751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.5 | 127.4 | 191.0 |
| 115 | 59.3 | 47.4 | 71.2 |

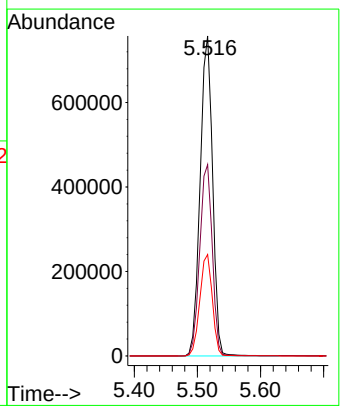


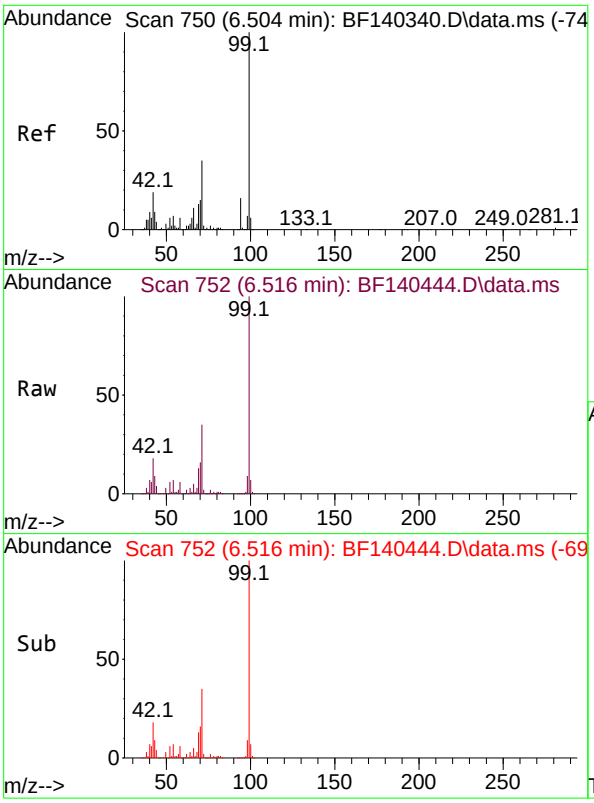




#5
2-Fluorophenol
Concen: 123.866 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.023 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

Tgt Ion:112 Resp: 1035618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 59.8 | 49.2 | 73.8 |
| 63 | 31.7 | 25.6 | 38.4 |



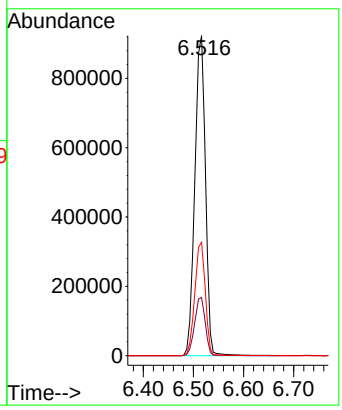


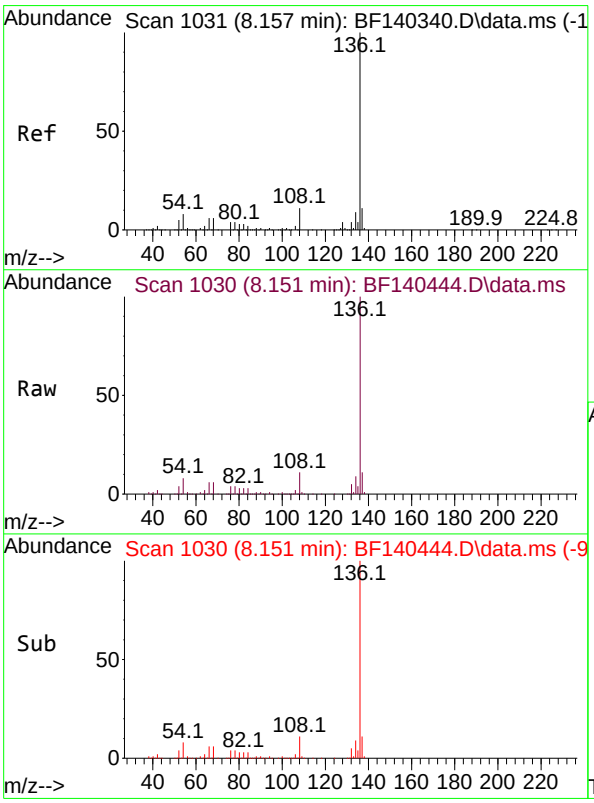

#7
Phenol-d6
Concen: 119.949 ng
RT: 6.516 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

**Instrument :**
BNA_F
**ClientSampleId :**
PB165029BL

Tgt Ion: 99 Resp: 1358724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.2 | 15.1 | 22.7 |
| 71 | 35.5 | 27.9 | 41.9 |

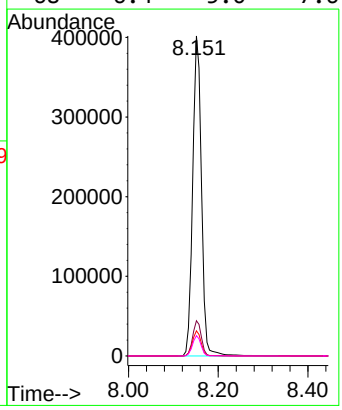


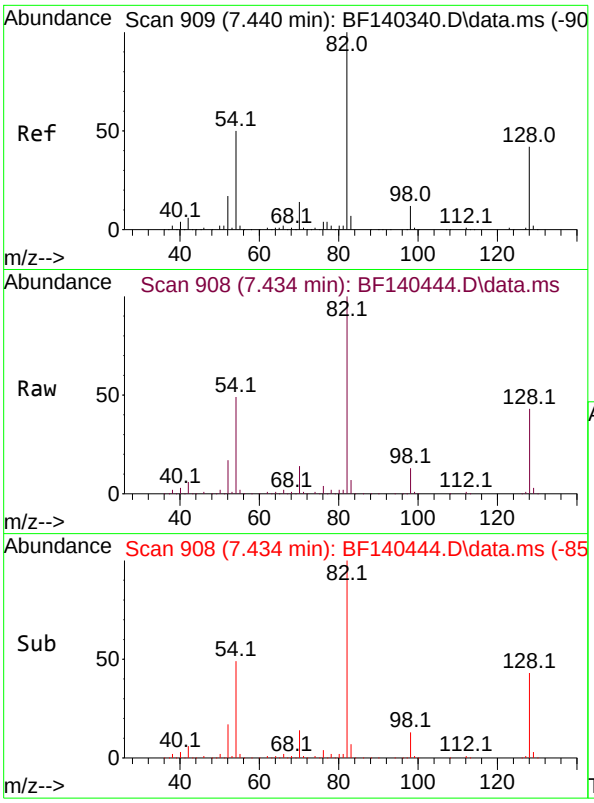




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

Tgt Ion:136 Resp: 545917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.7 | 13.1 |
| 54 | 7.9 | 6.5 | 9.7 |
| 68 | 6.4 | 5.0 | 7.6 |



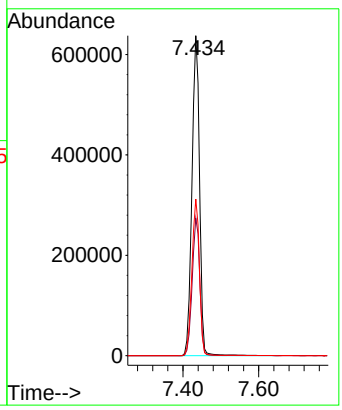


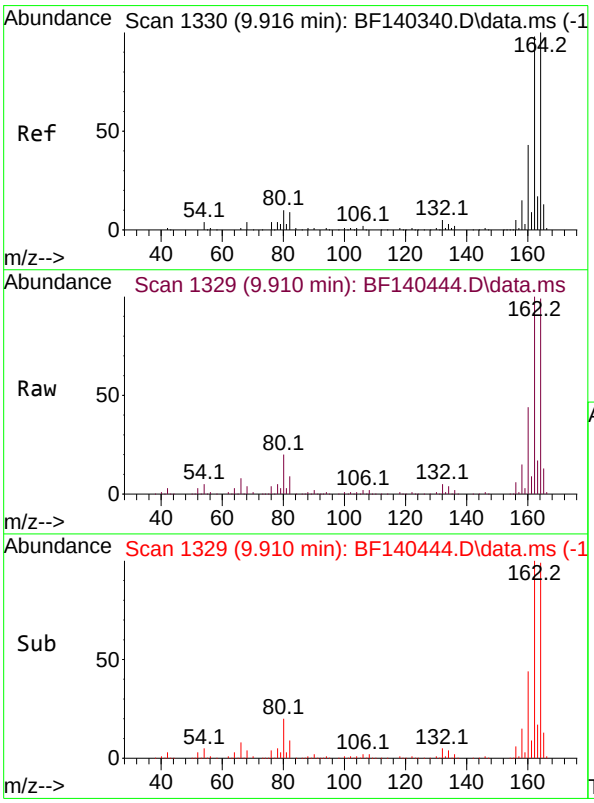

#23
Nitrobenzene-d5
Concen: 85.301 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

**Instrument :**
BNA_F
**ClientSampleId :**
PB165029BL

Tgt Ion: 82 Resp: 893759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.9 | 33.3 | 49.9 |
| 54 | 48.9 | 39.8 | 59.8 |

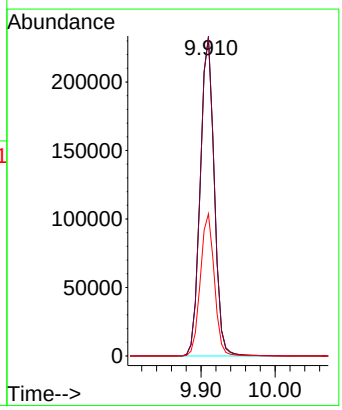


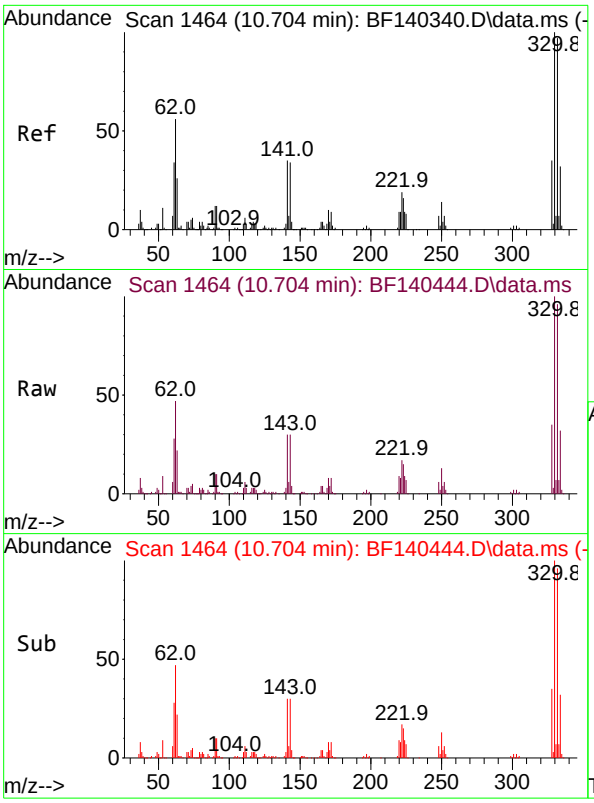




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

Tgt Ion:164 Resp: 305122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.6 | 79.8 | 119.8 |
| 160 | 44.7 | 35.4 | 53.0 |



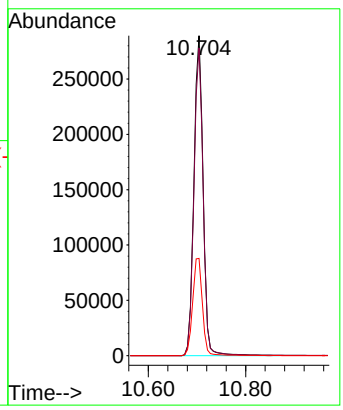


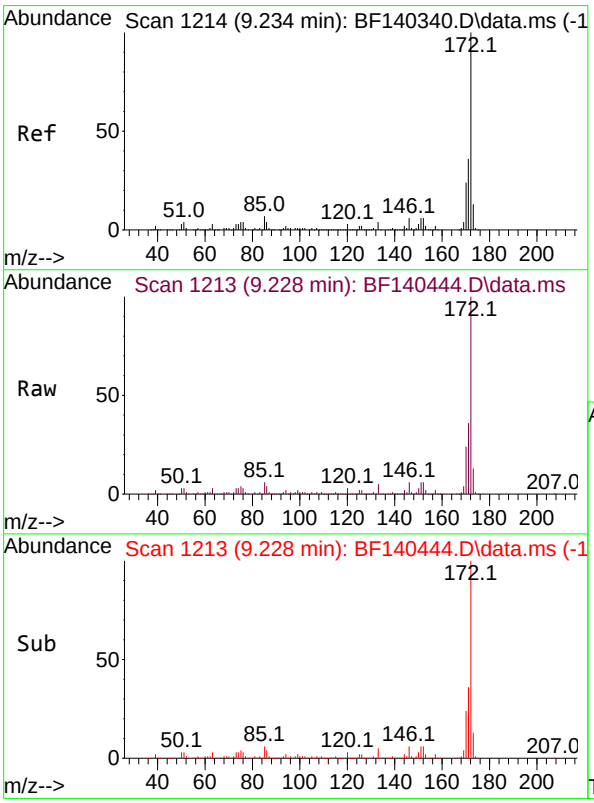

#42
2,4,6-Tribromophenol
Concen: 126.045 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

**Instrument :**
BNA_F
**ClientSampleId :**
PB165029BL

Tgt Ion:330 Resp: 382445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.4 | 75.9 | 113.9 |
| 141 | 32.3 | 26.9 | 40.3 |

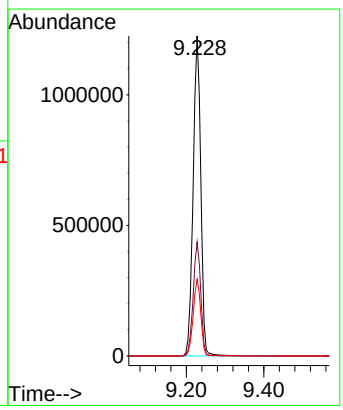


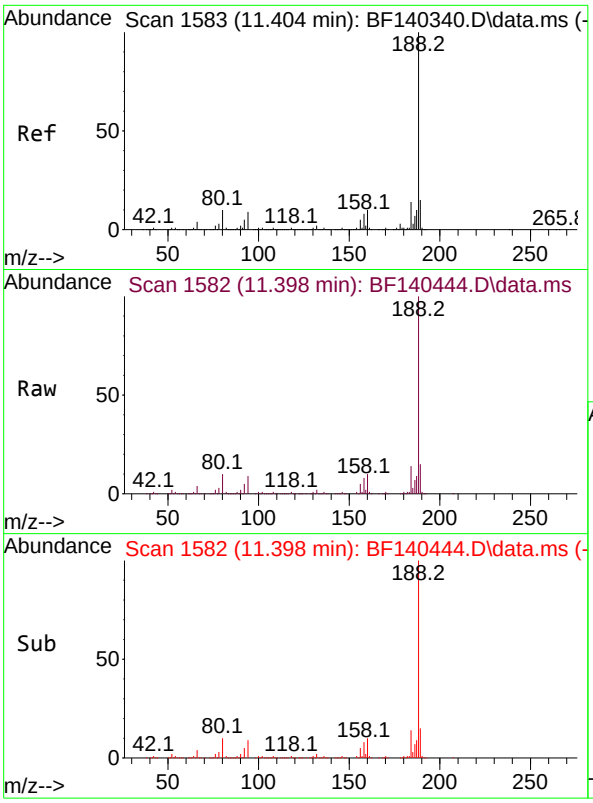




#45
2-Fluorobiphenyl
Concen: 88.493 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

Tgt Ion:172 Resp: 1679654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.6 | 28.5 | 42.7 |
| 170 | 24.0 | 19.1 | 28.7 |



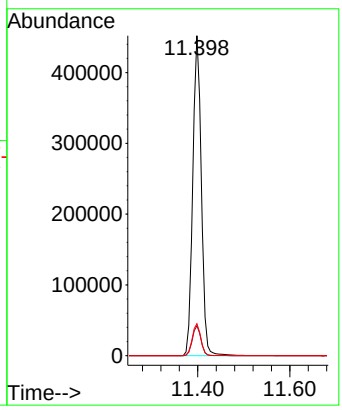


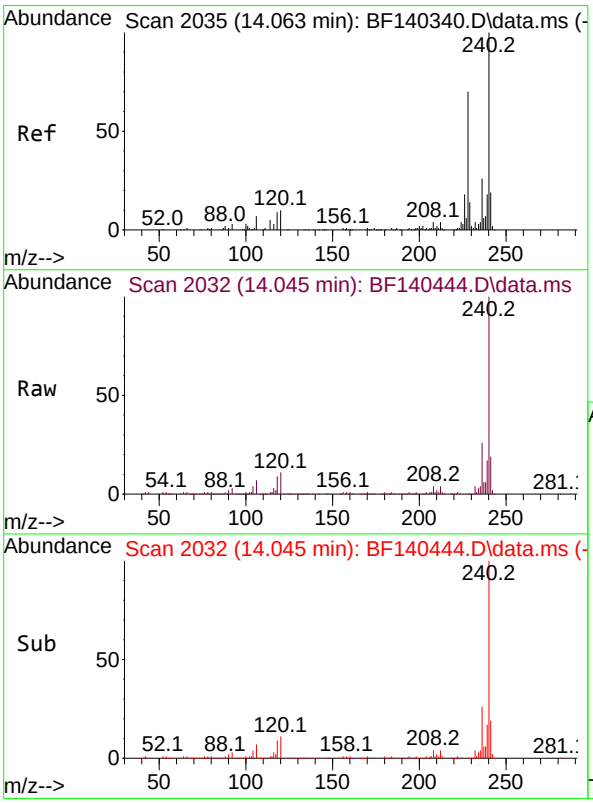

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

**Instrument :**
BNA_F
**ClientSampleId :**
PB165029BL

Tgt Ion:188 Resp: 581224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.4 | 7.6 | 11.4 |
| 80 | 10.0 | 8.0 | 12.0 |

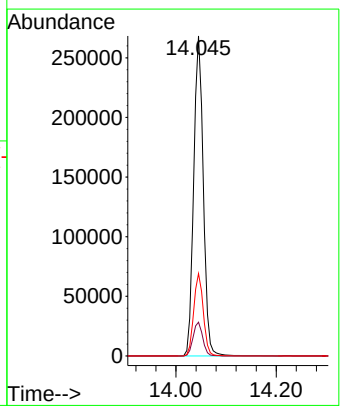


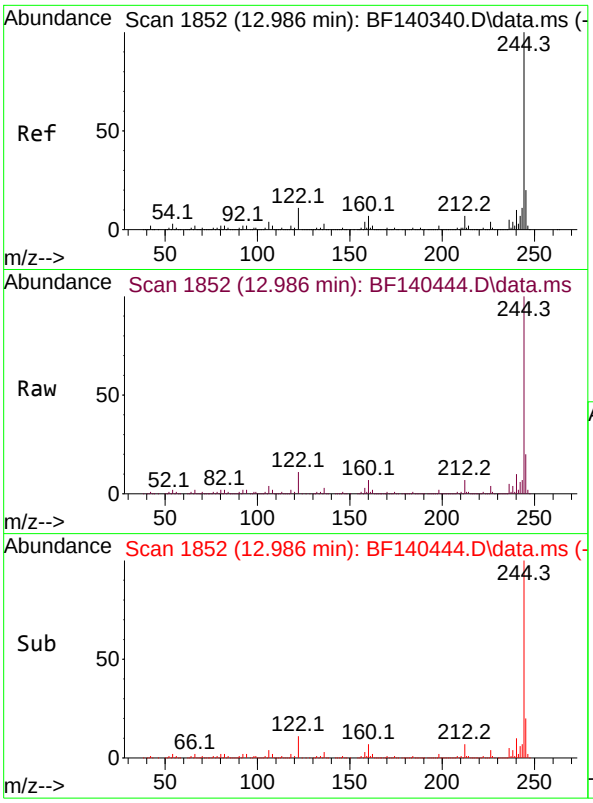




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

Tgt Ion:240 Resp: 355427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.6 | 8.8 | 13.2 |
| 236 | 25.8 | 20.9 | 31.3 |



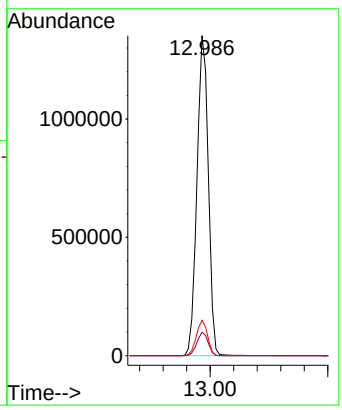


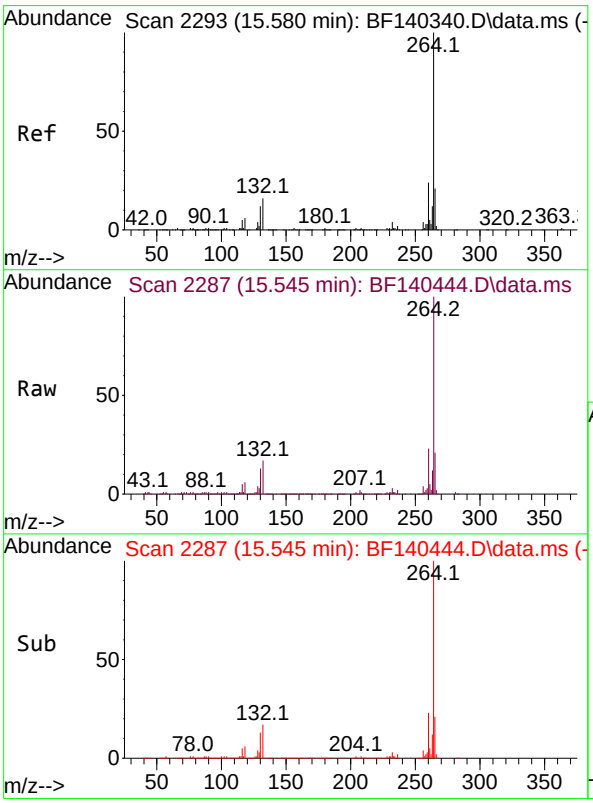

#79
Terphenyl-d14
Concen: 88.392 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

**Instrument :**
BNA_F
**ClientSampleId :**
PB165029BL

Tgt Ion:244 Resp: 1809956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.3 | 5.8 | 8.8 |
| 122 | 11.1 | 8.8 | 13.2 |

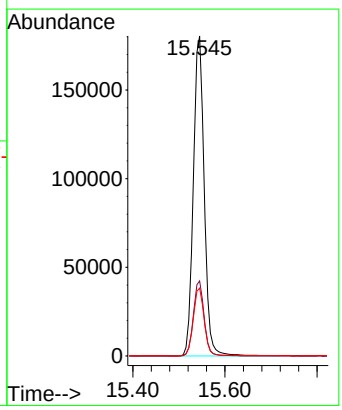



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2287
Delta R.T. -0.012 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

Tgt Ion:264 Resp: 295657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.5 | 19.2 | 28.8 |
| 265 | 21.2 | 17.1 | 25.7 |



Sample Results: **BF140444.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140444.D
Acq On : 18 Nov 2024 10:39
Operator : RC/JU
Sample : PB165029BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB165029BL

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: BF140444.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.222 | 12 | 22 | 31 | rVB | 47353 | 87895 | 1.81% | 0.301% |
| 2 | 5.516 | 575 | 582 | 587 | rBV | 2681640 | 3658105 | 75.46% | 12.542% |
| 3 | 6.516 | 745 | 752 | 757 | rBV | 2603606 | 3790609 | 78.19% | 12.996% |
| 4 | 6.875 | 808 | 813 | 818 | rBV | 669580 | 833293 | 17.19% | 2.857% |
| 5 | 7.434 | 901 | 908 | 913 | rBV | 1828119 | 2526840 | 52.12% | 8.663% |
| 6 | 8.151 | 1024 | 1030 | 1042 | rBV | 821808 | 1103324 | 22.76% | 3.783% |
| 7 | 9.228 | 1206 | 1213 | 1218 | rBV | 3601518 | 4847864 | 100.00% | 16.621% |
| 8 | 9.910 | 1323 | 1329 | 1345 | rBV | 979715 | 1285453 | 26.52% | 4.407% |
| 9 | 10.704 | 1458 | 1464 | 1482 | rBV | 2112211 | 2891577 | 59.65% | 9.914% |
| 10 | 11.398 | 1577 | 1582 | 1600 | rVB | 1083165 | 1380754 | 28.48% | 4.734% |
| 11 | 12.986 | 1846 | 1852 | 1857 | rBV | 3627483 | 4808433 | 99.19% | 16.486% |
| 12 | 14.045 | 2027 | 2032 | 2044 | rBV | 737570 | 974949 | 20.11% | 3.343% |
| 13 | 15.545 | 2280 | 2287 | 2296 | rBV | 480622 | 789940 | 16.29% | 2.708% |
| 14 | 17.380 | 2590 | 2599 | 2614 | rVB3 | 41645 | 187647 | 3.87% | 0.643% |

Sum of corrected areas: 29166683

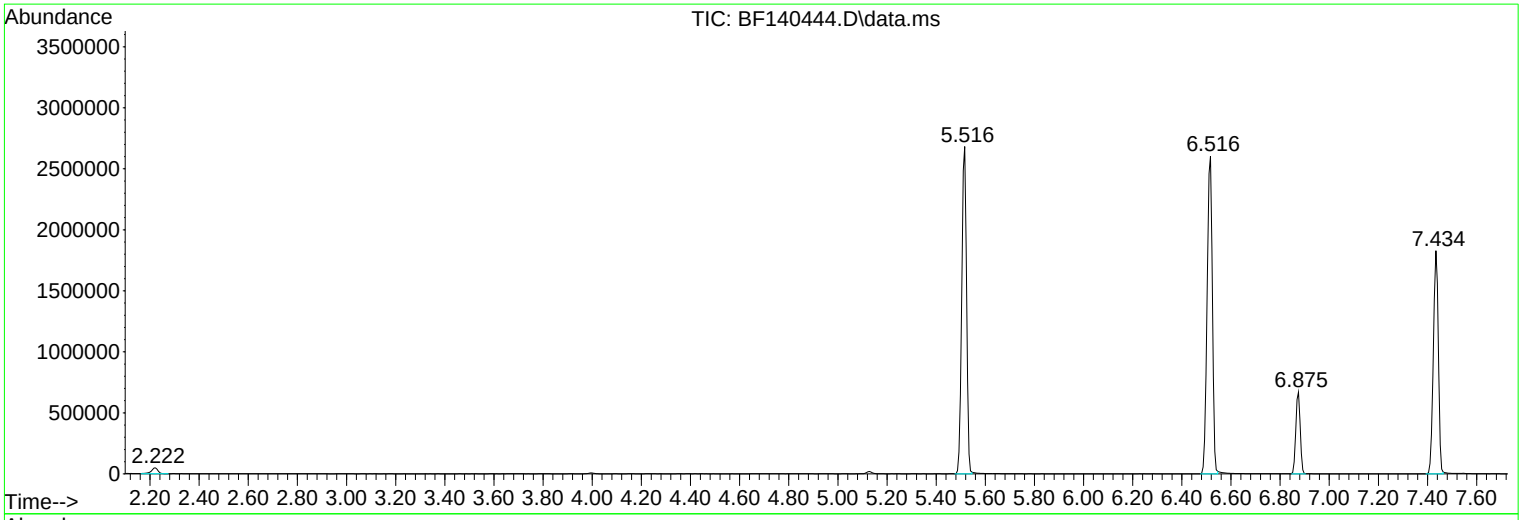
Sample Results: **BF140444.D**

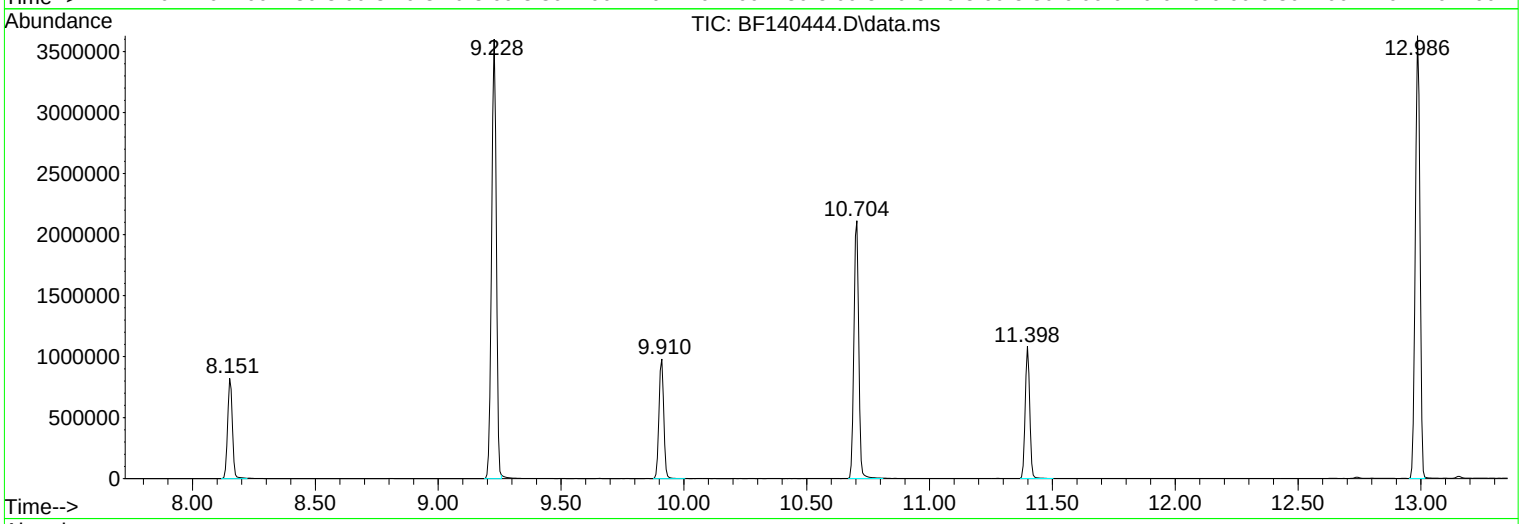
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140444.D
Acq On : 18 Nov 2024 10:39
Operator : RC/JU
Sample : PB165029BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

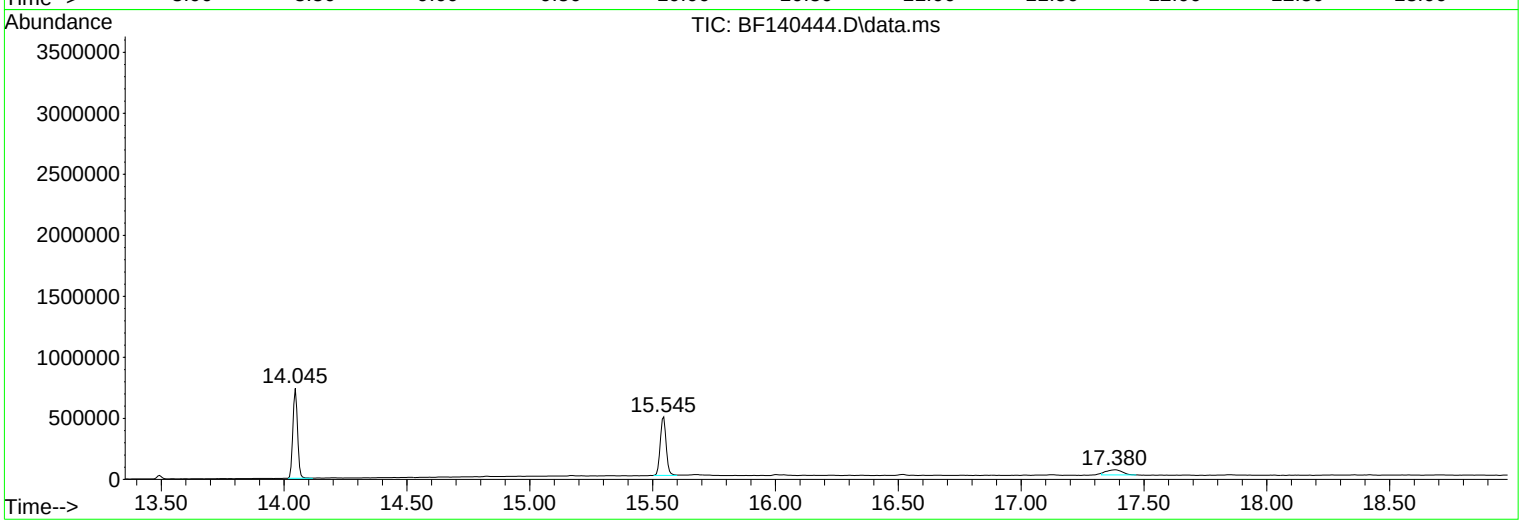
**Instrument :**
BNA_F
**ClientSampleId :**
PB165029BL

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\BF111824\
Data File : BF140444.D
Acq On : 18 Nov 2024 10:39
Operator : RC/JU
Sample : PB165029BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB165029BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

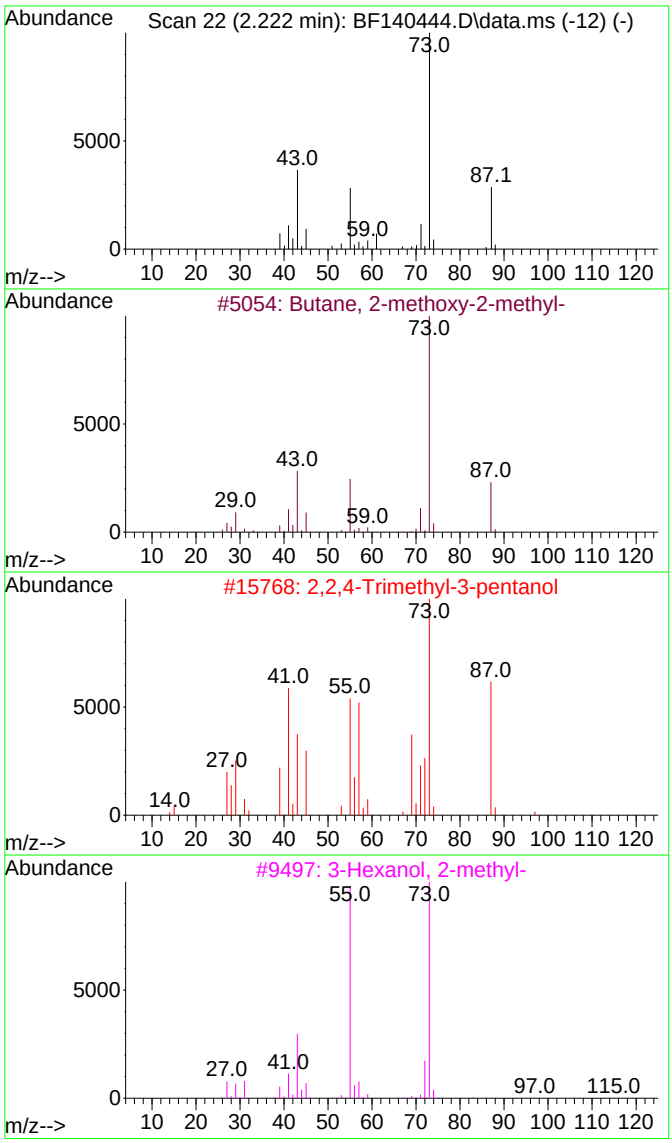
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

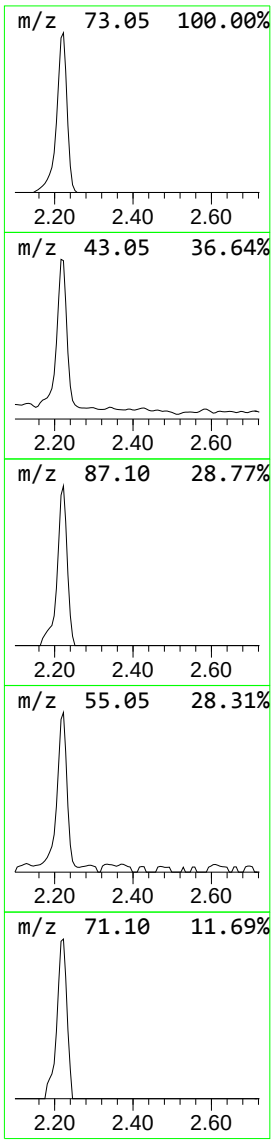
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.222 | 2.11 ng | 87895 | 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 | 3-Hexanol, 2-methyl- | 116 | C7H16O | 000617-29-8 | 23 |
| 4 | 1,3-Dioxolane, 2-propyl- | 116 | C6H12O2 | 003390-13-4 | 17 |
| 5 | Octanal, 7-methoxy-3,7-dimethyl- | 186 | C11H22O2 | 003613-30-7 | 17 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140444.D
Acq On : 18 Nov 2024 10:39
Operator : RC/JU
Sample : PB165029BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB165029BL

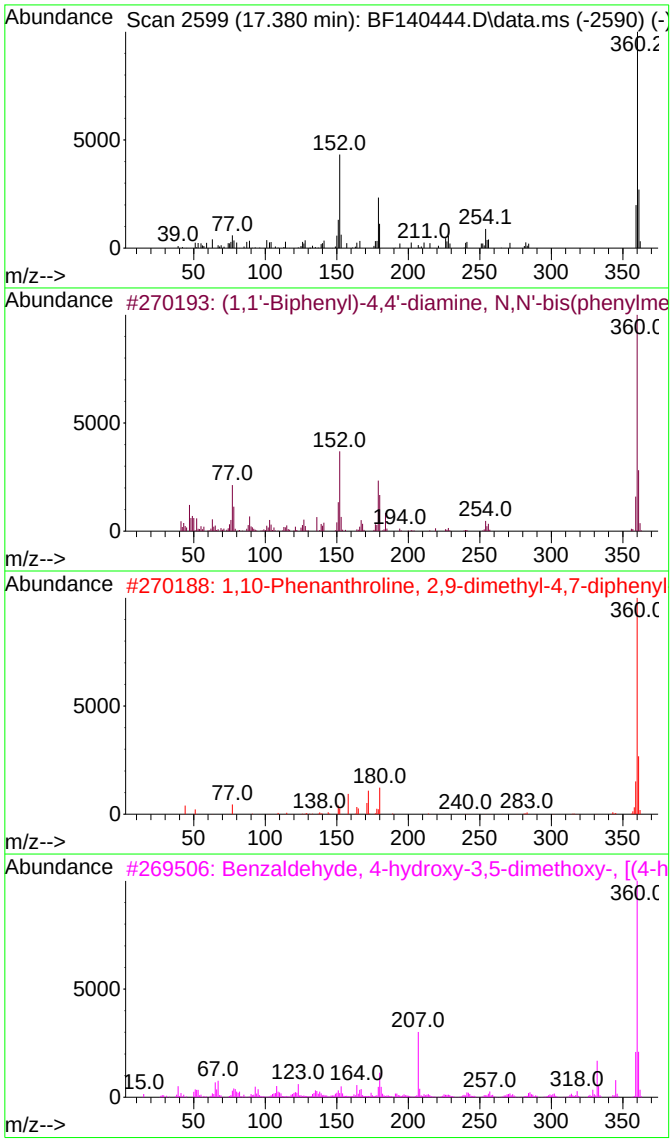
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

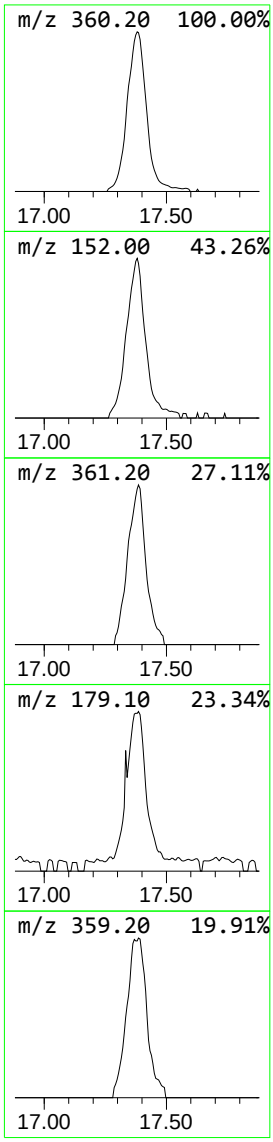
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 (1,1'-Biphenyl)-4,4'-diamin... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.380 | 4.75 ng | 187647 | Perylene-d12 | 15.545 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (1,1'-Biphenyl)-4,4'-diamine, N,... | 360 | C26H20N2 | 006311-48-4 | 94 |
| 2 | 1,10-Phenanthroline, 2,9-dimethy... | 360 | C26H20N2 | 004733-39-5 | 52 |
| 3 | Benzaldehyde, 4-hydroxy-3,5-dime... | 360 | C18H20N2O6 | 014414-32-5 | 52 |
| 4 | Androst-4-ene-3,17-dione, 12-hyd... | 360 | C21H32N2O3 | 069688-31-9 | 47 |
| 5 | N,N'-di-2-Naphthyl-p-phenylenedi... | 360 | C26H20N2 | 000093-46-9 | 43 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140444.D
Acq On : 18 Nov 2024 10:39
Operator : RC/JU
Sample : PB165029BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB165029BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane, 2-metho... | 2.222 | 2.1 | ng | 87895 | 1 | 6.875 | 833293 | 20.0 |
| (1,1'-Biphenyl)... | 17.380 | 4.8 | ng | 187647 | 6 | 15.545 | 789940 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140445.D
Acq On : 18 Nov 2024 11:05
Operator : RC/JU
Sample : PB165029BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 18 11:37:26 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 :**
PB165029BS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel

11/19/2024

Supervised By :mohammad ahmed

11/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.875 | 152 | 142797 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.157 | 136 | 543909 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.916 | 164 | 303339 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.404 | 188 | 568567 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.057 | 240 | 301677 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.551 | 264 | 262350 | 20.000 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.516 | 112 | 1000875 | 119.672 | ng | | 0.02 |
| 7) Phenol-d6 | 6.516 | 99 | 1300633 | 114.784 | ng | | 0.01 |
| 23) Nitrobenzene-d5 | 7.440 | 82 | 860722 | 82.451 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.710 | 330 | 384780 | 127.560 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.234 | 172 | 1602496 | 84.924 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.986 | 244 | 1712516 | 98.535 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.734 | 88 | 137852 | 36.982 | ng | | 98 |
| 3) Pyridine | 3.493 | 79 | 354693 | 38.705 | ng | | 99 |
| 4) n-Nitrosodimethylamine | 3.446 | 42 | 187846 | 40.558 | ng | | 99 |
| 6) Aniline | 6.540 | 93 | 374120 | 37.954 | ng | # | 50 |
| 8) 2-Chlorophenol | 6.663 | 128 | 405231 | 45.106 | ng | | 98 |
| 9) Benzaldehyde | 6.428 | 77 | 36468 | 5.370 | ng | | 96 |
| 10) Phenol | 6.534 | 94 | 499145 | 41.771 | ng | # | 73 |
| 11) bis(2-Chloroethyl)ether | 6.610 | 93 | 393787 | 43.492 | ng | | 100 |
| 12) 1,3-Dichlorobenzene | 6.816 | 146 | 413257 | 41.691 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.893 | 146 | 417677 | 41.556 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.045 | 146 | 398765 | 42.737 | ng | | 99 |
| 15) Benzyl Alcohol | 7.016 | 79 | 369056 | 45.207 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.145 | 45 | 529036 | 42.301 | ng | | 70 |
| 17) 2-Methylphenol | 7.134 | 107 | 318180 | 43.053 | ng | | 94 |
| 18) Hexachloroethane | 7.387 | 117 | 158881 | 42.759 | ng | | 98 |
| 19) n-Nitroso-di-n-propyla... | 7.287 | 70 | 287998 | 42.083 | ng | | 100 |
| 20) 3+4-Methylphenols | 7.287 | 107 | 400760 | 43.360 | ng | | 95 |
| 22) Acetophenone | 7.281 | 105 | 529582 | 41.863 | ng | | 99 |
| 24) Nitrobenzene | 7.457 | 77 | 445374 | 40.977 | ng | | 99 |
| 25) Isophorone | 7.692 | 82 | 804333 | 43.474 | ng | | 99 |
| 26) 2-Nitrophenol | 7.775 | 139 | 214074 | 44.384 | ng | | 98 |
| 27) 2,4-Dimethylphenol | 7.810 | 122 | 326761 | 52.918 | ng | | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.904 | 93 | 489908 | 43.184 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.016 | 162 | 341063 | 44.692 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.098 | 180 | 355715 | 41.867 | ng | | 98 |
| 31) Naphthalene | 8.181 | 128 | 1168469 | 42.349 | ng | | 100 |
| 32) Benzoic acid | 7.939 | 122 | 218773 | 40.264 | ng | | 95 |
| 33) 4-Chloroaniline | 8.228 | 127 | 234759 | 24.465 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.292 | 225 | 229108 | 42.323 | ng | | 99 |
| 35) Caprolactam | 8.598 | 113 | 107905m | 42.542 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.716 | 107 | 371125 | 43.883 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.869 | 142 | 765366 | 43.260 | ng | | 100 |
| 38) 1-Methylnaphthalene | 8.969 | 142 | 713542 | 41.186 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.034 | 216 | 360556 | 42.983 | ng | | 98 |
| 41) Hexachlorocyclopentadiene | 9.016 | 237 | 366390 | 170.119 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 9.151 | 196 | 243111 | 44.162 | ng | | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140445.D
Acq On : 18 Nov 2024 11:05
Operator : RC/JU
Sample : PB165029BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 18 11:37:26 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 :**
PB165029BS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel

11/19/2024

Supervised By :mohammad ahmed

11/19/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.198 | 196 | 254080 | 42.215 | ng | 98 |
| 46) 1,1'-Biphenyl | 9.334 | 154 | 953595 | 43.212 | ng | 99 |
| 47) 2-Chloronaphthalene | 9.357 | 162 | 709256 | 42.191 | ng | 99 |
| 48) 2-Nitroaniline | 9.457 | 65 | 246291 | 44.178 | ng | 98 |
| 49) Acenaphthylene | 9.775 | 152 | 1176469 | 46.256 | ng | 100 |
| 50) Dimethylphthalate | 9.633 | 163 | 883998 | 44.710 | ng | 99 |
| 51) 2,6-Dinitrotoluene | 9.698 | 165 | 189531 | 42.048 | ng | 100 |
| 52) Acenaphthene | 9.945 | 154 | 833212m | 48.503 | ng | |
| 53) 3-Nitroaniline | 9.869 | 138 | 130001 | 27.463 | ng | 98 |
| 54) 2,4-Dinitrophenol | 9.981 | 184 | 198188 | 85.263 | ng | 99 |
| 55) Dibenzofuran | 10.122 | 168 | 1070551 | 44.022 | ng | 100 |
| 56) 4-Nitrophenol | 10.045 | 139 | 280804 | 81.325 | ng | 98 |
| 57) 2,4-Dinitrotoluene | 10.104 | 165 | 263206 | 44.368 | ng | 100 |
| 58) Fluorene | 10.463 | 166 | 833821 | 43.403 | ng | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.239 | 232 | 218568 | 45.992 | ng | 98 |
| 60) Diethylphthalate | 10.333 | 149 | 885703 | 43.808 | ng | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.451 | 204 | 413629 | 43.611 | ng | 99 |
| 62) 4-Nitroaniline | 10.486 | 138 | 199894 | 41.299 | ng | 99 |
| 63) Azobenzene | 10.616 | 77 | 869372 | 43.520 | ng | 100 |
| 65) 4,6-Dinitro-2-methylph... | 10.516 | 198 | 139047 | 45.455 | ng | 98 |
| 66) n-Nitrosodiphenylamine | 10.575 | 169 | 730437 | 44.463 | ng | 99 |
| 67) 4-Bromophenyl-phenylether | 10.945 | 248 | 249652 | 43.926 | ng | 98 |
| 68) Hexachlorobenzene | 11.010 | 284 | 283562 | 44.343 | ng | 99 |
| 69) Atrazine | 11.104 | 200 | 246446 | 49.585 | ng | 99 |
| 70) Pentachlorophenol | 11.210 | 266 | 282690 | 82.067 | ng | 99 |
| 71) Phenanthrene | 11.428 | 178 | 1183501 | 44.311 | ng | 100 |
| 72) Anthracene | 11.480 | 178 | 1209578 | 46.209 | ng | 100 |
| 73) Carbazole | 11.633 | 167 | 1099728 | 42.548 | ng | 99 |
| 74) Di-n-butylphthalate | 11.957 | 149 | 1368135 | 44.103 | ng | 100 |
| 75) Fluoranthene | 12.616 | 202 | 1255837 | 41.910 | ng | 99 |
| 77) Benzidine | 12.739 | 184 | 313825 | 27.104 | ng | 100 |
| 78) Pyrene | 12.851 | 202 | 1260459 | 48.846 | ng | 100 |
| 80) Butylbenzylphthalate | 13.463 | 149 | 502582 | 50.700 | ng | 96 |
| 81) Benzo(a)anthracene | 14.045 | 228 | 930920 | 46.952 | ng | 100 |
| 82) 3,3'-Dichlorobenzidine | 14.004 | 252 | 177638 | 28.188 | ng | 100 |
| 83) Chrysene | 14.080 | 228 | 816823 | 45.152 | ng | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.021 | 149 | 654935 | 49.499 | ng | 99 |
| 85) Di-n-octyl phthalate | 14.657 | 149 | 849818 | 45.603 | ng | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 17.068 | 276 | 837971 | 51.707 | ng | 100 |
| 88) Benzo(b)fluoranthene | 15.116 | 252 | 744683 | 43.392 | ng | 99 |
| 89) Benzo(k)fluoranthene | 15.145 | 252 | 599133 | 42.735 | ng | 99 |
| 90) Benzo(a)pyrene | 15.492 | 252 | 643530 | 48.287 | ng | 99 |
| 91) Dibenzo(a,h)anthracene | 17.080 | 278 | 681008 | 50.837 | ng | 99 |
| 92) Benzo(g,h,i)perylene | 17.521 | 276 | 637219 | 46.529 | ng | 99 |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140445.D
Acq On : 18 Nov 2024 11:05
Operator : RC/JU
Sample : PB165029BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 18 11:37:26 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 :**
PB165029BS

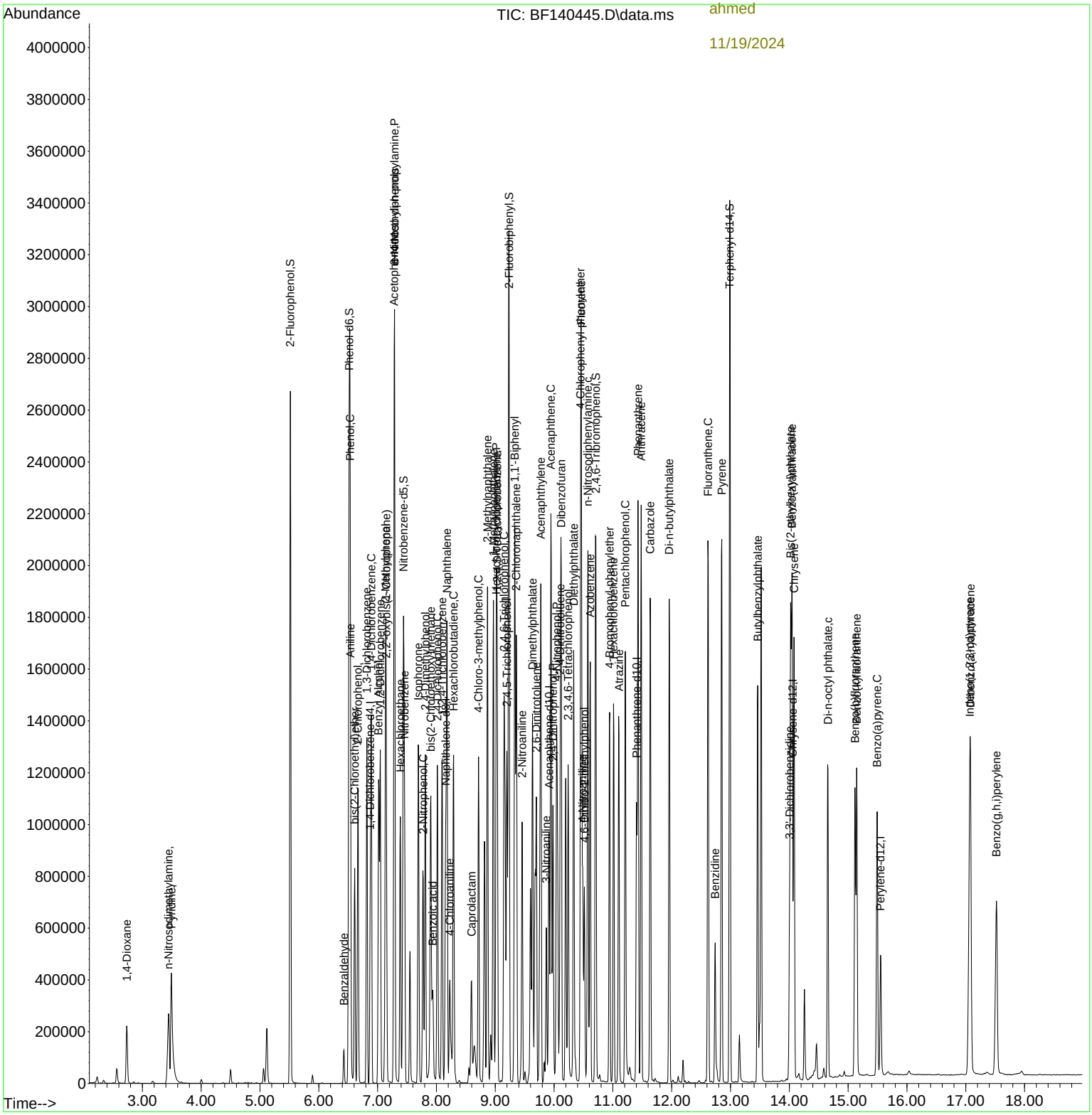
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel

11/19/2024

Supervised By :mohammad ahmed

11/19/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140639.D
Acq On : 26 Nov 2024 14:03
Operator : RC/JU
Sample : P4860-09MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 26 14:26:11 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 :**
PH2-BOT-006MS

**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 | 72875 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.151 | 136 | 271368 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.910 | 164 | 144034 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.398 | 188 | 272823 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.045 | 240 | 144480 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.539 | 264 | 156989 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.504 | 112 | 443633 | 103.867 | ng | 0.00 |
| 7) Phenol-d6 | 6.510 | 99 | 584236 | 103.467 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.434 | 82 | 377912 | 71.233 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.704 | 330 | 167747 | 108.895 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.228 | 172 | 710421 | 73.489 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.980 | 244 | 779258 | 83.984 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.657 | 88 | 79542 | 44.293 | ng | 98 |
| 3) Pyridine | 3.428 | 79 | 192802 | 48.796 | ng | 98 |
| 4) n-Nitrosodimethylamine | 3.375 | 42 | 107349 | 46.227 | ng | 97 |
| 6) Aniline | 6.534 | 93 | 146418 | 36.841 | ng | 92 |
| 8) 2-Chlorophenol | 6.657 | 128 | 223335 | 48.603 | ng | 97 |
| 9) Benzaldehyde | 6.422 | 77 | 18599 | 6.222 | ng | 99 |
| 10) Phenol | 6.522 | 94 | 278171 | 48.239 | ng | 92 |
| 11) bis(2-Chloroethyl)ether | 6.604 | 93 | 208272 | 47.198 | ng | 99 |
| 12) 1,3-Dichlorobenzene | 6.810 | 146 | 238881 | 46.265 | ng | 98 |
| 13) 1,4-Dichlorobenzene | 6.886 | 146 | 240428 | 45.988 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.039 | 146 | 227344 | 46.408 | ng | 100 |
| 15) Benzyl Alcohol | 7.016 | 79 | 202443 | 48.345 | ng | 98 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.139 | 45 | 256362 | 49.176 | ng | 98 |
| 17) 2-Methylphenol | 7.128 | 107 | 171173 | 46.535 | ng | 97 |
| 18) Hexachloroethane | 7.381 | 117 | 89375 | 45.772 | ng | 98 |
| 19) n-Nitroso-di-n-propyla... | 7.281 | 70 | 154926 | 46.425 | ng | 97 |
| 20) 3+4-Methylphenols | 7.281 | 107 | 220678 | 46.675 | ng | 96 |
| 22) Acetophenone | 7.281 | 105 | 301891 | 45.632 | ng | 98 |
| 24) Nitrobenzene | 7.451 | 77 | 241159 | 43.981 | ng | 99 |
| 25) Isophorone | 7.692 | 82 | 411193 | 46.469 | ng | 99 |
| 26) 2-Nitrophenol | 7.769 | 139 | 117437 | 48.330 | ng | 97 |
| 27) 2,4-Dimethylphenol | 7.804 | 122 | 162312m | 55.828 | ng | |
| 28) bis(2-Chloroethoxy)met... | 7.898 | 93 | 250883 | 46.540 | ng | 99 |
| 29) 2,4-Dichlorophenol | 8.016 | 162 | 182253 | 47.309 | ng | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.092 | 180 | 194646 | 44.252 | ng | 100 |
| 31) Naphthalene | 8.175 | 128 | 646180 | 46.229 | ng | 99 |
| 32) Benzoic acid | 7.933 | 122 | 101818 | 41.406 | ng | 96 |
| 33) 4-Chloroaniline | 8.228 | 127 | 83516 | 19.956 | ng | 99 |
| 34) Hexachlorobutadiene | 8.286 | 225 | 128456 | 44.091 | ng | 99 |
| 35) Caprolactam | 8.586 | 113 | 56877m | 47.707 | ng | |
| 36) 4-Chloro-3-methylphenol | 8.716 | 107 | 197751 | 45.847 | ng | 98 |
| 37) 2-Methylnaphthalene | 8.863 | 142 | 414518 | 46.690 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.963 | 142 | 381148 | 43.798 | ng | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.033 | 216 | 202324 | 47.983 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 9.016 | 237 | 135863 | 137.572 | ng | 99 |
| 43) 2,4,6-Trichlorophenol | 9.145 | 196 | 127748 | 48.282 | ng | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140639.D
Acq On : 26 Nov 2024 14:03
Operator : RC/JU
Sample : P4860-09MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 26 14:26:11 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 :**
PH2-BOT-006MS

**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 | 139416 | 48.551 | ng | 96 |
| 46) 1,1'-Biphenyl | 9.328 | 154 | 514692 | 47.862 | ng | 99 |
| 47) 2-Chloronaphthalene | 9.357 | 162 | 382485 | 46.940 | ng | 99 |
| 48) 2-Nitroaniline | 9.457 | 65 | 125839 | 48.114 | ng | 95 |
| 49) Acenaphthylene | 9.769 | 152 | 630563 | 51.217 | ng | 99 |
| 50) Dimethylphthalate | 9.627 | 163 | 454611 | 47.924 | ng | 100 |
| 51) 2,6-Dinitrotoluene | 9.692 | 165 | 99188 | 46.104 | ng | 97 |
| 52) Acenaphthene | 9.939 | 154 | 375033 | 47.942 | ng | 98 |
| 53) 3-Nitroaniline | 9.863 | 138 | 57822 | 27.480 | ng | 98 |
| 54) 2,4-Dinitrophenol | 9.980 | 184 | 98260 | 87.387 | ng | 95 |
| 55) Dibenzofuran | 10.116 | 168 | 572484 | 47.979 | ng | 100 |
| 56) 4-Nitrophenol | 10.039 | 139 | 152831 | 106.501 | ng | 94 |
| 57) 2,4-Dinitrotoluene | 10.104 | 165 | 135674 | 47.451 | ng | 97 |
| 58) Fluorene | 10.457 | 166 | 453902 | 47.392 | ng | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.239 | 232 | 112703 | 51.069 | ng | 94 |
| 60) Diethylphthalate | 10.327 | 149 | 451967 | 46.895 | ng | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.445 | 204 | 224254 | 47.711 | ng | 99 |
| 62) 4-Nitroaniline | 10.480 | 138 | 100696 | 45.629 | ng | 96 |
| 63) Azobenzene | 10.610 | 77 | 524784 | 57.497 | ng | 95 |
| 65) 4,6-Dinitro-2-methylph... | 10.516 | 198 | 71190 | 51.064 | ng | 95 |
| 66) n-Nitrosodiphenylamine | 10.569 | 169 | 387249 | 47.998 | ng | 100 |
| 67) 4-Bromophenyl-phenylether | 10.939 | 248 | 130003 | 46.270 | ng | 97 |
| 68) Hexachlorobenzene | 11.010 | 284 | 148605 | 45.678 | ng | 100 |
| 69) Atrazine | 11.098 | 200 | 129488 | 57.050 | ng | 98 |
| 70) Pentachlorophenol | 11.210 | 266 | 144797 | 101.125 | ng | 99 |
| 71) Phenanthrene | 11.421 | 178 | 647201 | 49.351 | ng | 100 |
| 72) Anthracene | 11.474 | 178 | 648791 | 50.575 | ng | 100 |
| 73) Carbazole | 11.633 | 167 | 614631 | 49.804 | ng | 100 |
| 74) Di-n-butylphthalate | 11.957 | 149 | 707026 | 49.624 | ng | 99 |
| 75) Fluoranthene | 12.616 | 202 | 684156 | 48.049 | ng | 99 |
| 77) Benzidine | 12.739 | 184 | 68757 | 16.368 | ng | 99 |
| 78) Pyrene | 12.845 | 202 | 686681 | 51.402 | ng | 99 |
| 80) Butylbenzylphthalate | 13.457 | 149 | 269712 | 56.045 | ng | 99 |
| 81) Benzo(a)anthracene | 14.033 | 228 | 484677 | 50.677 | ng | 100 |
| 82) 3,3'-Dichlorobenzidine | 13.998 | 252 | 93315 | 32.497 | ng | 99 |
| 83) Chrysene | 14.074 | 228 | 418366 | 47.839 | ng | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.015 | 149 | 354267 | 58.299 | ng | 99 |
| 85) Di-n-octyl phthalate | 14.633 | 149 | 475051 | 57.203 | ng | 97 |
| 87) Indeno(1,2,3-cd)pyrene | 17.051 | 276 | 469230 | 45.864 | ng | 98 |
| 88) Benzo(b)fluoranthene | 15.098 | 252 | 447398 | 45.372 | ng | 99 |
| 89) Benzo(k)fluoranthene | 15.133 | 252 | 401777 | 46.561 | ng | 99 |
| 90) Benzo(a)pyrene | 15.474 | 252 | 415830 | 51.865 | ng | 99 |
| 91) Dibenzo(a,h)anthracene | 17.056 | 278 | 391712 | 46.751 | ng | 99 |
| 92) Benzo(g,h,i)perylene | 17.503 | 276 | 334296 | 39.099 | ng | 98 |

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

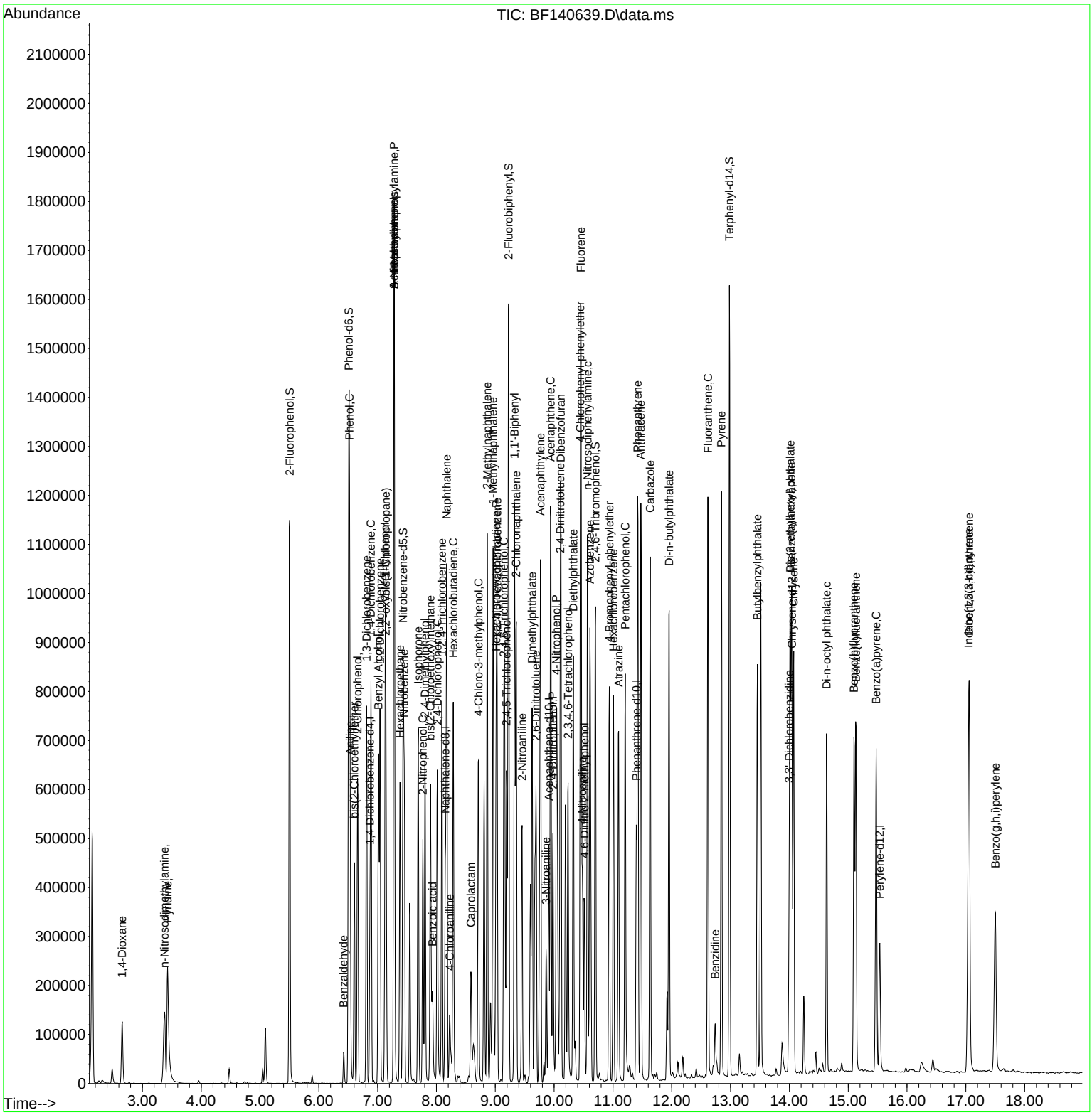
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140639.D
Acq On : 26 Nov 2024 14:03
Operator : RC/JU
Sample : P4860-09MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 26 14:26:11 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 :**
PH2-BOT-006MS

**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\BF112624\
Data File : BF140640.D
Acq On : 26 Nov 2024 14:29
Operator : RC/JU
Sample : P4860-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 26 15:01:37 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 :**
PH2-BOT-006MSD

**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 | 75738 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.151 | 136 | 275981 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.910 | 164 | 148258 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.398 | 188 | 278787 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.045 | 240 | 147921 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.539 | 264 | 159754 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.504 | 112 | 452634 | 101.968 | ng | 0.00 |
| 7) Phenol-d6 | 6.510 | 99 | 602017 | 102.586 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.434 | 82 | 387966 | 71.906 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.704 | 330 | 178860 | 112.801 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.228 | 172 | 731930 | 73.556 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.980 | 244 | 806951 | 84.946 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.669 | 88 | 83030 | 44.488 | ng | 98 |
| 3) Pyridine | 3.440 | 79 | 199530 | 48.590 | ng | 100 |
| 4) n-Nitrosodimethylamine | 3.393 | 42 | 110007 | 45.581 | ng | 94 |
| 6) Aniline | 6.534 | 93 | 152440 | 36.906 | ng | 89 |
| 8) 2-Chlorophenol | 6.657 | 128 | 228770 | 47.903 | ng | 97 |
| 9) Benzaldehyde | 6.422 | 77 | 19221 | 6.187 | ng | 97 |
| 10) Phenol | 6.522 | 94 | 288564 | 48.149 | ng | 93 |
| 11) bis(2-Chloroethyl)ether | 6.604 | 93 | 212654 | 46.369 | ng | 100 |
| 12) 1,3-Dichlorobenzene | 6.810 | 146 | 241782 | 45.057 | ng | 99 |
| 13) 1,4-Dichlorobenzene | 6.887 | 146 | 246206 | 45.313 | ng | 100 |
| 14) 1,2-Dichlorobenzene | 7.040 | 146 | 234514 | 46.062 | ng | 99 |
| 15) Benzyl Alcohol | 7.016 | 79 | 208144 | 47.827 | ng | 98 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.140 | 45 | 262237 | 48.401 | ng | 95 |
| 17) 2-Methylphenol | 7.128 | 107 | 174379 | 45.615 | ng | 98 |
| 18) Hexachloroethane | 7.381 | 117 | 90682 | 44.686 | ng | 99 |
| 19) n-Nitroso-di-n-propyla... | 7.281 | 70 | 159400 | 45.960 | ng | 97 |
| 20) 3+4-Methylphenols | 7.281 | 107 | 228040 | 46.409 | ng | 93 |
| 22) Acetophenone | 7.281 | 105 | 313349 | 46.572 | ng | 98 |
| 24) Nitrobenzene | 7.451 | 77 | 245197 | 43.970 | ng | 98 |
| 25) Isophorone | 7.692 | 82 | 424726 | 47.196 | ng | 100 |
| 26) 2-Nitrophenol | 7.769 | 139 | 121050 | 48.984 | ng | 98 |
| 27) 2,4-Dimethylphenol | 7.804 | 122 | 165488m | 55.969 | ng | |
| 28) bis(2-Chloroethoxy)met... | 7.898 | 93 | 257546 | 46.977 | ng | 99 |
| 29) 2,4-Dichlorophenol | 8.016 | 162 | 187124 | 47.761 | ng | 97 |
| 30) 1,2,4-Trichlorobenzene | 8.092 | 180 | 199338 | 44.561 | ng | 100 |
| 31) Naphthalene | 8.175 | 128 | 660640 | 46.473 | ng | 99 |
| 32) Benzoic acid | 7.934 | 122 | 108817 | 43.147 | ng | 97 |
| 33) 4-Chloroaniline | 8.228 | 127 | 85105 | 19.996 | ng | 99 |
| 34) Hexachlorobutadiene | 8.287 | 225 | 133144 | 44.936 | ng | 99 |
| 35) Caprolactam | 8.592 | 113 | 58695m | 48.409 | ng | |
| 36) 4-Chloro-3-methylphenol | 8.716 | 107 | 203995 | 46.504 | ng | 97 |
| 37) 2-Methylnaphthalene | 8.863 | 142 | 431078 | 47.743 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.963 | 142 | 399182 | 45.104 | ng | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.034 | 216 | 207346 | 47.773 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 9.016 | 237 | 139115 | 136.890 | ng | 98 |
| 43) 2,4,6-Trichlorophenol | 9.145 | 196 | 132214 | 48.546 | ng | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140640.D
Acq On : 26 Nov 2024 14:29
Operator : RC/JU
Sample : P4860-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 26 15:01:37 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 :**
PH2-BOT-006MSD

**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 | 139339 | 47.142 | ng | 97 |
| 46) 1,1'-Biphenyl | 9.328 | 154 | 533355 | 48.184 | ng | 99 |
| 47) 2-Chloronaphthalene | 9.357 | 162 | 394050 | 46.982 | ng | 98 |
| 48) 2-Nitroaniline | 9.457 | 65 | 129772 | 48.204 | ng | 95 |
| 49) Acenaphthylene | 9.769 | 152 | 644809 | 50.882 | ng | 100 |
| 50) Dimethylphthalate | 9.628 | 163 | 472955 | 48.438 | ng | 100 |
| 51) 2,6-Dinitrotoluene | 9.698 | 165 | 103339 | 46.665 | ng | 91 |
| 52) Acenaphthene | 9.945 | 154 | 387584 | 48.135 | ng | 99 |
| 53) 3-Nitroaniline | 9.869 | 138 | 61326 | 28.315 | ng | 95 |
| 54) 2,4-Dinitrophenol | 9.981 | 184 | 107464 | 92.361 | ng | 97 |
| 55) Dibenzofuran | 10.116 | 168 | 596542 | 48.570 | ng | 100 |
| 56) 4-Nitrophenol | 10.039 | 139 | 158749 | 107.473 | ng | 97 |
| 57) 2,4-Dinitrotoluene | 10.104 | 165 | 141491 | 48.076 | ng | 97 |
| 58) Fluorene | 10.457 | 166 | 470424 | 47.718 | ng | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.239 | 232 | 119700 | 52.694 | ng | 93 |
| 60) Diethylphthalate | 10.328 | 149 | 468228 | 47.198 | ng | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.445 | 204 | 230121 | 47.565 | ng | 100 |
| 62) 4-Nitroaniline | 10.486 | 138 | 105079 | 46.258 | ng | 94 |
| 63) Azobenzene | 10.610 | 77 | 540322 | 57.513 | ng | 95 |
| 65) 4,6-Dinitro-2-methylph... | 10.516 | 198 | 77032 | 54.072 | ng | 95 |
| 66) n-Nitrosodiphenylamine | 10.569 | 169 | 406074 | 49.254 | ng | 99 |
| 67) 4-Bromophenyl-phenylether | 10.939 | 248 | 137508 | 47.894 | ng | 96 |
| 68) Hexachlorobenzene | 11.010 | 284 | 154467 | 46.464 | ng | 99 |
| 69) Atrazine | 11.098 | 200 | 133071 | 57.375 | ng | 99 |
| 70) Pentachlorophenol | 11.210 | 266 | 152609 | 104.301 | ng | 100 |
| 71) Phenanthrene | 11.422 | 178 | 658804 | 49.161 | ng | 100 |
| 72) Anthracene | 11.475 | 178 | 676581 | 51.613 | ng | 100 |
| 73) Carbazole | 11.633 | 167 | 628221 | 49.817 | ng | 100 |
| 74) Di-n-butylphthalate | 11.951 | 149 | 727758 | 49.987 | ng | 100 |
| 75) Fluoranthene | 12.616 | 202 | 702180 | 48.260 | ng | 100 |
| 77) Benzidine | 12.739 | 184 | 75710 | 17.604 | ng | 99 |
| 78) Pyrene | 12.845 | 202 | 702243 | 51.344 | ng | 99 |
| 80) Butylbenzylphthalate | 13.457 | 149 | 280392 | 56.909 | ng | 99 |
| 81) Benzo(a)anthracene | 14.033 | 228 | 488588 | 49.898 | ng | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.998 | 252 | 99630 | 33.889 | ng | 99 |
| 83) Chrysene | 14.074 | 228 | 422655 | 47.206 | ng | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 14.010 | 149 | 361779 | 58.150 | ng | 99 |
| 85) Di-n-octyl phthalate | 14.633 | 149 | 477197 | 56.125 | ng | 98 |
| 87) Indeno(1,2,3-cd)pyrene | 17.051 | 276 | 472802 | 45.414 | ng | 98 |
| 88) Benzo(b)fluoranthene | 15.104 | 252 | 452991 | 45.144 | ng | 100 |
| 89) Benzo(k)fluoranthene | 15.133 | 252 | 424543 | 48.348 | ng | 99 |
| 90) Benzo(a)pyrene | 15.474 | 252 | 423518 | 51.910 | ng | 99 |
| 91) Dibenzo(a,h)anthracene | 17.062 | 278 | 393201 | 46.117 | ng | 100 |
| 92) Benzo(g,h,i)perylene | 17.504 | 276 | 330770 | 38.017 | ng | 98 |

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

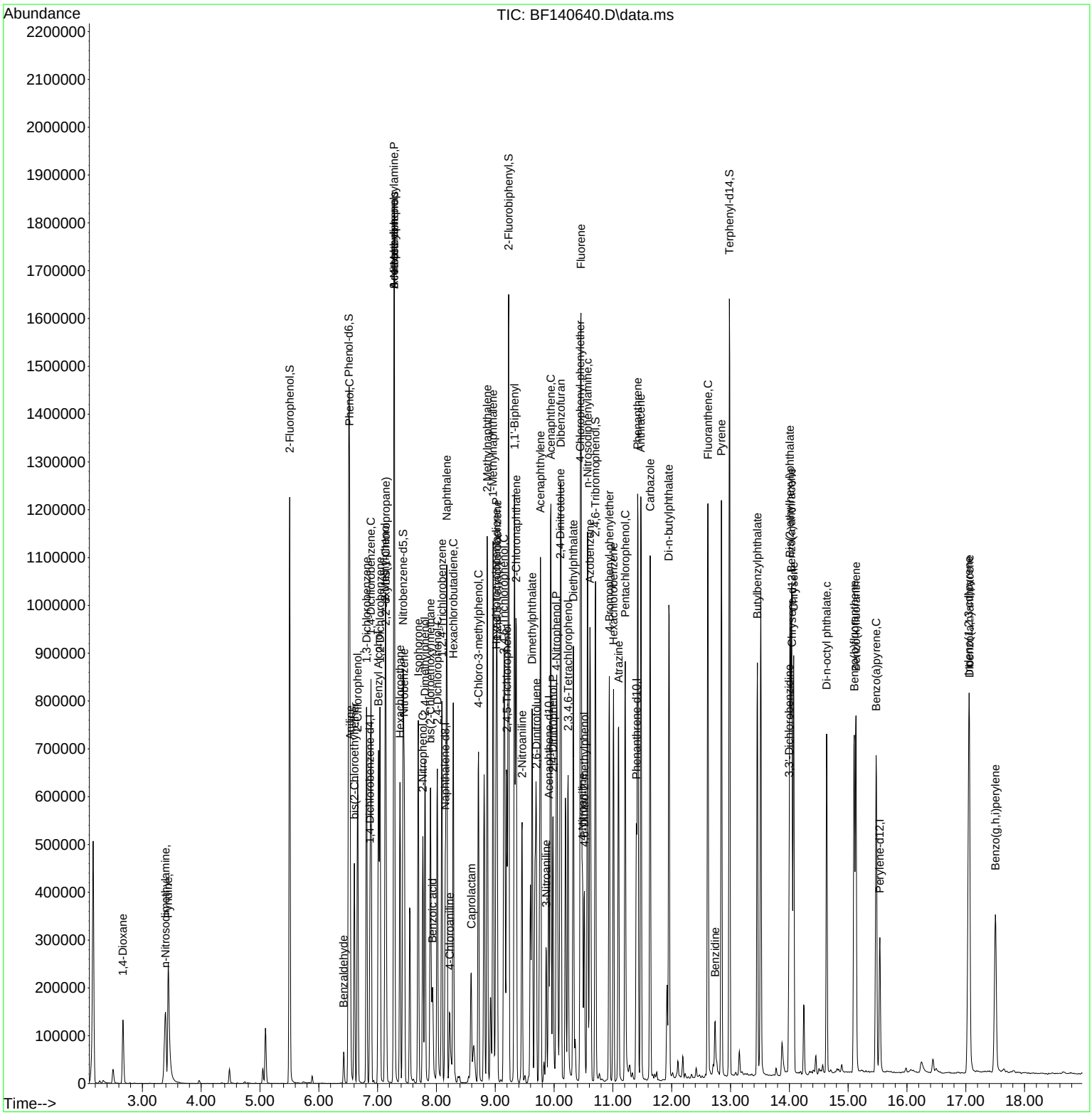
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140640.D
Acq On : 26 Nov 2024 14:29
Operator : RC/JU
Sample : P4860-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 26 15:01:37 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 :**
PH2-BOT-006MSD

**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: | BF111324 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICC005 | BF140333.D | Benzoic acid | yogesh | 11/14/2024 3:08:33 AM | mohammad | 11/15/2024 5:49:17 AM | Peak Integrated by Software |
| SSTDICC010 | BF140334.D | 2,3,4,6-Tetrachlorophenol | yogesh | 11/14/2024 3:08:38 AM | mohammad | 11/15/2024 5:49:17 AM | Peak Integrated by Software |
| SSTDICC010 | BF140334.D | Benzoic acid | yogesh | 11/14/2024 3:08:38 AM | mohammad | 11/15/2024 5:49:17 AM | Peak Integrated by Software |
| SSTDICC080 | BF140339.D | Caprolactam | yogesh | 11/14/2024 3:08:41 AM | mohammad | 11/15/2024 5:49:17 AM | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | bf111824 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC040 | BF140443.D | 2,4-Dimethylphenol | yogesh | 11/19/2024 3:20:35 AM | mohammad | 11/19/2024 3:30:54 AM | Peak Integrated by Software |
| PB165029BS | BF140445.D | Acenaphthene | yogesh | 11/19/2024 3:20:37 AM | mohammad | 11/19/2024 3:30:54 AM | Peak Integrated by Software |
| PB165029BS | BF140445.D | Caprolactam | yogesh | 11/19/2024 3:20:37 AM | mohammad | 11/19/2024 3:30:54 AM | Peak Integrated by Software |
| SSTDCCC040 | BF140456.D | 2,4-Dimethylphenol | yogesh | 11/19/2024 3:20:45 AM | mohammad | 11/19/2024 3:30:54 AM | Peak Integrated by Software |

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# 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: | BF112224 | Instrument | BNA_f |
|---|---|---|---|

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

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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 |
| 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

# Manual Integration Report

| Sequence: | BF112624 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC040 | BF140629.D | 2,4-Dimethylphenol | yogesh | 11/27/2024 5:32:34 AM | mohammad | 11/27/2024 6:05:09 AM | Peak Integrated by Software |
| P4860-09MS | BF140639.D | 2,4-Dimethylphenol | yogesh | 11/27/2024 5:32:45 AM | mohammad | 11/27/2024 6:05:09 AM | Peak Integrated by Software |
| P4860-09MS | BF140639.D | Caprolactam | yogesh | 11/27/2024 5:32:45 AM | mohammad | 11/27/2024 6:05:09 AM | Peak Integrated by Software |
| P4860-09MSD | BF140640.D | 2,4-Dimethylphenol | yogesh | 11/27/2024 5:32:47 AM | mohammad | 11/27/2024 6:05:09 AM | Peak Integrated by Software |
| P4860-09MSD | BF140640.D | Caprolactam | yogesh | 11/27/2024 5:32:47 AM | mohammad | 11/27/2024 6:05:09 AM | Peak Integrated by Software |

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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

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



**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF111824

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 3:20:55 AM | | |
| Supervise By | mohammad | Supervise On | 11/19/2024 3:30:54 AM | | |
| SubDirectory | BF111824 | HP Acquire Method | BNA_F | HP Processing Method | Bf111324 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12327,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF140442.D | 18 Nov 2024 09:18 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF140443.D | 18 Nov 2024 10:13 | RC/JU | Ok,M |
| 3 | PB165029BL | BF140444.D | 18 Nov 2024 10:39 | RC/JU | Ok |
| 4 | PB165029BS | BF140445.D | 18 Nov 2024 11:05 | RC/JU | Ok,M |
| 5 | PB164846BS | BF140446.D | 18 Nov 2024 11:32 | RC/JU | Ok,M |
| 6 | PB164846BSD | BF140447.D | 18 Nov 2024 11:58 | RC/JU | Ok,M |
| 7 | PB164940BL | BF140448.D | 18 Nov 2024 12:24 | RC/JU | Ok |
| 8 | PB164940BS | BF140449.D | 18 Nov 2024 12:50 | RC/JU | Ok,M |
| 9 | PB164965BL | BF140450.D | 18 Nov 2024 13:16 | RC/JU | Ok |
| 10 | PB164965BS | BF140451.D | 18 Nov 2024 13:43 | RC/JU | Ok,M |
| 11 | PB164969BS | BF140452.D | 18 Nov 2024 14:19 | RC/JU | Ok,M |
| 12 | PB164969BL | BF140453.D | 18 Nov 2024 14:45 | RC/JU | Ok |
| 13 | PB164880TB | BF140454.D | 18 Nov 2024 15:11 | RC/JU | Ok |
| 14 | DFTPP | BF140455.D | 18 Nov 2024 15:48 | RC/JU | Ok |
| 15 | SSTDCCC040 | BF140456.D | 18 Nov 2024 16:14 | RC/JU | Ok,M |
| 16 | PB164944TB | BF140457.D | 18 Nov 2024 16:40 | RC/JU | Ok |
| 17 | P4821-04RE | BF140458.D | 18 Nov 2024 17:13 | RC/JU | Confirms |
| 18 | P4861-01 | BF140459.D | 18 Nov 2024 17:40 | RC/JU | Ok |
| 19 | P4871-01 | BF140460.D | 18 Nov 2024 18:06 | RC/JU | Ok |
| 20 | P4848-02 | BF140461.D | 18 Nov 2024 18:32 | RC/JU | Ok |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # 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 |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF112224

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 11/25/2024 11:47:00 AM | | | | |
| Supervise By | mohammad | Supervise On | 11/27/2024 6:04:05 AM | | | | |
| SubDirectory | BF112224 | 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 | BF140563.D | 22 Nov 2024 08:54 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF140564.D | 22 Nov 2024 09:20 | RC/JU | Ok |
| 3 | PB165129BL | BF140565.D | 22 Nov 2024 09:46 | RC/JU | Ok |
| 4 | PB165129BS | BF140566.D | 22 Nov 2024 10:12 | RC/JU | Ok,M |
| 5 | P4910-08 | BF140567.D | 22 Nov 2024 10:44 | RC/JU | Ok |
| 6 | P4910-04 | BF140568.D | 22 Nov 2024 11:10 | RC/JU | Ok |
| 7 | P4893-08 | BF140569.D | 22 Nov 2024 11:36 | RC/JU | Ok |
| 8 | P4893-04 | BF140570.D | 22 Nov 2024 12:02 | RC/JU | Ok |
| 9 | P4925-08 | BF140571.D | 22 Nov 2024 12:28 | RC/JU | Ok |
| 10 | P4925-04 | BF140572.D | 22 Nov 2024 12:55 | RC/JU | Ok |
| 11 | P4923-06 | BF140573.D | 22 Nov 2024 13:21 | RC/JU | Ok |
| 12 | P4925-01 | BF140574.D | 22 Nov 2024 13:47 | RC/JU | Ok |
| 13 | P4938-01 | BF140575.D | 22 Nov 2024 14:13 | RC/JU | Ok |
| 14 | P4938-01MS | BF140576.D | 22 Nov 2024 14:40 | RC/JU | Ok,M |
| 15 | P4938-01MSD | BF140577.D | 22 Nov 2024 15:06 | RC/JU | Ok,M |
| 16 | P4860-08 | BF140578.D | 22 Nov 2024 15:32 | RC/JU | Ok |
| 17 | P4860-05 | BF140579.D | 22 Nov 2024 15:58 | RC/JU | Ok |
| 18 | P4924-01 | BF140580.D | 22 Nov 2024 16:24 | RC/JU | Ok |
| 19 | P4948-01 | BF140581.D | 22 Nov 2024 16:50 | RC/JU | Ok,M |
| 20 | P4949-03 | BF140582.D | 22 Nov 2024 17:16 | RC/JU | Ok |
| 21 | P4948-03 | BF140583.D | 22 Nov 2024 17:43 | RC/JU | Ok,M |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF112224

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 11/25/2024 11:47:00 AM | | | | |
| Supervise By | mohammad | Supervise On | 11/27/2024 6:04:05 AM | | | | |
| SubDirectory | BF112224 | 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 | P4822-04 | BF140584.D | 22 Nov 2024 18:09 | RC/JU | Ok |
| 23 | P4822-02 | BF140585.D | 22 Nov 2024 18:35 | RC/JU | Ok,M |
| 24 | P4925-05 | BF140586.D | 22 Nov 2024 19:01 | RC/JU | Ok |
| 25 | P4938-05 | BF140587.D | 22 Nov 2024 19:27 | RC/JU | Ok |
| 26 | P4860-02 | BF140588.D | 22 Nov 2024 19:53 | 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 | |

| 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 |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF112624

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/27/2024 5:33:18 AM | | | | |
| Supervise By | mohammad | Supervise On | 11/27/2024 6:05:09 AM | | | | |
| SubDirectory | BF112624 | 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 | BF140628.D | 26 Nov 2024 09:09 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF140629.D | 26 Nov 2024 09:35 | RC/JU | Ok,M |
| 3 | PB165203BL | BF140630.D | 26 Nov 2024 10:01 | RC/JU | Ok |
| 4 | PB165203BS | BF140631.D | 26 Nov 2024 10:27 | RC/JU | Ok,M |
| 5 | PB165185BL | BF140632.D | 26 Nov 2024 10:53 | RC/JU | Ok |
| 6 | PB165203BSD | BF140633.D | 26 Nov 2024 11:20 | RC/JU | Ok,M |
| 7 | P4960-04 | BF140634.D | 26 Nov 2024 11:52 | RC/JU | Ok |
| 8 | P4960-06 | BF140635.D | 26 Nov 2024 12:18 | RC/JU | Ok |
| 9 | P4960-02 | BF140636.D | 26 Nov 2024 12:44 | RC/JU | Ok |
| 10 | P5000-01 | BF140637.D | 26 Nov 2024 13:10 | RC/JU | Ok |
| 11 | P4960-03 | BF140638.D | 26 Nov 2024 13:36 | RC/JU | Ok |
| 12 | P4860-09MS | BF140639.D | 26 Nov 2024 14:03 | RC/JU | Ok,M |
| 13 | P4860-09MSD | BF140640.D | 26 Nov 2024 14:29 | RC/JU | Ok,M |
| 14 | P4860-10 | BF140641.D | 26 Nov 2024 14:55 | RC/JU | Ok |
| 15 | P4951-01RE | BF140642.D | 26 Nov 2024 15:22 | RC/JU | Confirms |
| 16 | P4985-01 | BF140643.D | 26 Nov 2024 15:48 | RC/JU | Ok |
| 17 | P4985-01MS | BF140644.D | 26 Nov 2024 16:14 | RC/JU | Ok,M |
| 18 | P4985-01MSD | BF140645.D | 26 Nov 2024 16:41 | RC/JU | Ok,M |
| 19 | P4938-04 | BF140646.D | 26 Nov 2024 17:07 | RC/JU | ReRun |
| 20 | P4938-04MS | BF140647.D | 26 Nov 2024 17:33 | RC/JU | Not Ok |
| 21 | P4938-04MSD | BF140648.D | 26 Nov 2024 18:00 | RC/JU | Not Ok |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF112624

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/27/2024 5:33:18 AM | | | | |
| Supervise By | mohammad | Supervise On | 11/27/2024 6:05:09 AM | | | | |
| SubDirectory | BF112624 | 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 | P4985-04 | BF140649.D | 26 Nov 2024 18:26 | RC/JU | ReRun |
| 23 | P4938-08 | BF140650.D | 26 Nov 2024 18:52 | RC/JU | ReRun |
| 24 | P4985-05 | BF140651.D | 26 Nov 2024 19:19 | RC/JU | ReRun |
| 25 | P5000-05 | BF140652.D | 26 Nov 2024 19:45 | RC/JU | ReRun |
| 26 | P4971-01 | BF140653.D | 26 Nov 2024 20:11 | RC/JU | Ok,M |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF111324

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/14/2024 3:08:53 AM | | |
| Supervise By | mohammad | Supervise On | 11/15/2024 5:49:17 AM | | |
| SubDirectory | BF111324 | HP Acquire Method | BNA_F | HP Processing Method | Bf111324 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12327,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | 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 |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF111824

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 3:20:55 AM | | |
| Supervise By | mohammad | Supervise On | 11/19/2024 3:30:54 AM | | |
| SubDirectory | BF111824 | HP Acquire Method | BNA_F | HP Processing Method | Bf111324 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12327,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BF140442.D | 18 Nov 2024 09:18 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF140443.D | 18 Nov 2024 10:13 | | RC/JU | Ok,M |
| 3 | PB165029BL | PB165029BL | BF140444.D | 18 Nov 2024 10:39 | | RC/JU | Ok |
| 4 | PB165029BS | PB165029BS | BF140445.D | 18 Nov 2024 11:05 | | RC/JU | Ok,M |
| 5 | PB164846BS | PB164846BS | BF140446.D | 18 Nov 2024 11:32 | | RC/JU | Ok,M |
| 6 | PB164846BSD | PB164846BSD | BF140447.D | 18 Nov 2024 11:58 | | RC/JU | Ok,M |
| 7 | PB164940BL | PB164940BL | BF140448.D | 18 Nov 2024 12:24 | | RC/JU | Ok |
| 8 | PB164940BS | PB164940BS | BF140449.D | 18 Nov 2024 12:50 | | RC/JU | Ok,M |
| 9 | PB164965BL | PB164965BL | BF140450.D | 18 Nov 2024 13:16 | | RC/JU | Ok |
| 10 | PB164965BS | PB164965BS | BF140451.D | 18 Nov 2024 13:43 | | RC/JU | Ok,M |
| 11 | PB164969BS | PB164969BS | BF140452.D | 18 Nov 2024 14:19 | | RC/JU | Ok,M |
| 12 | PB164969BL | PB164969BL | BF140453.D | 18 Nov 2024 14:45 | | RC/JU | Ok |
| 13 | PB164880TB | PB164880TB | BF140454.D | 18 Nov 2024 15:11 | | RC/JU | Ok |
| 14 | DFTPP | DFTPP | BF140455.D | 18 Nov 2024 15:48 | | RC/JU | Ok |
| 15 | SSTDCCC040 | SSTDCCC040 | BF140456.D | 18 Nov 2024 16:14 | | RC/JU | Ok,M |
| 16 | PB164944TB | PB164944TB | BF140457.D | 18 Nov 2024 16:40 | | RC/JU | Ok |
| 17 | P4821-04RE | BP-F-24RE | BF140458.D | 18 Nov 2024 17:13 | Surrogate Fail | RC/JU | Confirms |
| 18 | P4861-01 | WC-11-A-202411 | BF140459.D | 18 Nov 2024 17:40 | | RC/JU | Ok |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF111824

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 3:20:55 AM | | |
| Supervise By | mohammad | Supervise On | 11/19/2024 3:30:54 AM | | |
| SubDirectory | BF111824 | HP Acquire Method | BNA_F | HP Processing Method | Bf111324 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621 |
| CCC | SP6624 |
| Internal Standard/PEM | S12327,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4871-01 | WC-10-A-202411 | BF140460.D | 18 Nov 2024 18:06 | | RC/JU | Ok |
| 20 | P4848-02 | TP-1 | BF140461.D | 18 Nov 2024 18:32 | | RC/JU | Ok |

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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 |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF112224

| | | | | | |
|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 11/25/2024 11:47:00 AM | | |
| Supervise By | mohammad | Supervise On | 11/27/2024 6:04:05 AM | | |
| SubDirectory | BF112224 | 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 | BF140563.D | 22 Nov 2024 08:54 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF140564.D | 22 Nov 2024 09:20 | | RC/JU | Ok |
| 3 | PB165129BL | PB165129BL | BF140565.D | 22 Nov 2024 09:46 | | RC/JU | Ok |
| 4 | PB165129BS | PB165129BS | BF140566.D | 22 Nov 2024 10:12 | | RC/JU | Ok,M |
| 5 | P4910-08 | MH-759 | BF140567.D | 22 Nov 2024 10:44 | | RC/JU | Ok |
| 6 | P4910-04 | MH-COTTAGE | BF140568.D | 22 Nov 2024 11:10 | | RC/JU | Ok |
| 7 | P4893-08 | MH-762 | BF140569.D | 22 Nov 2024 11:36 | | RC/JU | Ok |
| 8 | P4893-04 | MH-763 | BF140570.D | 22 Nov 2024 12:02 | | RC/JU | Ok |
| 9 | P4925-08 | MH-741 | BF140571.D | 22 Nov 2024 12:28 | | RC/JU | Ok |
| 10 | P4925-04 | MH-741 | BF140572.D | 22 Nov 2024 12:55 | | RC/JU | Ok |
| 11 | P4923-06 | 72-11991 | BF140573.D | 22 Nov 2024 13:21 | | RC/JU | Ok |
| 12 | P4925-01 | MH-741 | BF140574.D | 22 Nov 2024 13:47 | | RC/JU | Ok |
| 13 | P4938-01 | MH-732 | BF140575.D | 22 Nov 2024 14:13 | | RC/JU | Ok |
| 14 | P4938-01MS | MH-732MS | BF140576.D | 22 Nov 2024 14:40 | | RC/JU | Ok,M |
| 15 | P4938-01MSD | MH-732MSD | BF140577.D | 22 Nov 2024 15:06 | | RC/JU | Ok,M |
| 16 | P4860-08 | PH2-BOT-007 | BF140578.D | 22 Nov 2024 15:32 | | RC/JU | Ok |
| 17 | P4860-05 | PH2-BOT-004 | BF140579.D | 22 Nov 2024 15:58 | | RC/JU | Ok |
| 18 | P4924-01 | MH-4 | BF140580.D | 22 Nov 2024 16:24 | | RC/JU | Ok |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF112224

| | | | | | |
|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 11/25/2024 11:47:00 AM | | |
| Supervise By | mohammad | Supervise On | 11/27/2024 6:04:05 AM | | |
| SubDirectory | BF112224 | 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 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4948-01 | 337 | BF140581.D | 22 Nov 2024 16:50 | | RC/JU | Ok,M |
| 20 | P4949-03 | CONTAINMENT-STON | BF140582.D | 22 Nov 2024 17:16 | Internal Standard Fail | RC/JU | Ok |
| 21 | P4948-03 | 72-11944 | BF140583.D | 22 Nov 2024 17:43 | Internal Standard Fail | RC/JU | Ok,M |
| 22 | P4822-04 | SOIL-2 | BF140584.D | 22 Nov 2024 18:09 | | RC/JU | Ok |
| 23 | P4822-02 | SOIL-1 | BF140585.D | 22 Nov 2024 18:35 | | RC/JU | Ok,M |
| 24 | P4925-05 | MH-758 | BF140586.D | 22 Nov 2024 19:01 | | RC/JU | Ok |
| 25 | P4938-05 | MH-734 | BF140587.D | 22 Nov 2024 19:27 | | RC/JU | Ok |
| 26 | P4860-02 | PH2-BOT-001 | BF140588.D | 22 Nov 2024 19:53 | | 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 | |

| 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 # BF112624

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/27/2024 5:33:18 AM | | |
| Supervise By | mohammad | Supervise On | 11/27/2024 6:05:09 AM | | |
| SubDirectory | BF112624 | 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 | BF140628.D | 26 Nov 2024 09:09 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF140629.D | 26 Nov 2024 09:35 | | RC/JU | Ok,M |
| 3 | PB165203BL | PB165203BL | BF140630.D | 26 Nov 2024 10:01 | | RC/JU | Ok |
| 4 | PB165203BS | PB165203BS | BF140631.D | 26 Nov 2024 10:27 | | RC/JU | Ok,M |
| 5 | PB165185BL | PB165185BL | BF140632.D | 26 Nov 2024 10:53 | | RC/JU | Ok |
| 6 | PB165203BSD | PB165203BSD | BF140633.D | 26 Nov 2024 11:20 | | RC/JU | Ok,M |
| 7 | P4960-04 | SW2 | BF140634.D | 26 Nov 2024 11:52 | | RC/JU | Ok |
| 8 | P4960-06 | SW4 | BF140635.D | 26 Nov 2024 12:18 | | RC/JU | Ok |
| 9 | P4960-02 | B2 | BF140636.D | 26 Nov 2024 12:44 | | RC/JU | Ok |
| 10 | P5000-01 | MH-745 | BF140637.D | 26 Nov 2024 13:10 | | RC/JU | Ok |
| 11 | P4960-03 | SW1 | BF140638.D | 26 Nov 2024 13:36 | | RC/JU | Ok |
| 12 | P4860-09MS | PH2-BOT-006MS | BF140639.D | 26 Nov 2024 14:03 | | RC/JU | Ok,M |
| 13 | P4860-09MSD | PH2-BOT-006MSD | BF140640.D | 26 Nov 2024 14:29 | | RC/JU | Ok,M |
| 14 | P4860-10 | PH2-BOT-005 | BF140641.D | 26 Nov 2024 14:55 | | RC/JU | Ok |
| 15 | P4951-01RE | AU-05-112124RE | BF140642.D | 26 Nov 2024 15:22 | Internal Standard Fail | RC/JU | Confirms |
| 16 | P4985-01 | MH-756-WC | BF140643.D | 26 Nov 2024 15:48 | Internal Standard Fail | RC/JU | Ok |
| 17 | P4985-01MS | MH-756-WCMS | BF140644.D | 26 Nov 2024 16:14 | Internal Standard Fail | RC/JU | Ok,M |
| 18 | P4985-01MSD | MH-756-WCMSD | BF140645.D | 26 Nov 2024 16:41 | Internal standard fail | RC/JU | Ok,M |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF112624

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/27/2024 5:33:18 AM | | |
| Supervise By | mohammad | Supervise On | 11/27/2024 6:05:09 AM | | |
| SubDirectory | BF112624 | 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 | P4938-04 | MH-732 | BF140646.D | 26 Nov 2024 17:07 | Internal Standard Fail | RC/JU | ReRun |
| 20 | P4938-04MS | MH-732MS | BF140647.D | 26 Nov 2024 17:33 | Internal Standard Fail | RC/JU | Not Ok |
| 21 | P4938-04MSD | MH-732MSD | BF140648.D | 26 Nov 2024 18:00 | MS is Not Ok | RC/JU | Not Ok |
| 22 | P4985-04 | MH-756-WC | BF140649.D | 26 Nov 2024 18:26 | Internal Standard Fail | RC/JU | ReRun |
| 23 | P4938-08 | MH-734 | BF140650.D | 26 Nov 2024 18:52 | Internal Standard Fail | RC/JU | ReRun |
| 24 | P4985-05 | MH-740-WC | BF140651.D | 26 Nov 2024 19:19 | Internal Standard Fail | RC/JU | ReRun |
| 25 | P5000-05 | MH-733 | BF140652.D | 26 Nov 2024 19:45 | Internal Standard Fail | RC/JU | ReRun |
| 26 | P4971-01 | CL-02-112224 | BF140653.D | 26 Nov 2024 20:11 | | RC/JU | Ok,M |

M : Manual Integration

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**EXTRACTION LOGPAGE**

PB165029

**SOP ID:** M3541-ASE Extraction-14

**Clean Up SOP #:** N/A

**Matrix :** Solid

**Weigh By:** EH

**Balance check:** RJ

**Balance ID:** EX-SC-2

**pH Strip Lot#:** N/A

**Extraction By:** RJ

**Filter By:** RJ

**pH Meter ID:** N/A

**Hood ID:** 3,7

**Extraction Start Date :** 11/16/2024

**Extraction Start Time :** 08:51

**Extraction End Date :** 11/16/2024

**Extraction End Time :** 11:50

**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 | 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 | E3828 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| 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

**KD Bath Temperature:** N/A

**Envap ID:** NEVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/16/24 | RP (Ext Lab) | JG/SVOC |
| 11:55 | Preparation Group | Analysis Group |

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**EXTRACTION LOGPAGE**

**PrepBatch ID : PB165029**

**Analytical Method:** M3541-ASE Extraction-14

**Concentration Date:** 11/16/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB165029BL | SBLK029 | SVOC-TCL BNA -20 | 30.01 | N/A | ritesh | Evelyn | 1 | | | U5-1 |
| PB165029BS | SLCS029 | SVOC-TCL BNA -20 | 30.03 | N/A | ritesh | Evelyn | 1 | | | 2 |
| P4860-01 | DUP-01 | SVOC-TCL BNA -20 | 30.09 | N/A | ritesh | Evelyn | 1 | E | | 3 |
| P4860-02 | PH2-BPT-001 | SVOC-TCL BNA -20 | 30.02 | N/A | ritesh | Evelyn | 1 | E | | 4 |
| P4860-03 | PH2-BPT-002 | SVOC-TCL BNA -20 | 30.05 | N/A | ritesh | Evelyn | 1 | E | | 5 |
| P4860-04 | PH2-BPT-003 | SVOC-TCL BNA -20 | 30.03 | N/A | ritesh | Evelyn | 1 | E | | 6 |
| P4860-05 | PH2-BPT-004 | SVOC-TCL BNA -20 | 30.08 | N/A | ritesh | Evelyn | 1 | E | | U6-1 |
| P4860-06 | PH2-BPT-009 | SVOC-TCL BNA -20 | 30.06 | N/A | ritesh | Evelyn | 1 | E | | 2 |
| P4860-07 | PH2-BPT-008 | SVOC-TCL BNA -20 | 30.04 | N/A | ritesh | Evelyn | 1 | E | | 3 |
| P4860-08 | PH2-BPT-007 | SVOC-TCL BNA -20 | 30.05 | N/A | ritesh | Evelyn | 1 | E | | 4 |
| P4860-09 | PH2-BPT-006 | SVOC-TCL BNA -20 | 30.09 | N/A | ritesh | Evelyn | 1 | E | | 5 |
| P4860-09MS | PH2-BPT-006MS | SVOC-TCL BNA -20 | 30.07 | N/A | ritesh | Evelyn | 1 | E | | 6 |
| P4860-09MSD | PH2-BPT-006MSD | SVOC-TCL BNA -20 | 30.04 | N/A | ritesh | Evelyn | 1 | E | | U1-1 |
| P4860-10 | PH2-BPT-005 | SVOC-TCL BNA -20 | 30.03 | N/A | ritesh | Evelyn | 1 | E | | 2 |
| P4869-01 | EO-02-11152024 | SVOC-TCL BNA -20 | 50.08 | N/A | ritesh | Evelyn | 1 | E | | 3 |
| P4887-01 | MH-739 | SVOC-TCL BNA -20 | 50.06 | N/A | ritesh | Evelyn | 1 | D | | 4 |
| P4887-05 | MH-760 | SVOC-TCL BNA -20 | 50.05 | N/A | ritesh | Evelyn | 1 | D | | 5 |
| P4889-01 | VNJ-228 | SVOC-TCL BNA -20 | 50.02 | N/A | ritesh | Evelyn | 1 | E | | 6 |
| P4889-03 | #72-11978 | SVOC-TCL BNA -20 | 50.04 | N/A | ritesh | Evelyn | 1 | E | | U1-1 |
| P4889-05 | #72-11930 | SVOC-TCL BNA -20 | 50.07 | N/A | ritesh | Evelyn | 1 | E | | 2 |

* **Extracts relinquished on the same date as received.**

11/16/24

16502 15:20BN

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** P4829BN **WorkList ID :** 185494 **Department :** Extraction **Date :** 11-15-2024 14:36:10

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4829-02 | E29S4 | Water | SVOC-SFAM | Cool 4 deg C | USEP04 | A11 | 11/12/2024 | SFAM_SVOC |
| P4829-02 | E29S4 | Water | SVOCMS Group2 | Cool 4 deg C | USEP04 | A11 | 11/12/2024 | SFAM_SVOAS |
| P4829-03 | E29S4MS | Water | SVOC-SFAM | Cool 4 deg C | USEP04 | A11 | 11/12/2024 | SFAM_SVOC |
| P4829-03 | E29S4MS | Water | SVOCMS Group2 | Cool 4 deg C | USEP04 | A11 | 11/12/2024 | SFAM_SVOAS |
| P4829-04 | E29S4MSD | Water | SVOC-SFAM | Cool 4 deg C | USEP04 | A11 | 11/12/2024 | SFAM_SVOC |
| P4829-04 | E29S4MSD | Water | SVOCMS Group2 | Cool 4 deg C | USEP04 | A11 | 11/12/2024 | SFAM_SVOAS |
| P4829-06 | E29T4 | Water | SVOC-SFAM | Cool 4 deg C | USEP04 | A11 | 11/11/2024 | SFAM_SVOC |
| P4829-06 | E29T4 | Water | SVOCMS Group2 | Cool 4 deg C | USEP04 | A11 | 11/11/2024 | SFAM_SVOAS |
| P4829-08 | E29W0 | Water | SVOC-SFAM | Cool 4 deg C | USEP04 | A11 | 11/11/2024 | SFAM_SVOC |
| P4829-08 | E29W0 | Water | SVOCMS Group2 | Cool 4 deg C | USEP04 | A11 | 11/11/2024 | SFAM_SVOAS |
| P4829-09 | E29W1 | Water | SVOC-SFAM | Cool 4 deg C | USEP04 | A11 | 11/12/2024 | SFAM_SVOC |
| P4829-09 | E29W1 | Water | SVOCMS Group2 | Cool 4 deg C | USEP04 | A11 | 11/12/2024 | SFAM_SVOAS |
| P4829-10 | E29W4 | Water | SVOC-SFAM | Cool 4 deg C | USEP04 | A11 | 11/11/2024 | SFAM_SVOC |
| P4829-10 | E29W4 | Water | SVOCMS Group2 | Cool 4 deg C | USEP04 | A11 | 11/11/2024 | SFAM_SVOAS |
| P4829-11 | E29W5 | Water | SVOC-SFAM | Cool 4 deg C | USEP04 | A11 | 11/12/2024 | SFAM_SVOC |
| P4829-11 | E29W5 | Water | SVOCMS Group2 | Cool 4 deg C | USEP04 | A11 | 11/12/2024 | SFAM_SVOAS |

**Date/Time** 11/15/24 15:15
**Raw Sample Received by:** RS (EXL-lab)
**Raw Sample Relinquished by:** L.C (SM)

**Date/Time** 11/15/24 15:50
**Raw Sample Received by:** L.C (SM)
**Raw Sample Relinquished by:** RS (EXL-lab)

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4860 | **OrderDate:** | 11/14/2024 1:36:41 PM |
| **Client:** | Tetra Tech | **Project:** | Ocean County Landfill 2024 |
| **Contact:** | John Giuliano | **Location:** | L41 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4860-01** | **DUP-01** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/16/24 | 11/25/24 | |
| **P4860-02** | **PH2-BOT-001** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/16/24 | 11/22/24 | |
| **P4860-03** | **PH2-BOT-002** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/16/24 | 11/25/24 | |
| **P4860-04** | **PH2-BOT-003** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/16/24 | 11/25/24 | |
| **P4860-05** | **PH2-BOT-004** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/16/24 | 11/22/24 | |
| **P4860-06** | **PH2-BOT-009** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/16/24 | 11/25/24 | |
| **P4860-07** | **PH2-BOT-008** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/16/24 | 11/25/24 | |
| **P4860-08** | **PH2-BOT-007** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/16/24 | 11/22/24 | |
| **P4860-09** | **PH2-BOT-006** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/16/24 | 11/25/24 | |
| **P4860-10** | **PH2-BOT-005** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/16/24 | 11/26/24 | |

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Fax : 908 789 8922

# Hit Summary Sheet
**SW-846**

**SDG No.:** P4860 **Order ID:** P4860

**Client:** Tetra Tech **Project ID:** Ocean County Landfill 2024

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : DUP-01** | | | | | | | | |
| P4860-01 | DUP-01 | SOIL | 4,4-DDE | 0.31 | JP | 0.13 | 1.80 | ug/kg |
| P4860-01 | DUP-01 | SOIL | 4,4-DDD | 0.26 | JP | 0.20 | 1.80 | ug/kg |
| P4860-01 | DUP-01 | SOIL | alpha-Chlordane | 0.29 | J | 0.18 | 1.80 | ug/kg |
| P4860-01 | DUP-01 | SOIL | gamma-Chlordane | 0.37 | JP | 0.20 | 1.80 | ug/kg |
| | | | **Total Concentration:** | **1.230** | | | | |
| **Client ID : PH2-BOT-001** | | | | | | | | |
| P4860-02 | PH2-BOT-001 | SOIL | Dieldrin | 0.34 | J | 0.15 | 1.80 | ug/kg |
| P4860-02 | PH2-BOT-001 | SOIL | 4,4-DDE | 0.62 | J | 0.13 | 1.80 | ug/kg |
| P4860-02 | PH2-BOT-001 | SOIL | 4,4-DDD | 1.30 | JP | 0.20 | 1.80 | ug/kg |
| P4860-02 | PH2-BOT-001 | SOIL | 4,4-DDT | 2.10 | P | 0.18 | 1.80 | ug/kg |
| P4860-02 | PH2-BOT-001 | SOIL | alpha-Chlordane | 2.60 | P | 0.18 | 1.80 | ug/kg |
| P4860-02 | PH2-BOT-001 | SOIL | gamma-Chlordane | 6.50 | P | 0.20 | 1.80 | ug/kg |
| | | | **Total Concentration:** | **13.460** | | | | |
| **Client ID : PH2-BOT-002** | | | | | | | | |
| P4860-03 | PH2-BOT-002 | SOIL | 4,4-DDE | 1.00 | JP | 0.13 | 1.80 | ug/kg |
| P4860-03 | PH2-BOT-002 | SOIL | 4,4-DDD | 1.20 | J | 0.20 | 1.80 | ug/kg |
| P4860-03 | PH2-BOT-002 | SOIL | 4,4-DDT | 2.40 | P | 0.18 | 1.80 | ug/kg |
| | | | **Total Concentration:** | **4.600** | | | | |
| **Client ID : PH2-BOT-003** | | | | | | | | |
| P4860-04 | PH2-BOT-003 | SOIL | 4,4-DDD | 0.53 | JP | 0.19 | 1.70 | ug/kg |
| P4860-04 | PH2-BOT-003 | SOIL | 4,4-DDT | 0.34 | J | 0.17 | 1.70 | ug/kg |
| P4860-04 | PH2-BOT-003 | SOIL | alpha-Chlordane | 1.50 | J | 0.17 | 1.70 | ug/kg |
| P4860-04 | PH2-BOT-003 | SOIL | gamma-Chlordane | 1.20 | JP | 0.19 | 1.70 | ug/kg |
| | | | **Total Concentration:** | **3.570** | | | | |
| **Client ID : PH2-BOT-004** | | | | | | | | |
| P4860-05 | PH2-BOT-004 | SOIL | 4,4-DDE | 0.17 | J | 0.13 | 1.70 | ug/kg |
| P4860-05 | PH2-BOT-004 | SOIL | 4,4-DDD | 0.97 | J | 0.19 | 1.70 | ug/kg |
| P4860-05 | PH2-BOT-004 | SOIL | 4,4-DDT | 2.20 | | 0.17 | 1.70 | ug/kg |
| P4860-05 | PH2-BOT-004 | SOIL | alpha-Chlordane | 0.65 | JP | 0.17 | 1.70 | ug/kg |
| P4860-05 | PH2-BOT-004 | SOIL | gamma-Chlordane | 0.42 | J | 0.19 | 1.70 | ug/kg |
| | | | **Total Concentration:** | **4.410** | | | | |
| **Client ID : PH2-BOT-008** | | | | | | | | |
| P4860-07 | PH2-BOT-008 | SOIL | 4,4-DDD | 2.10 | P | 0.20 | 1.80 | ug/kg |
| P4860-07 | PH2-BOT-008 | SOIL | 4,4-DDT | 0.87 | JP | 0.18 | 1.80 | ug/kg |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4860 **Order ID:** P4860

**Client:** Tetra Tech **Project ID:** Ocean County Landfill 2024

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| P4860-07 | PH2-BOT-008 | SOIL | alpha-Chlordane | 1.40 | JP | 0.18 | 1.80 | ug/kg |
| P4860-07 | PH2-BOT-008 | SOIL | gamma-Chlordane | 1.30 | JP | 0.20 | 1.80 | ug/kg |
| | | | **Total Concentration:** | **5.670** | | | | |
| **Client ID :** | **PH2-BOT-007** | | | | | | | |
| P4860-08 | PH2-BOT-007 | SOIL | 4,4-DDE | 0.48 | J | 0.13 | 1.70 | ug/kg |
| P4860-08 | PH2-BOT-007 | SOIL | 4,4-DDD | 1.00 | J | 0.19 | 1.70 | ug/kg |
| P4860-08 | PH2-BOT-007 | SOIL | 4,4-DDT | 1.70 | P | 0.17 | 1.70 | ug/kg |
| | | | **Total Concentration:** | **3.180** | | | | |

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 96.8 Decanted: |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093141.D | 1 | 11/18/24 08:20 | 11/19/24 14:18 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.19 | U | 0.19 | 1.80 | ug/kg |
| 319-85-7 | beta-BHC | 0.51 | U | 0.51 | 1.80 | ug/kg |
| 319-86-8 | delta-BHC | 0.48 | U | 0.48 | 1.80 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.20 | U | 0.20 | 1.80 | ug/kg |
| 76-44-8 | Heptachlor | 0.18 | U | 0.18 | 1.80 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 1.80 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.24 | U | 0.24 | 1.80 | ug/kg |
| 959-98-8 | Endosulfan I | 0.18 | U | 0.18 | 1.80 | ug/kg |
| 60-57-1 | Dieldrin | 0.15 | U | 0.15 | 1.80 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.31 | JP | 0.13 | 1.80 | ug/kg |
| 72-20-8 | Endrin | 0.17 | U | 0.17 | 1.80 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.31 | U | 0.31 | 1.80 | ug/kg |
| 72-54-8 | 4,4-DDD | 0.26 | JP | 0.20 | 1.80 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.13 | U | 0.13 | 1.80 | ug/kg |
| 50-29-3 | 4,4-DDT | 0.18 | U | 0.18 | 1.80 | ug/kg |
| 72-43-5 | Methoxychlor | 0.39 | U | 0.39 | 1.80 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.23 | U | 0.23 | 1.80 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.40 | U | 0.40 | 1.80 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.29 | J | 0.18 | 1.80 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.37 | JP | 0.20 | 1.80 | ug/kg |
| 8001-35-2 | Toxaphene | 5.40 | U | 5.40 | 34.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.5 | | 30 (10) - 150 (148) | 97% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.6 | | 30 (10) - 150 (159) | 103% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 96.8 Decanted: |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093141.D | 1 | 11/18/24 08:20 | 11/19/24 14:18 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 96.8 Decanted: |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093142.D | 1 | 11/18/24 08:20 | 11/19/24 14:31 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.19 | U | 0.19 | 1.80 | ug/kg |
| 319-85-7 | beta-BHC | 0.51 | U | 0.51 | 1.80 | ug/kg |
| 319-86-8 | delta-BHC | 0.48 | U | 0.48 | 1.80 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.20 | U | 0.20 | 1.80 | ug/kg |
| 76-44-8 | Heptachlor | 0.18 | U | 0.18 | 1.80 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 1.80 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.24 | U | 0.24 | 1.80 | ug/kg |
| 959-98-8 | Endosulfan I | 0.18 | U | 0.18 | 1.80 | ug/kg |
| 60-57-1 | Dieldrin | 0.34 | J | 0.15 | 1.80 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.62 | J | 0.13 | 1.80 | ug/kg |
| 72-20-8 | Endrin | 0.17 | U | 0.17 | 1.80 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.31 | U | 0.31 | 1.80 | ug/kg |
| 72-54-8 | 4,4-DDD | 1.30 | JP | 0.20 | 1.80 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.13 | U | 0.13 | 1.80 | ug/kg |
| 50-29-3 | 4,4-DDT | 2.10 | P | 0.18 | 1.80 | ug/kg |
| 72-43-5 | Methoxychlor | 0.39 | U | 0.39 | 1.80 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.23 | U | 0.23 | 1.80 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.40 | U | 0.40 | 1.80 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 2.60 | P | 0.18 | 1.80 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 6.50 | P | 0.20 | 1.80 | ug/kg |
| 8001-35-2 | Toxaphene | 5.40 | U | 5.40 | 34.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.5 | | 30 (10) - 150 (148) | 98% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.9 | | 30 (10) - 150 (159) | 99% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 96.8 Decanted: |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093142.D | 1 | 11/18/24 08:20 | 11/19/24 14:31 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 96.6 Decanted: |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093107.D | 1 | 11/18/24 08:20 | 11/18/24 12:26 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.19 | U | 0.19 | 1.80 | ug/kg |
| 319-85-7 | beta-BHC | 0.51 | U | 0.51 | 1.80 | ug/kg |
| 319-86-8 | delta-BHC | 0.49 | U | 0.49 | 1.80 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.20 | U | 0.20 | 1.80 | ug/kg |
| 76-44-8 | Heptachlor | 0.18 | U | 0.18 | 1.80 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 1.80 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.24 | U | 0.24 | 1.80 | ug/kg |
| 959-98-8 | Endosulfan I | 0.18 | U | 0.18 | 1.80 | ug/kg |
| 60-57-1 | Dieldrin | 0.15 | U | 0.15 | 1.80 | ug/kg |
| 72-55-9 | 4,4-DDE | 1.00 | JP | 0.13 | 1.80 | ug/kg |
| 72-20-8 | Endrin | 0.17 | U | 0.17 | 1.80 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.31 | U | 0.31 | 1.80 | ug/kg |
| 72-54-8 | 4,4-DDD | 1.20 | J | 0.20 | 1.80 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.13 | U | 0.13 | 1.80 | ug/kg |
| 50-29-3 | 4,4-DDT | 2.40 | P | 0.18 | 1.80 | ug/kg |
| 72-43-5 | Methoxychlor | 0.39 | U | 0.39 | 1.80 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.23 | U | 0.23 | 1.80 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.40 | U | 0.40 | 1.80 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.18 | U | 0.18 | 1.80 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.20 | U | 0.20 | 1.80 | ug/kg |
| 8001-35-2 | Toxaphene | 5.40 | U | 5.40 | 34.1 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 20.2 | | 30 (10) - 150 (148) | 101% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 24.7 | | 30 (10) - 150 (159) | 124% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 96.6 Decanted: |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093107.D | 1 | 11/18/24 08:20 | 11/18/24 12:26 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 97.8 Decanted: |
| Sample Wt/Vol: | 30.1 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093108.D | 1 | 11/18/24 08:20 | 11/18/24 12:39 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.18 | U | 0.18 | 1.70 | ug/kg |
| 319-85-7 | beta-BHC | 0.50 | U | 0.50 | 1.70 | ug/kg |
| 319-86-8 | delta-BHC | 0.48 | U | 0.48 | 1.70 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 76-44-8 | Heptachlor | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 1.70 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.23 | U | 0.23 | 1.70 | ug/kg |
| 959-98-8 | Endosulfan I | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 60-57-1 | Dieldrin | 0.15 | U | 0.15 | 1.70 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.13 | U | 0.13 | 1.70 | ug/kg |
| 72-20-8 | Endrin | 0.16 | U | 0.16 | 1.70 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.31 | U | 0.31 | 1.70 | ug/kg |
| 72-54-8 | 4,4-DDD | 0.53 | JP | 0.19 | 1.70 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.13 | U | 0.13 | 1.70 | ug/kg |
| 50-29-3 | 4,4-DDT | 0.34 | J | 0.17 | 1.70 | ug/kg |
| 72-43-5 | Methoxychlor | 0.39 | U | 0.39 | 1.70 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.22 | U | 0.22 | 1.70 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.40 | U | 0.40 | 1.70 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 1.50 | J | 0.17 | 1.70 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 1.20 | JP | 0.19 | 1.70 | ug/kg |
| 8001-35-2 | Toxaphene | 5.30 | U | 5.30 | 33.6 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 23.8 | | 30 (10) - 150 (148) | 119% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 24.5 | | 30 (10) - 150 (159) | 122% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 97.8 Decanted: |
| Sample Wt/Vol: | 30.1 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093108.D | 1 | 11/18/24 08:20 | 11/18/24 12:39 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 98.1 Decanted: |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093109.D | 1 | 11/18/24 08:20 | 11/18/24 12:52 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.18 | U | 0.18 | 1.70 | ug/kg |
| 319-85-7 | beta-BHC | 0.50 | U | 0.50 | 1.70 | ug/kg |
| 319-86-8 | delta-BHC | 0.48 | U | 0.48 | 1.70 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 76-44-8 | Heptachlor | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 1.70 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.23 | U | 0.23 | 1.70 | ug/kg |
| 959-98-8 | Endosulfan I | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 60-57-1 | Dieldrin | 0.15 | U | 0.15 | 1.70 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.17 | J | 0.13 | 1.70 | ug/kg |
| 72-20-8 | Endrin | 0.16 | U | 0.16 | 1.70 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.31 | U | 0.31 | 1.70 | ug/kg |
| 72-54-8 | 4,4-DDD | 0.97 | J | 0.19 | 1.70 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.13 | U | 0.13 | 1.70 | ug/kg |
| 50-29-3 | 4,4-DDT | 2.20 | | 0.17 | 1.70 | ug/kg |
| 72-43-5 | Methoxychlor | 0.39 | U | 0.39 | 1.70 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.22 | U | 0.22 | 1.70 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.40 | U | 0.40 | 1.70 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.65 | JP | 0.17 | 1.70 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.42 | J | 0.19 | 1.70 | ug/kg |
| 8001-35-2 | Toxaphene | 5.30 | U | 5.30 | 33.6 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 21.8 | | 30 (10) - 150 (148) | 109% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 23.4 | | 30 (10) - 150 (159) | 117% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 98.1 Decanted: |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093109.D | 1 | 11/18/24 08:20 | 11/18/24 12:52 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 98.3 Decanted: |
| Sample Wt/Vol: | 30.07 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093113.D | 1 | 11/18/24 08:20 | 11/18/24 13:45 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.18 | U | 0.18 | 1.70 | ug/kg |
| 319-85-7 | beta-BHC | 0.50 | U | 0.50 | 1.70 | ug/kg |
| 319-86-8 | delta-BHC | 0.48 | U | 0.48 | 1.70 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 76-44-8 | Heptachlor | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 1.70 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.23 | U | 0.23 | 1.70 | ug/kg |
| 959-98-8 | Endosulfan I | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 60-57-1 | Dieldrin | 0.15 | U | 0.15 | 1.70 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.13 | U | 0.13 | 1.70 | ug/kg |
| 72-20-8 | Endrin | 0.16 | U | 0.16 | 1.70 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.30 | U | 0.30 | 1.70 | ug/kg |
| 72-54-8 | 4,4-DDD | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.13 | U | 0.13 | 1.70 | ug/kg |
| 50-29-3 | 4,4-DDT | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 72-43-5 | Methoxychlor | 0.39 | U | 0.39 | 1.70 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.22 | U | 0.22 | 1.70 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.40 | U | 0.40 | 1.70 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 8001-35-2 | Toxaphene | 5.30 | U | 5.30 | 33.5 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 21.9 | | 30 (10) - 150 (148) | 110% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 23.2 | | 30 (10) - 150 (159) | 116% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 98.3 Decanted: |
| Sample Wt/Vol: | 30.07 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093113.D | 1 | 11/18/24 08:20 | 11/18/24 13:45 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 96.8 Decanted: |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093145.D | 1 | 11/18/24 08:20 | 11/19/24 15:11 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.19 | U | 0.19 | 1.80 | ug/kg |
| 319-85-7 | beta-BHC | 0.51 | U | 0.51 | 1.80 | ug/kg |
| 319-86-8 | delta-BHC | 0.48 | U | 0.48 | 1.80 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.20 | U | 0.20 | 1.80 | ug/kg |
| 76-44-8 | Heptachlor | 0.18 | U | 0.18 | 1.80 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 1.80 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.24 | U | 0.24 | 1.80 | ug/kg |
| 959-98-8 | Endosulfan I | 0.18 | U | 0.18 | 1.80 | ug/kg |
| 60-57-1 | Dieldrin | 0.15 | U | 0.15 | 1.80 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.13 | U | 0.13 | 1.80 | ug/kg |
| 72-20-8 | Endrin | 0.17 | U | 0.17 | 1.80 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.31 | U | 0.31 | 1.80 | ug/kg |
| 72-54-8 | 4,4-DDD | 2.10 | P | 0.20 | 1.80 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.13 | U | 0.13 | 1.80 | ug/kg |
| 50-29-3 | 4,4-DDT | 0.87 | JP | 0.18 | 1.80 | ug/kg |
| 72-43-5 | Methoxychlor | 0.39 | U | 0.39 | 1.80 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.23 | U | 0.23 | 1.80 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.40 | U | 0.40 | 1.80 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 1.40 | JP | 0.18 | 1.80 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 1.30 | JP | 0.20 | 1.80 | ug/kg |
| 8001-35-2 | Toxaphene | 5.40 | U | 5.40 | 34.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.4 | | 30 (10) - 150 (148) | 97% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.7 | | 30 (10) - 150 (159) | 104% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 96.8 Decanted: |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093145.D | 1 | 11/18/24 08:20 | 11/19/24 15:11 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 98 Decanted: |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093146.D | 1 | 11/18/24 08:20 | 11/19/24 15:24 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.18 | U | 0.18 | 1.70 | ug/kg |
| 319-85-7 | beta-BHC | 0.50 | U | 0.50 | 1.70 | ug/kg |
| 319-86-8 | delta-BHC | 0.48 | U | 0.48 | 1.70 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 76-44-8 | Heptachlor | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 1.70 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.23 | U | 0.23 | 1.70 | ug/kg |
| 959-98-8 | Endosulfan I | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 60-57-1 | Dieldrin | 0.15 | U | 0.15 | 1.70 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.48 | J | 0.13 | 1.70 | ug/kg |
| 72-20-8 | Endrin | 0.16 | U | 0.16 | 1.70 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.31 | U | 0.31 | 1.70 | ug/kg |
| 72-54-8 | 4,4-DDD | 1.00 | J | 0.19 | 1.70 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.13 | U | 0.13 | 1.70 | ug/kg |
| 50-29-3 | 4,4-DDT | 1.70 | P | 0.17 | 1.70 | ug/kg |
| 72-43-5 | Methoxychlor | 0.39 | U | 0.39 | 1.70 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.22 | U | 0.22 | 1.70 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.40 | U | 0.40 | 1.70 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 8001-35-2 | Toxaphene | 5.30 | U | 5.30 | 33.7 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 17.3 | | 30 (10) - 150 (148) | 87% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 16.9 | | 30 (10) - 150 (159) | 85% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 98 Decanted: |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093146.D | 1 | 11/18/24 08:20 | 11/19/24 15:24 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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
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() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 97.5 Decanted: |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093143.D | 1 | 11/18/24 08:20 | 11/19/24 14:44 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.18 | U | 0.18 | 1.70 | ug/kg |
| 319-85-7 | beta-BHC | 0.50 | U | 0.50 | 1.70 | ug/kg |
| 319-86-8 | delta-BHC | 0.48 | U | 0.48 | 1.70 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 76-44-8 | Heptachlor | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 1.70 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.24 | U | 0.24 | 1.70 | ug/kg |
| 959-98-8 | Endosulfan I | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 60-57-1 | Dieldrin | 0.15 | U | 0.15 | 1.70 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.13 | U | 0.13 | 1.70 | ug/kg |
| 72-20-8 | Endrin | 0.16 | U | 0.16 | 1.70 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.31 | U | 0.31 | 1.70 | ug/kg |
| 72-54-8 | 4,4-DDD | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.13 | U | 0.13 | 1.70 | ug/kg |
| 50-29-3 | 4,4-DDT | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 72-43-5 | Methoxychlor | 0.39 | U | 0.39 | 1.70 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.23 | U | 0.23 | 1.70 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.40 | U | 0.40 | 1.70 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 8001-35-2 | Toxaphene | 5.30 | U | 5.30 | 33.8 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 18.5 | | 30 (10) - 150 (148) | 93% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.1 | | 30 (10) - 150 (159) | 100% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 97.5 Decanted: |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093143.D | 1 | 11/18/24 08:20 | 11/19/24 14:44 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

Comments:

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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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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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 97.6 Decanted: |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093144.D | 1 | 11/18/24 08:20 | 11/19/24 14:57 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.18 | U | 0.18 | 1.70 | ug/kg |
| 319-85-7 | beta-BHC | 0.50 | U | 0.50 | 1.70 | ug/kg |
| 319-86-8 | delta-BHC | 0.48 | U | 0.48 | 1.70 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 76-44-8 | Heptachlor | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 1.70 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.24 | U | 0.24 | 1.70 | ug/kg |
| 959-98-8 | Endosulfan I | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 60-57-1 | Dieldrin | 0.15 | U | 0.15 | 1.70 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.13 | U | 0.13 | 1.70 | ug/kg |
| 72-20-8 | Endrin | 0.16 | U | 0.16 | 1.70 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.31 | U | 0.31 | 1.70 | ug/kg |
| 72-54-8 | 4,4-DDD | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.13 | U | 0.13 | 1.70 | ug/kg |
| 50-29-3 | 4,4-DDT | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 72-43-5 | Methoxychlor | 0.39 | U | 0.39 | 1.70 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.23 | U | 0.23 | 1.70 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.40 | U | 0.40 | 1.70 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 8001-35-2 | Toxaphene | 5.30 | U | 5.30 | 33.7 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 18.7 | | 30 (10) - 150 (148) | 94% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.8 | | 30 (10) - 150 (159) | 99% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 97.6 Decanted: |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093144.D | 1 | 11/18/24 08:20 | 11/19/24 14:57 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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.:** P4860

**Client:** Tetra Tech

**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-PL093098.D | PIBLK-PL093098.D | Decachlorobiphenyl | 1 | 20 | 20.8 | 104 | | 30 (43) | 150 (140) |
| | | Tetrachloro-m-xylene | 1 | 20 | 21.7 | 109 | | 30 (77) | 150 (126) |
| | | Decachlorobiphenyl | 2 | 20 | 20.9 | 105 | | 30 (43) | 150 (140) |
| | | Tetrachloro-m-xylene | 2 | 20 | 22.0 | 110 | | 30 (77) | 150 (126) |
| P4860-03 | PH2-BOT-002 | Decachlorobiphenyl | 1 | 20 | 20.2 | 101 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 1 | 20 | 24.7 | 124 | | 30 (10) | 150 (159) |
| | | Decachlorobiphenyl | 2 | 20 | 18.4 | 92 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.9 | 109 | | 30 (10) | 150 (159) |
| P4860-04 | PH2-BOT-003 | Decachlorobiphenyl | 1 | 20 | 23.8 | 119 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 1 | 20 | 24.5 | 122 | | 30 (10) | 150 (159) |
| | | Decachlorobiphenyl | 2 | 20 | 19.9 | 100 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 2 | 20 | 22.3 | 112 | | 30 (10) | 150 (159) |
| P4860-05 | PH2-BOT-004 | Decachlorobiphenyl | 1 | 20 | 21.8 | 109 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 1 | 20 | 23.4 | 117 | | 30 (10) | 150 (159) |
| | | Decachlorobiphenyl | 2 | 20 | 20.8 | 104 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 2 | 20 | 22.3 | 111 | | 30 (10) | 150 (159) |
| I.BLK-PL093110.D | PIBLK-PL093110.D | Decachlorobiphenyl | 1 | 20 | 20.4 | 102 | | 30 (43) | 150 (140) |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.6 | 103 | | 30 (77) | 150 (126) |
| | | Decachlorobiphenyl | 2 | 20 | 20.6 | 103 | | 30 (43) | 150 (140) |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.7 | 104 | | 30 (77) | 150 (126) |
| P4860-06 | PH2-BOT-009 | Decachlorobiphenyl | 1 | 20 | 21.8 | 109 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 1 | 20 | 23.2 | 116 | | 30 (10) | 150 (159) |
| | | Decachlorobiphenyl | 2 | 20 | 21.9 | 110 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 2 | 20 | 22.6 | 113 | | 30 (10) | 150 (159) |
| I.BLK-PL093133.D | PIBLK-PL093133.D | Decachlorobiphenyl | 1 | 20 | 19.4 | 97 | | 30 (43) | 150 (140) |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.1 | 101 | | 30 (77) | 150 (126) |
| | | Decachlorobiphenyl | 2 | 20 | 20.3 | 102 | | 30 (43) | 150 (140) |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.5 | 102 | | 30 (77) | 150 (126) |
| I.BLK-PL093136.D | PIBLK-PL093136.D | Decachlorobiphenyl | 1 | 20 | 15.6 | 78 | | 30 (43) | 150 (140) |
| | | Tetrachloro-m-xylene | 1 | 20 | 18.6 | 93 | | 30 (77) | 150 (126) |
| | | Decachlorobiphenyl | 2 | 20 | 17.6 | 88 | | 30 (43) | 150 (140) |
| | | Tetrachloro-m-xylene | 2 | 20 | 17.9 | 90 | | 30 (77) | 150 (126) |
| PB165046BS | PB165046BS | Decachlorobiphenyl | 1 | 20 | 14.3 | 71 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.1 | 101 | | 30 (10) | 150 (159) |
| | | Decachlorobiphenyl | 2 | 20 | 16.4 | 82 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.2 | 91 | | 30 (10) | 150 (159) |
| PB165046BL | PB165046BL | Decachlorobiphenyl | 1 | 20 | 16.7 | 83 | | 30 (10) | 150 (148) |

( ) = LABORATORY INHOUSE LIMIT

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## Surrogate Summary

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| PB165046BL | PB165046BL | Tetrachloro-m-xylene | 1 | 20 | 19.4 | 97 | | 30 (10) | 150 (159) |
| | | Decachlorobiphenyl | 2 | 20 | 18.9 | 95 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.1 | 91 | | 30 (10) | 150 (159) |
| P4860-01 | DUP-01 | Decachlorobiphenyl | 1 | 20 | 17.2 | 86 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.3 | 101 | | 30 (10) | 150 (159) |
| | | Decachlorobiphenyl | 2 | 20 | 19.5 | 97 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.6 | 103 | | 30 (10) | 150 (159) |
| P4860-02 | PH2-BOT-001 | Decachlorobiphenyl | 1 | 20 | 18.3 | 91 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.9 | 99 | | 30 (10) | 150 (159) |
| | | Decachlorobiphenyl | 2 | 20 | 19.5 | 98 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.3 | 96 | | 30 (10) | 150 (159) |
| P4860-09 | PH2-BOT-006 | Decachlorobiphenyl | 1 | 20 | 17.3 | 86 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.7 | 99 | | 30 (10) | 150 (159) |
| | | Decachlorobiphenyl | 2 | 20 | 18.5 | 93 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.1 | 100 | | 30 (10) | 150 (159) |
| P4860-10 | PH2-BOT-005 | Decachlorobiphenyl | 1 | 20 | 16.5 | 83 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.8 | 99 | | 30 (10) | 150 (159) |
| | | Decachlorobiphenyl | 2 | 20 | 18.7 | 94 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.7 | 98 | | 30 (10) | 150 (159) |
| P4860-07 | PH2-BOT-008 | Decachlorobiphenyl | 1 | 20 | 17.8 | 89 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.3 | 102 | | 30 (10) | 150 (159) |
| | | Decachlorobiphenyl | 2 | 20 | 19.4 | 97 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.7 | 104 | | 30 (10) | 150 (159) |
| P4860-08 | PH2-BOT-007 | Decachlorobiphenyl | 1 | 20 | 16.2 | 81 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 1 | 20 | 16.4 | 82 | | 30 (10) | 150 (159) |
| | | Decachlorobiphenyl | 2 | 20 | 17.3 | 87 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 2 | 20 | 16.9 | 85 | | 30 (10) | 150 (159) |
| P4860-08MS | PH2-BOT-007MS | Decachlorobiphenyl | 1 | 20 | 14.6 | 73 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 1 | 20 | 15.2 | 76 | | 30 (10) | 150 (159) |
| | | Decachlorobiphenyl | 2 | 20 | 15.9 | 80 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 2 | 20 | 14.6 | 73 | | 30 (10) | 150 (159) |
| P4860-08MSD | PH2-BOT-007MSD | Decachlorobiphenyl | 1 | 20 | 14.5 | 73 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 1 | 20 | 15.1 | 75 | | 30 (10) | 150 (159) |
| | | Decachlorobiphenyl | 2 | 20 | 15.7 | 79 | | 30 (10) | 150 (148) |
| | | Tetrachloro-m-xylene | 2 | 20 | 14.2 | 71 | | 30 (10) | 150 (159) |
| I.BLK-PL093152.D | PIBLK-PL093152.D | Decachlorobiphenyl | 1 | 20 | 17.5 | 87 | | 30 (43) | 150 (140) |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.7 | 98 | | 30 (77) | 150 (126) |
| | | Decachlorobiphenyl | 2 | 20 | 20.0 | 100 | | 30 (43) | 150 (140) |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.0 | 95 | | 30 (77) | 150 (126) |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** 8081B **DataFile :** PL093147.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:** | **PH2-BOT-007MS** | | | | | | | | | | | |
| P4860-08MS | alpha-BHC | 17 | 0 | 16.1 | ug/kg | 95 | | | | 30 (60) | 150 (144) | |
| | beta-BHC | 17 | 0 | 16.9 | ug/kg | 99 | | | | 30 (54) | 150 (143) | |
| | delta-BHC | 17 | 0 | 13.5 | ug/kg | 79 | | | | 30 (47) | 150 (144) | |
| | gamma-BHC (Lindane) | 17 | 0 | 15.9 | ug/kg | 94 | | | | 30 (61) | 150 (140) | |
| | Heptachlor | 17 | 0 | 17.0 | ug/kg | 100 | | | | 30 (63) | 150 (135) | |
| | Aldrin | 17 | 0 | 16.5 | ug/kg | 97 | | | | 30 (49) | 150 (139) | |
| | Heptachlor epoxide | 17 | 0 | 16.5 | ug/kg | 97 | | | | 30 (32) | 150 (180) | |
| | Endosulfan I | 17 | 0 | 16.0 | ug/kg | 94 | | | | 30 (56) | 150 (142) | |
| | Dieldrin | 17 | 0 | 17.1 | ug/kg | 101 | | | | 30 (47) | 150 (161) | |
| | 4,4'-DDE | 17 | 0.48 | 17.9 | ug/kg | 102 | | | | 30 (55) | 150 (136) | |
| | Endrin | 17 | 0 | 17.8 | ug/kg | 105 | | | | 30 (57) | 150 (139) | |
| | Endosulfan II | 17 | 0 | 16.9 | ug/kg | 99 | | | | 30 (40) | 150 (163) | |
| | 4,4'-DDD | 17 | 1.00 | 17.7 | ug/kg | 98 | | | | 30 (37) | 150 (192) | |
| | Endosulfan sulfate | 17 | 0 | 15.9 | ug/kg | 94 | | | | 30 (62) | 150 (139) | |
| | 4,4'-DDT | 17 | 1.70 | 17.4 | ug/kg | 92 | | | | 30 (51) | 150 (146) | |
| | Methoxychlor | 17 | 0 | 16.8 | ug/kg | 99 | | | | 30 (54) | 150 (136) | |
| | Endrin ketone | 17 | 0 | 16.1 | ug/kg | 95 | | | | 30 (60) | 150 (129) | |
| | Endrin aldehyde | 17 | 0 | 15.7 | ug/kg | 92 | | | | 30 (59) | 150 (132) | |
| | alpha-Chlordane | 17 | 0 | 17.4 | ug/kg | 102 | | | | 30 (30) | 150 (192) | |
| | gamma-Chlordane | 17 | 0 | 17.2 | ug/kg | 101 | | | | 30 (44) | 150 (175) | |

( ) = LABORATORY INHOUSE LIMIT

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** 8081B **DataFile :** PL093148.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:** | **PH2-BOT-007MSD** | | | | | | | | | | | |
| P4860-08MSD | alpha-BHC | 16.98 | 0 | 15.9 | ug/kg | 94 | | 1 | | 30 (60) | 150 (144) | 30 (20) |
| | beta-BHC | 16.98 | 0 | 16.6 | ug/kg | 98 | | 1 | | 30 (54) | 150 (143) | 30 (20) |
| | delta-BHC | 16.98 | 0 | 13.3 | ug/kg | 78 | | 1 | | 30 (47) | 150 (144) | 30 (20) |
| | gamma-BHC (Lindane) | 16.98 | 0 | 15.6 | ug/kg | 92 | | 2 | | 30 (61) | 150 (140) | 30 (20) |
| | Heptachlor | 16.98 | 0 | 16.7 | ug/kg | 98 | | 2 | | 30 (63) | 150 (135) | 30 (20) |
| | Aldrin | 16.98 | 0 | 16.2 | ug/kg | 95 | | 2 | | 30 (49) | 150 (139) | 30 (20) |
| | Heptachlor epoxide | 16.98 | 0 | 16.3 | ug/kg | 96 | | 1 | | 30 (32) | 150 (180) | 30 (20) |
| | Endosulfan I | 16.98 | 0 | 15.1 | ug/kg | 89 | | 5 | | 30 (56) | 150 (142) | 30 (20) |
| | Dieldrin | 16.98 | 0 | 17.0 | ug/kg | 100 | | 1 | | 30 (47) | 150 (161) | 30 (20) |
| | 4,4'-DDE | 16.98 | 0.48 | 17.8 | ug/kg | 102 | | 0 | | 30 (55) | 150 (136) | 30 (20) |
| | Endrin | 16.98 | 0 | 18.3 | ug/kg | 108 | | 3 | | 30 (57) | 150 (139) | 30 (20) |
| | Endosulfan II | 16.98 | 0 | 16.8 | ug/kg | 99 | | 0 | | 30 (40) | 150 (163) | 30 (20) |
| | 4,4'-DDD | 16.98 | 1.00 | 18.0 | ug/kg | 100 | | 2 | | 30 (37) | 150 (192) | 30 (20) |
| | Endosulfan sulfate | 16.98 | 0 | 16.0 | ug/kg | 94 | | 0 | | 30 (62) | 150 (139) | 30 (20) |
| | 4,4'-DDT | 16.98 | 1.70 | 17.6 | ug/kg | 94 | | 2 | | 30 (51) | 150 (146) | 30 (20) |
| | Methoxychlor | 16.98 | 0 | 16.6 | ug/kg | 98 | | 1 | | 30 (54) | 150 (136) | 30 (20) |
| | Endrin ketone | 16.98 | 0 | 16.0 | ug/kg | 94 | | 1 | | 30 (60) | 150 (129) | 30 (20) |
| | Endrin aldehyde | 16.98 | 0 | 15.5 | ug/kg | 91 | | 1 | | 30 (59) | 150 (132) | 30 (20) |
| | alpha-Chlordane | 16.98 | 0 | 17.0 | ug/kg | 100 | | 2 | | 30 (30) | 150 (192) | 30 (20) |
| | gamma-Chlordane | 16.98 | 0 | 16.9 | ug/kg | 100 | | 1 | | 30 (44) | 150 (175) | 30 (20) |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** 8081B **Datafile :** PL093139.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB165046BS | alpha-BHC | 16.65 | 17.0 | ug/kg | 102 | | | | 40 (84) | 140 (123) | |
| | beta-BHC | 16.65 | 17.1 | ug/kg | 103 | | | | 40 (82) | 140 (123) | |
| | delta-BHC | 16.65 | 14.4 | ug/kg | 86 | | | | 40 (83) | 140 (126) | |
| | gamma-BHC (Lindane) | 16.65 | 16.7 | ug/kg | 100 | | | | 40 (83) | 140 (125) | |
| | Heptachlor | 16.65 | 18.1 | ug/kg | 109 | | | | 40 (83) | 140 (122) | |
| | Aldrin | 16.65 | 16.4 | ug/kg | 98 | | | | 40 (82) | 140 (124) | |
| | Heptachlor epoxide | 16.65 | 17.0 | ug/kg | 102 | | | | 40 (83) | 140 (120) | |
| | Endosulfan I | 16.65 | 17.7 | ug/kg | 106 | | | | 40 (81) | 140 (124) | |
| | Dieldrin | 16.65 | 17.6 | ug/kg | 106 | | | | 40 (85) | 140 (121) | |
| | 4,4'-DDE | 16.65 | 18.1 | ug/kg | 109 | | | | 40 (81) | 140 (123) | |
| | Endrin | 16.65 | 18.7 | ug/kg | 112 | | | | 40 (76) | 140 (130) | |
| | Endosulfan II | 16.65 | 17.8 | ug/kg | 107 | | | | 40 (80) | 140 (125) | |
| | 4,4'-DDD | 16.65 | 18.1 | ug/kg | 109 | | | | 40 (80) | 140 (131) | |
| | Endosulfan sulfate | 16.65 | 16.8 | ug/kg | 101 | | | | 40 (81) | 140 (122) | |
| | 4,4'-DDT | 16.65 | 17.6 | ug/kg | 106 | | | | 40 (70) | 140 (129) | |
| | Methoxychlor | 16.65 | 17.4 | ug/kg | 105 | | | | 40 (60) | 140 (119) | |
| | Endrin ketone | 16.65 | 17.1 | ug/kg | 103 | | | | 40 (77) | 140 (132) | |
| | Endrin aldehyde | 16.65 | 16.8 | ug/kg | 101 | | | | 40 (79) | 140 (124) | |
| | alpha-Chlordane | 16.65 | 17.7 | ug/kg | 106 | | | | 40 (84) | 140 (120) | |
| | gamma-Chlordane | 16.65 | 17.8 | ug/kg | 107 | | | | 40 (83) | 140 (122) | |

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165046BL

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Lab Sample ID: PB165046BL Lab File ID: PL093140.D

Matrix: (soil/water) Solid Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 11/18/2024

Date Analyzed (1): 11/19/2024 Date Analyzed (2): 11/19/2024

Time Analyzed (1): 14:05 Time Analyzed (2): 14:05

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 |
|---|---|---|---|---|
| PH2-BOT-002 | P4860-03 | PL093107.D | 11/18/2024 | 11/18/2024 |
| PH2-BOT-003 | P4860-04 | PL093108.D | 11/18/2024 | 11/18/2024 |
| PH2-BOT-004 | P4860-05 | PL093109.D | 11/18/2024 | 11/18/2024 |
| PH2-BOT-009 | P4860-06 | PL093113.D | 11/18/2024 | 11/18/2024 |
| PB165046BS | PB165046BS | PL093139.D | 11/19/2024 | 11/19/2024 |
| DUP-01 | P4860-01 | PL093141.D | 11/19/2024 | 11/19/2024 |
| PH2-BOT-001 | P4860-02 | PL093142.D | 11/19/2024 | 11/19/2024 |
| PH2-BOT-006 | P4860-09 | PL093143.D | 11/19/2024 | 11/19/2024 |
| PH2-BOT-005 | P4860-10 | PL093144.D | 11/19/2024 | 11/19/2024 |
| PH2-BOT-008 | P4860-07 | PL093145.D | 11/19/2024 | 11/19/2024 |
| PH2-BOT-007 | P4860-08 | PL093146.D | 11/19/2024 | 11/19/2024 |
| PH2-BOT-007MS | P4860-08MS | PL093147.D | 11/19/2024 | 11/19/2024 |
| PH2-BOT-007MSD | P4860-08MSD | PL093148.D | 11/19/2024 | 11/19/2024 |

COMMENTS:

# QC SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165046BL | SDG No.: | P4860 |
| Lab Sample ID: | PB165046BL | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093140.D | 1 | 11/18/24 08:20 | 11/19/24 14:05 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.18 | U | 0.18 | 1.70 | ug/kg |
| 319-85-7 | beta-BHC | 0.49 | U | 0.49 | 1.70 | ug/kg |
| 319-86-8 | delta-BHC | 0.47 | U | 0.47 | 1.70 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 76-44-8 | Heptachlor | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 1.70 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.23 | U | 0.23 | 1.70 | ug/kg |
| 959-98-8 | Endosulfan I | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 60-57-1 | Dieldrin | 0.15 | U | 0.15 | 1.70 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.13 | U | 0.13 | 1.70 | ug/kg |
| 72-20-8 | Endrin | 0.16 | U | 0.16 | 1.70 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.30 | U | 0.30 | 1.70 | ug/kg |
| 72-54-8 | 4,4-DDD | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.13 | U | 0.13 | 1.70 | ug/kg |
| 50-29-3 | 4,4-DDT | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 72-43-5 | Methoxychlor | 0.38 | U | 0.38 | 1.70 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.22 | U | 0.22 | 1.70 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.39 | U | 0.39 | 1.70 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 8001-35-2 | Toxaphene | 5.20 | U | 5.20 | 33.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 18.9 | | 30 (10) - 150 (148) | 95% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.4 | | 30 (10) - 150 (159) | 97% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165046BL | SDG No.: | P4860 |
| Lab Sample ID: | PB165046BL | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093140.D | 1 | 11/18/24 08:20 | 11/19/24 14:05 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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: | Tetra Tech | Date Collected: | 10/28/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 10/28/24 |
| Client Sample ID: | PIBLK-PL092652.D | SDG No.: | P4860 |
| Lab Sample ID: | I.BLK-PL092652.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| 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** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 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 |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | 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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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 10/28/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 10/28/24 |
| Client Sample ID: | PIBLK-PL092652.D | SDG No.: | P4860 |
| Lab Sample ID: | I.BLK-PL092652.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| 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 |
|---|---|---|---|---|---|---|

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: | Tetra Tech | Date Collected: | 11/18/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/18/24 |
| Client Sample ID: | PIBLK-PL093098.D | SDG No.: | P4860 |
| Lab Sample ID: | I.BLK-PL093098.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093098.D | 1 | | 11/18/24 | pl111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 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 |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 20.9 | | 30 (43) - 150 (140) | 105% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 22.0 | | 30 (77) - 150 (126) | 110% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/18/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/18/24 |
| Client Sample ID: | PIBLK-PL093098.D | SDG No.: | P4860 |
| Lab Sample ID: | I.BLK-PL093098.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093098.D | 1 | | 11/18/24 | pl111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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: | Tetra Tech | Date Collected: | 11/18/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/18/24 |
| Client Sample ID: | PIBLK-PL093110.D | SDG No.: | P4860 |
| Lab Sample ID: | I.BLK-PL093110.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093110.D | 1 | | 11/18/24 | pl111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 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 |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 20.6 | | 30 (43) - 150 (140) | 103% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.7 | | 30 (77) - 150 (126) | 104% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/18/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/18/24 |
| Client Sample ID: | PIBLK-PL093110.D | SDG No.: | P4860 |
| Lab Sample ID: | I.BLK-PL093110.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093110.D | 1 | | 11/18/24 | pl111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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: | Tetra Tech | Date Collected: | 11/18/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/18/24 |
| Client Sample ID: | PIBLK-PL093133.D | SDG No.: | P4860 |
| Lab Sample ID: | I.BLK-PL093133.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093133.D | 1 | | 11/18/24 | pl111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 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 |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 20.3 | | 30 (43) - 150 (140) | 102% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.5 | | 30 (77) - 150 (126) | 102% | SPK: 20 |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/18/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/18/24 |
| Client Sample ID: | PIBLK-PL093133.D | SDG No.: | P4860 |
| Lab Sample ID: | I.BLK-PL093133.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093133.D | 1 | | 11/18/24 | pl111824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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: | Tetra Tech | Date Collected: | 11/19/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/19/24 |
| Client Sample ID: | PIBLK-PL093136.D | SDG No.: | P4860 |
| Lab Sample ID: | I.BLK-PL093136.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093136.D | 1 | | 11/19/24 | PL111924 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 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 |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 17.6 | | 30 (43) - 150 (140) | 88% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 18.6 | | 30 (77) - 150 (126) | 93% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/19/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/19/24 |
| Client Sample ID: | PIBLK-PL093136.D | SDG No.: | P4860 |
| Lab Sample ID: | I.BLK-PL093136.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093136.D | 1 | | 11/19/24 | PL111924 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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: | Tetra Tech | Date Collected: | 11/19/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/19/24 |
| Client Sample ID: | PIBLK-PL093152.D | SDG No.: | P4860 |
| Lab Sample ID: | I.BLK-PL093152.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093152.D | 1 | | 11/19/24 | PL111924 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 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 |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 20.0 | | 30 (43) - 150 (140) | 100% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.7 | | 30 (77) - 150 (126) | 98% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/19/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/19/24 |
| Client Sample ID: | PIBLK-PL093152.D | SDG No.: | P4860 |
| Lab Sample ID: | I.BLK-PL093152.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093152.D | 1 | | 11/19/24 | PL111924 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165046BS | SDG No.: | P4860 |
| Lab Sample ID: | PB165046BS | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093139.D | 1 | 11/18/24 08:20 | 11/19/24 13:52 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 17.0 | | 0.18 | 1.70 | ug/kg |
| 319-85-7 | beta-BHC | 17.1 | | 0.49 | 1.70 | ug/kg |
| 319-86-8 | delta-BHC | 14.4 | | 0.47 | 1.70 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 16.7 | | 0.19 | 1.70 | ug/kg |
| 76-44-8 | Heptachlor | 18.1 | | 0.17 | 1.70 | ug/kg |
| 309-00-2 | Aldrin | 16.4 | | 0.14 | 1.70 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 17.0 | | 0.23 | 1.70 | ug/kg |
| 959-98-8 | Endosulfan I | 17.7 | | 0.17 | 1.70 | ug/kg |
| 60-57-1 | Dieldrin | 17.6 | | 0.15 | 1.70 | ug/kg |
| 72-55-9 | 4,4-DDE | 18.1 | | 0.13 | 1.70 | ug/kg |
| 72-20-8 | Endrin | 18.7 | | 0.16 | 1.70 | ug/kg |
| 33213-65-9 | Endosulfan II | 17.8 | | 0.30 | 1.70 | ug/kg |
| 72-54-8 | 4,4-DDD | 18.1 | | 0.19 | 1.70 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 16.8 | | 0.13 | 1.70 | ug/kg |
| 50-29-3 | 4,4-DDT | 17.6 | | 0.17 | 1.70 | ug/kg |
| 72-43-5 | Methoxychlor | 17.4 | | 0.38 | 1.70 | ug/kg |
| 53494-70-5 | Endrin ketone | 17.1 | | 0.22 | 1.70 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 16.8 | | 0.39 | 1.70 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 17.7 | | 0.17 | 1.70 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 17.8 | | 0.19 | 1.70 | ug/kg |
| 8001-35-2 | Toxaphene | 5.20 | U | 5.20 | 33.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 16.4 | | 30 (10) - 150 (148) | 82% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.1 | | 30 (10) - 150 (159) | 101% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165046BS | SDG No.: | P4860 |
| Lab Sample ID: | PB165046BS | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093139.D | 1 | 11/18/24 08:20 | 11/19/24 13:52 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007MS | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08MS | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 98 Decanted: |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093147.D | 1 | 11/18/24 08:20 | 11/19/24 15:37 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 16.1 | | 0.18 | 1.70 | ug/kg |
| 319-85-7 | beta-BHC | 16.9 | | 0.50 | 1.70 | ug/kg |
| 319-86-8 | delta-BHC | 13.5 | | 0.48 | 1.70 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 15.9 | | 0.19 | 1.70 | ug/kg |
| 76-44-8 | Heptachlor | 17.0 | | 0.17 | 1.70 | ug/kg |
| 309-00-2 | Aldrin | 16.5 | | 0.14 | 1.70 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 16.5 | | 0.23 | 1.70 | ug/kg |
| 959-98-8 | Endosulfan I | 16.0 | | 0.17 | 1.70 | ug/kg |
| 60-57-1 | Dieldrin | 17.1 | | 0.15 | 1.70 | ug/kg |
| 72-55-9 | 4,4-DDE | 17.9 | | 0.13 | 1.70 | ug/kg |
| 72-20-8 | Endrin | 17.8 | | 0.16 | 1.70 | ug/kg |
| 33213-65-9 | Endosulfan II | 16.9 | | 0.31 | 1.70 | ug/kg |
| 72-54-8 | 4,4-DDD | 17.7 | | 0.19 | 1.70 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 15.9 | | 0.13 | 1.70 | ug/kg |
| 50-29-3 | 4,4-DDT | 17.4 | | 0.17 | 1.70 | ug/kg |
| 72-43-5 | Methoxychlor | 16.8 | | 0.39 | 1.70 | ug/kg |
| 53494-70-5 | Endrin ketone | 16.1 | | 0.22 | 1.70 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 15.7 | | 0.40 | 1.70 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 17.4 | | 0.17 | 1.70 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 17.2 | | 0.19 | 1.70 | ug/kg |
| 8001-35-2 | Toxaphene | 5.30 | U | 5.30 | 33.7 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 15.9 | | 30 (10) - 150 (148) | 80% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 15.2 | | 30 (10) - 150 (159) | 76% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007MS | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08MS | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 98 Decanted: |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093147.D | 1 | 11/18/24 08:20 | 11/19/24 15:37 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

Comments:

U = Not Detected
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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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007MSD | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08MSD | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 98 Decanted: |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093148.D | 1 | 11/18/24 08:20 | 11/19/24 15:50 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 15.9 | | 0.18 | 1.70 | ug/kg |
| 319-85-7 | beta-BHC | 16.6 | | 0.50 | 1.70 | ug/kg |
| 319-86-8 | delta-BHC | 13.3 | | 0.48 | 1.70 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 15.6 | | 0.19 | 1.70 | ug/kg |
| 76-44-8 | Heptachlor | 16.7 | | 0.17 | 1.70 | ug/kg |
| 309-00-2 | Aldrin | 16.2 | | 0.14 | 1.70 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 16.3 | | 0.23 | 1.70 | ug/kg |
| 959-98-8 | Endosulfan I | 15.1 | | 0.17 | 1.70 | ug/kg |
| 60-57-1 | Dieldrin | 17.0 | | 0.15 | 1.70 | ug/kg |
| 72-55-9 | 4,4-DDE | 17.8 | | 0.13 | 1.70 | ug/kg |
| 72-20-8 | Endrin | 18.3 | | 0.16 | 1.70 | ug/kg |
| 33213-65-9 | Endosulfan II | 16.8 | | 0.31 | 1.70 | ug/kg |
| 72-54-8 | 4,4-DDD | 18.0 | | 0.19 | 1.70 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 16.0 | | 0.13 | 1.70 | ug/kg |
| 50-29-3 | 4,4-DDT | 17.6 | | 0.17 | 1.70 | ug/kg |
| 72-43-5 | Methoxychlor | 16.6 | | 0.39 | 1.70 | ug/kg |
| 53494-70-5 | Endrin ketone | 16.0 | | 0.22 | 1.70 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 15.5 | | 0.40 | 1.70 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 17.0 | | 0.17 | 1.70 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 16.9 | | 0.19 | 1.70 | ug/kg |
| 8001-35-2 | Toxaphene | 5.30 | U | 5.30 | 33.6 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 15.7 | | 30 (10) - 150 (148) | 79% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 15.1 | | 30 (10) - 150 (159) | 75% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007MSD | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08MSD | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 98 Decanted: |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL093148.D | 1 | 11/18/24 08:20 | 11/19/24 15:50 | PB165046 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|

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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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 |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.71 | 6.71 | 6.71 | 6.71 | 6.71 | 6.71 | 6.61 | 6.81 |
| 4,4'-DDE | 6.19 | 6.19 | 6.19 | 6.19 | 6.19 | 6.19 | 6.09 | 6.29 |
| 4,4'-DDT | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 6.92 | 7.12 |
| Aldrin | 5.26 | 5.26 | 5.26 | 5.26 | 5.26 | 5.26 | 5.16 | 5.36 |
| alpha-BHC | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 3.90 | 4.10 |
| alpha-Chlordane | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 5.92 | 6.12 |
| beta-BHC | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 | 4.43 | 4.63 |
| Decachlorobiphenyl | 9.05 | 9.05 | 9.05 | 9.05 | 9.05 | 9.05 | 8.95 | 9.15 |
| delta-BHC | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.67 | 4.87 |
| Dieldrin | 6.35 | 6.35 | 6.35 | 6.35 | 6.34 | 6.34 | 6.24 | 6.44 |
| Endosulfan I | 6.07 | 6.07 | 6.07 | 6.07 | 6.07 | 6.07 | 5.97 | 6.17 |
| Endosulfan II | 6.79 | 6.79 | 6.79 | 6.79 | 6.79 | 6.79 | 6.69 | 6.89 |
| Endosulfan sulfate | 7.16 | 7.16 | 7.16 | 7.16 | 7.16 | 7.16 | 7.06 | 7.26 |
| Endrin | 6.58 | 6.58 | 6.57 | 6.57 | 6.57 | 6.57 | 6.47 | 6.67 |
| Endrin aldehyde | 6.92 | 6.92 | 6.92 | 6.92 | 6.92 | 6.92 | 6.82 | 7.02 |
| Endrin ketone | 7.64 | 7.64 | 7.64 | 7.64 | 7.64 | 7.64 | 7.54 | 7.74 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.23 | 4.43 |
| gamma-Chlordane | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.84 | 6.04 |
| 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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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 |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | 5.69 | 5.89 |
| 4,4'-DDE | 5.24 | 5.24 | 5.24 | 5.24 | 5.24 | 5.24 | 5.14 | 5.34 |
| 4,4'-DDT | 6.04 | 6.04 | 6.04 | 6.04 | 6.04 | 6.04 | 5.94 | 6.14 |
| Aldrin | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.13 | 4.33 |
| alpha-BHC | 3.28 | 3.28 | 3.28 | 3.28 | 3.28 | 3.28 | 3.18 | 3.38 |
| alpha-Chlordane | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 4.95 | 5.15 |
| beta-BHC | 3.91 | 3.91 | 3.91 | 3.91 | 3.91 | 3.91 | 3.81 | 4.01 |
| Decachlorobiphenyl | 7.92 | 7.92 | 7.92 | 7.92 | 7.92 | 7.92 | 7.82 | 8.02 |
| delta-BHC | 4.14 | 4.14 | 4.14 | 4.14 | 4.14 | 4.14 | 4.04 | 4.24 |
| Dieldrin | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.27 | 5.47 |
| Endosulfan I | 5.10 | 5.10 | 5.10 | 5.10 | 5.10 | 5.10 | 5.00 | 5.20 |
| Endosulfan II | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.84 | 6.04 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.34 | 6.34 | 6.34 | 6.34 | 6.24 | 6.44 |
| Endrin | 5.64 | 5.64 | 5.64 | 5.64 | 5.64 | 5.64 | 5.54 | 5.74 |
| Endrin aldehyde | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.02 | 6.22 |
| Endrin ketone | 6.84 | 6.84 | 6.84 | 6.84 | 6.84 | 6.84 | 6.74 | 6.94 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.61 | 3.61 | 3.61 | 3.61 | 3.51 | 3.71 |
| gamma-Chlordane | 4.98 | 4.98 | 4.98 | 4.98 | 4.98 | 4.98 | 4.88 | 5.08 |
| 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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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 |
|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 1810270000 | 1801980000 | 1817980000 | 1967770000 | 2199620000 | 1919520000 | 9 |
| 4,4'-DDE | 2254070000 | 2226390000 | 2230050000 | 2402470000 | 2732960000 | 2369190000 | 9 |
| 4,4'-DDT | 1948940000 | 1933390000 | 1940720000 | 2113460000 | 2412250000 | 2069750000 | 10 |
| Aldrin | 2847480000 | 2802990000 | 2807290000 | 3047230000 | 3502400000 | 3001480000 | 10 |
| alpha-BHC | 3356530000 | 3271880000 | 3230400000 | 3397090000 | 3701950000 | 3391570000 | 5 |
| alpha-Chlordane | 2486640000 | 2469090000 | 2489960000 | 2701720000 | 3093310000 | 2648140000 | 10 |
| beta-BHC | 1343260000 | 1339050000 | 1368530000 | 1491800000 | 1684660000 | 1445460000 | 10 |
| Decachlorobiphenyl | 1738840000 | 1756630000 | 1819720000 | 1998760000 | 2308800000 | 1924550000 | 12 |
| delta-BHC | 3067660000 | 2980040000 | 2949010000 | 3119670000 | 3533000000 | 3129870000 | 8 |
| Dieldrin | 2486930000 | 2456960000 | 2476030000 | 2679410000 | 3078050000 | 2635480000 | 10 |
| Endosulfan I | 2320690000 | 2313950000 | 2348370000 | 2546170000 | 2977620000 | 2501360000 | 11 |
| Endosulfan II | 2159880000 | 2160930000 | 2205230000 | 2449960000 | 2943170000 | 2383830000 | 14 |
| Endosulfan sulfate | 1974140000 | 1979440000 | 2024740000 | 2239840000 | 2633550000 | 2170340000 | 13 |
| Endrin | 2111540000 | 2103000000 | 2121260000 | 2324460000 | 2723040000 | 2276660000 | 12 |
| Endrin aldehyde | 1712300000 | 1718280000 | 1758160000 | 1955910000 | 2245210000 | 1877970000 | 12 |
| Endrin ketone | 2253830000 | 2246660000 | 2273910000 | 2471090000 | 2868570000 | 2422810000 | 11 |
| gamma-BHC (Lindane) | 3198960000 | 3133030000 | 3104430000 | 3278360000 | 3583040000 | 3259560000 | 6 |
| gamma-Chlordane | 2496700000 | 2477960000 | 2491940000 | 2703470000 | 3133120000 | 2660640000 | 11 |
| 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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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 |
|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 2614880000 | 2506250000 | 2443430000 | 2489210000 | 2396540000 | 2490060000 | 3 |
| 4,4'-DDE | 3334990000 | 3225880000 | 3154950000 | 3209960000 | 3182260000 | 3221610000 | 2 |
| 4,4'-DDT | 2797500000 | 2713050000 | 2637310000 | 2653690000 | 2609750000 | 2682260000 | 3 |
| Aldrin | 3840860000 | 3705070000 | 3619180000 | 3619340000 | 3516600000 | 3660210000 | 3 |
| alpha-BHC | 4282500000 | 4089170000 | 3973860000 | 3934480000 | 3670850000 | 3990170000 | 6 |
| alpha-Chlordane | 3409310000 | 3303380000 | 3254510000 | 3329310000 | 3333630000 | 3326030000 | 2 |
| beta-BHC | 1625150000 | 1594840000 | 1591160000 | 1661990000 | 1758110000 | 1646250000 | 4 |
| Decachlorobiphenyl | 2606810000 | 2575500000 | 2605540000 | 2793460000 | 3064890000 | 2729240000 | 8 |
| delta-BHC | 4088000000 | 3924730000 | 3802680000 | 3782230000 | 3618150000 | 3843150000 | 5 |
| Dieldrin | 3483370000 | 3364390000 | 3290100000 | 3303460000 | 3260200000 | 3340300000 | 3 |
| Endosulfan I | 3111480000 | 3032780000 | 2993580000 | 3072340000 | 3055530000 | 3053140000 | 1 |
| Endosulfan II | 2881520000 | 2813750000 | 2779930000 | 2861240000 | 2829950000 | 2833280000 | 1 |
| Endosulfan sulfate | 2707530000 | 2646200000 | 2623690000 | 2712350000 | 2794620000 | 2696880000 | 2 |
| Endrin | 2969490000 | 2878380000 | 2828080000 | 2876210000 | 2912860000 | 2893010000 | 2 |
| Endrin aldehyde | 2273700000 | 2244250000 | 2230130000 | 2333460000 | 2454860000 | 2307280000 | 4 |
| Endrin ketone | 3089790000 | 3023040000 | 3013060000 | 3097240000 | 3120850000 | 3068800000 | 2 |
| gamma-BHC (Lindane) | 4083950000 | 3934430000 | 3833920000 | 3828430000 | 3616530000 | 3859450000 | 4 |
| gamma-Chlordane | 3470230000 | 3355710000 | 3294030000 | 3342020000 | 3346470000 | 3361690000 | 2 |
| 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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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 |
|---|---|---|---|---|---|---|
| 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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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 |
|---|---|---|---|---|---|---|
| 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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Continuing Calib Date:** 11/18/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 09:59 **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 |
| alpha-BHC | 4.00 | 4.00 | 3.90 | 4.10 | 0.01 |
| beta-BHC | 4.53 | 4.53 | 4.43 | 4.63 | 0.00 |
| delta-BHC | 4.77 | 4.77 | 4.67 | 4.87 | 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 |
| Aldrin | 5.26 | 5.26 | 5.16 | 5.36 | 0.00 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | 0.00 |
| Endosulfan I | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| Dieldrin | 6.35 | 6.35 | 6.25 | 6.45 | 0.01 |
| 4,4'-DDE | 6.19 | 6.19 | 6.09 | 6.29 | 0.00 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | 0.00 |
| Endosulfan II | 6.80 | 6.79 | 6.69 | 6.89 | -0.01 |
| 4,4'-DDD | 6.71 | 6.71 | 6.61 | 6.81 | 0.00 |
| Endosulfan sulfate | 7.16 | 7.16 | 7.06 | 7.26 | 0.00 |
| 4,4'-DDT | 7.02 | 7.02 | 6.92 | 7.12 | 0.00 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |
| Endrin ketone | 7.64 | 7.64 | 7.54 | 7.74 | 0.00 |
| Endrin aldehyde | 6.92 | 6.92 | 6.82 | 7.02 | 0.00 |
| alpha-Chlordane | 6.02 | 6.02 | 5.92 | 6.12 | 0.00 |
| gamma-Chlordane | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Continuing Calib Date:** 11/18/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 09:59 **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 | 2.78 | 2.78 | 2.68 | 2.88 | 0.00 |
| alpha-BHC | 3.28 | 3.28 | 3.18 | 3.38 | 0.00 |
| beta-BHC | 3.91 | 3.91 | 3.81 | 4.01 | 0.00 |
| delta-BHC | 4.14 | 4.14 | 4.04 | 4.24 | 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 |
| Aldrin | 4.23 | 4.23 | 4.13 | 4.33 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endosulfan I | 5.10 | 5.10 | 5.00 | 5.20 | 0.00 |
| Dieldrin | 5.37 | 5.37 | 5.27 | 5.47 | 0.01 |
| 4,4'-DDE | 5.23 | 5.24 | 5.14 | 5.34 | 0.01 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Endosulfan II | 5.94 | 5.94 | 5.84 | 6.04 | 0.01 |
| 4,4'-DDD | 5.79 | 5.79 | 5.69 | 5.89 | 0.00 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 4,4'-DDT | 6.04 | 6.04 | 5.94 | 6.14 | 0.00 |
| Methoxychlor | 6.61 | 6.62 | 6.52 | 6.72 | 0.01 |
| Endrin ketone | 6.84 | 6.84 | 6.74 | 6.94 | 0.00 |
| Endrin aldehyde | 6.11 | 6.12 | 6.02 | 6.22 | 0.01 |
| alpha-Chlordane | 5.05 | 5.05 | 4.95 | 5.15 | 0.00 |
| gamma-Chlordane | 4.98 | 4.98 | 4.88 | 5.08 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/18/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093100.D **Time Analyzed:** 09:59

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.710 | 6.610 | 6.810 | 51.130 | 50.000 | 2.3 |
| 4,4'-DDE | 6.193 | 6.093 | 6.293 | 50.700 | 50.000 | 1.4 |
| 4,4'-DDT | 7.024 | 6.923 | 7.123 | 48.900 | 50.000 | -2.2 |
| Aldrin | 5.258 | 5.158 | 5.358 | 50.880 | 50.000 | 1.8 |
| alpha-BHC | 3.995 | 3.896 | 4.096 | 54.020 | 50.000 | 8.0 |
| alpha-Chlordane | 6.019 | 5.919 | 6.119 | 49.680 | 50.000 | -0.6 |
| beta-BHC | 4.525 | 4.425 | 4.625 | 52.270 | 50.000 | 4.5 |
| Decachlorobiphenyl | 9.056 | 8.954 | 9.154 | 48.900 | 50.000 | -2.2 |
| delta-BHC | 4.773 | 4.672 | 4.872 | 52.830 | 50.000 | 5.7 |
| Dieldrin | 6.345 | 6.245 | 6.445 | 49.220 | 50.000 | -1.6 |
| Endosulfan I | 6.070 | 5.970 | 6.170 | 49.530 | 50.000 | -0.9 |
| Endosulfan II | 6.795 | 6.694 | 6.894 | 47.320 | 50.000 | -5.4 |
| Endosulfan sulfate | 7.159 | 7.058 | 7.258 | 48.460 | 50.000 | -3.1 |
| Endrin | 6.575 | 6.474 | 6.674 | 49.110 | 50.000 | -1.8 |
| Endrin aldehyde | 6.924 | 6.824 | 7.024 | 48.910 | 50.000 | -2.2 |
| Endrin ketone | 7.644 | 7.543 | 7.743 | 48.560 | 50.000 | -2.9 |
| gamma-BHC (Lindane) | 4.328 | 4.228 | 4.428 | 53.390 | 50.000 | 6.8 |
| gamma-Chlordane | 5.941 | 5.841 | 6.041 | 49.100 | 50.000 | -1.8 |
| Heptachlor | 4.916 | 4.817 | 5.017 | 51.170 | 50.000 | 2.3 |
| Heptachlor epoxide | 5.685 | 5.584 | 5.784 | 49.800 | 50.000 | -0.4 |
| Methoxychlor | 7.500 | 7.399 | 7.599 | 48.780 | 50.000 | -2.4 |
| Tetrachloro-m-xylene | 3.539 | 3.440 | 3.640 | 53.540 | 50.000 | 7.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/18/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093100.D **Time Analyzed:** 09:59

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.788 | 5.689 | 5.889 | 58.040 | 50.000 | 16.1 |
| 4,4'-DDE | 5.233 | 5.135 | 5.335 | 57.220 | 50.000 | 14.4 |
| 4,4'-DDT | 6.039 | 5.940 | 6.140 | 54.790 | 50.000 | 9.6 |
| Aldrin | 4.228 | 4.129 | 4.329 | 57.170 | 50.000 | 14.3 |
| alpha-BHC | 3.280 | 3.181 | 3.381 | 57.320 | 50.000 | 14.6 |
| alpha-Chlordane | 5.045 | 4.945 | 5.145 | 56.310 | 50.000 | 12.6 |
| beta-BHC | 3.909 | 3.810 | 4.010 | 55.860 | 50.000 | 11.7 |
| Decachlorobiphenyl | 7.915 | 7.816 | 8.016 | 48.710 | 50.000 | -2.6 |
| delta-BHC | 4.138 | 4.039 | 4.239 | 57.540 | 50.000 | 15.1 |
| Dieldrin | 5.365 | 5.266 | 5.466 | 56.890 | 50.000 | 13.8 |
| Endosulfan I | 5.101 | 5.002 | 5.202 | 56.120 | 50.000 | 12.2 |
| Endosulfan II | 5.935 | 5.836 | 6.036 | 56.090 | 50.000 | 12.2 |
| Endosulfan sulfate | 6.338 | 6.238 | 6.438 | 54.570 | 50.000 | 9.1 |
| Endrin | 5.641 | 5.541 | 5.741 | 56.390 | 50.000 | 12.8 |
| Endrin aldehyde | 6.114 | 6.015 | 6.215 | 54.990 | 50.000 | 10.0 |
| Endrin ketone | 6.843 | 6.743 | 6.943 | 54.610 | 50.000 | 9.2 |
| gamma-BHC (Lindane) | 3.610 | 3.511 | 3.711 | 57.140 | 50.000 | 14.3 |
| gamma-Chlordane | 4.981 | 4.882 | 5.082 | 57.170 | 50.000 | 14.3 |
| Heptachlor | 3.948 | 3.849 | 4.049 | 55.490 | 50.000 | 11.0 |
| Heptachlor epoxide | 4.731 | 4.632 | 4.832 | 56.200 | 50.000 | 12.4 |
| Methoxychlor | 6.614 | 6.515 | 6.715 | 51.830 | 50.000 | 3.7 |
| Tetrachloro-m-xylene | 2.777 | 2.678 | 2.878 | 55.280 | 50.000 | 10.6 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Continuing Calib Date:** 11/18/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 13:32 **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 |
| alpha-BHC | 4.00 | 4.00 | 3.90 | 4.10 | 0.01 |
| beta-BHC | 4.53 | 4.53 | 4.43 | 4.63 | 0.00 |
| delta-BHC | 4.77 | 4.77 | 4.67 | 4.87 | 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 |
| Aldrin | 5.26 | 5.26 | 5.16 | 5.36 | 0.00 |
| Heptachlor epoxide | 5.68 | 5.68 | 5.58 | 5.78 | 0.00 |
| Endosulfan I | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| Dieldrin | 6.35 | 6.35 | 6.25 | 6.45 | 0.01 |
| 4,4'-DDE | 6.19 | 6.19 | 6.09 | 6.29 | 0.00 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | 0.00 |
| Endosulfan II | 6.79 | 6.79 | 6.69 | 6.89 | 0.00 |
| 4,4'-DDD | 6.71 | 6.71 | 6.61 | 6.81 | 0.00 |
| Endosulfan sulfate | 7.16 | 7.16 | 7.06 | 7.26 | 0.00 |
| 4,4'-DDT | 7.02 | 7.02 | 6.92 | 7.12 | 0.00 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |
| Endrin ketone | 7.64 | 7.64 | 7.54 | 7.74 | 0.00 |
| Endrin aldehyde | 6.93 | 6.92 | 6.82 | 7.02 | -0.01 |
| alpha-Chlordane | 6.02 | 6.02 | 5.92 | 6.12 | 0.00 |
| gamma-Chlordane | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Continuing Calib Date:** 11/18/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 13:32 **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 |
| alpha-BHC | 3.28 | 3.28 | 3.18 | 3.38 | 0.00 |
| beta-BHC | 3.91 | 3.91 | 3.81 | 4.01 | 0.00 |
| delta-BHC | 4.14 | 4.14 | 4.04 | 4.24 | 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 |
| Aldrin | 4.23 | 4.23 | 4.13 | 4.33 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endosulfan I | 5.10 | 5.10 | 5.00 | 5.20 | 0.00 |
| Dieldrin | 5.36 | 5.37 | 5.27 | 5.47 | 0.01 |
| 4,4'-DDE | 5.23 | 5.24 | 5.14 | 5.34 | 0.01 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Endosulfan II | 5.94 | 5.94 | 5.84 | 6.04 | 0.01 |
| 4,4'-DDD | 5.79 | 5.79 | 5.69 | 5.89 | 0.00 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 4,4'-DDT | 6.04 | 6.04 | 5.94 | 6.14 | 0.00 |
| Methoxychlor | 6.61 | 6.62 | 6.52 | 6.72 | 0.01 |
| Endrin ketone | 6.84 | 6.84 | 6.74 | 6.94 | 0.00 |
| Endrin aldehyde | 6.11 | 6.12 | 6.02 | 6.22 | 0.01 |
| alpha-Chlordane | 5.04 | 5.05 | 4.95 | 5.15 | 0.01 |
| gamma-Chlordane | 4.98 | 4.98 | 4.88 | 5.08 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/18/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093112.D **Time Analyzed:** 13:32

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.710 | 6.610 | 6.810 | 50.310 | 50.000 | 0.6 |
| 4,4'-DDE | 6.192 | 6.093 | 6.293 | 49.210 | 50.000 | -1.6 |
| 4,4'-DDT | 7.024 | 6.923 | 7.123 | 45.840 | 50.000 | -8.3 |
| Aldrin | 5.258 | 5.158 | 5.358 | 48.420 | 50.000 | -3.2 |
| alpha-BHC | 3.995 | 3.896 | 4.096 | 50.940 | 50.000 | 1.9 |
| alpha-Chlordane | 6.019 | 5.919 | 6.119 | 47.550 | 50.000 | -4.9 |
| beta-BHC | 4.525 | 4.425 | 4.625 | 50.170 | 50.000 | 0.3 |
| Decachlorobiphenyl | 9.057 | 8.954 | 9.154 | 46.500 | 50.000 | -7.0 |
| delta-BHC | 4.772 | 4.672 | 4.872 | 50.200 | 50.000 | 0.4 |
| Dieldrin | 6.345 | 6.245 | 6.445 | 47.660 | 50.000 | -4.7 |
| Endosulfan I | 6.070 | 5.970 | 6.170 | 47.610 | 50.000 | -4.8 |
| Endosulfan II | 6.794 | 6.694 | 6.894 | 45.770 | 50.000 | -8.5 |
| Endosulfan sulfate | 7.159 | 7.058 | 7.258 | 46.860 | 50.000 | -6.3 |
| Endrin | 6.575 | 6.474 | 6.674 | 47.010 | 50.000 | -6.0 |
| Endrin aldehyde | 6.925 | 6.824 | 7.024 | 46.630 | 50.000 | -6.7 |
| Endrin ketone | 7.644 | 7.543 | 7.743 | 47.200 | 50.000 | -5.6 |
| gamma-BHC (Lindane) | 4.327 | 4.228 | 4.428 | 50.430 | 50.000 | 0.9 |
| gamma-Chlordane | 5.940 | 5.841 | 6.041 | 46.810 | 50.000 | -6.4 |
| Heptachlor | 4.916 | 4.817 | 5.017 | 48.620 | 50.000 | -2.8 |
| Heptachlor epoxide | 5.684 | 5.584 | 5.784 | 48.080 | 50.000 | -3.8 |
| Methoxychlor | 7.501 | 7.399 | 7.599 | 46.550 | 50.000 | -6.9 |
| Tetrachloro-m-xylene | 3.539 | 3.440 | 3.640 | 50.600 | 50.000 | 1.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/18/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093112.D **Time Analyzed:** 13:32

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.788 | 5.689 | 5.889 | 58.030 | 50.000 | 16.1 |
| 4,4'-DDE | 5.233 | 5.135 | 5.335 | 55.620 | 50.000 | 11.2 |
| 4,4'-DDT | 6.039 | 5.940 | 6.140 | 52.430 | 50.000 | 4.9 |
| Aldrin | 4.228 | 4.129 | 4.329 | 54.850 | 50.000 | 9.7 |
| alpha-BHC | 3.280 | 3.181 | 3.381 | 54.620 | 50.000 | 9.2 |
| alpha-Chlordane | 5.044 | 4.945 | 5.145 | 54.410 | 50.000 | 8.8 |
| beta-BHC | 3.909 | 3.810 | 4.010 | 53.680 | 50.000 | 7.4 |
| Decachlorobiphenyl | 7.916 | 7.816 | 8.016 | 49.310 | 50.000 | -1.4 |
| delta-BHC | 4.138 | 4.039 | 4.239 | 55.290 | 50.000 | 10.6 |
| Dieldrin | 5.364 | 5.266 | 5.466 | 55.070 | 50.000 | 10.1 |
| Endosulfan I | 5.100 | 5.002 | 5.202 | 54.510 | 50.000 | 9.0 |
| Endosulfan II | 5.935 | 5.836 | 6.036 | 55.080 | 50.000 | 10.2 |
| Endosulfan sulfate | 6.338 | 6.238 | 6.438 | 54.170 | 50.000 | 8.3 |
| Endrin | 5.640 | 5.541 | 5.741 | 54.960 | 50.000 | 9.9 |
| Endrin aldehyde | 6.114 | 6.015 | 6.215 | 53.070 | 50.000 | 6.1 |
| Endrin ketone | 6.843 | 6.743 | 6.943 | 53.870 | 50.000 | 7.7 |
| gamma-BHC (Lindane) | 3.610 | 3.511 | 3.711 | 54.390 | 50.000 | 8.8 |
| gamma-Chlordane | 4.981 | 4.882 | 5.082 | 55.500 | 50.000 | 11.0 |
| Heptachlor | 3.949 | 3.849 | 4.049 | 53.560 | 50.000 | 7.1 |
| Heptachlor epoxide | 4.731 | 4.632 | 4.832 | 54.300 | 50.000 | 8.6 |
| Methoxychlor | 6.614 | 6.515 | 6.715 | 51.800 | 50.000 | 3.6 |
| Tetrachloro-m-xylene | 2.777 | 2.678 | 2.878 | 52.890 | 50.000 | 5.8 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Continuing Calib Date:** 11/18/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 18:21 **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 |
| alpha-BHC | 4.00 | 4.00 | 3.90 | 4.10 | 0.01 |
| beta-BHC | 4.53 | 4.53 | 4.43 | 4.63 | 0.00 |
| delta-BHC | 4.77 | 4.77 | 4.67 | 4.87 | 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 |
| Aldrin | 5.26 | 5.26 | 5.16 | 5.36 | 0.00 |
| Heptachlor epoxide | 5.68 | 5.68 | 5.58 | 5.78 | 0.00 |
| Endosulfan I | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| Dieldrin | 6.35 | 6.35 | 6.25 | 6.45 | 0.01 |
| 4,4'-DDE | 6.19 | 6.19 | 6.09 | 6.29 | 0.00 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | 0.00 |
| Endosulfan II | 6.80 | 6.79 | 6.69 | 6.89 | -0.01 |
| 4,4'-DDD | 6.71 | 6.71 | 6.61 | 6.81 | 0.00 |
| Endosulfan sulfate | 7.16 | 7.16 | 7.06 | 7.26 | 0.00 |
| 4,4'-DDT | 7.03 | 7.02 | 6.92 | 7.12 | -0.01 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |
| Endrin ketone | 7.64 | 7.64 | 7.54 | 7.74 | 0.00 |
| Endrin aldehyde | 6.93 | 6.92 | 6.82 | 7.02 | -0.01 |
| alpha-Chlordane | 6.02 | 6.02 | 5.92 | 6.12 | 0.00 |
| gamma-Chlordane | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Continuing Calib Date:** 11/18/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 18:21 **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 | 2.78 | 2.78 | 2.68 | 2.88 | 0.00 |
| alpha-BHC | 3.28 | 3.28 | 3.18 | 3.38 | 0.00 |
| beta-BHC | 3.91 | 3.91 | 3.81 | 4.01 | 0.00 |
| delta-BHC | 4.14 | 4.14 | 4.04 | 4.24 | 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 |
| Aldrin | 4.23 | 4.23 | 4.13 | 4.33 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endosulfan I | 5.10 | 5.10 | 5.00 | 5.20 | 0.00 |
| Dieldrin | 5.37 | 5.37 | 5.27 | 5.47 | 0.01 |
| 4,4'-DDE | 5.23 | 5.24 | 5.14 | 5.34 | 0.01 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Endosulfan II | 5.94 | 5.94 | 5.84 | 6.04 | 0.01 |
| 4,4'-DDD | 5.79 | 5.79 | 5.69 | 5.89 | 0.00 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 4,4'-DDT | 6.04 | 6.04 | 5.94 | 6.14 | 0.00 |
| Methoxychlor | 6.61 | 6.62 | 6.52 | 6.72 | 0.01 |
| Endrin ketone | 6.84 | 6.84 | 6.74 | 6.94 | 0.00 |
| Endrin aldehyde | 6.12 | 6.12 | 6.02 | 6.22 | 0.01 |
| alpha-Chlordane | 5.05 | 5.05 | 4.95 | 5.15 | 0.00 |
| gamma-Chlordane | 4.98 | 4.98 | 4.88 | 5.08 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL03 **Date Analyzed:** 11/18/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093134.D **Time Analyzed:** 18:21

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.711 | 6.610 | 6.810 | 53.610 | 50.000 | 7.2 |
| 4,4'-DDE | 6.193 | 6.093 | 6.293 | 49.370 | 50.000 | -1.3 |
| 4,4'-DDT | 7.025 | 6.923 | 7.123 | 41.650 | 50.000 | -16.7 |
| Aldrin | 5.258 | 5.158 | 5.358 | 48.800 | 50.000 | -2.4 |
| alpha-BHC | 3.995 | 3.896 | 4.096 | 51.090 | 50.000 | 2.2 |
| alpha-Chlordane | 6.020 | 5.919 | 6.119 | 47.920 | 50.000 | -4.2 |
| beta-BHC | 4.526 | 4.425 | 4.625 | 50.040 | 50.000 | 0.1 |
| Decachlorobiphenyl | 9.056 | 8.954 | 9.154 | 46.980 | 50.000 | -6.0 |
| delta-BHC | 4.773 | 4.672 | 4.872 | 50.750 | 50.000 | 1.5 |
| Dieldrin | 6.345 | 6.245 | 6.445 | 47.910 | 50.000 | -4.2 |
| Endosulfan I | 6.070 | 5.970 | 6.170 | 47.810 | 50.000 | -4.4 |
| Endosulfan II | 6.795 | 6.694 | 6.894 | 46.520 | 50.000 | -7.0 |
| Endosulfan sulfate | 7.159 | 7.058 | 7.258 | 47.130 | 50.000 | -5.7 |
| Endrin | 6.575 | 6.474 | 6.674 | 45.630 | 50.000 | -8.7 |
| Endrin aldehyde | 6.925 | 6.824 | 7.024 | 46.780 | 50.000 | -6.4 |
| Endrin ketone | 7.644 | 7.543 | 7.743 | 48.130 | 50.000 | -3.7 |
| gamma-BHC (Lindane) | 4.328 | 4.228 | 4.428 | 50.460 | 50.000 | 0.9 |
| gamma-Chlordane | 5.941 | 5.841 | 6.041 | 47.340 | 50.000 | -5.3 |
| Heptachlor | 4.916 | 4.817 | 5.017 | 48.170 | 50.000 | -3.7 |
| Heptachlor epoxide | 5.684 | 5.584 | 5.784 | 48.220 | 50.000 | -3.6 |
| Methoxychlor | 7.500 | 7.399 | 7.599 | 42.500 | 50.000 | -15.0 |
| Tetrachloro-m-xylene | 3.540 | 3.440 | 3.640 | 49.920 | 50.000 | -0.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL03 **Date Analyzed:** 11/18/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093134.D **Time Analyzed:** 18:21

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.789 | 5.689 | 5.889 | 62.250 | 50.000 | 24.5 |
| 4,4'-DDE | 5.234 | 5.135 | 5.335 | 57.220 | 50.000 | 14.4 |
| 4,4'-DDT | 6.039 | 5.940 | 6.140 | 47.680 | 50.000 | -4.6 |
| Aldrin | 4.229 | 4.129 | 4.329 | 56.030 | 50.000 | 12.1 |
| alpha-BHC | 3.280 | 3.181 | 3.381 | 55.470 | 50.000 | 10.9 |
| alpha-Chlordane | 5.045 | 4.945 | 5.145 | 55.700 | 50.000 | 11.4 |
| beta-BHC | 3.910 | 3.810 | 4.010 | 54.670 | 50.000 | 9.3 |
| Decachlorobiphenyl | 7.915 | 7.816 | 8.016 | 51.160 | 50.000 | 2.3 |
| delta-BHC | 4.139 | 4.039 | 4.239 | 56.510 | 50.000 | 13.0 |
| Dieldrin | 5.365 | 5.266 | 5.466 | 56.060 | 50.000 | 12.1 |
| Endosulfan I | 5.101 | 5.002 | 5.202 | 55.400 | 50.000 | 10.8 |
| Endosulfan II | 5.935 | 5.836 | 6.036 | 56.100 | 50.000 | 12.2 |
| Endosulfan sulfate | 6.338 | 6.238 | 6.438 | 55.180 | 50.000 | 10.4 |
| Endrin | 5.641 | 5.541 | 5.741 | 53.880 | 50.000 | 7.8 |
| Endrin aldehyde | 6.115 | 6.015 | 6.215 | 55.000 | 50.000 | 10.0 |
| Endrin ketone | 6.843 | 6.743 | 6.943 | 55.880 | 50.000 | 11.8 |
| gamma-BHC (Lindane) | 3.610 | 3.511 | 3.711 | 55.180 | 50.000 | 10.4 |
| gamma-Chlordane | 4.981 | 4.882 | 5.082 | 56.740 | 50.000 | 13.5 |
| Heptachlor | 3.949 | 3.849 | 4.049 | 53.770 | 50.000 | 7.5 |
| Heptachlor epoxide | 4.731 | 4.632 | 4.832 | 55.490 | 50.000 | 11.0 |
| Methoxychlor | 6.614 | 6.515 | 6.715 | 48.760 | 50.000 | -2.5 |
| Tetrachloro-m-xylene | 2.778 | 2.678 | 2.878 | 53.760 | 50.000 | 7.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Continuing Calib Date:** 11/19/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 13:25 **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 |
| alpha-BHC | 4.00 | 4.00 | 3.90 | 4.10 | 0.01 |
| beta-BHC | 4.53 | 4.53 | 4.43 | 4.63 | 0.00 |
| delta-BHC | 4.77 | 4.77 | 4.67 | 4.87 | 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 |
| Aldrin | 5.26 | 5.26 | 5.16 | 5.36 | 0.00 |
| Heptachlor epoxide | 5.68 | 5.68 | 5.58 | 5.78 | 0.00 |
| Endosulfan I | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| Dieldrin | 6.35 | 6.35 | 6.25 | 6.45 | 0.01 |
| 4,4'-DDE | 6.19 | 6.19 | 6.09 | 6.29 | 0.00 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | 0.00 |
| Endosulfan II | 6.79 | 6.79 | 6.69 | 6.89 | 0.00 |
| 4,4'-DDD | 6.71 | 6.71 | 6.61 | 6.81 | 0.00 |
| Endosulfan sulfate | 7.16 | 7.16 | 7.06 | 7.26 | 0.00 |
| 4,4'-DDT | 7.02 | 7.02 | 6.92 | 7.12 | 0.00 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |
| Endrin ketone | 7.64 | 7.64 | 7.54 | 7.74 | 0.00 |
| Endrin aldehyde | 6.92 | 6.92 | 6.82 | 7.02 | 0.00 |
| alpha-Chlordane | 6.02 | 6.02 | 5.92 | 6.12 | 0.00 |
| gamma-Chlordane | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Continuing Calib Date:** 11/19/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 13:25 **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 |
| alpha-BHC | 3.28 | 3.28 | 3.18 | 3.38 | 0.00 |
| beta-BHC | 3.91 | 3.91 | 3.81 | 4.01 | 0.00 |
| delta-BHC | 4.14 | 4.14 | 4.04 | 4.24 | 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 |
| Aldrin | 4.23 | 4.23 | 4.13 | 4.33 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endosulfan I | 5.10 | 5.10 | 5.00 | 5.20 | 0.00 |
| Dieldrin | 5.36 | 5.37 | 5.27 | 5.47 | 0.01 |
| 4,4'-DDE | 5.23 | 5.24 | 5.14 | 5.34 | 0.01 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Endosulfan II | 5.93 | 5.94 | 5.84 | 6.04 | 0.01 |
| 4,4'-DDD | 5.79 | 5.79 | 5.69 | 5.89 | 0.00 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 4,4'-DDT | 6.04 | 6.04 | 5.94 | 6.14 | 0.00 |
| Methoxychlor | 6.61 | 6.62 | 6.52 | 6.72 | 0.01 |
| Endrin ketone | 6.84 | 6.84 | 6.74 | 6.94 | 0.00 |
| Endrin aldehyde | 6.11 | 6.12 | 6.02 | 6.22 | 0.01 |
| alpha-Chlordane | 5.04 | 5.05 | 4.95 | 5.15 | 0.01 |
| gamma-Chlordane | 4.98 | 4.98 | 4.88 | 5.08 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL04 **Date Analyzed:** 11/19/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093138.D **Time Analyzed:** 13:25

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.709 | 6.610 | 6.810 | 45.790 | 50.000 | -8.4 |
| 4,4'-DDE | 6.192 | 6.093 | 6.293 | 47.570 | 50.000 | -4.9 |
| 4,4'-DDT | 7.024 | 6.923 | 7.123 | 46.490 | 50.000 | -7.0 |
| Aldrin | 5.258 | 5.158 | 5.358 | 48.710 | 50.000 | -2.6 |
| alpha-BHC | 3.995 | 3.896 | 4.096 | 52.100 | 50.000 | 4.2 |
| alpha-Chlordane | 6.019 | 5.919 | 6.119 | 47.060 | 50.000 | -5.9 |
| beta-BHC | 4.525 | 4.425 | 4.625 | 49.340 | 50.000 | -1.3 |
| Decachlorobiphenyl | 9.056 | 8.954 | 9.154 | 43.770 | 50.000 | -12.5 |
| delta-BHC | 4.772 | 4.672 | 4.872 | 50.420 | 50.000 | 0.8 |
| Dieldrin | 6.345 | 6.245 | 6.445 | 47.480 | 50.000 | -5.0 |
| Endosulfan I | 6.069 | 5.970 | 6.170 | 46.570 | 50.000 | -6.9 |
| Endosulfan II | 6.794 | 6.694 | 6.894 | 44.550 | 50.000 | -10.9 |
| Endosulfan sulfate | 7.159 | 7.058 | 7.258 | 45.380 | 50.000 | -9.2 |
| Endrin | 6.575 | 6.474 | 6.674 | 45.130 | 50.000 | -9.7 |
| Endrin aldehyde | 6.924 | 6.824 | 7.024 | 45.920 | 50.000 | -8.2 |
| Endrin ketone | 7.644 | 7.543 | 7.743 | 46.100 | 50.000 | -7.8 |
| gamma-BHC (Lindane) | 4.327 | 4.228 | 4.428 | 50.340 | 50.000 | 0.7 |
| gamma-Chlordane | 5.940 | 5.841 | 6.041 | 46.560 | 50.000 | -6.9 |
| Heptachlor | 4.916 | 4.817 | 5.017 | 49.110 | 50.000 | -1.8 |
| Heptachlor epoxide | 5.684 | 5.584 | 5.784 | 46.940 | 50.000 | -6.1 |
| Methoxychlor | 7.500 | 7.399 | 7.599 | 45.290 | 50.000 | -9.4 |
| Tetrachloro-m-xylene | 3.539 | 3.440 | 3.640 | 51.060 | 50.000 | 2.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL04 **Date Analyzed:** 11/19/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093138.D **Time Analyzed:** 13:25

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.787 | 5.689 | 5.889 | 52.500 | 50.000 | 5.0 |
| 4,4'-DDE | 5.231 | 5.135 | 5.335 | 52.590 | 50.000 | 5.2 |
| 4,4'-DDT | 6.036 | 5.940 | 6.140 | 50.050 | 50.000 | 0.1 |
| Aldrin | 4.226 | 4.129 | 4.329 | 52.610 | 50.000 | 5.2 |
| alpha-BHC | 3.277 | 3.181 | 3.381 | 53.410 | 50.000 | 6.8 |
| alpha-Chlordane | 5.043 | 4.945 | 5.145 | 51.220 | 50.000 | 2.4 |
| beta-BHC | 3.907 | 3.810 | 4.010 | 51.690 | 50.000 | 3.4 |
| Decachlorobiphenyl | 7.914 | 7.816 | 8.016 | 48.190 | 50.000 | -3.6 |
| delta-BHC | 4.136 | 4.039 | 4.239 | 53.730 | 50.000 | 7.5 |
| Dieldrin | 5.363 | 5.266 | 5.466 | 52.190 | 50.000 | 4.4 |
| Endosulfan I | 5.099 | 5.002 | 5.202 | 51.370 | 50.000 | 2.7 |
| Endosulfan II | 5.932 | 5.836 | 6.036 | 51.590 | 50.000 | 3.2 |
| Endosulfan sulfate | 6.336 | 6.238 | 6.438 | 50.980 | 50.000 | 2.0 |
| Endrin | 5.638 | 5.541 | 5.741 | 53.440 | 50.000 | 6.9 |
| Endrin aldehyde | 6.113 | 6.015 | 6.215 | 50.540 | 50.000 | 1.1 |
| Endrin ketone | 6.841 | 6.743 | 6.943 | 50.580 | 50.000 | 1.2 |
| gamma-BHC (Lindane) | 3.607 | 3.511 | 3.711 | 53.150 | 50.000 | 6.3 |
| gamma-Chlordane | 4.979 | 4.882 | 5.082 | 50.660 | 50.000 | 1.3 |
| Heptachlor | 3.946 | 3.849 | 4.049 | 52.170 | 50.000 | 4.3 |
| Heptachlor epoxide | 4.729 | 4.632 | 4.832 | 51.800 | 50.000 | 3.6 |
| Methoxychlor | 6.612 | 6.515 | 6.715 | 51.180 | 50.000 | 2.4 |
| Tetrachloro-m-xylene | 2.774 | 2.678 | 2.878 | 51.910 | 50.000 | 3.8 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Continuing Calib Date:** 11/19/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 16:56 **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 |
| alpha-BHC | 3.99 | 4.00 | 3.90 | 4.10 | 0.01 |
| beta-BHC | 4.52 | 4.53 | 4.43 | 4.63 | 0.01 |
| delta-BHC | 4.77 | 4.77 | 4.67 | 4.87 | 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 |
| Aldrin | 5.25 | 5.26 | 5.16 | 5.36 | 0.01 |
| Heptachlor epoxide | 5.68 | 5.68 | 5.58 | 5.78 | 0.00 |
| Endosulfan I | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| Dieldrin | 6.34 | 6.35 | 6.25 | 6.45 | 0.01 |
| 4,4'-DDE | 6.19 | 6.19 | 6.09 | 6.29 | 0.00 |
| Endrin | 6.57 | 6.57 | 6.47 | 6.67 | 0.00 |
| Endosulfan II | 6.79 | 6.79 | 6.69 | 6.89 | 0.00 |
| 4,4'-DDD | 6.71 | 6.71 | 6.61 | 6.81 | 0.00 |
| Endosulfan sulfate | 7.16 | 7.16 | 7.06 | 7.26 | 0.00 |
| 4,4'-DDT | 7.02 | 7.02 | 6.92 | 7.12 | 0.00 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |
| Endrin ketone | 7.64 | 7.64 | 7.54 | 7.74 | 0.00 |
| Endrin aldehyde | 6.92 | 6.92 | 6.82 | 7.02 | 0.00 |
| alpha-Chlordane | 6.02 | 6.02 | 5.92 | 6.12 | 0.00 |
| gamma-Chlordane | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Continuing Calib Date:** 11/19/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 16:56 **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 |
| alpha-BHC | 3.28 | 3.28 | 3.18 | 3.38 | 0.00 |
| beta-BHC | 3.91 | 3.91 | 3.81 | 4.01 | 0.00 |
| delta-BHC | 4.14 | 4.14 | 4.04 | 4.24 | 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 |
| Aldrin | 4.23 | 4.23 | 4.13 | 4.33 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endosulfan I | 5.10 | 5.10 | 5.00 | 5.20 | 0.00 |
| Dieldrin | 5.36 | 5.37 | 5.27 | 5.47 | 0.01 |
| 4,4'-DDE | 5.23 | 5.24 | 5.14 | 5.34 | 0.01 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Endosulfan II | 5.93 | 5.94 | 5.84 | 6.04 | 0.01 |
| 4,4'-DDD | 5.79 | 5.79 | 5.69 | 5.89 | 0.01 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 4,4'-DDT | 6.04 | 6.04 | 5.94 | 6.14 | 0.00 |
| Methoxychlor | 6.61 | 6.62 | 6.52 | 6.72 | 0.01 |
| Endrin ketone | 6.84 | 6.84 | 6.74 | 6.94 | 0.00 |
| Endrin aldehyde | 6.11 | 6.12 | 6.02 | 6.22 | 0.01 |
| alpha-Chlordane | 5.04 | 5.05 | 4.95 | 5.15 | 0.01 |
| gamma-Chlordane | 4.98 | 4.98 | 4.88 | 5.08 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL05 **Date Analyzed:** 11/19/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093153.D **Time Analyzed:** 16:56

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.708 | 6.610 | 6.810 | 49.630 | 50.000 | -0.7 |
| 4,4'-DDE | 6.190 | 6.093 | 6.293 | 50.810 | 50.000 | 1.6 |
| 4,4'-DDT | 7.023 | 6.923 | 7.123 | 48.210 | 50.000 | -3.6 |
| Aldrin | 5.254 | 5.158 | 5.358 | 50.970 | 50.000 | 1.9 |
| alpha-BHC | 3.993 | 3.896 | 4.096 | 55.020 | 50.000 | 10.0 |
| alpha-Chlordane | 6.017 | 5.919 | 6.119 | 49.550 | 50.000 | -0.9 |
| beta-BHC | 4.523 | 4.425 | 4.625 | 52.220 | 50.000 | 4.4 |
| Decachlorobiphenyl | 9.055 | 8.954 | 9.154 | 47.550 | 50.000 | -4.9 |
| delta-BHC | 4.770 | 4.672 | 4.872 | 53.710 | 50.000 | 7.4 |
| Dieldrin | 6.343 | 6.245 | 6.445 | 49.810 | 50.000 | -0.4 |
| Endosulfan I | 6.068 | 5.970 | 6.170 | 49.630 | 50.000 | -0.7 |
| Endosulfan II | 6.793 | 6.694 | 6.894 | 47.090 | 50.000 | -5.8 |
| Endosulfan sulfate | 7.157 | 7.058 | 7.258 | 48.270 | 50.000 | -3.5 |
| Endrin | 6.573 | 6.474 | 6.674 | 48.970 | 50.000 | -2.1 |
| Endrin aldehyde | 6.923 | 6.824 | 7.024 | 48.760 | 50.000 | -2.5 |
| Endrin ketone | 7.642 | 7.543 | 7.743 | 49.330 | 50.000 | -1.3 |
| gamma-BHC (Lindane) | 4.325 | 4.228 | 4.428 | 54.230 | 50.000 | 8.5 |
| gamma-Chlordane | 5.937 | 5.841 | 6.041 | 49.120 | 50.000 | -1.8 |
| Heptachlor | 4.914 | 4.817 | 5.017 | 51.440 | 50.000 | 2.9 |
| Heptachlor epoxide | 5.682 | 5.584 | 5.784 | 49.830 | 50.000 | -0.3 |
| Methoxychlor | 7.499 | 7.399 | 7.599 | 47.670 | 50.000 | -4.7 |
| Tetrachloro-m-xylene | 3.536 | 3.440 | 3.640 | 54.430 | 50.000 | 8.9 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL05 **Date Analyzed:** 11/19/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL093153.D **Time Analyzed:** 16:56

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.785 | 5.689 | 5.889 | 59.680 | 50.000 | 19.4 |
| 4,4'-DDE | 5.231 | 5.135 | 5.335 | 57.660 | 50.000 | 15.3 |
| 4,4'-DDT | 6.037 | 5.940 | 6.140 | 54.740 | 50.000 | 9.5 |
| Aldrin | 4.226 | 4.129 | 4.329 | 56.620 | 50.000 | 13.2 |
| alpha-BHC | 3.277 | 3.181 | 3.381 | 56.930 | 50.000 | 13.9 |
| alpha-Chlordane | 5.042 | 4.945 | 5.145 | 55.820 | 50.000 | 11.6 |
| beta-BHC | 3.907 | 3.810 | 4.010 | 55.370 | 50.000 | 10.7 |
| Decachlorobiphenyl | 7.914 | 7.816 | 8.016 | 53.650 | 50.000 | 7.3 |
| delta-BHC | 4.136 | 4.039 | 4.239 | 57.740 | 50.000 | 15.5 |
| Dieldrin | 5.363 | 5.266 | 5.466 | 56.790 | 50.000 | 13.6 |
| Endosulfan I | 5.098 | 5.002 | 5.202 | 54.140 | 50.000 | 8.3 |
| Endosulfan II | 5.933 | 5.836 | 6.036 | 57.070 | 50.000 | 14.1 |
| Endosulfan sulfate | 6.336 | 6.238 | 6.438 | 56.150 | 50.000 | 12.3 |
| Endrin | 5.639 | 5.541 | 5.741 | 56.930 | 50.000 | 13.9 |
| Endrin aldehyde | 6.112 | 6.015 | 6.215 | 55.770 | 50.000 | 11.5 |
| Endrin ketone | 6.841 | 6.743 | 6.943 | 56.500 | 50.000 | 13.0 |
| gamma-BHC (Lindane) | 3.608 | 3.511 | 3.711 | 56.860 | 50.000 | 13.7 |
| gamma-Chlordane | 4.979 | 4.882 | 5.082 | 56.520 | 50.000 | 13.0 |
| Heptachlor | 3.946 | 3.849 | 4.049 | 55.570 | 50.000 | 11.1 |
| Heptachlor epoxide | 4.729 | 4.632 | 4.832 | 56.070 | 50.000 | 12.1 |
| Methoxychlor | 6.613 | 6.515 | 6.715 | 55.250 | 50.000 | 10.5 |
| Tetrachloro-m-xylene | 2.774 | 2.678 | 2.878 | 55.330 | 50.000 | 10.7 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL093099.D **Date Analyzed:** 11/18/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 09:46

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.057 | 8.960 | 9.160 | 19.600 | 20.000 | -2.0 |
| Tetrachloro-m-xylene | 3.540 | 3.490 | 3.590 | 21.120 | 20.000 | 5.6 |
| alpha-BHC | 3.995 | 3.940 | 4.050 | 10.880 | 10.000 | 8.8 |
| beta-BHC | 4.526 | 4.480 | 4.580 | 11.210 | 10.000 | 12.1 |
| gamma-BHC (Lindane) | 4.328 | 4.280 | 4.380 | 10.580 | 10.000 | 5.8 |
| Endrin | 6.574 | 6.500 | 6.640 | 43.140 | 50.000 | -13.7 |
| 4,4'-DDT | 7.026 | 6.960 | 7.100 | 87.940 | 100.000 | -12.1 |
| Methoxychlor | 7.502 | 7.430 | 7.570 | 204.340 | 250.000 | -18.3 |

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL093099.D **Date Analyzed:** 11/18/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 09:46

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.915 | 7.810 | 8.020 | 19.130 | 20.000 | -4.4 |
| Tetrachloro-m-xylene | 2.777 | 2.730 | 2.830 | 20.500 | 20.000 | 2.5 |
| alpha-BHC | 3.279 | 3.230 | 3.330 | 9.980 | 10.000 | -0.2 |
| beta-BHC | 3.909 | 3.860 | 3.960 | 11.030 | 10.000 | 10.3 |
| gamma-BHC (Lindane) | 3.610 | 3.560 | 3.660 | 9.620 | 10.000 | -3.8 |
| Endrin | 5.641 | 5.570 | 5.710 | 50.120 | 50.000 | 0.2 |
| 4,4'-DDT | 6.039 | 5.970 | 6.110 | 107.970 | 100.000 | 8.0 |
| Methoxychlor | 6.614 | 6.540 | 6.680 | 232.330 | 250.000 | -7.1 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL093111.D **Date Analyzed:** 11/18/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 13:19

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.056 | 8.960 | 9.160 | 19.590 | 20.000 | -2.1 |
| Tetrachloro-m-xylene | 3.539 | 3.490 | 3.590 | 21.050 | 20.000 | 5.3 |
| alpha-BHC | 3.994 | 3.940 | 4.040 | 10.790 | 10.000 | 7.9 |
| beta-BHC | 4.525 | 4.470 | 4.580 | 11.350 | 10.000 | 13.5 |
| gamma-BHC (Lindane) | 4.327 | 4.280 | 4.380 | 10.510 | 10.000 | 5.1 |
| Endrin | 6.573 | 6.500 | 6.640 | 42.900 | 50.000 | -14.2 |
| 4,4'-DDT | 7.024 | 6.950 | 7.090 | 86.130 | 100.000 | -13.9 |
| Methoxychlor | 7.501 | 7.430 | 7.570 | 203.180 | 250.000 | -18.7 |

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL093111.D **Date Analyzed:** 11/18/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 13:19

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.915 | 7.810 | 8.020 | 19.480 | 20.000 | -2.6 |
| Tetrachloro-m-xylene | 2.777 | 2.730 | 2.830 | 20.570 | 20.000 | 2.9 |
| alpha-BHC | 3.279 | 3.230 | 3.330 | 9.860 | 10.000 | -1.4 |
| beta-BHC | 3.909 | 3.860 | 3.960 | 10.850 | 10.000 | 8.5 |
| gamma-BHC (Lindane) | 3.609 | 3.560 | 3.660 | 9.470 | 10.000 | -5.3 |
| Endrin | 5.640 | 5.570 | 5.710 | 49.940 | 50.000 | -0.1 |
| 4,4'-DDT | 6.038 | 5.970 | 6.110 | 106.700 | 100.000 | 6.7 |
| Methoxychlor | 6.614 | 6.540 | 6.680 | 238.650 | 250.000 | -4.5 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL093137.D **Date Analyzed:** 11/19/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 12:57

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.054 | 8.950 | 9.150 | 15.450 | 20.000 | -22.8 |
| Tetrachloro-m-xylene | 3.536 | 3.490 | 3.590 | 19.640 | 20.000 | -1.8 |
| alpha-BHC | 3.992 | 3.940 | 4.040 | 9.820 | 10.000 | -1.8 |
| beta-BHC | 4.523 | 4.470 | 4.570 | 9.780 | 10.000 | -2.2 |
| gamma-BHC (Lindane) | 4.325 | 4.270 | 4.380 | 10.650 | 10.000 | 6.5 |
| Endrin | 6.570 | 6.500 | 6.640 | 38.600 | 50.000 | -22.8 |
| 4,4'-DDT | 7.022 | 6.950 | 7.090 | 79.980 | 100.000 | -20.0 |
| Methoxychlor | 7.498 | 7.430 | 7.570 | 187.950 | 250.000 | -24.8 |

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL093137.D **Date Analyzed:** 11/19/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 12:57

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.913 | 7.810 | 8.010 | 17.000 | 20.000 | -15.0 |
| Tetrachloro-m-xylene | 2.773 | 2.720 | 2.820 | 18.680 | 20.000 | -6.6 |
| alpha-BHC | 3.276 | 3.230 | 3.330 | 8.980 | 10.000 | -10.2 |
| beta-BHC | 3.906 | 3.860 | 3.960 | 9.620 | 10.000 | -3.8 |
| gamma-BHC (Lindane) | 3.606 | 3.560 | 3.660 | 8.600 | 10.000 | -14.0 |
| Endrin | 5.638 | 5.570 | 5.710 | 44.820 | 50.000 | -10.4 |
| 4,4'-DDT | 6.035 | 5.960 | 6.110 | 92.760 | 100.000 | -7.2 |
| Methoxychlor | 6.612 | 6.540 | 6.680 | 221.790 | 250.000 | -11.3 |

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# Analytical Sequence

**Client:** Tetra Tech **SDG No.:** P4860

**Project:** Ocean County Landfill 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 | 11/18/2024 | 09:32 | PL093098.D | 9.06 | 3.54 |
| PEM | PEM | 11/18/2024 | 09:46 | PL093099.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/18/2024 | 09:59 | PL093100.D | 9.06 | 3.54 |
| PH2-BOT-002 | P4860-03 | 11/18/2024 | 12:26 | PL093107.D | 9.06 | 3.54 |
| PH2-BOT-003 | P4860-04 | 11/18/2024 | 12:39 | PL093108.D | 9.05 | 3.54 |
| PH2-BOT-004 | P4860-05 | 11/18/2024 | 12:52 | PL093109.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 11/18/2024 | 13:05 | PL093110.D | 9.06 | 3.54 |
| PEM | PEM | 11/18/2024 | 13:19 | PL093111.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/18/2024 | 13:32 | PL093112.D | 9.06 | 3.54 |
| PH2-BOT-009 | P4860-06 | 11/18/2024 | 13:45 | PL093113.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 11/18/2024 | 18:08 | PL093133.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/18/2024 | 18:21 | PL093134.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 11/19/2024 | 12:44 | PL093136.D | 9.05 | 3.54 |
| PEM | PEM | 11/19/2024 | 12:57 | PL093137.D | 9.05 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/19/2024 | 13:25 | PL093138.D | 9.06 | 3.54 |
| PB165046BS | PB165046BS | 11/19/2024 | 13:52 | PL093139.D | 9.05 | 3.54 |
| PB165046BL | PB165046BL | 11/19/2024 | 14:05 | PL093140.D | 9.05 | 3.54 |
| DUP-01 | P4860-01 | 11/19/2024 | 14:18 | PL093141.D | 9.05 | 3.54 |
| PH2-BOT-001 | P4860-02 | 11/19/2024 | 14:31 | PL093142.D | 9.05 | 3.53 |
| PH2-BOT-006 | P4860-09 | 11/19/2024 | 14:44 | PL093143.D | 9.05 | 3.53 |
| PH2-BOT-005 | P4860-10 | 11/19/2024 | 14:57 | PL093144.D | 9.05 | 3.53 |
| PH2-BOT-008 | P4860-07 | 11/19/2024 | 15:11 | PL093145.D | 9.05 | 3.54 |
| PH2-BOT-007 | P4860-08 | 11/19/2024 | 15:24 | PL093146.D | 9.05 | 3.53 |
| PH2-BOT-007MS | P4860-08MS | 11/19/2024 | 15:37 | PL093147.D | 9.05 | 3.53 |
| PH2-BOT-007MSD | P4860-08MSD | 11/19/2024 | 15:50 | PL093148.D | 9.05 | 3.53 |
| I.BLK | I.BLK | 11/19/2024 | 16:43 | PL093152.D | 9.05 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/19/2024 | 16:56 | PL093153.D | 9.06 | 3.54 |

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# Analytical Sequence

**Client:** Tetra Tech **SDG No.:** P4860

**Project:** Ocean County Landfill 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 | 11/18/2024 | 09:32 | PL093098.D | 7.92 | 2.78 |
| PEM | PEM | 11/18/2024 | 09:46 | PL093099.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 11/18/2024 | 09:59 | PL093100.D | 7.92 | 2.78 |
| PH2-BOT-002 | P4860-03 | 11/18/2024 | 12:26 | PL093107.D | 7.91 | 2.78 |
| PH2-BOT-003 | P4860-04 | 11/18/2024 | 12:39 | PL093108.D | 7.92 | 2.78 |
| PH2-BOT-004 | P4860-05 | 11/18/2024 | 12:52 | PL093109.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 11/18/2024 | 13:05 | PL093110.D | 7.92 | 2.78 |
| PEM | PEM | 11/18/2024 | 13:19 | PL093111.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 11/18/2024 | 13:32 | PL093112.D | 7.92 | 2.78 |
| PH2-BOT-009 | P4860-06 | 11/18/2024 | 13:45 | PL093113.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 11/18/2024 | 18:08 | PL093133.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 11/18/2024 | 18:21 | PL093134.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 11/19/2024 | 12:44 | PL093136.D | 7.91 | 2.77 |
| PEM | PEM | 11/19/2024 | 12:57 | PL093137.D | 7.91 | 2.77 |
| PSTDCCC050 | PSTDCCC050 | 11/19/2024 | 13:25 | PL093138.D | 7.91 | 2.77 |
| PB165046BS | PB165046BS | 11/19/2024 | 13:52 | PL093139.D | 7.91 | 2.77 |
| PB165046BL | PB165046BL | 11/19/2024 | 14:05 | PL093140.D | 7.91 | 2.77 |
| DUP-01 | P4860-01 | 11/19/2024 | 14:18 | PL093141.D | 7.91 | 2.77 |
| PH2-BOT-001 | P4860-02 | 11/19/2024 | 14:31 | PL093142.D | 7.91 | 2.77 |
| PH2-BOT-006 | P4860-09 | 11/19/2024 | 14:44 | PL093143.D | 7.91 | 2.77 |
| PH2-BOT-005 | P4860-10 | 11/19/2024 | 14:57 | PL093144.D | 7.91 | 2.77 |
| PH2-BOT-008 | P4860-07 | 11/19/2024 | 15:11 | PL093145.D | 7.91 | 2.77 |
| PH2-BOT-007 | P4860-08 | 11/19/2024 | 15:24 | PL093146.D | 7.91 | 2.77 |
| PH2-BOT-007MS | P4860-08MS | 11/19/2024 | 15:37 | PL093147.D | 7.91 | 2.77 |
| PH2-BOT-007MSD | P4860-08MSD | 11/19/2024 | 15:50 | PL093148.D | 7.91 | 2.77 |
| I.BLK | I.BLK | 11/19/2024 | 16:43 | PL093152.D | 7.91 | 2.77 |
| PSTDCCC050 | PSTDCCC050 | 11/19/2024 | 16:56 | PL093153.D | 7.91 | 2.77 |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**DUP-01**

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Lab Sample ID:** P4860-01 **Date(s) Analyzed:** 11/19/2024 11/19/2024

**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 |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 0.20 | 28.1 |
| | 2 | 5.79 | 5.74 | 5.84 | 0.26 | |
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 0.19 | 47.2 |
| | 2 | 5.23 | 5.18 | 5.28 | 0.31 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 0.37 | 60.9 |
| | 2 | 4.98 | 4.93 | 5.03 | 0.20 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**
**PB165046BS**

**Contract:** CORN02
**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860
**Lab Sample ID:** PB165046BS **Date(s) Analyzed:** 11/19/2024 11/19/2024
**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 | 15.4 | 12.2 |
| | 2 | 6.61 | 6.56 | 6.66 | 17.4 | |
| Endrin ketone | 1 | 7.64 | 7.59 | 7.69 | 15.5 | 9.8 |
| | 2 | 6.84 | 6.79 | 6.89 | 17.1 | |
| alpha-BHC | 1 | 3.99 | 3.94 | 4.04 | 16.7 | 1.8 |
| | 2 | 3.28 | 3.23 | 3.33 | 17.0 | |
| gamma-BHC (Lindane) | 1 | 4.32 | 4.27 | 4.37 | 16.2 | 3 |
| | 2 | 3.61 | 3.56 | 3.66 | 16.7 | |
| Heptachlor | 1 | 4.91 | 4.86 | 4.96 | 16.5 | 9.2 |
| | 2 | 3.95 | 3.90 | 4.00 | 18.1 | |
| Aldrin | 1 | 5.26 | 5.21 | 5.31 | 15.5 | 5.6 |
| | 2 | 4.23 | 4.18 | 4.28 | 16.4 | |
| beta-BHC | 1 | 4.52 | 4.47 | 4.57 | 16.2 | 5.4 |
| | 2 | 3.91 | 3.86 | 3.96 | 17.1 | |
| delta-BHC | 1 | 4.77 | 4.72 | 4.82 | 14.4 | 3.5 |
| | 2 | 4.14 | 4.09 | 4.19 | 13.9 | |
| Heptachlor epoxide | 1 | 5.68 | 5.63 | 5.73 | 15.5 | 9.2 |
| | 2 | 4.73 | 4.68 | 4.78 | 17.0 | |
| Endosulfan I | 1 | 6.07 | 6.02 | 6.12 | 15.9 | 10.7 |
| | 2 | 5.10 | 5.05 | 5.15 | 17.7 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 15.9 | 11.3 |
| | 2 | 4.98 | 4.93 | 5.03 | 17.8 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 16.1 | 9.5 |
| | 2 | 5.04 | 4.99 | 5.09 | 17.7 | |
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 16.2 | 11.1 |
| | 2 | 5.23 | 5.18 | 5.28 | 18.1 | |
| Dieldrin | 1 | 6.34 | 6.29 | 6.39 | 16.0 | 9.5 |
| | 2 | 5.36 | 5.31 | 5.41 | 17.6 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**
**PB165046BS**

**Contract:** CORN02
**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860
**Lab Sample ID:** PB165046BS **Date(s) Analyzed:** 11/19/2024 11/19/2024
**Instrument ID (1):** ECD_L **Instrument ID (2):** ECD_L
**GC Column: (1):** ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endrin | 1 | 6.57 | 6.52 | 6.62 | 15.6 | 18.1 |
| | 2 | 5.64 | 5.59 | 5.69 | 18.7 | |
| Endosulfan II | 1 | 6.79 | 6.74 | 6.84 | 15.2 | 15.8 |
| | 2 | 5.93 | 5.88 | 5.98 | 17.8 | |
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 15.6 | 14.8 |
| | 2 | 5.79 | 5.74 | 5.84 | 18.1 | |
| 4,4'-DDT | 1 | 7.02 | 6.97 | 7.07 | 16.4 | 7.1 |
| | 2 | 6.04 | 5.99 | 6.09 | 17.6 | |
| Endrin aldehyde | 1 | 6.92 | 6.87 | 6.97 | 15.0 | 11.3 |
| | 2 | 6.11 | 6.06 | 6.16 | 16.8 | |
| Endosulfan sulfate | 1 | 7.16 | 7.11 | 7.21 | 14.8 | 12.7 |
| | 2 | 6.34 | 6.29 | 6.39 | 16.8 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PH2-BOT-001**

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Lab Sample ID:** P4860-02 **Date(s) Analyzed:** 11/19/2024 11/19/2024

**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 |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 1.30 | 40.8 |
| | 2 | 5.79 | 5.74 | 5.84 | 0.86 | |
| 4,4'-DDT | 1 | 7.03 | 6.98 | 7.08 | 2.10 | 92.7 |
| | 2 | 6.03 | 5.98 | 6.08 | 0.77 | |
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 0.62 | 5.8 |
| | 2 | 5.23 | 5.18 | 5.28 | 0.58 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 6.50 | 102.3 |
| | 2 | 4.98 | 4.93 | 5.03 | 2.10 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 2.60 | 73.7 |
| | 2 | 5.04 | 4.99 | 5.09 | 1.20 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PH2-BOT-002**

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Lab Sample ID:** P4860-03 **Date(s) Analyzed:** 11/18/2024 11/18/2024

**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 |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 1.20 | 0 |
| | 2 | 5.79 | 5.74 | 5.84 | 1.20 | |
| 4,4'-DDT | 1 | 7.03 | 6.98 | 7.08 | 2.40 | 97.3 |
| | 2 | 6.03 | 5.98 | 6.08 | 0.83 | |
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 1.00 | 47.5 |
| | 2 | 5.23 | 5.18 | 5.28 | 0.62 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PH2-BOT-003**

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Lab Sample ID:** P4860-04 **Date(s) Analyzed:** 11/18/2024 11/18/2024

**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 |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 0.53 | 36.4 |
| | 2 | 5.79 | 5.74 | 5.84 | 0.37 | |
| 4,4'-DDT | 1 | 7.03 | 6.98 | 7.08 | 0.32 | 6.1 |
| | 2 | 6.03 | 5.98 | 6.08 | 0.34 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 1.50 | 22.2 |
| | 2 | 5.04 | 4.99 | 5.09 | 1.20 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 1.20 | 45.2 |
| | 2 | 4.98 | 4.93 | 5.03 | 0.76 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PH2-BOT-004**

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Lab Sample ID:** P4860-05 **Date(s) Analyzed:** 11/18/2024 11/18/2024

**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 |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 0.97 | 6.1 |
| | 2 | 5.79 | 5.74 | 5.84 | 0.91 | |
| 4,4'-DDT | 1 | 7.02 | 6.97 | 7.07 | 2.20 | 4.7 |
| | 2 | 6.04 | 5.99 | 6.09 | 2.10 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 0.42 | 14.8 |
| | 2 | 4.98 | 4.93 | 5.03 | 0.36 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 0.65 | 54.3 |
| | 2 | 5.04 | 4.99 | 5.09 | 0.37 | |
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 0.17 | 4.2 |
| | 2 | 5.23 | 5.18 | 5.28 | 0.16 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PH2-BOT-007**

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Lab Sample ID:** P4860-08 **Date(s) Analyzed:** 11/19/2024 11/19/2024

**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 |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 1.00 | 11.9 |
| | 2 | 5.78 | 5.73 | 5.83 | 0.89 | |
| 4,4'-DDT | 1 | 7.03 | 6.98 | 7.08 | 1.70 | 126.3 |
| | 2 | 6.03 | 5.98 | 6.08 | 0.38 | |
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 0.48 | 5.9 |
| | 2 | 5.23 | 5.18 | 5.28 | 0.45 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**
PH2-BOT-007MS

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Lab Sample ID:** P4860-08MS **Date(s) Analyzed:** 11/19/2024 11/19/2024

**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 |
|---|---|---|---|---|---|---|
| Endosulfan II | 1 | 6.79 | 6.74 | 6.84 | 15.1 | 11.2 |
| | 2 | 5.93 | 5.88 | 5.98 | 16.9 | |
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 15.6 | 12.6 |
| | 2 | 5.79 | 5.74 | 5.84 | 17.7 | |
| 4,4'-DDT | 1 | 7.02 | 6.97 | 7.07 | 17.1 | 1.7 |
| | 2 | 6.04 | 5.99 | 6.09 | 17.4 | |
| alpha-BHC | 1 | 3.99 | 3.94 | 4.04 | 15.8 | 1.9 |
| | 2 | 3.28 | 3.23 | 3.33 | 16.1 | |
| Aldrin | 1 | 5.26 | 5.21 | 5.31 | 15.0 | 9.5 |
| | 2 | 4.23 | 4.18 | 4.28 | 16.5 | |
| beta-BHC | 1 | 4.52 | 4.47 | 4.57 | 15.9 | 6.1 |
| | 2 | 3.91 | 3.86 | 3.96 | 16.9 | |
| delta-BHC | 1 | 4.77 | 4.72 | 4.82 | 12.9 | 4.5 |
| | 2 | 4.14 | 4.09 | 4.19 | 13.5 | |
| Endosulfan I | 1 | 6.07 | 6.02 | 6.12 | 15.1 | 5.8 |
| | 2 | 5.10 | 5.05 | 5.15 | 16.0 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 15.5 | 11.6 |
| | 2 | 5.04 | 4.99 | 5.09 | 17.4 | |
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 15.8 | 12.5 |
| | 2 | 5.23 | 5.18 | 5.28 | 17.9 | |
| Dieldrin | 1 | 6.34 | 6.29 | 6.39 | 15.0 | 13.1 |
| | 2 | 5.36 | 5.31 | 5.41 | 17.1 | |
| Endrin aldehyde | 1 | 6.92 | 6.87 | 6.97 | 14.0 | 11.4 |
| | 2 | 6.11 | 6.06 | 6.16 | 15.7 | |
| Endosulfan sulfate | 1 | 7.16 | 7.11 | 7.21 | 14.3 | 10.6 |
| | 2 | 6.34 | 6.29 | 6.39 | 15.9 | |
| Methoxychlor | 1 | 7.50 | 7.45 | 7.55 | 14.8 | 12.7 |
| | 2 | 6.61 | 6.56 | 6.66 | 16.8 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PH2-BOT-007MS**

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Lab Sample ID:** P4860-08MS **Date(s) Analyzed:** 11/19/2024 11/19/2024

**Instrument ID (1):** ECD_L **Instrument ID (2):** ECD_L

**GC Column: (1):** ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endrin ketone | 1 | 7.64 | 7.59 | 7.69 | 14.9 | 7.7 |
| | 2 | 6.84 | 6.79 | 6.89 | 16.1 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 15.6 | 1.9 |
| | 2 | 3.61 | 3.56 | 3.66 | 15.9 | |
| Heptachlor | 1 | 4.91 | 4.86 | 4.96 | 16.0 | 6.1 |
| | 2 | 3.95 | 3.90 | 4.00 | 17.0 | |
| Heptachlor epoxide | 1 | 5.68 | 5.63 | 5.73 | 15.1 | 8.9 |
| | 2 | 4.73 | 4.68 | 4.78 | 16.5 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 15.7 | 9.1 |
| | 2 | 4.98 | 4.93 | 5.03 | 17.2 | |
| Endrin | 1 | 6.57 | 6.52 | 6.62 | 15.2 | 15.8 |
| | 2 | 5.64 | 5.59 | 5.69 | 17.8 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**
PH2-BOT-007MSD

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Lab Sample ID:** P4860-08MSD **Date(s) Analyzed:** 11/19/2024 11/19/2024

**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 |
|---|---|---|---|---|---|---|
| Endosulfan II | 1 | 6.79 | 6.74 | 6.84 | 15.4 | 8.7 |
| | 2 | 5.93 | 5.88 | 5.98 | 16.8 | |
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 15.8 | 13 |
| | 2 | 5.79 | 5.74 | 5.84 | 18.0 | |
| 4,4'-DDT | 1 | 7.02 | 6.97 | 7.07 | 17.0 | 3.5 |
| | 2 | 6.04 | 5.99 | 6.09 | 17.6 | |
| Endrin aldehyde | 1 | 6.92 | 6.87 | 6.97 | 14.0 | 10.2 |
| | 2 | 6.11 | 6.06 | 6.16 | 15.5 | |
| Endosulfan sulfate | 1 | 7.16 | 7.11 | 7.21 | 14.3 | 11.2 |
| | 2 | 6.34 | 6.29 | 6.39 | 16.0 | |
| Methoxychlor | 1 | 7.50 | 7.45 | 7.55 | 14.7 | 12.1 |
| | 2 | 6.61 | 6.56 | 6.66 | 16.6 | |
| Endrin ketone | 1 | 7.64 | 7.59 | 7.69 | 14.9 | 7.1 |
| | 2 | 6.84 | 6.79 | 6.89 | 16.0 | |
| alpha-BHC | 1 | 3.99 | 3.94 | 4.04 | 15.6 | 1.9 |
| | 2 | 3.28 | 3.23 | 3.33 | 15.9 | |
| gamma-BHC (Lindane) | 1 | 4.32 | 4.27 | 4.37 | 15.4 | 1.3 |
| | 2 | 3.61 | 3.56 | 3.66 | 15.6 | |
| Heptachlor | 1 | 4.91 | 4.86 | 4.96 | 15.9 | 4.9 |
| | 2 | 3.95 | 3.90 | 4.00 | 16.7 | |
| Aldrin | 1 | 5.26 | 5.21 | 5.31 | 14.9 | 8.4 |
| | 2 | 4.23 | 4.18 | 4.28 | 16.2 | |
| beta-BHC | 1 | 4.52 | 4.47 | 4.57 | 15.6 | 6.2 |
| | 2 | 3.91 | 3.86 | 3.96 | 16.6 | |
| delta-BHC | 1 | 4.77 | 4.72 | 4.82 | 12.8 | 3.8 |
| | 2 | 4.14 | 4.09 | 4.19 | 13.3 | |
| Heptachlor epoxide | 1 | 5.68 | 5.63 | 5.73 | 15.1 | 7.6 |
| | 2 | 4.73 | 4.68 | 4.78 | 16.3 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PH2-BOT-007MSD**

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Lab Sample ID:** P4860-08MSD **Date(s) Analyzed:** 11/19/2024 11/19/2024

**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 |
|---|---|---|---|---|---|---|
| Endosulfan I | 1 | 6.07 | 6.02 | 6.12 | 15.1 | 0.7 |
| | 2 | 5.10 | 5.05 | 5.15 | 15.0 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 15.7 | 7.4 |
| | 2 | 4.98 | 4.93 | 5.03 | 16.9 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 15.4 | 9.9 |
| | 2 | 5.04 | 4.99 | 5.09 | 17.0 | |
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 15.7 | 12.5 |
| | 2 | 5.23 | 5.18 | 5.28 | 17.8 | |
| Dieldrin | 1 | 6.34 | 6.29 | 6.39 | 14.9 | 13.2 |
| | 2 | 5.36 | 5.31 | 5.41 | 17.0 | |
| Endrin | 1 | 6.57 | 6.52 | 6.62 | 15.2 | 18.5 |
| | 2 | 5.64 | 5.59 | 5.69 | 18.3 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PH2-BOT-008**

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Lab Sample ID:** P4860-07 **Date(s) Analyzed:** 11/19/2024 11/19/2024

**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 |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 2.10 | 40 |
| | 2 | 5.79 | 5.74 | 5.84 | 1.40 | |
| 4,4'-DDT | 1 | 7.02 | 6.97 | 7.07 | 0.60 | 36.3 |
| | 2 | 6.03 | 5.98 | 6.08 | 0.87 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 1.30 | 55.9 |
| | 2 | 4.98 | 4.93 | 5.03 | 0.73 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 1.40 | 70.1 |
| | 2 | 5.04 | 4.99 | 5.09 | 0.67 | |

# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093141.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 14:18
Operator : AR\AJ
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
DUP-01

**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 19 23:01:38 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... | 3.535 | 2.774 | 49665495 | 55914005 | 20.270m | 20.548 |
| 28) | SA Decachlor... | 9.054 | 7.913 | 33182893 | 53135966 | 17.242 | 19.469 |
| | Target Compounds | | | | | | |
| 10) | B gamma-Chl... | 5.939 | 4.977 | 2851546 | 1924534 | 1.072m | 0.572m# |
| 11) | B alpha-Chl... | 6.018 | 5.040 | 2229383 | 1100976 | 0.842m | 0.331m# |
| 12) | B 4,4'-DDE | 6.188 | 5.232 | 1295503 | 2877447 | 0.547m | 0.893 # |
| 16) | A 4,4'-DDD | 6.709 | 5.791 | 1121988 | 1914841 | 0.585m | 0.769m# |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

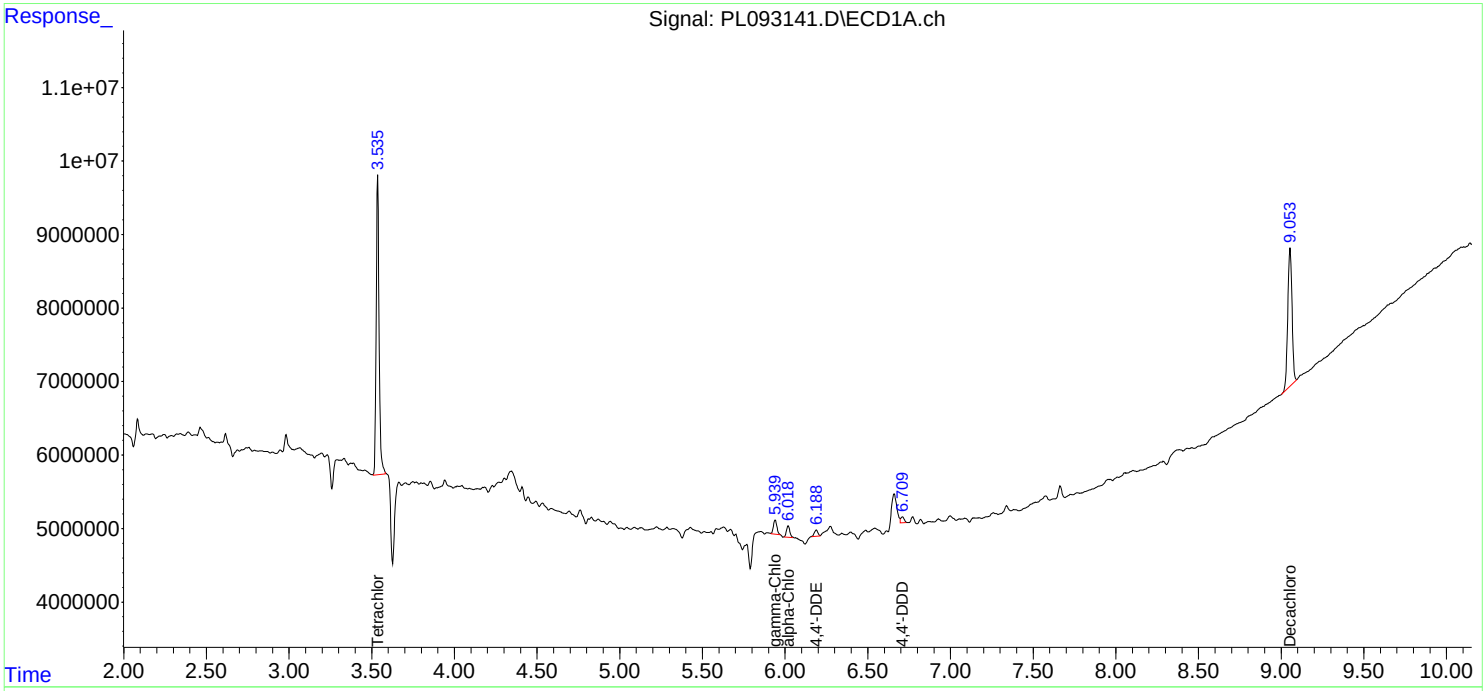
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093141.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 14:18
Operator : AR\AJ
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

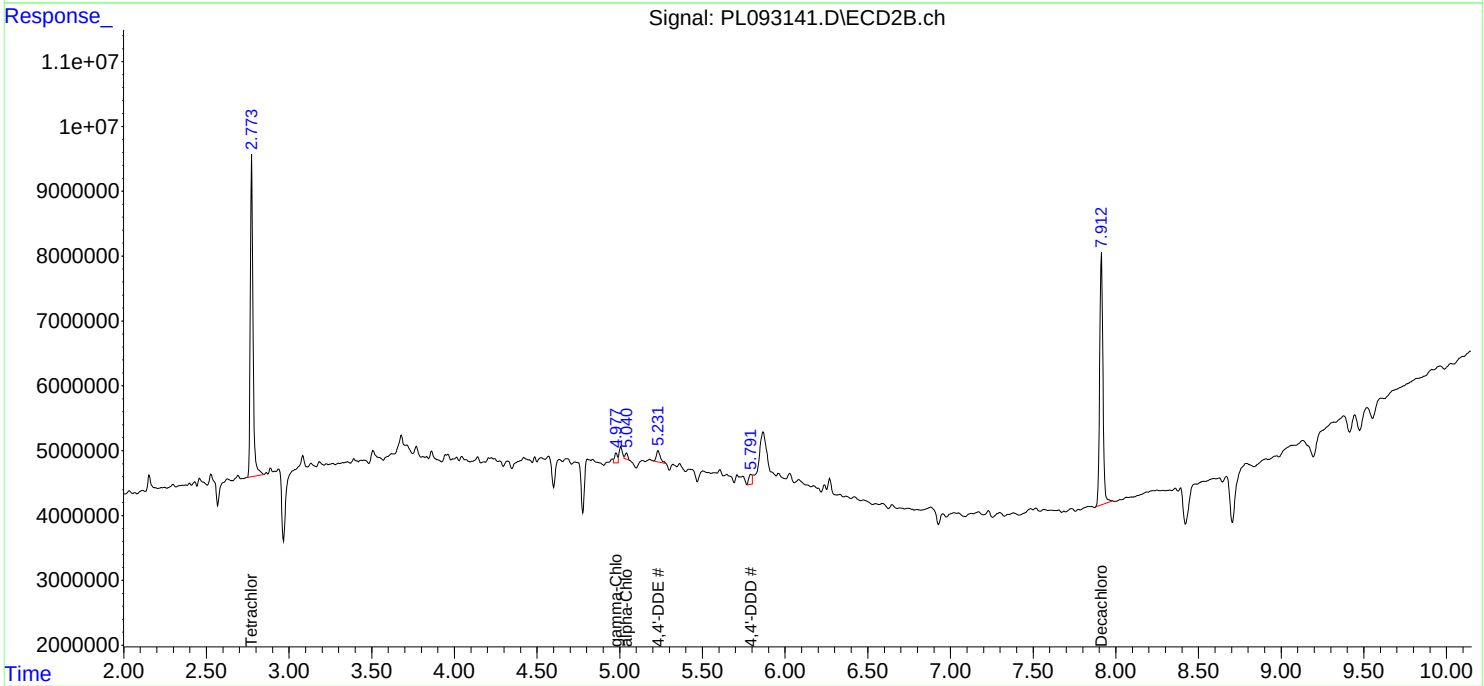
**Instrument :**
ECD_L
**ClientSampleId :**
DUP-01

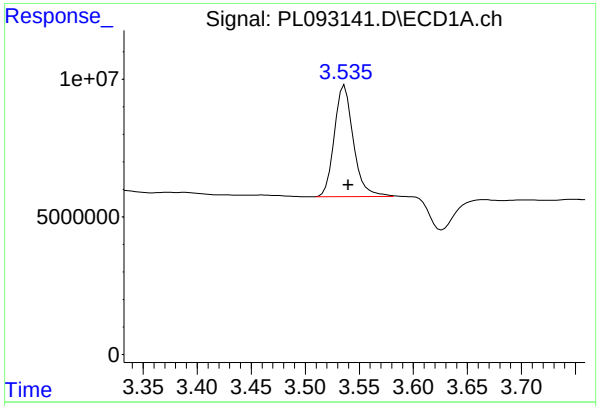
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 23:01:38 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





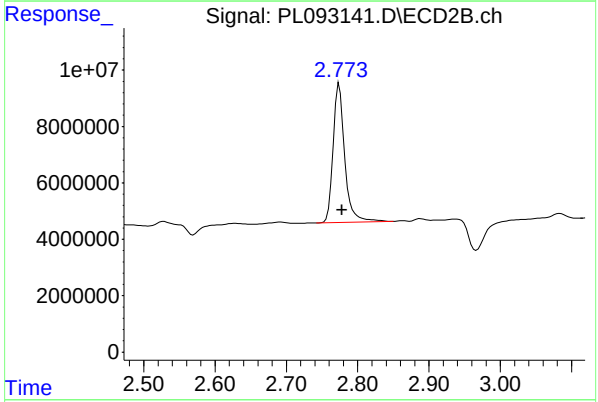

#1 Tetrachloro-m-xylene

R.T.: 3.535 min
Delta R.T.: -0.005 min
Response: 49665495
Conc: 20.27 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
DUP-01

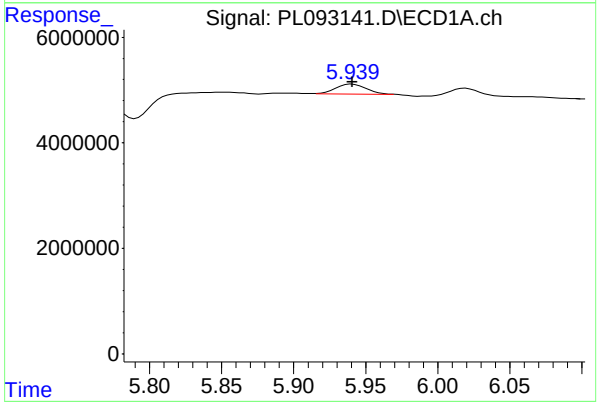
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



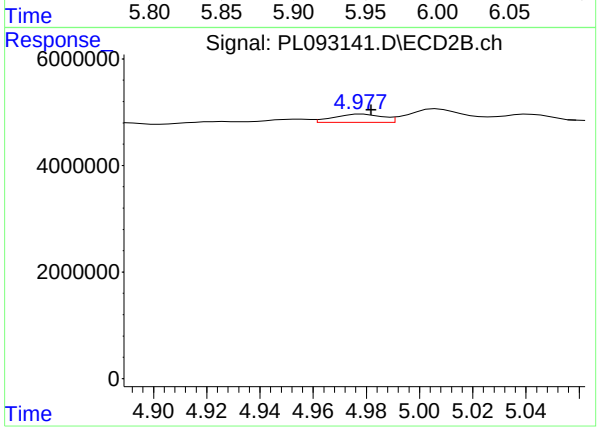

#1 Tetrachloro-m-xylene

R.T.: 2.774 min
Delta R.T.: -0.004 min
Response: 55914005
Conc: 20.55 ng/ml



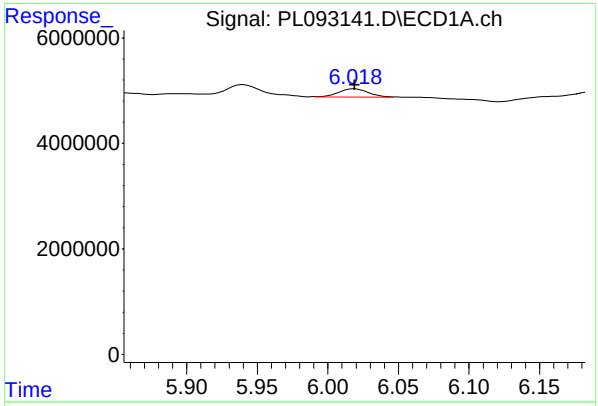

#10 gamma-Chlordane

R.T.: 5.939 min
Delta R.T.: -0.002 min
Response: 2851546
Conc: 1.07 ng/ml m




#10 gamma-Chlordane

R.T.: 4.977 min
Delta R.T.: -0.005 min
Response: 1924534
Conc: 0.57 ng/ml m



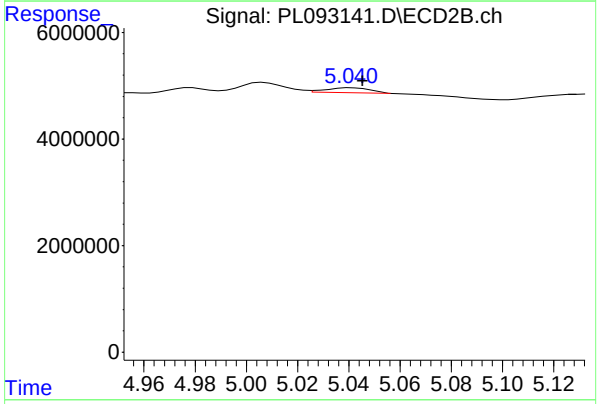

#11 alpha-Chlordane

R.T.: 6.018 min
Delta R.T.: -0.002 min
Response: 2229383
Conc: 0.84 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
DUP-01

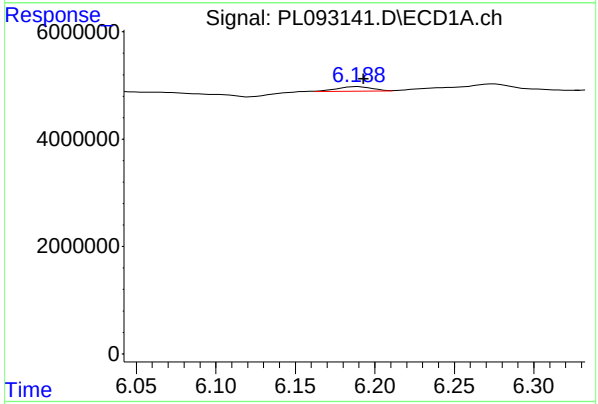
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



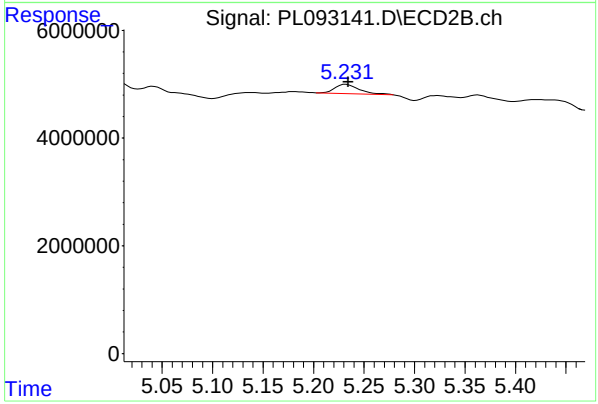

#11 alpha-Chlordane

R.T.: 5.040 min
Delta R.T.: -0.006 min
Response: 1100976
Conc: 0.33 ng/ml m



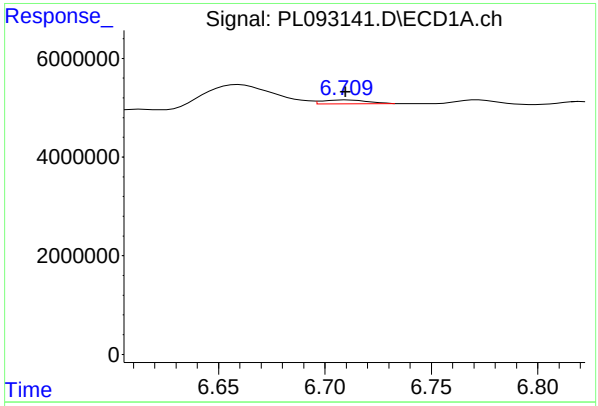

#12 4,4'-DDE

R.T.: 6.188 min
Delta R.T.: -0.005 min
Response: 1295503
Conc: 0.55 ng/ml m




#12 4,4'-DDE

R.T.: 5.232 min
Delta R.T.: -0.003 min
Response: 2877447
Conc: 0.89 ng/ml

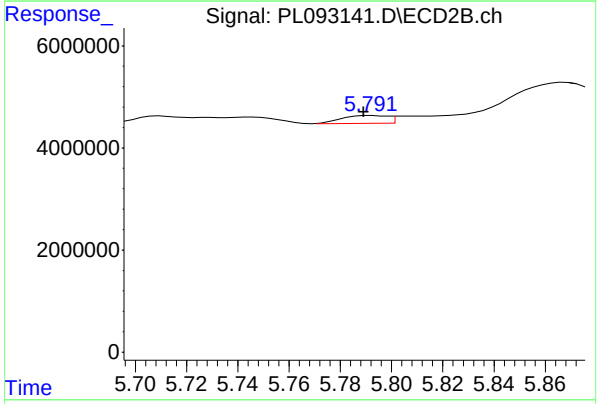



#16 4,4'-DDD

R.T.: 6.709 min
Delta R.T.: 0.000 min
Response: 1121988
Conc: 0.58 ng/ml

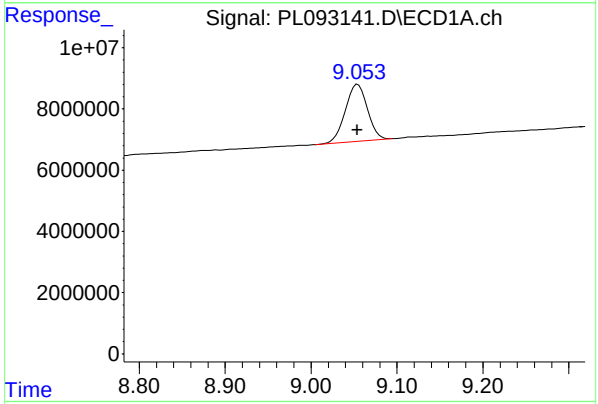
**Instrument :**
ECD_L
**ClientSampleId :**
DUP-01

**Manual Integrations**
**APPROVED**
Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



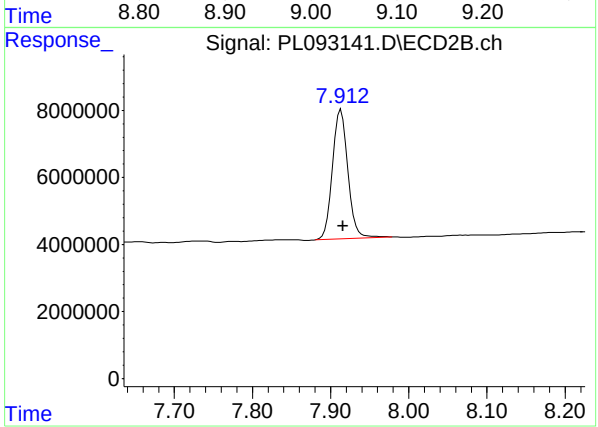

#16 4,4'-DDD

R.T.: 5.791 min
Delta R.T.: 0.002 min
Response: 1914841
Conc: 0.77 ng/ml m




#28 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.000 min
Response: 33182893
Conc: 17.24 ng/ml




#28 Decachlorobiphenyl

R.T.: 7.913 min
Delta R.T.: -0.003 min
Response: 53135966
Conc: 19.47 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093142.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 14:31
Operator : AR\AJ
Sample : P4860-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-001

**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 19 23:02:31 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... | 3.534 | 2.773 | 48680067 | 52487004 | 19.867m | 19.288 |
| 28) | SA Decachlor... | 9.054 | 7.913 | 35147082 | 53305010 | 18.262 | 19.531 |
| | Target Compounds | | | | | | |
| 10) | B gamma-Chl... | 5.943 | 4.977 | 50043080 | 20886193 | 18.809m | 6.213m# |
| 11) | B alpha-Chl... | 6.018 | 5.039 | 19746392 | 11207102 | 7.457m | 3.370m# |
| 12) | B 4,4'-DDE | 6.189 | 5.230 | 4241053 | 5437627 | 1.790 | 1.688m |
| 13) | MA Dieldrin | 6.340 | 5.362 | 1009730 | 3277069 | 0.383m | 0.981m# |
| 16) | A 4,4'-DDD | 6.708 | 5.785 | 7385202 | 6229718 | 3.847m | 2.502m# |
| 17) | MA 4,4'-DDT | 7.025 | 6.033 | 12770587 | 6005547 | 6.170m | 2.239 # |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

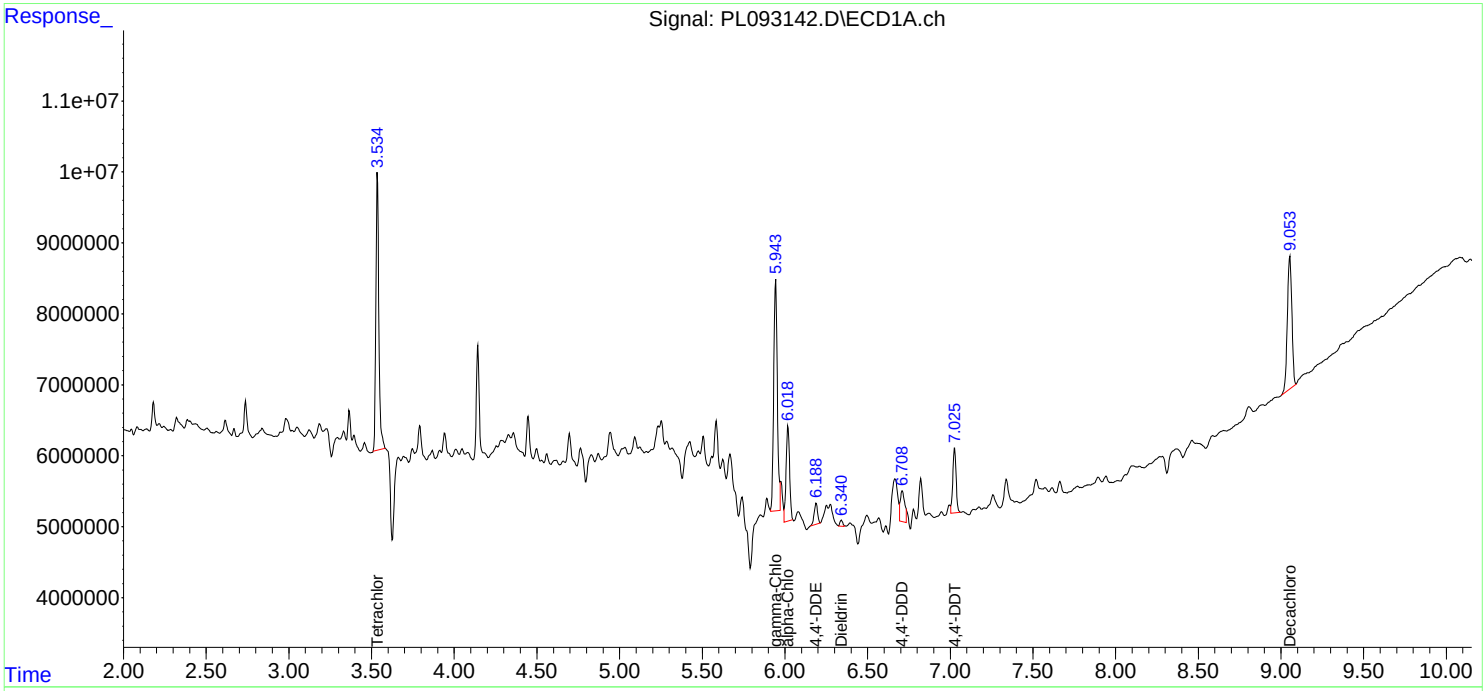
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093142.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 14:31
Operator : AR\AJ
Sample : P4860-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

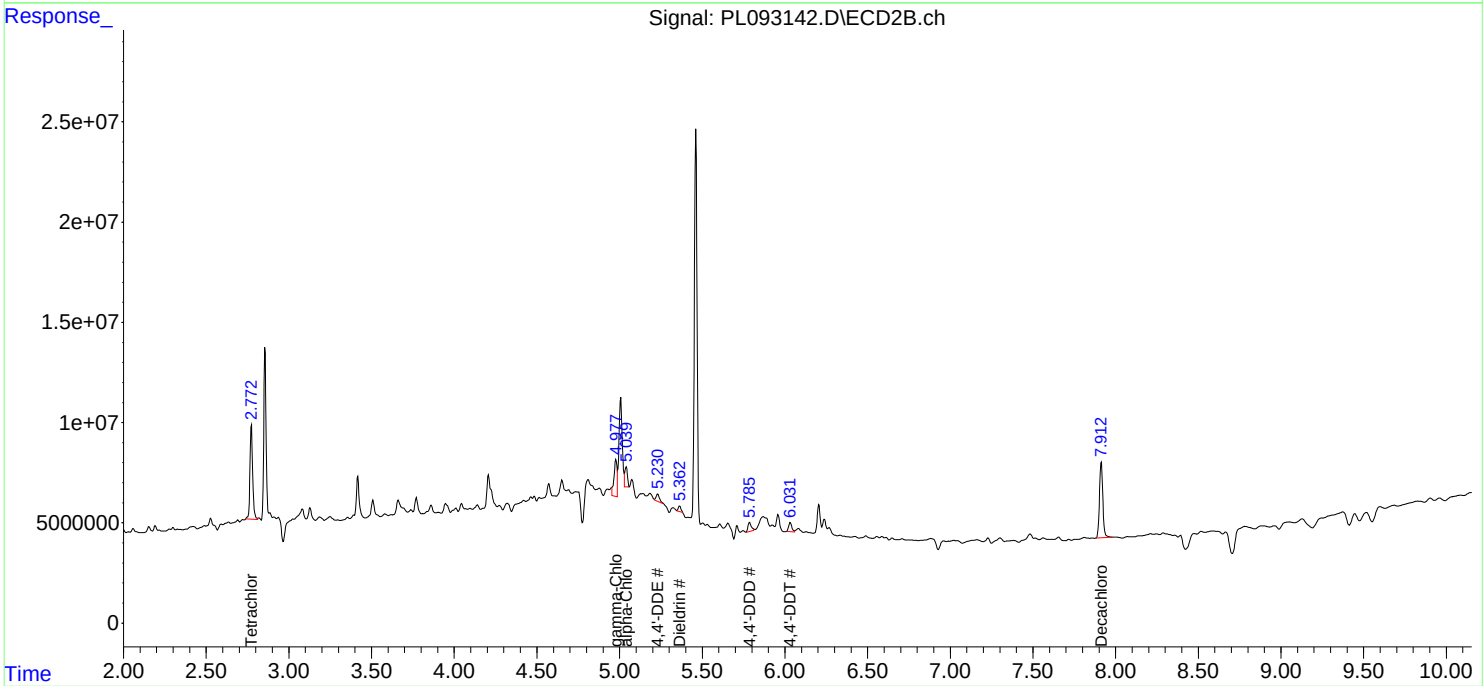
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 23:02:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

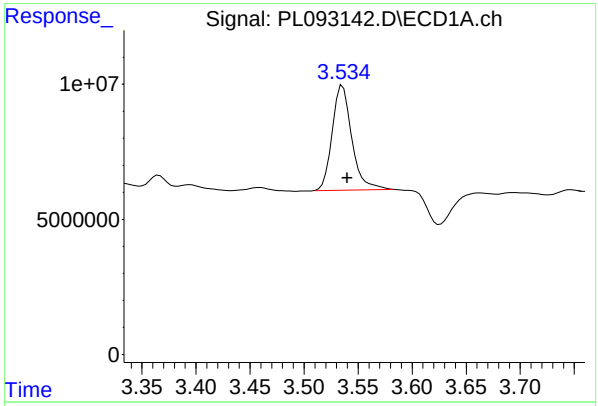
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-001

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024





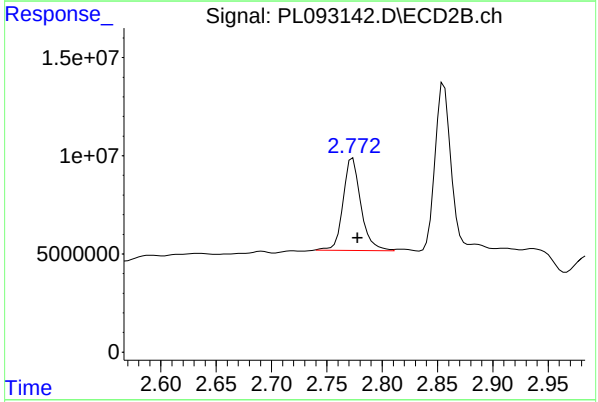

#1 Tetrachloro-m-xylene

R.T.: 3.534 min
Delta R.T.: -0.006 mi
Response: 48680067
Conc: 19.87 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-001

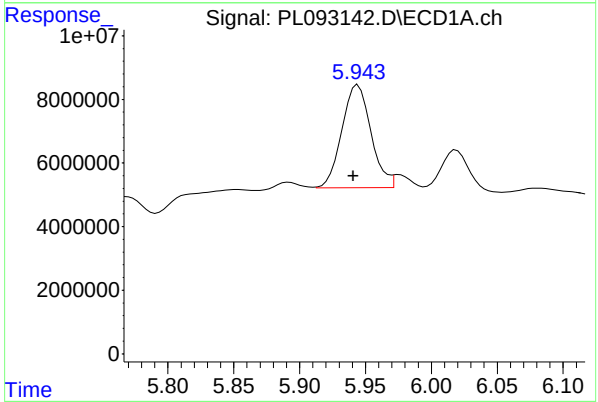
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



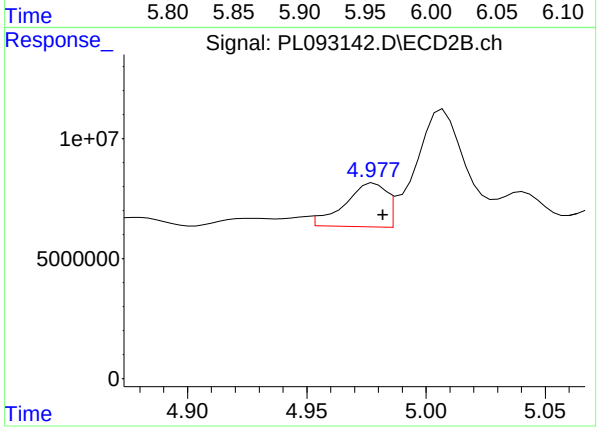

#1 Tetrachloro-m-xylene

R.T.: 2.773 min
Delta R.T.: -0.004 min
Response: 52487004
Conc: 19.29 ng/ml



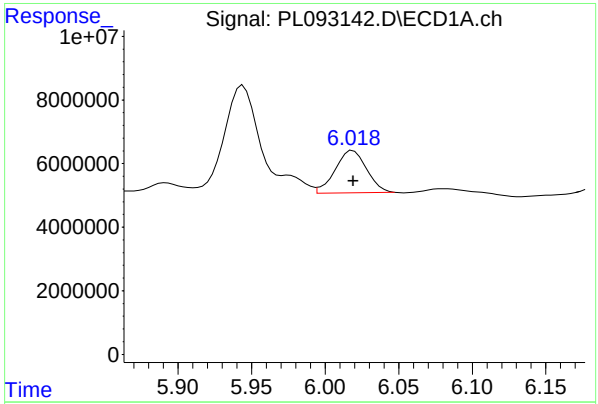

#10 gamma-Chlordane

R.T.: 5.943 min
Delta R.T.: 0.002 min
Response: 50043080
Conc: 18.81 ng/ml m




#10 gamma-Chlordane

R.T.: 4.977 min
Delta R.T.: -0.005 min
Response: 20886193
Conc: 6.21 ng/ml m



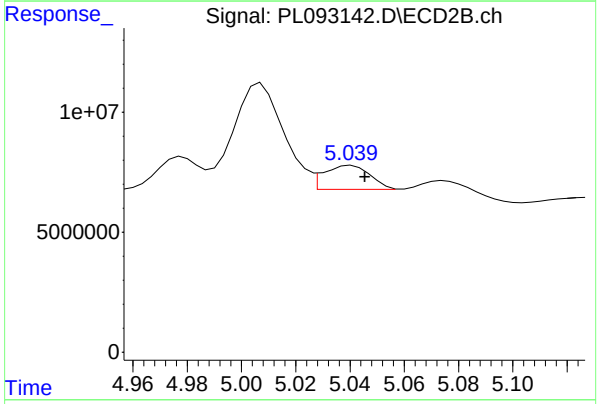

#11 alpha-Chlordane

R.T.: 6.018 min
Delta R.T.: -0.002 min
Response: 19746392
Conc: 7.46 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-001

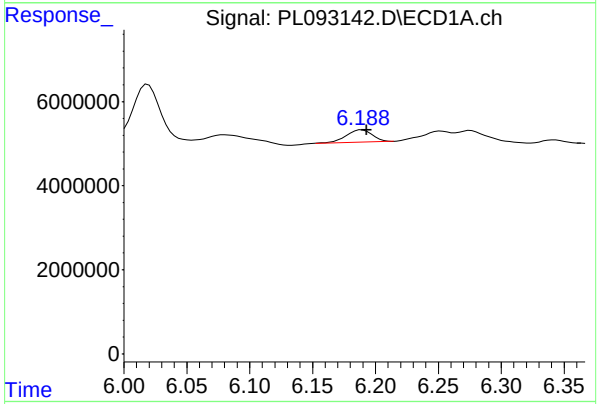
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



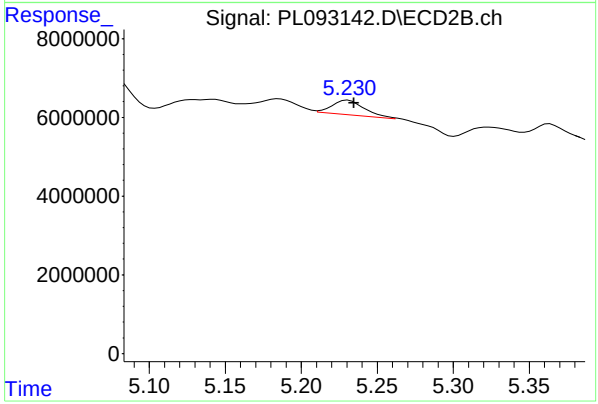

#11 alpha-Chlordane

R.T.: 5.039 min
Delta R.T.: -0.006 min
Response: 11207102
Conc: 3.37 ng/ml m



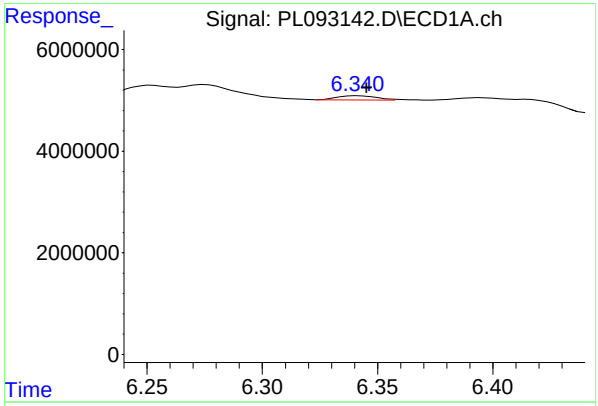

#12 4,4'-DDE

R.T.: 6.189 min
Delta R.T.: -0.004 min
Response: 4241053
Conc: 1.79 ng/ml




#12 4,4'-DDE

R.T.: 5.230 min
Delta R.T.: -0.005 min
Response: 5437627
Conc: 1.69 ng/ml m



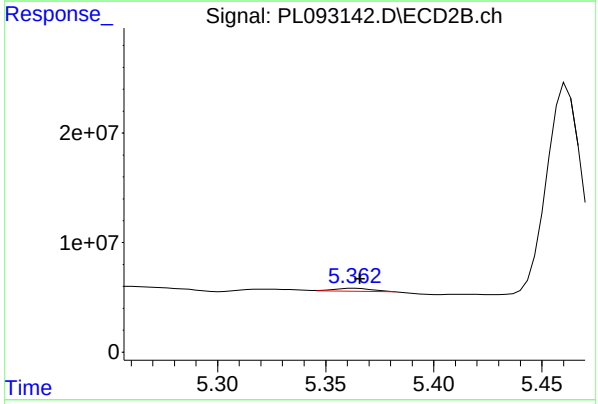

#13 Dieldrin

R.T.: 6.340 min
Delta R.T.: -0.005 min
Response: 1009730
Conc: 0.38 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-001

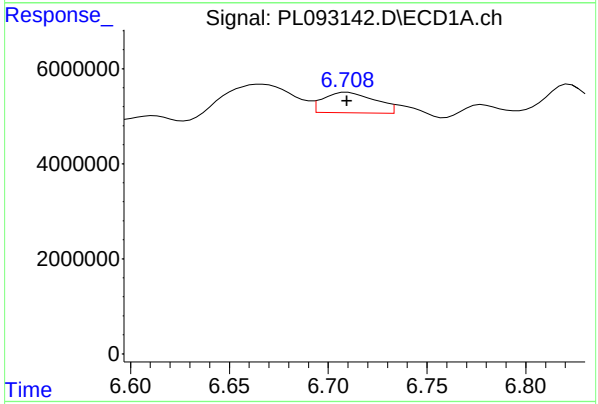
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



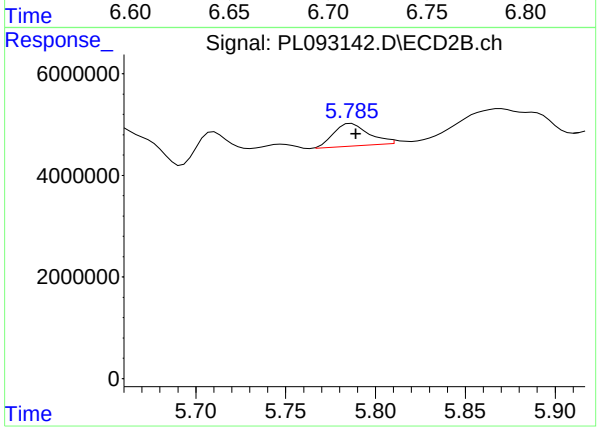

#13 Dieldrin

R.T.: 5.362 min
Delta R.T.: -0.004 min
Response: 3277069
Conc: 0.98 ng/ml m



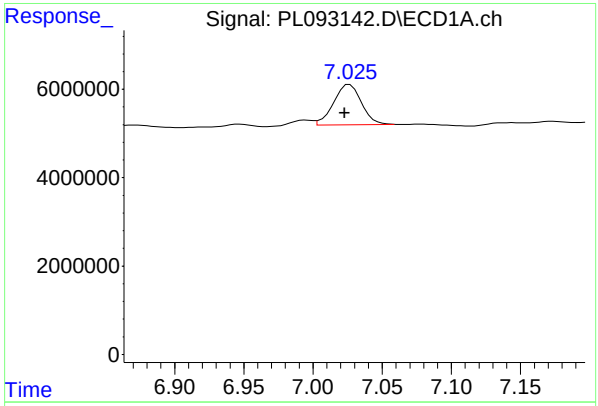

#16 4,4'-DDD

R.T.: 6.708 min
Delta R.T.: -0.001 min
Response: 7385202
Conc: 3.85 ng/ml m




#16 4,4'-DDD

R.T.: 5.785 min
Delta R.T.: -0.004 min
Response: 6229718
Conc: 2.50 ng/ml m



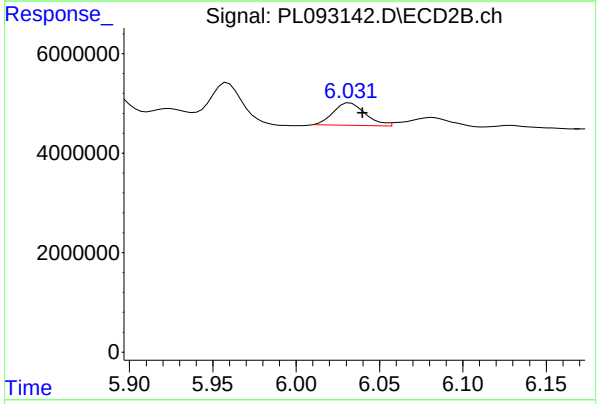

#17 4,4'-DDT

R.T.: 7.025 min
Delta R.T.: 0.002 min
Response: 12770587
Conc: 6.17 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-001

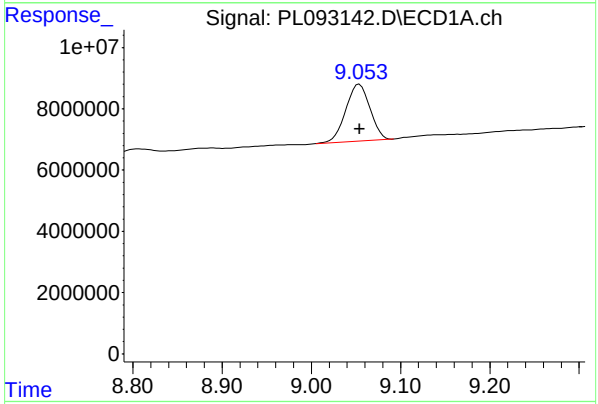
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



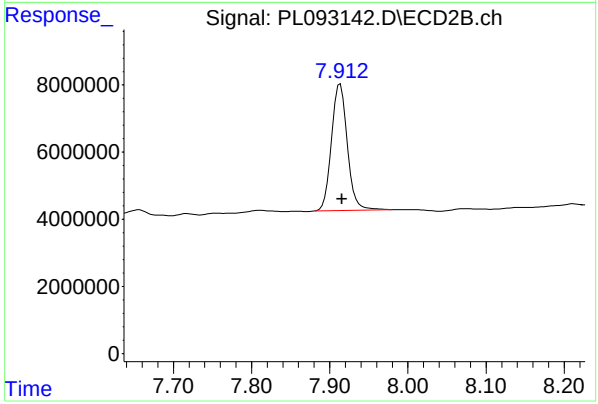

#17 4,4'-DDT

R.T.: 6.033 min
Delta R.T.: -0.007 min
Response: 6005547
Conc: 2.24 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.000 min
Response: 35147082
Conc: 18.26 ng/ml




#28 Decachlorobiphenyl

R.T.: 7.913 min
Delta R.T.: -0.002 min
Response: 53305010
Conc: 19.53 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111824\
Data File : PL093107.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Nov 2024 12:26
Operator : AR\AJ
Sample : P4860-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-002

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 01:25:42 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... | 3.538 | 2.776 | 60564452 | 59549026 | 24.718m | 21.884m |
| 28) | SA Decachlor... | 9.055 | 7.914 | 38812196 | 50184984 | 20.167 | 18.388 |
| | Target Compounds | | | | | | |
| 12) | B 4,4'-DDE | 6.191 | 5.231 | 6971256 | 5781567 | 2.942 | 1.795m# |
| 16) | A 4,4'-DDD | 6.708 | 5.785 | 6704983 | 8974051 | 3.493m | 3.604m |
| 17) | MA 4,4'-DDT | 7.026 | 6.034 | 14683903 | 6474724 | 7.095m | 2.414 # |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

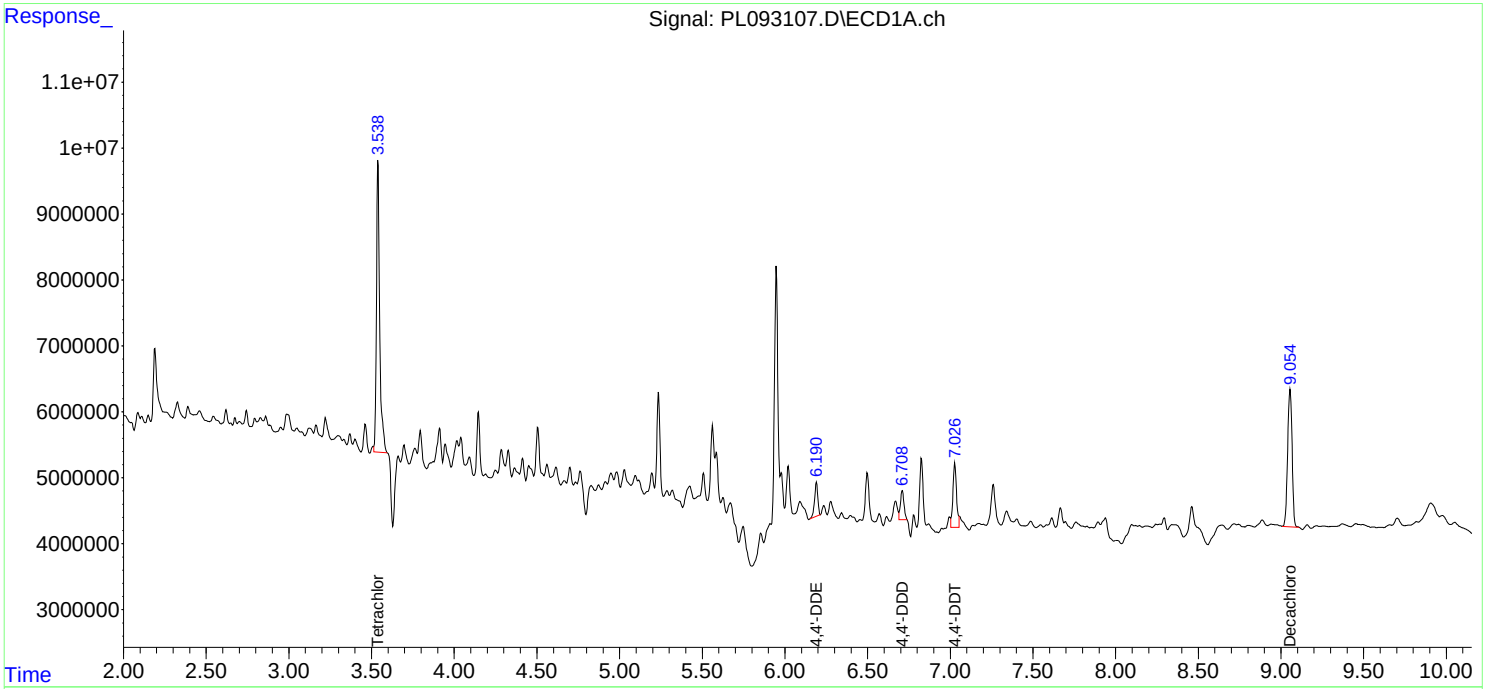
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111824\
Data File : PL093107.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Nov 2024 12:26
Operator : AR\AJ
Sample : P4860-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

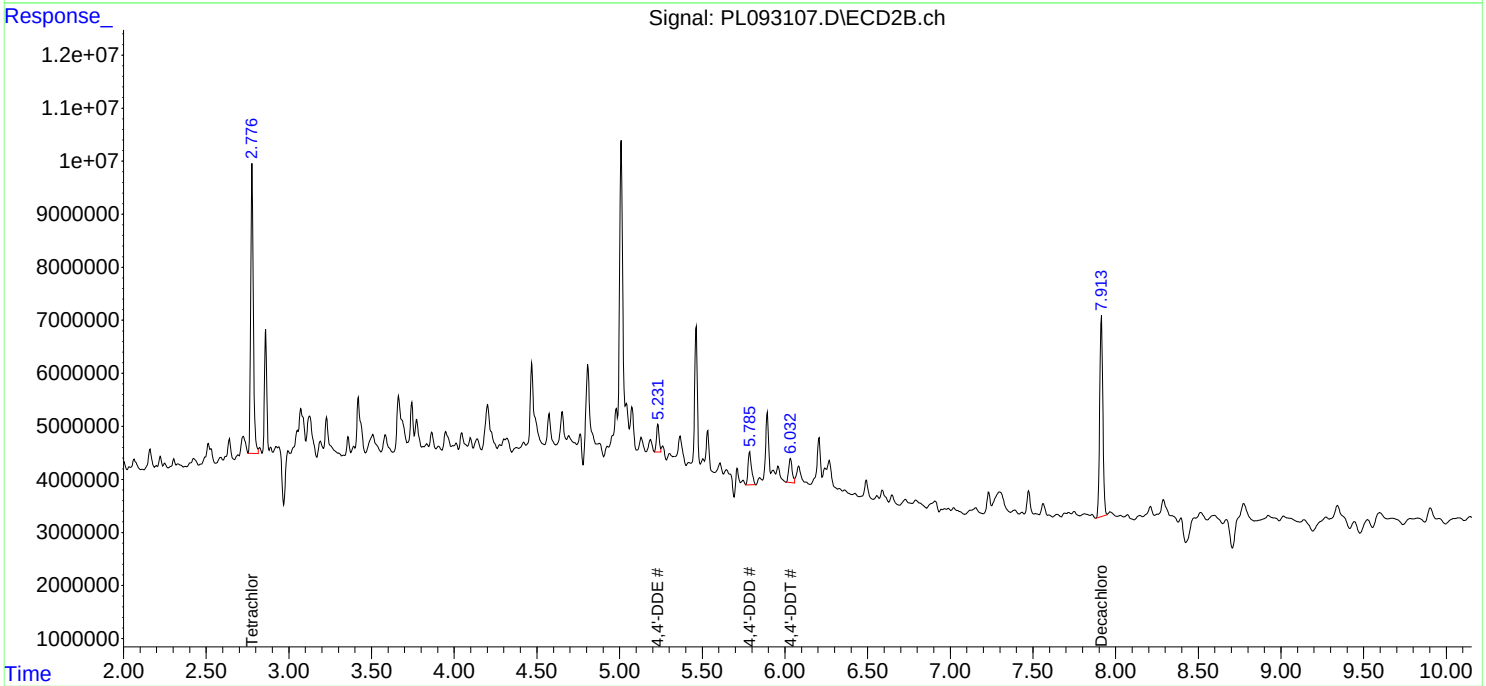
**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-002

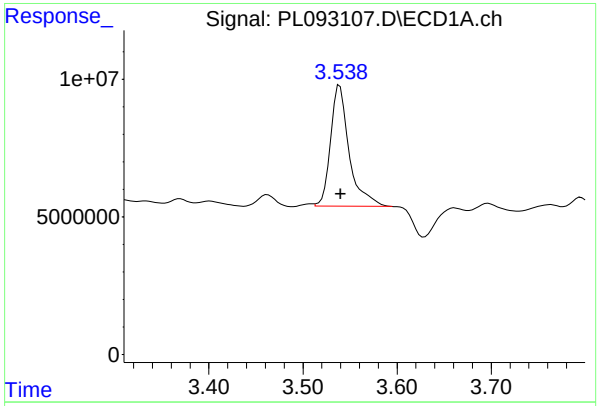
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 01:25:42 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





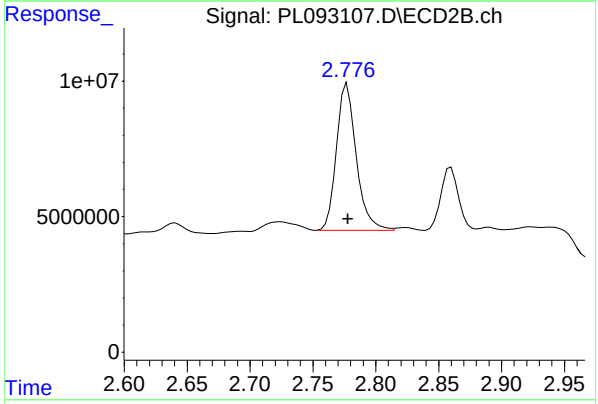

#1 Tetrachloro-m-xylene

R.T.: 3.538 min
Delta R.T.: -0.002 mi
Response: 60564452
Conc: 24.72 ng/m

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-002

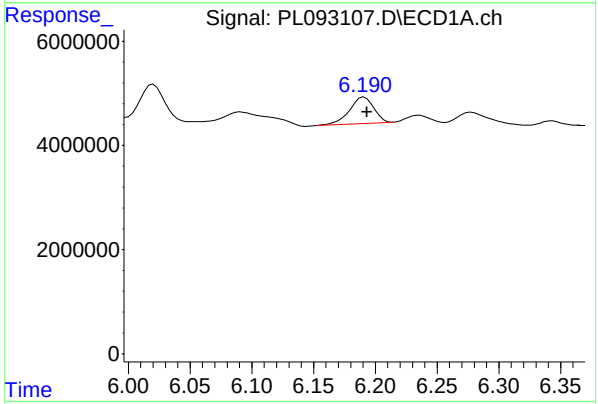
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



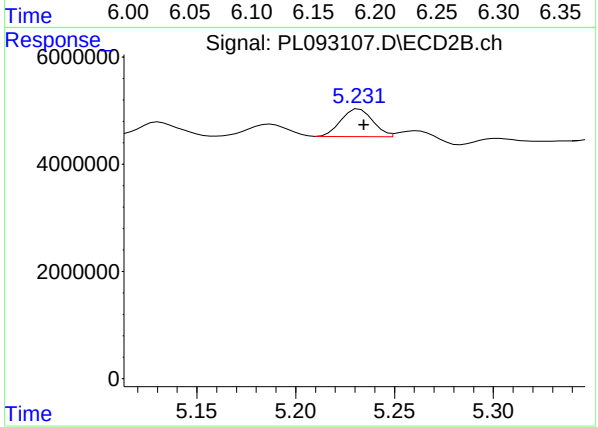

#1 Tetrachloro-m-xylene

R.T.: 2.776 min
Delta R.T.: -0.002 min
Response: 59549026
Conc: 21.88 ng/ml m



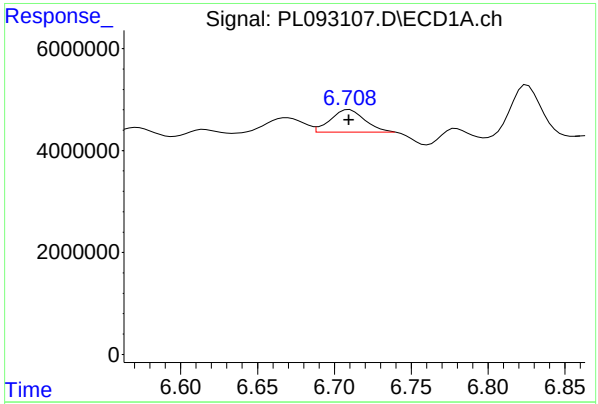

#12 4,4'-DDE

R.T.: 6.191 min
Delta R.T.: -0.002 min
Response: 6971256
Conc: 2.94 ng/ml




#12 4,4'-DDE

R.T.: 5.231 min
Delta R.T.: -0.004 min
Response: 5781567
Conc: 1.79 ng/ml m



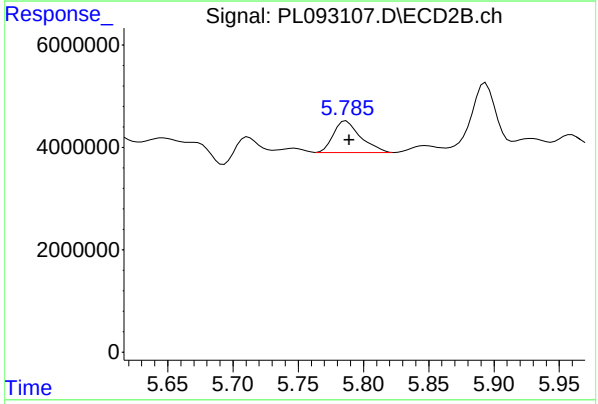

#16 4,4'-DDD

R.T.: 6.708 min
Delta R.T.: -0.001 min
Response: 6704983
Conc: 3.49 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-002

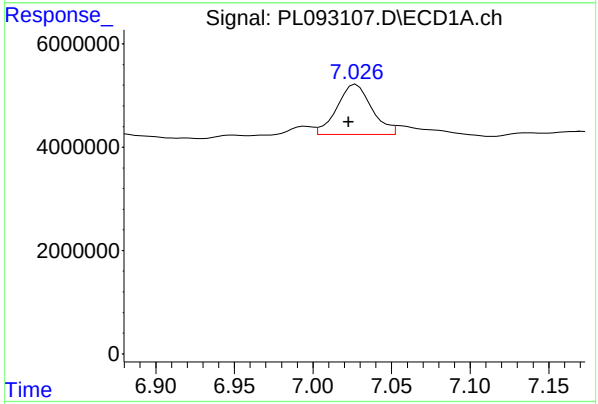
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



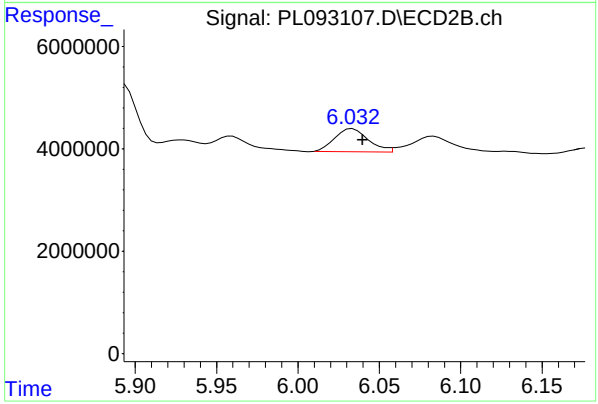

#16 4,4'-DDD

R.T.: 5.785 min
Delta R.T.: -0.004 min
Response: 8974051
Conc: 3.60 ng/ml m



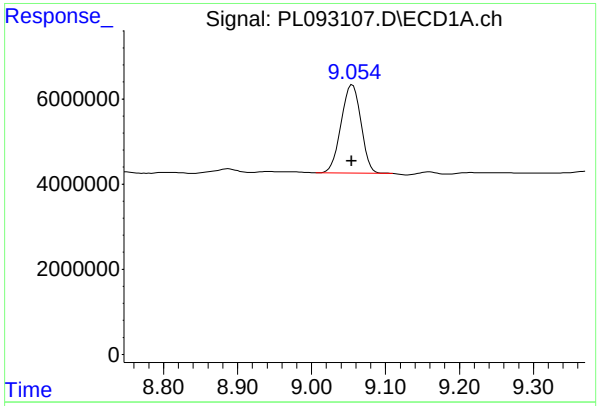

#17 4,4'-DDT

R.T.: 7.026 min
Delta R.T.: 0.003 min
Response: 14683903
Conc: 7.09 ng/ml m




#17 4,4'-DDT

R.T.: 6.034 min
Delta R.T.: -0.006 min
Response: 6474724
Conc: 2.41 ng/ml



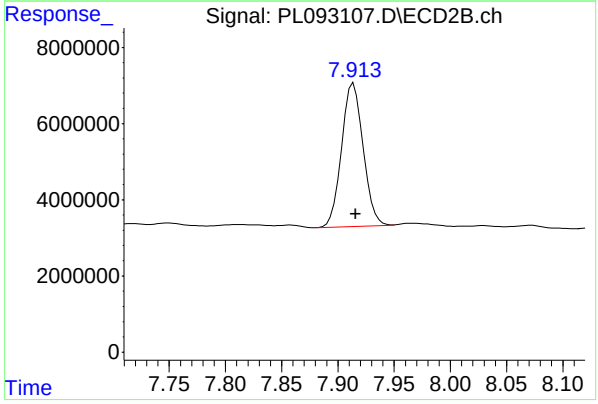

#28 Decachlorobiphenyl

R.T.: 9.055 min
Delta R.T.: 0.001 min
Response: 38812196
Conc: 20.17 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-002

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024




#28 Decachlorobiphenyl

R.T.: 7.914 min
Delta R.T.: -0.002 min
Response: 50184984
Conc: 18.39 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111824\
Data File : PL093108.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Nov 2024 12:39
Operator : AR\AJ
Sample : P4860-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-003

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 01:25:58 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 | 2.777 | 60015498 | 60671247 | 24.494m | 22.296 |
| 28) | SA Decachlor... | 9.054 | 7.915 | 45786658 | 54405353 | 23.791m | 19.934 |
| | Target Compounds | | | | | | |
| 10) | B gamma-Chl... | 5.939 | 4.978 | 9742156 | 7485133 | 3.662m | 2.227m# |
| 11) | B alpha-Chl... | 6.019 | 5.043 | 11490642 | 11659214 | 4.339m | 3.505 |
| 16) | A 4,4'-DDD | 6.709 | 5.786 | 2997803 | 2681900 | 1.562m | 1.077m# |
| 17) | MA 4,4'-DDT | 7.026 | 6.033 | 1975907 | 2710176 | 0.955m | 1.010m |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

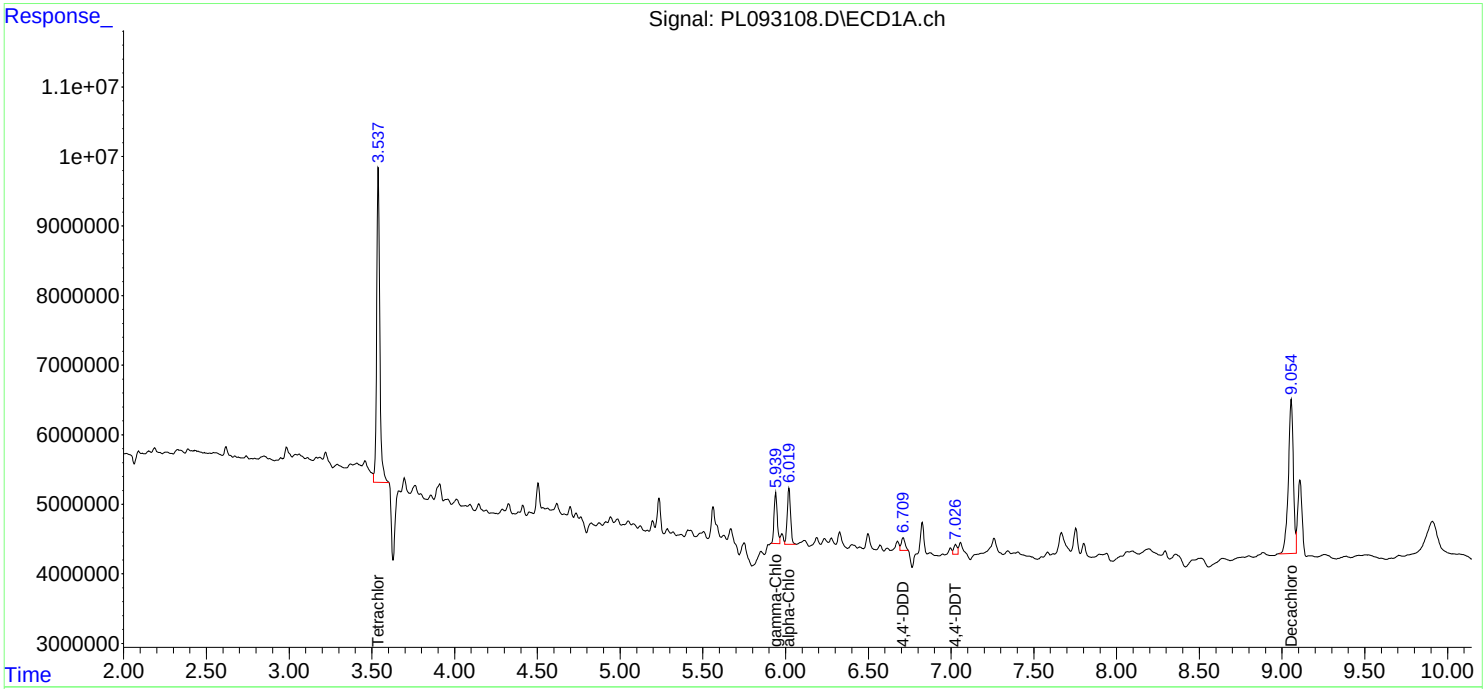
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111824\
Data File : PL093108.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Nov 2024 12:39
Operator : AR\AJ
Sample : P4860-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

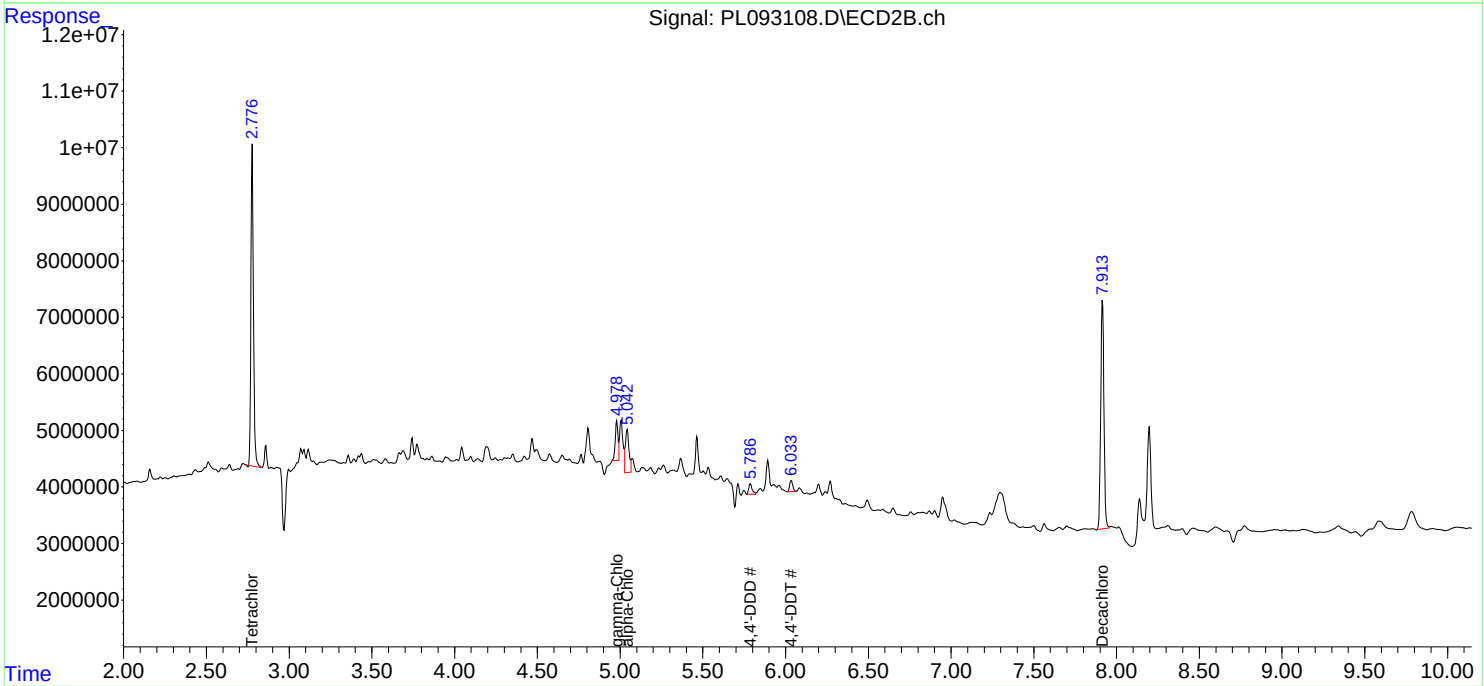
**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-003

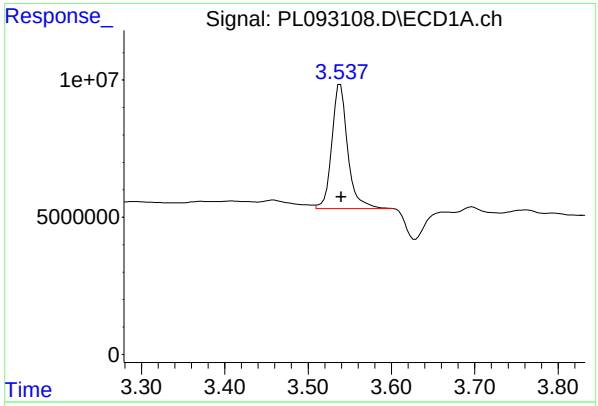
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 01:25:58 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





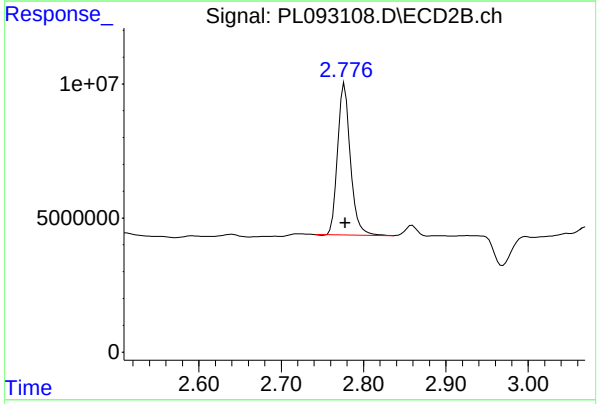

#1 Tetrachloro-m-xylene

R.T.: 3.537 min
Delta R.T.: -0.003 min
Response: 60015498
Conc: 24.49 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-003

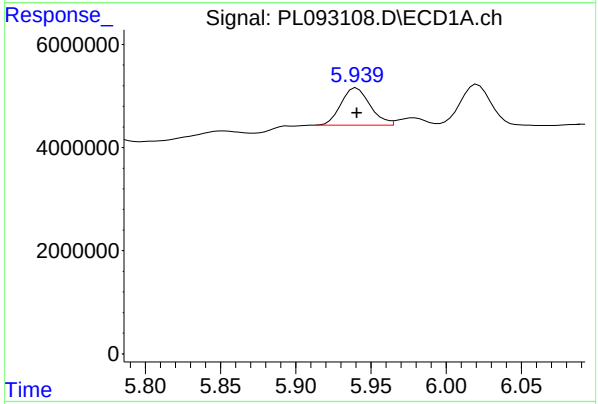
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



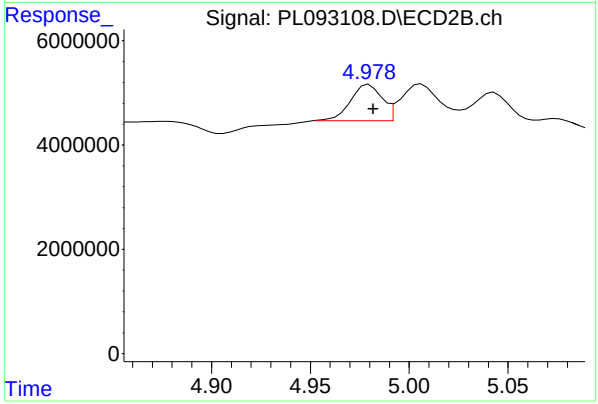

#1 Tetrachloro-m-xylene

R.T.: 2.777 min
Delta R.T.: 0.000 min
Response: 60671247
Conc: 22.30 ng/ml



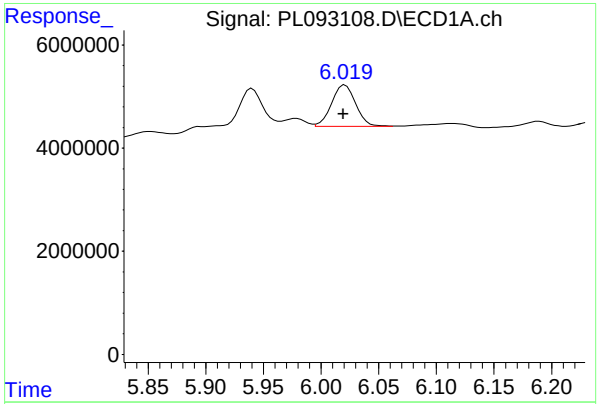

#10 gamma-Chlordane

R.T.: 5.939 min
Delta R.T.: -0.002 min
Response: 9742156
Conc: 3.66 ng/ml m




#10 gamma-Chlordane

R.T.: 4.978 min
Delta R.T.: -0.004 min
Response: 7485133
Conc: 2.23 ng/ml m



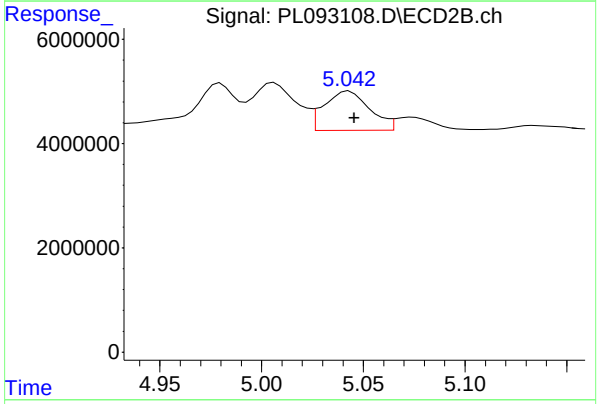

#11 alpha-Chlordane

R.T.: 6.019 min
Delta R.T.: 0.000 min
Response: 11490642
Conc: 4.34 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-003

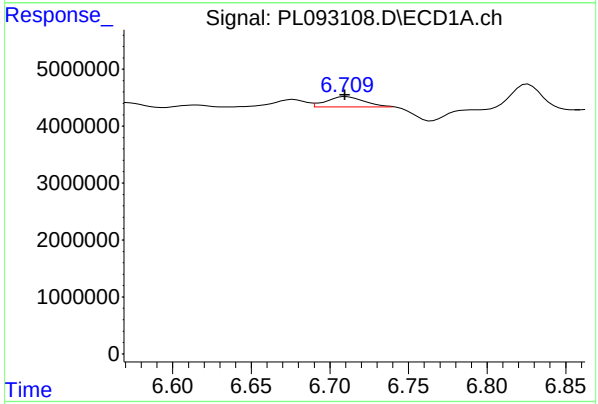
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



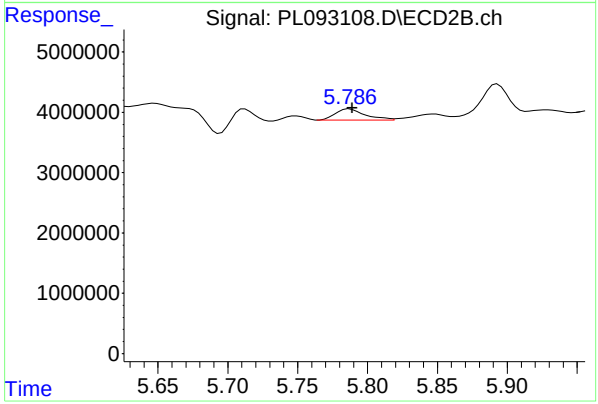

#11 alpha-Chlordane

R.T.: 5.043 min
Delta R.T.: -0.002 min
Response: 11659214
Conc: 3.51 ng/ml



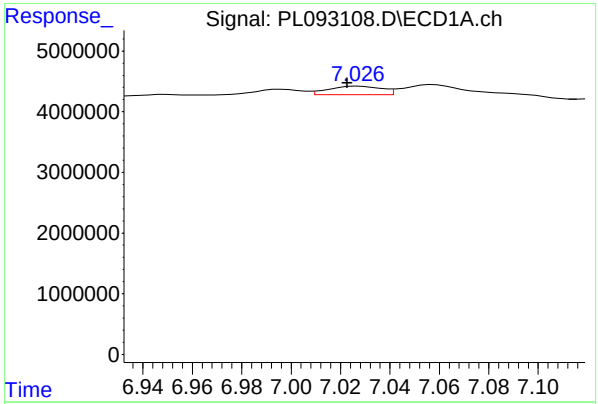

#16 4,4'-DDD

R.T.: 6.709 min
Delta R.T.: 0.000 min
Response: 2997803
Conc: 1.56 ng/ml m




#16 4,4'-DDD

R.T.: 5.786 min
Delta R.T.: -0.003 min
Response: 2681900
Conc: 1.08 ng/ml m



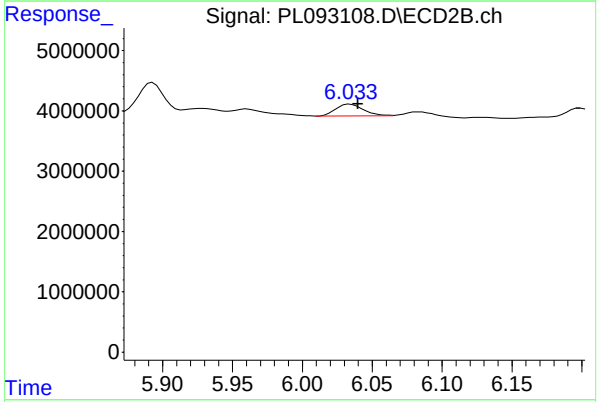

#17 4,4'-DDT

R.T.: 7.026 min
Delta R.T.: 0.003 min
Response: 1975907
Conc: 0.95 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-003

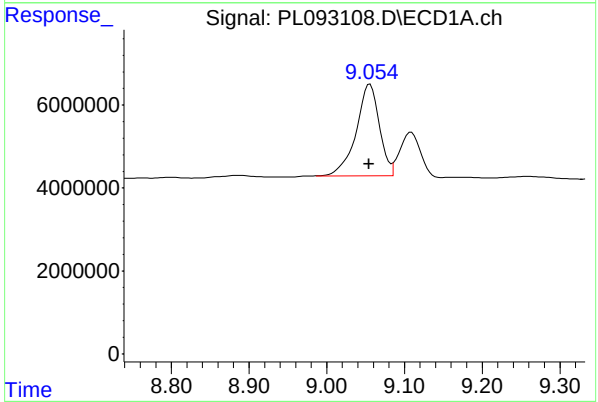
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



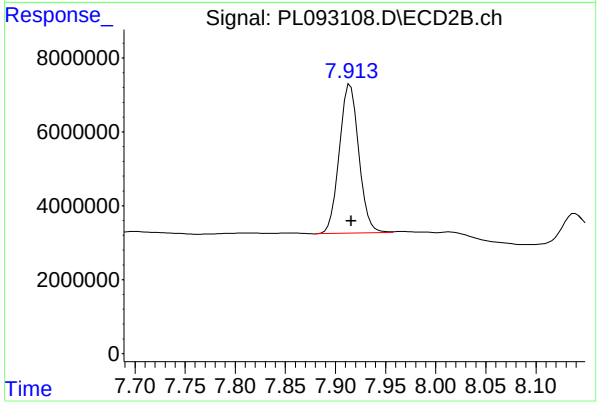

#17 4,4'-DDT

R.T.: 6.033 min
Delta R.T.: -0.007 min
Response: 2710176
Conc: 1.01 ng/ml m




#28 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.000 min
Response: 45786658
Conc: 23.79 ng/ml m




#28 Decachlorobiphenyl

R.T.: 7.915 min
Delta R.T.: -0.001 min
Response: 54405353
Conc: 19.93 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111824\
Data File : PL093109.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Nov 2024 12:52
Operator : AR\AJ
Sample : P4860-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-004

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 01:26:13 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... | 3.538 | 2.778 | 57302054 | 60638790 | 23.386m | 22.284 |
| 28) | SA Decachlor... | 9.056 | 7.915 | 41951445 | 56758488 | 21.798 | 20.796 |
| | Target Compounds | | | | | | |
| 10) | B gamma-Chl... | 5.937 | 4.979 | 3269651 | 3549156 | 1.229m | 1.056m |
| 11) | B alpha-Chl... | 6.020 | 5.042 | 5079786 | 3671019 | 1.918 | 1.104m# |
| 12) | B 4,4'-DDE | 6.189 | 5.231 | 1166346 | 1524860 | 0.492m | 0.473m |
| 16) | A 4,4'-DDD | 6.708 | 5.786 | 5485737 | 6703865 | 2.858m | 2.692m |
| 17) | MA 4,4'-DDT | 7.022 | 6.038 | 13169960 | 16891629 | 6.363m | 6.298 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

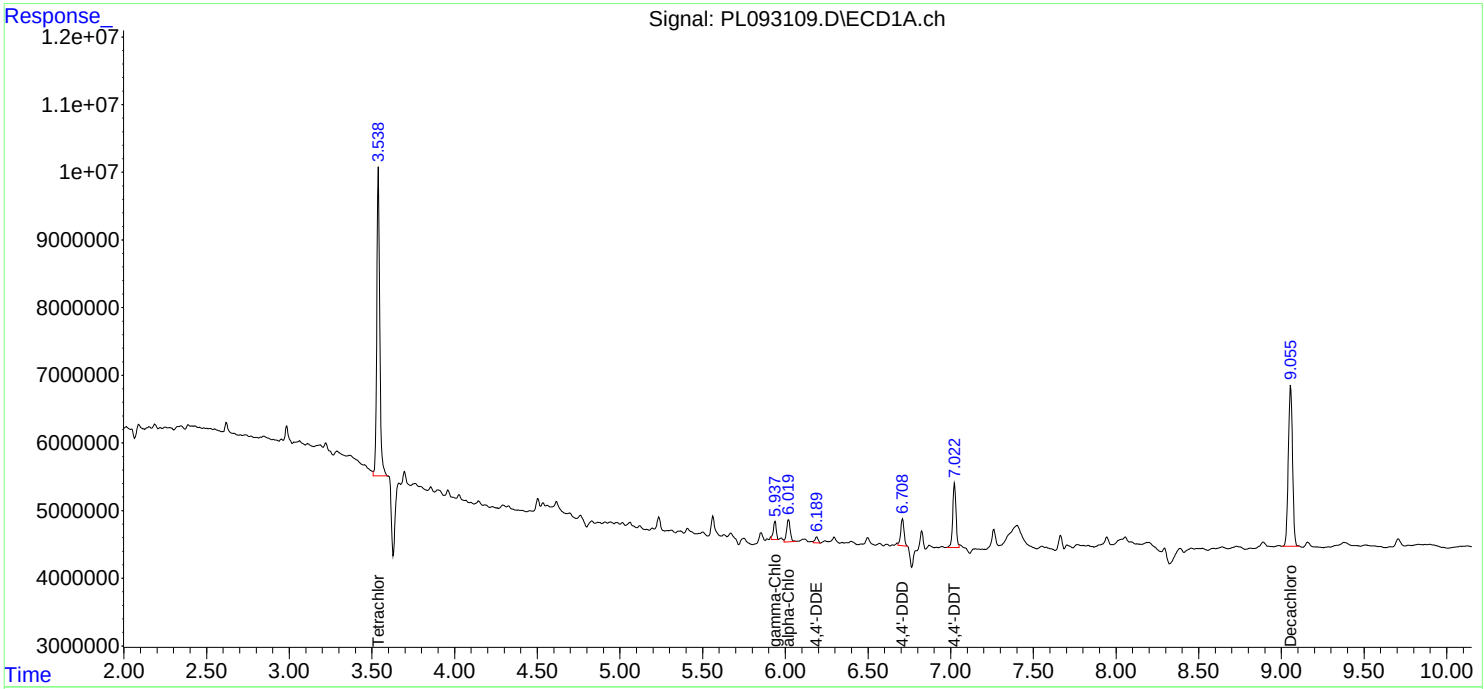
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111824\
Data File : PL093109.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Nov 2024 12:52
Operator : AR\AJ
Sample : P4860-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

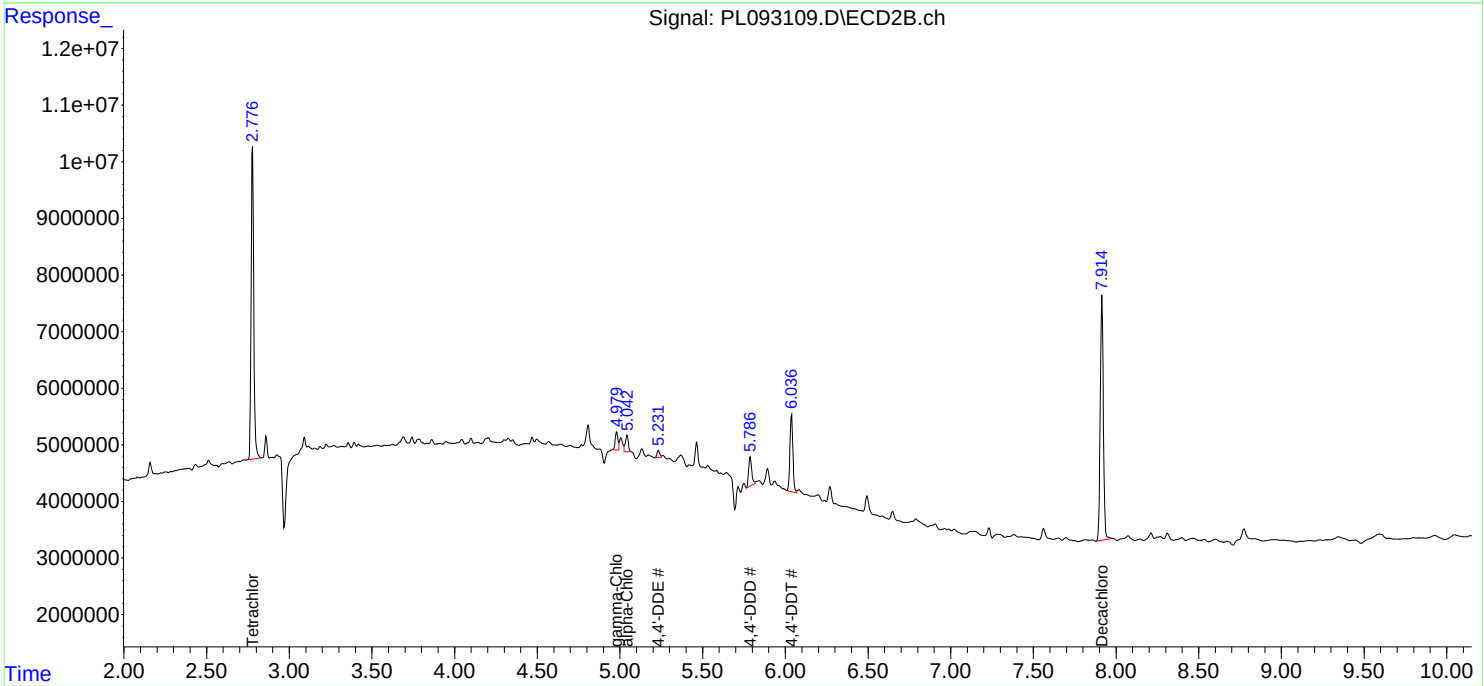
**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-004

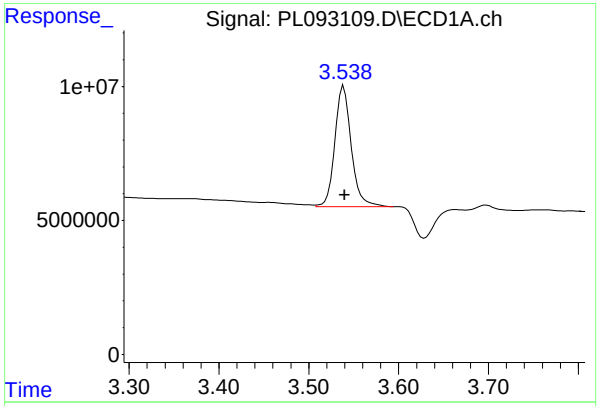
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 01:26:13 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





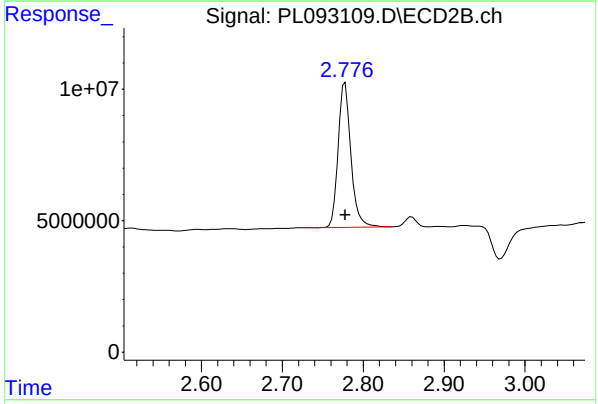

#1 Tetrachloro-m-xylene

R.T.: 3.538 min
Delta R.T.: -0.002 min
Response: 57302054
Conc: 23.39 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-004

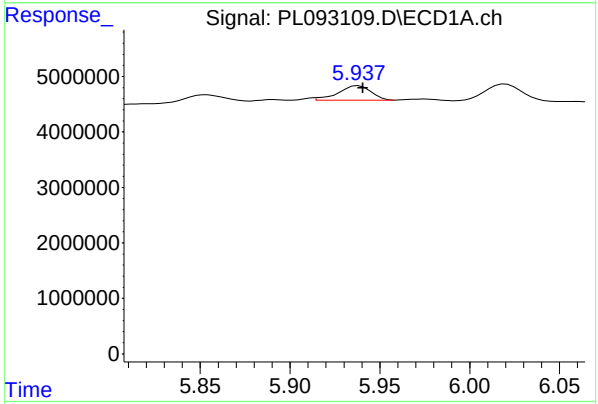
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



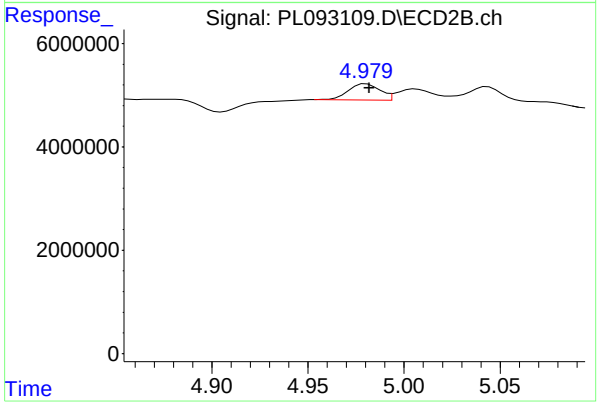

#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 60638790
Conc: 22.28 ng/ml



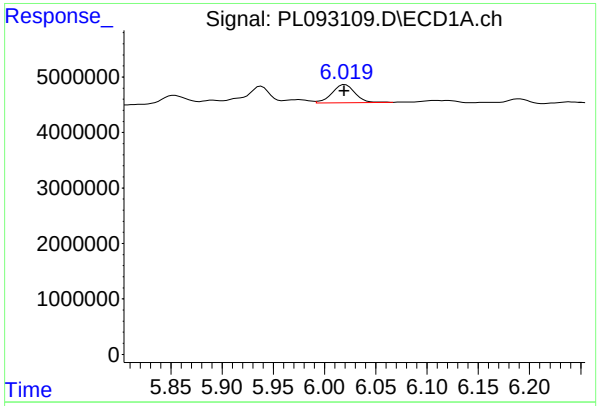

#10 gamma-Chlordane

R.T.: 5.937 min
Delta R.T.: -0.004 min
Response: 3269651
Conc: 1.23 ng/ml m




#10 gamma-Chlordane

R.T.: 4.979 min
Delta R.T.: -0.003 min
Response: 3549156
Conc: 1.06 ng/ml m



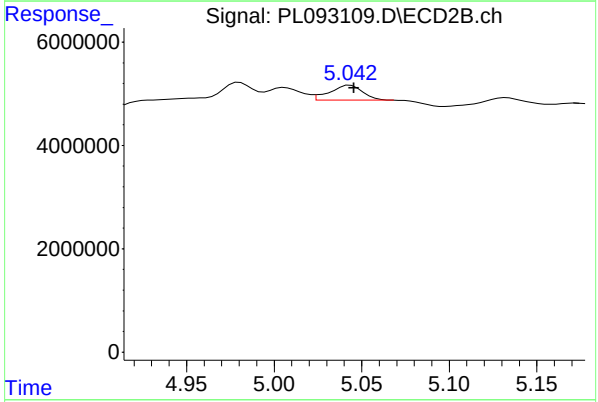

#11 alpha-Chlordane

R.T.: 6.020 min
Delta R.T.: 0.000 mi
Response: 5079786
Conc: 1.92 ng/m

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-004

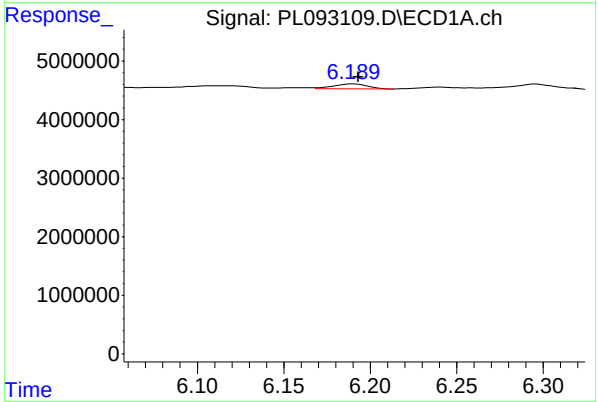
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



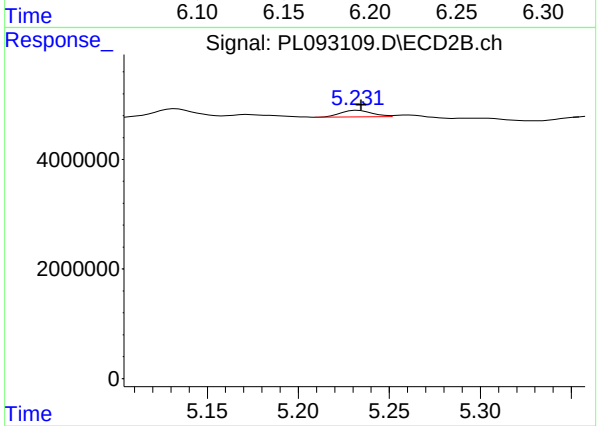

#11 alpha-Chlordane

R.T.: 5.042 min
Delta R.T.: -0.003 min
Response: 3671019
Conc: 1.10 ng/ml m



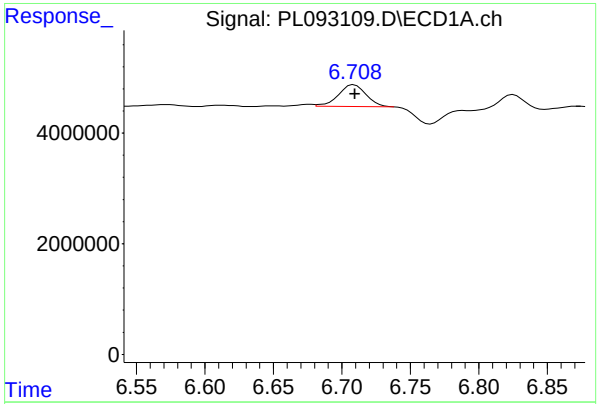

#12 4,4'-DDE

R.T.: 6.189 min
Delta R.T.: -0.004 min
Response: 1166346
Conc: 0.49 ng/ml m




#12 4,4'-DDE

R.T.: 5.231 min
Delta R.T.: -0.003 min
Response: 1524860
Conc: 0.47 ng/ml m



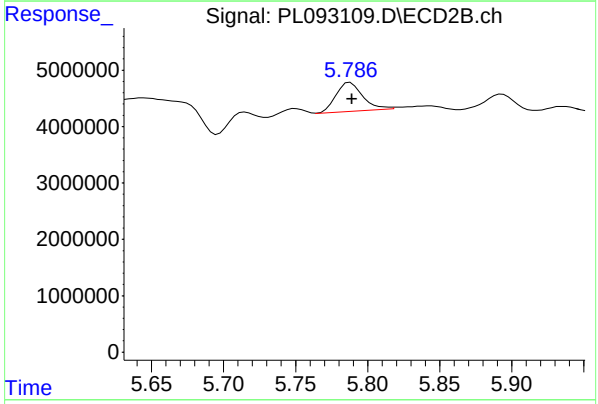

#16 4,4'-DDD

R.T.: 6.708 min
Delta R.T.: -0.002 mi
Response: 5485737
Conc: 2.86 ng/m

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-004

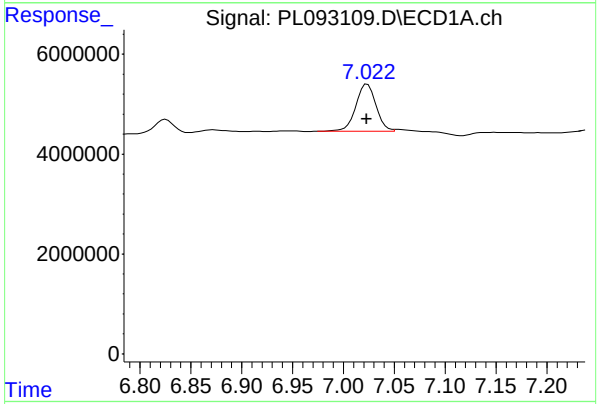
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



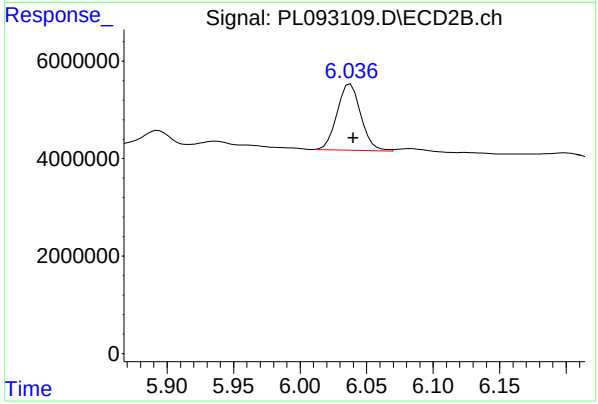

#16 4,4'-DDD

R.T.: 5.786 min
Delta R.T.: -0.003 min
Response: 6703865
Conc: 2.69 ng/ml m



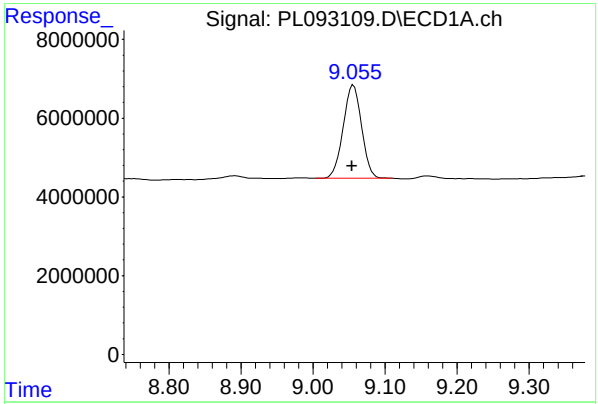

#17 4,4'-DDT

R.T.: 7.022 min
Delta R.T.: 0.000 min
Response: 13169960
Conc: 6.36 ng/ml m




#17 4,4'-DDT

R.T.: 6.038 min
Delta R.T.: -0.002 min
Response: 16891629
Conc: 6.30 ng/ml



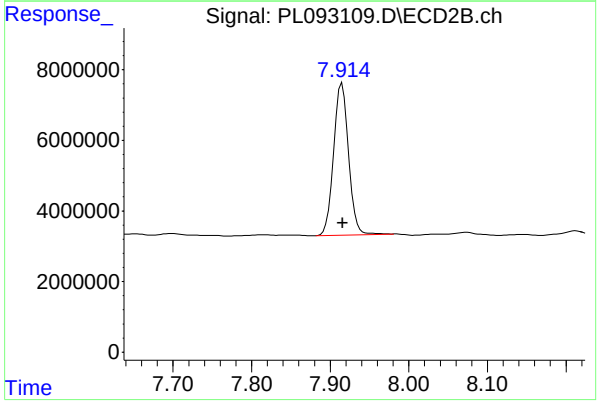

#28 Decachlorobiphenyl

R.T.: 9.056 min
Delta R.T.: 0.002 min
Response: 41951445
Conc: 21.80 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-004

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024




#28 Decachlorobiphenyl

R.T.: 7.915 min
Delta R.T.: 0.000 min
Response: 56758488
Conc: 20.80 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111824\
Data File : PL093113.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Nov 2024 13:45
Operator : AR\AJ
Sample : P4860-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 01:27:36 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 :**
PH2-BOT-009

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.538 | 2.777 | 56737259 | 61564675 | 23.156m | 22.624 |
| 28) | SA Decachlor... | 9.055 | 7.915 | 41930952 | 59898914 | 21.787 | 21.947 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

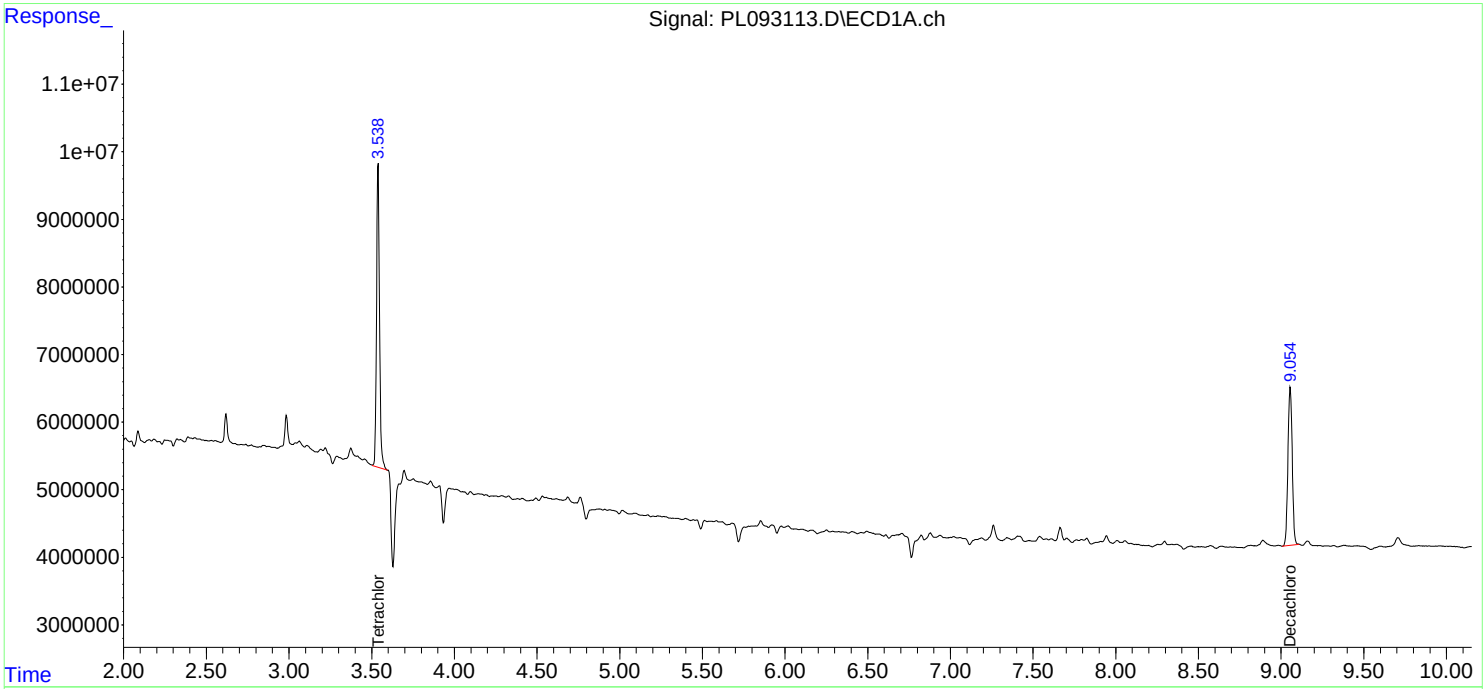
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111824\
Data File : PL093113.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Nov 2024 13:45
Operator : AR\AJ
Sample : P4860-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

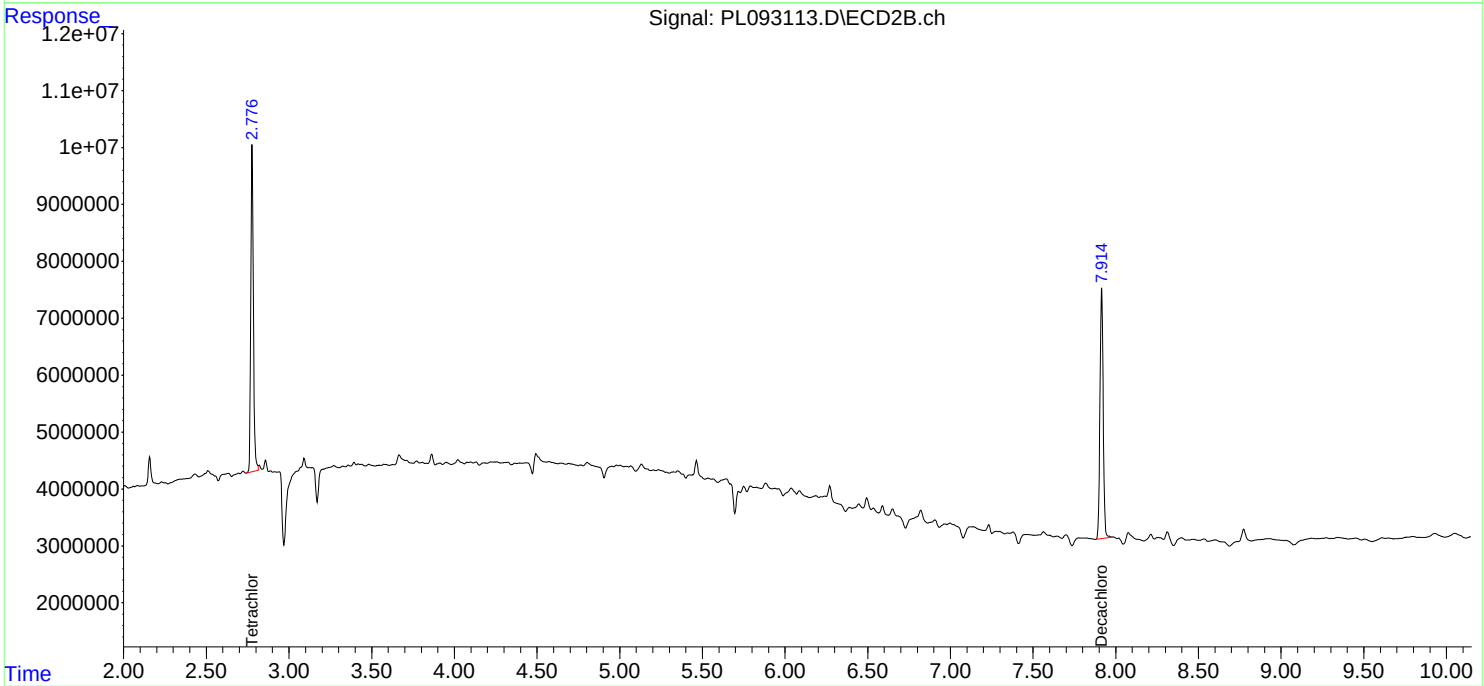
**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-009

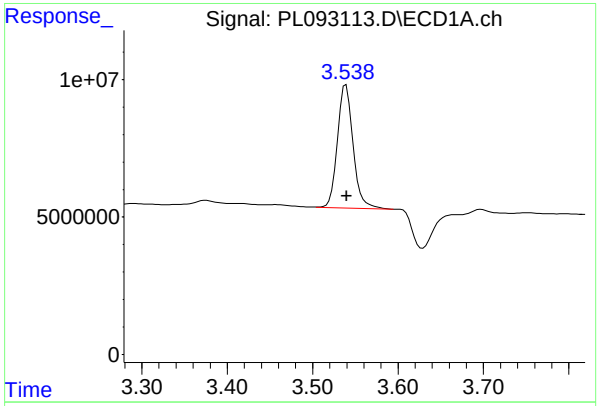
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 01:27:36 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





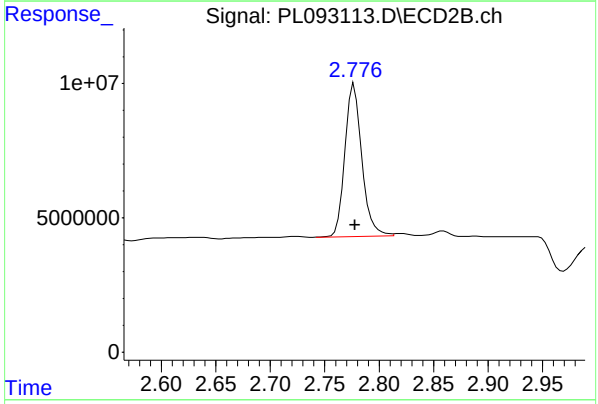

#1 Tetrachloro-m-xylene

R.T.: 3.538 min
Delta R.T.: -0.002 min
Response: 56737259
Conc: 23.16 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-009

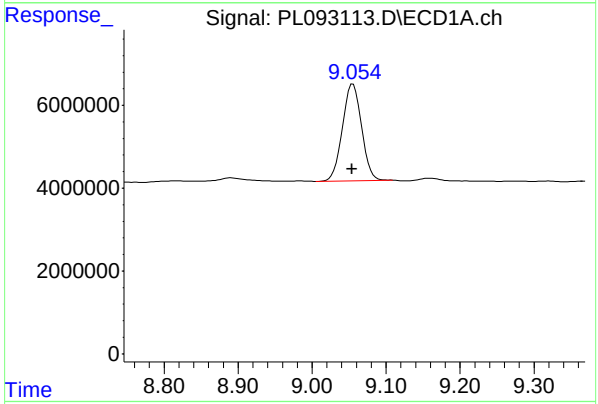
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



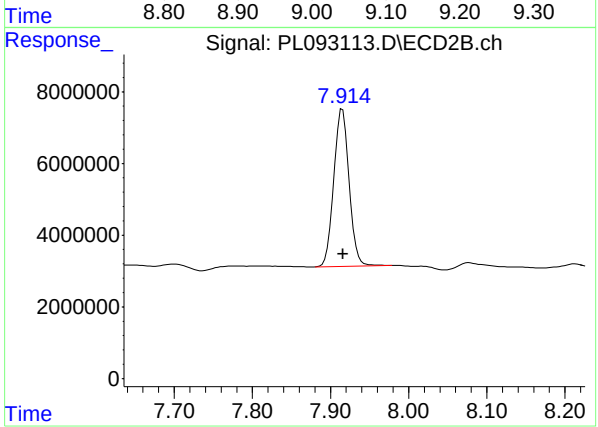

#1 Tetrachloro-m-xylene

R.T.: 2.777 min
Delta R.T.: 0.000 min
Response: 61564675
Conc: 22.62 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.055 min
Delta R.T.: 0.001 min
Response: 41930952
Conc: 21.79 ng/ml




#28 Decachlorobiphenyl

R.T.: 7.915 min
Delta R.T.: 0.000 min
Response: 59898914
Conc: 21.95 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093145.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 15:11
Operator : AR\AJ
Sample : P4860-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-008

**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 19 23:05:11 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... | 3.535 | 2.774 | 49808655 | 56374158 | 20.328m | 20.717 |
| 28) | SA Decachlor... | 9.054 | 7.914 | 34308855 | 52845627 | 17.827 | 19.363 |
| | Target Compounds | | | | | | |
| 10) | B gamma-Chl... | 5.937 | 4.977 | 10009906 | 7150328 | 3.762 | 2.127m# |
| 11) | B alpha-Chl... | 6.019 | 5.040 | 10450038 | 6517432 | 3.946 | 1.960m# |
| 16) | A 4,4'-DDD | 6.706 | 5.785 | 11852609 | 10348087 | 6.175m | 4.156m# |
| 17) | MA 4,4'-DDT | 7.021 | 6.034 | 3641175 | 6805329 | 1.759m | 2.537 # |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093145.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 15:11
Operator : AR\AJ
Sample : P4860-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

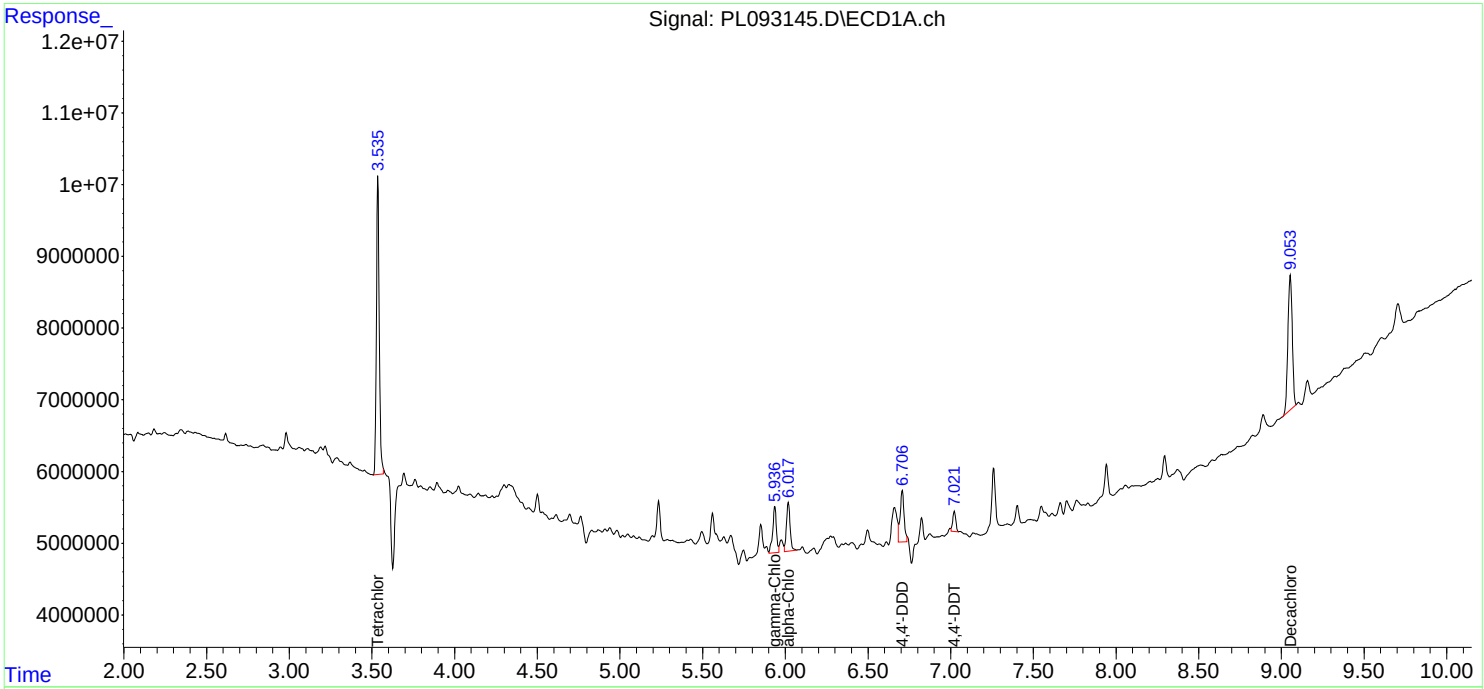
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 23:05:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

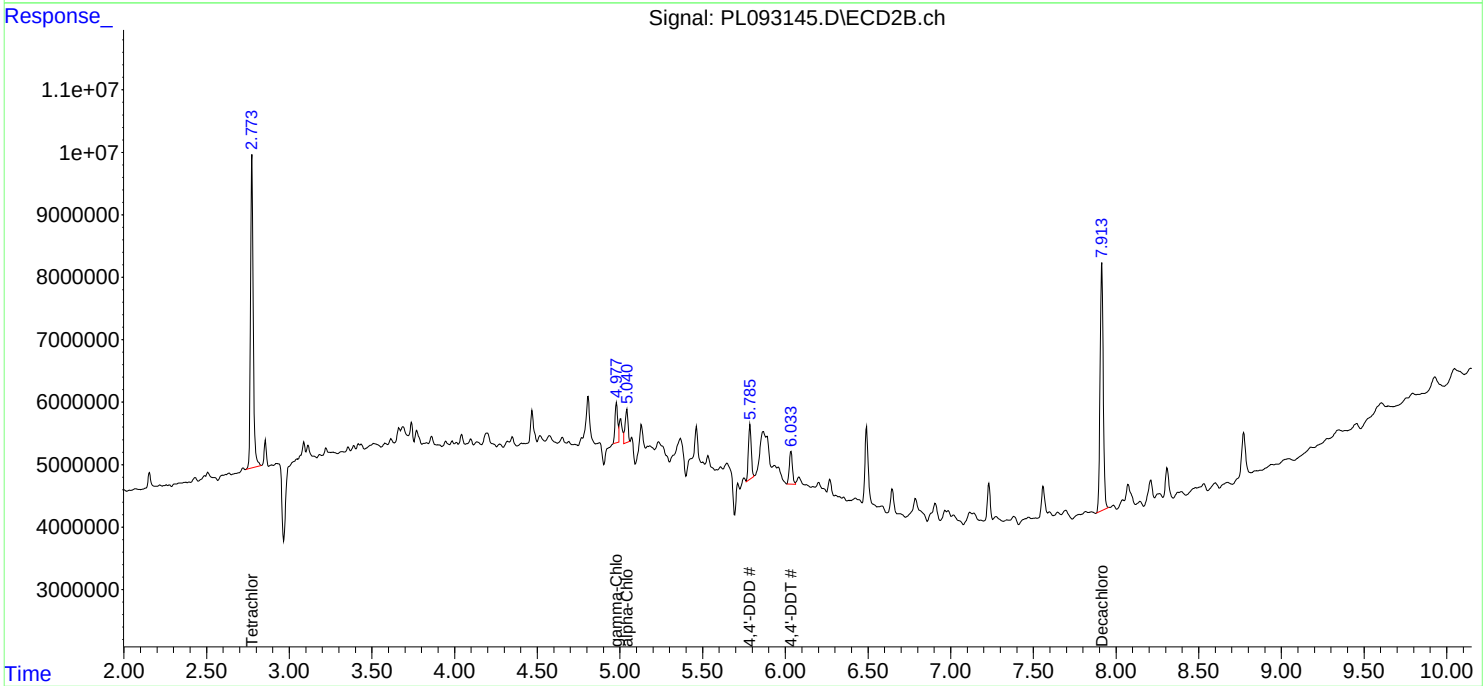
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

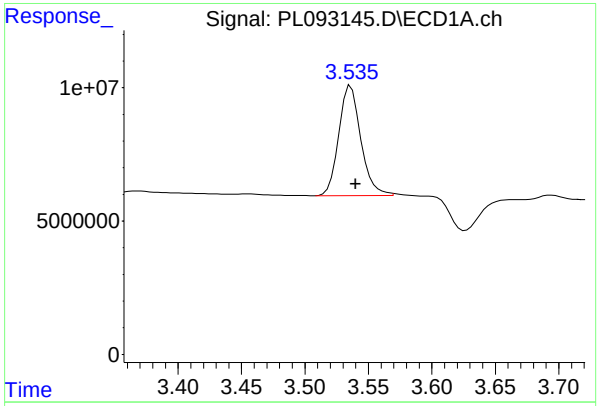
**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-008

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024





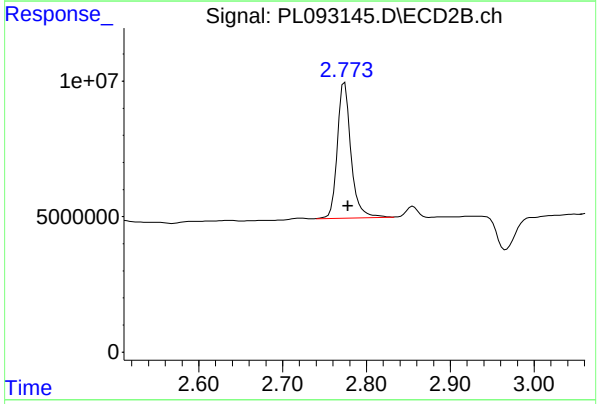

#1 Tetrachloro-m-xylene

R.T.: 3.535 min
Delta R.T.: -0.005 min
Response: 49808655
Conc: 20.33 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-008

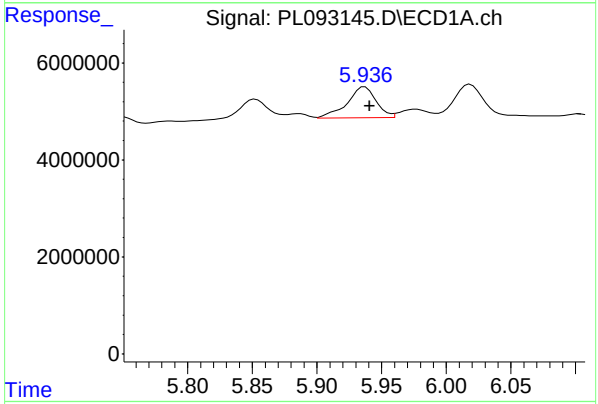
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



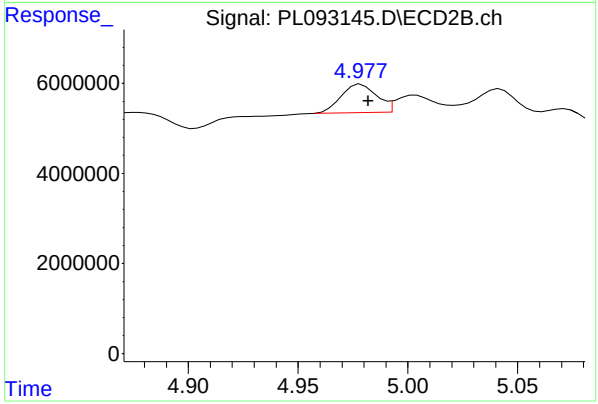

#1 Tetrachloro-m-xylene

R.T.: 2.774 min
Delta R.T.: -0.004 min
Response: 56374158
Conc: 20.72 ng/ml



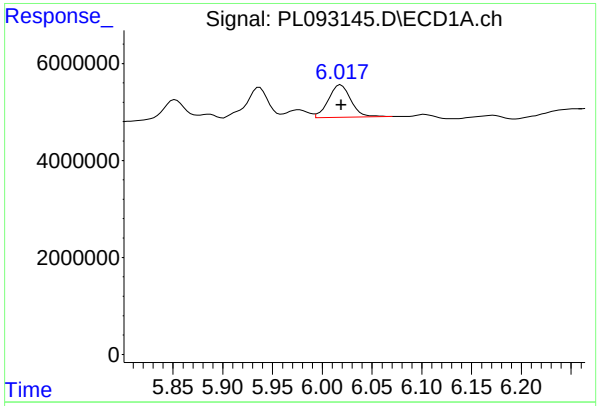

#10 gamma-Chlordane

R.T.: 5.937 min
Delta R.T.: -0.004 min
Response: 10009906
Conc: 3.76 ng/ml




#10 gamma-Chlordane

R.T.: 4.977 min
Delta R.T.: -0.005 min
Response: 7150328
Conc: 2.13 ng/ml m



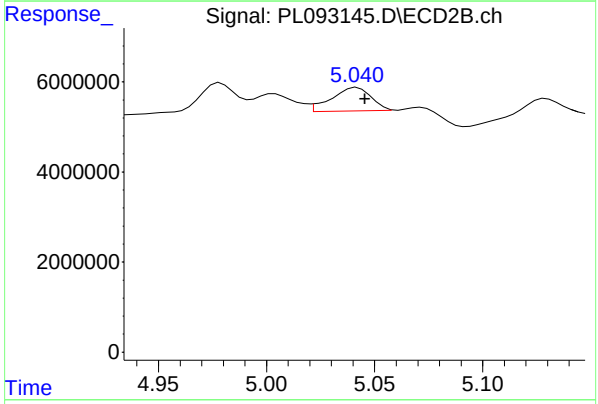

#11 alpha-Chlordane

R.T.: 6.019 min
Delta R.T.: 0.000 min
Response: 10450038
Conc: 3.95 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-008

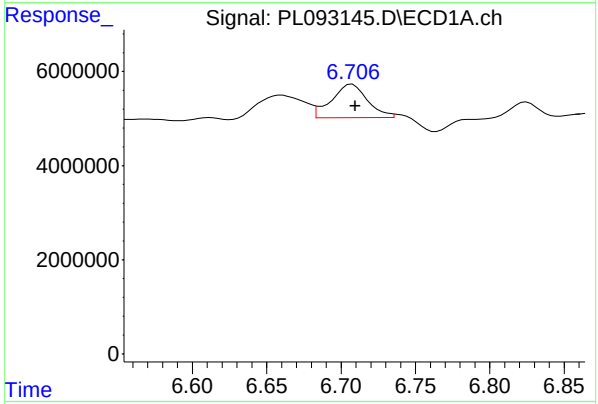
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



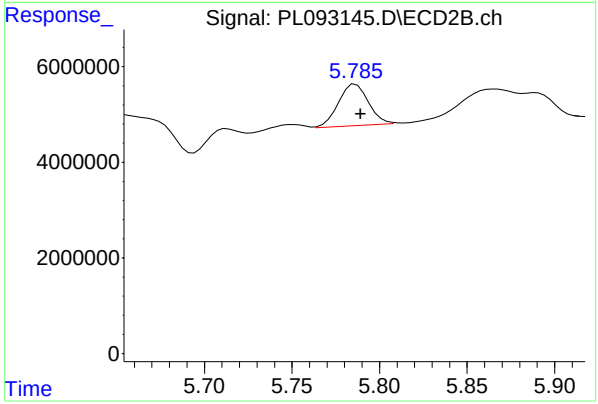

#11 alpha-Chlordane

R.T.: 5.040 min
Delta R.T.: -0.005 min
Response: 6517432
Conc: 1.96 ng/ml m



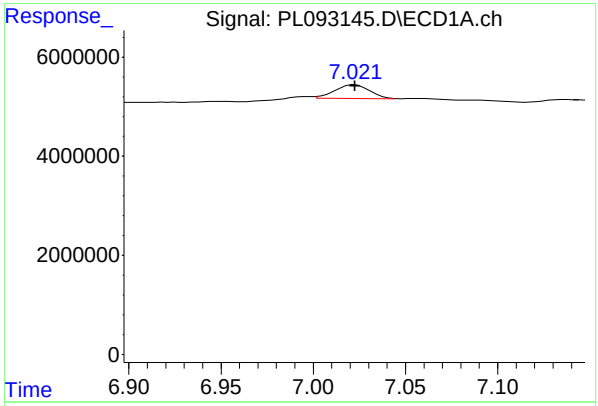

#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: -0.003 min
Response: 11852609
Conc: 6.17 ng/ml m




#16 4,4'-DDD

R.T.: 5.785 min
Delta R.T.: -0.004 min
Response: 10348087
Conc: 4.16 ng/ml m



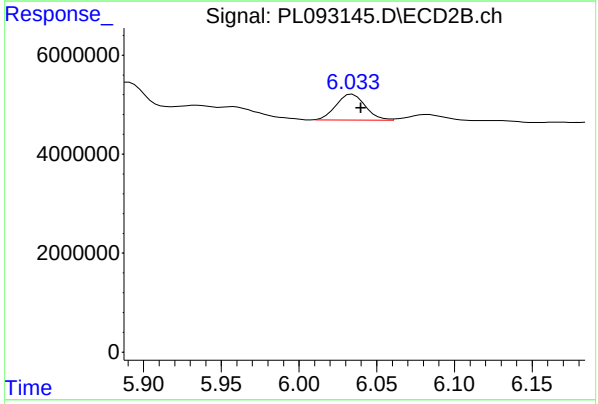

#17 4,4'-DDT

R.T.: 7.021 min
Delta R.T.: -0.001 min
Response: 3641175
Conc: 1.76 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-008

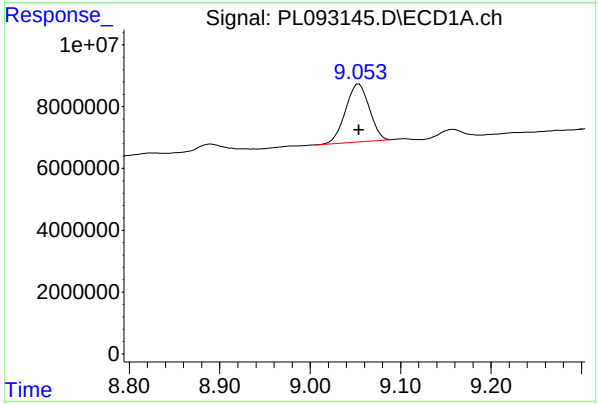
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



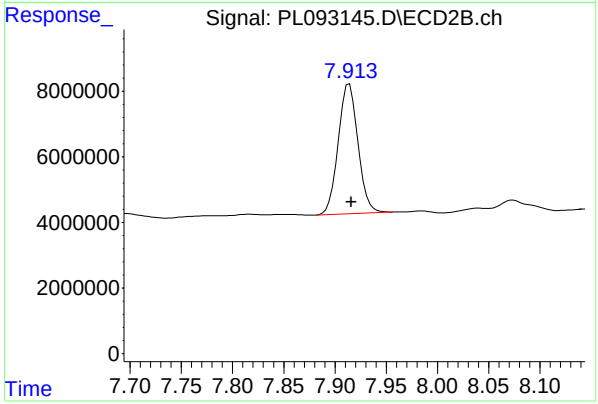

#17 4,4'-DDT

R.T.: 6.034 min
Delta R.T.: -0.005 min
Response: 6805329
Conc: 2.54 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.000 min
Response: 34308855
Conc: 17.83 ng/ml




#28 Decachlorobiphenyl

R.T.: 7.914 min
Delta R.T.: -0.002 min
Response: 52845627
Conc: 19.36 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093146.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 15:24
Operator : AR\AJ
Sample : P4860-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-007

**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 19 23:06:09 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... | 3.534 | 2.774 | 40200501 | 46134149 | 16.407m | 16.954 |
| 28) | SA Decachlor... | 9.053 | 7.913 | 31217356 | 47242121 | 16.221 | 17.310 |
| | Target Compounds | | | | | | |
| 12) | B 4,4'-DDE | 6.190 | 5.230 | 3319438 | 4265642 | 1.401 | 1.324m |
| 16) | A 4,4'-DDD | 6.707 | 5.784 | 5757426 | 6503064 | 2.999m | 2.612m |
| 17) | MA 4,4'-DDT | 7.026 | 6.033 | 10160828 | 3042346 | 4.909m | 1.134m# |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

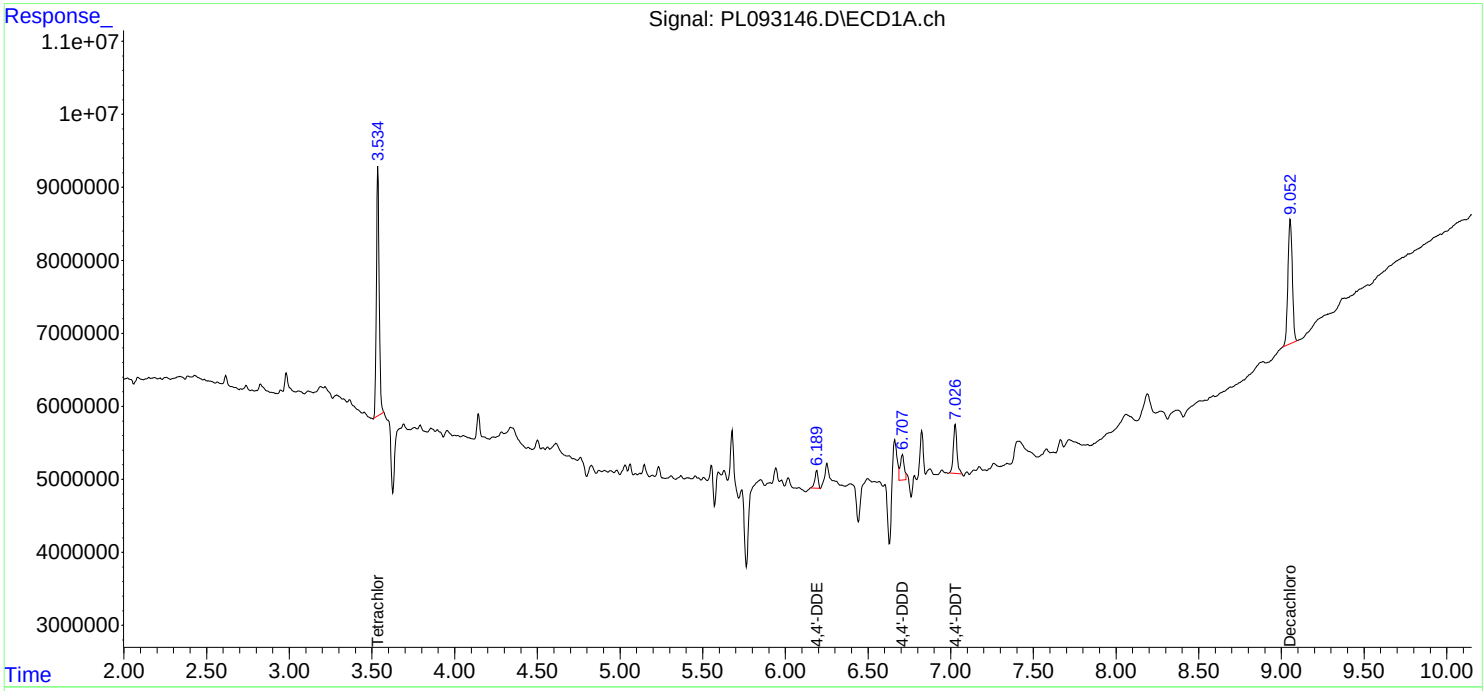
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093146.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 15:24
Operator : AR\AJ
Sample : P4860-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

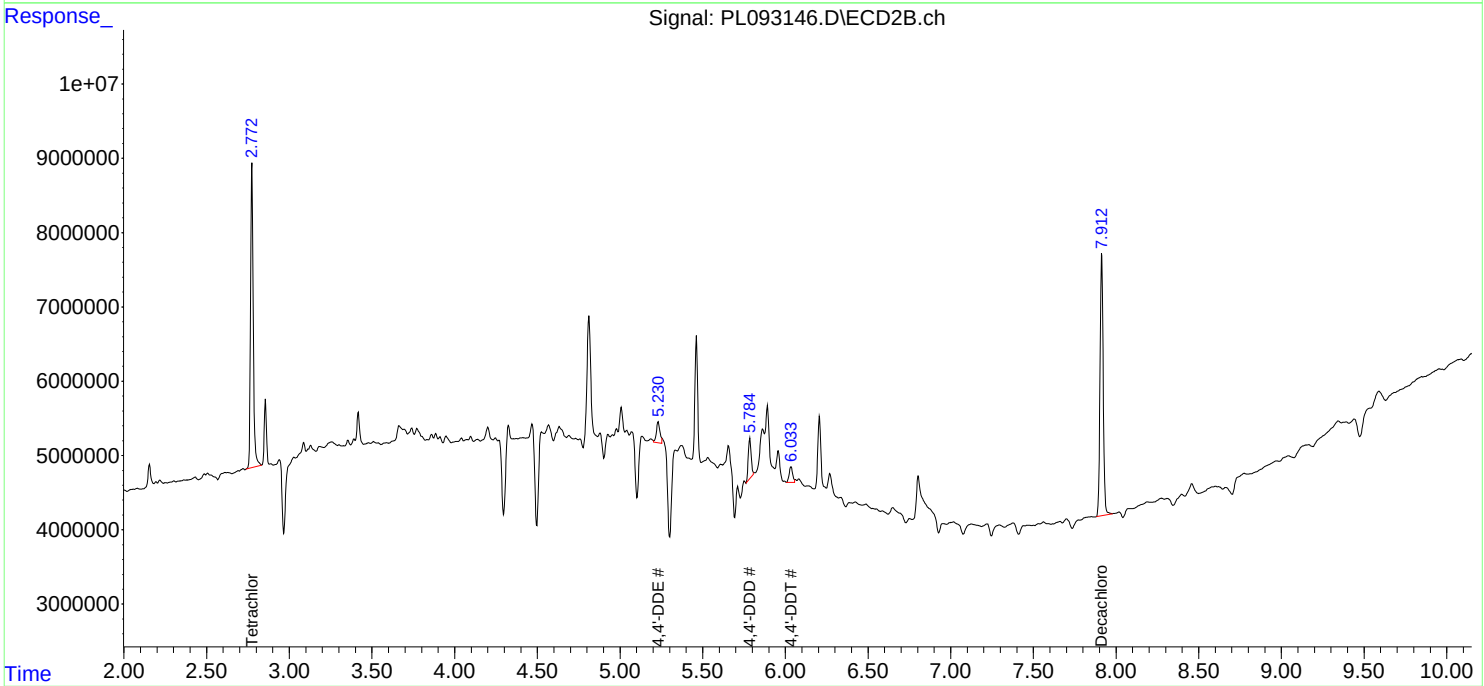
**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-007

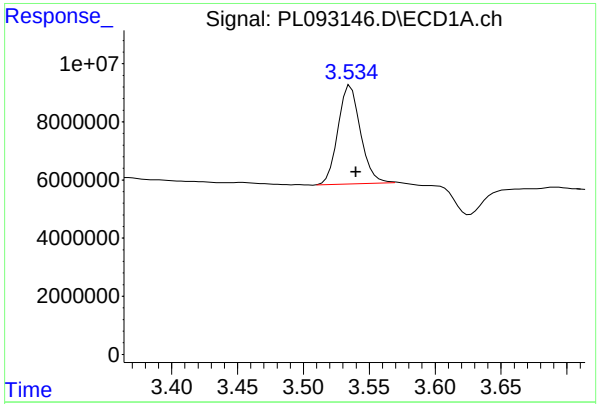
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 23:06:09 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





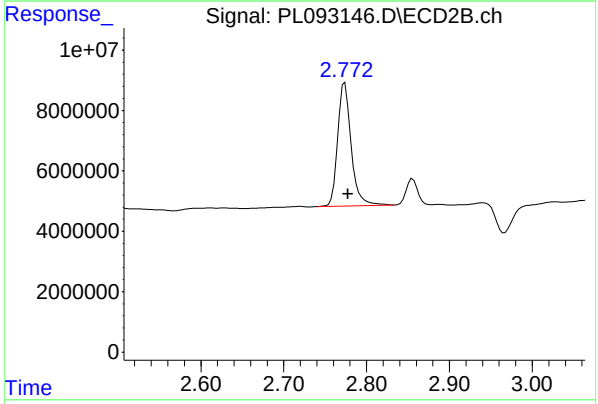

#1 Tetrachloro-m-xylene

R.T.: 3.534 min
Delta R.T.: -0.006 min
Response: 40200501
Conc: 16.41 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-007

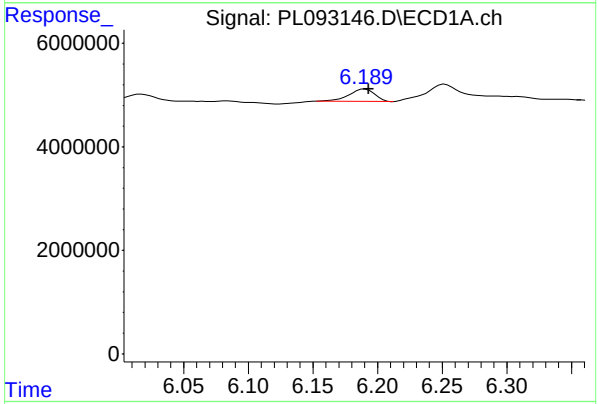
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



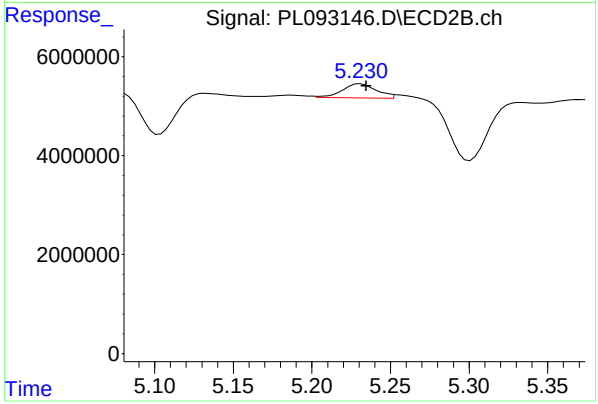

#1 Tetrachloro-m-xylene

R.T.: 2.774 min
Delta R.T.: -0.004 min
Response: 46134149
Conc: 16.95 ng/ml



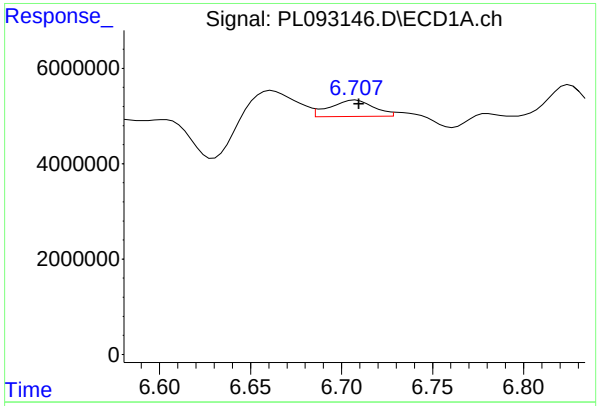

#12 4,4'-DDE

R.T.: 6.190 min
Delta R.T.: -0.003 min
Response: 3319438
Conc: 1.40 ng/ml




#12 4,4'-DDE

R.T.: 5.230 min
Delta R.T.: -0.005 min
Response: 4265642
Conc: 1.32 ng/ml m



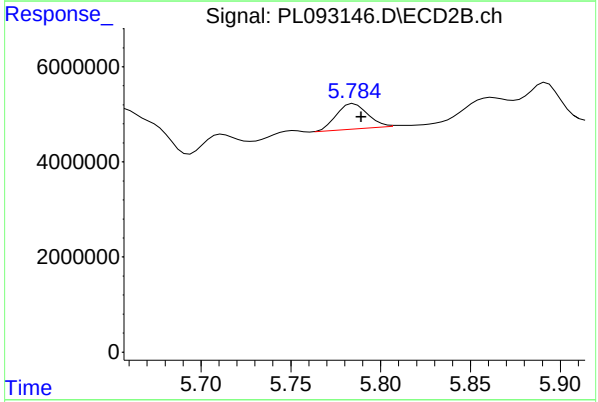

#16 4,4'-DDD

R.T.: 6.707 min
Delta R.T.: -0.003 min
Response: 5757426
Conc: 3.00 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-007

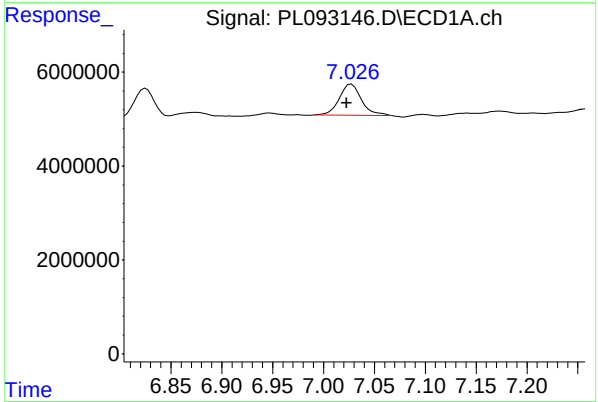
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



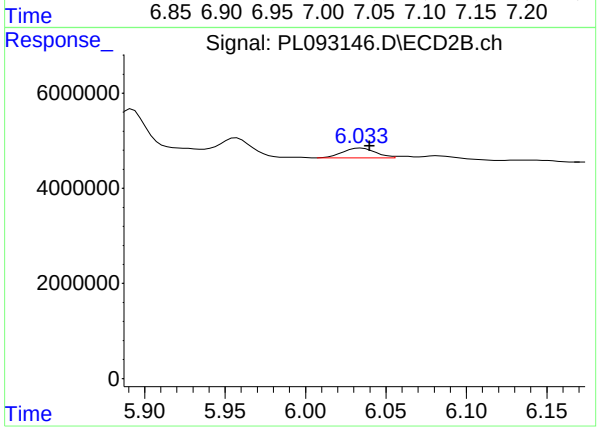

#16 4,4'-DDD

R.T.: 5.784 min
Delta R.T.: -0.005 min
Response: 6503064
Conc: 2.61 ng/ml m



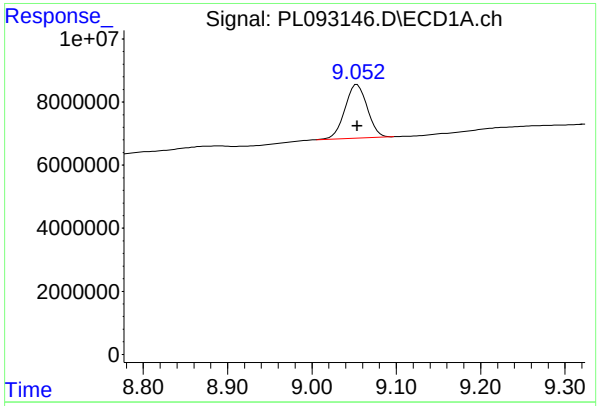

#17 4,4'-DDT

R.T.: 7.026 min
Delta R.T.: 0.003 min
Response: 10160828
Conc: 4.91 ng/ml m




#17 4,4'-DDT

R.T.: 6.033 min
Delta R.T.: -0.007 min
Response: 3042346
Conc: 1.13 ng/ml m



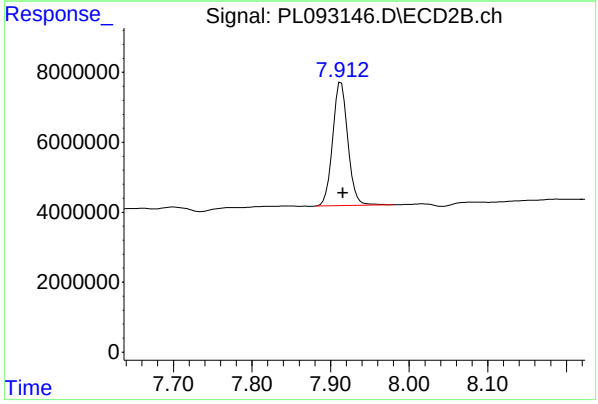

#28 Decachlorobiphenyl

R.T.: 9.053 min
Delta R.T.: 0.000 min
Response: 31217356
Conc: 16.22 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-007

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024




#28 Decachlorobiphenyl

R.T.: 7.913 min
Delta R.T.: -0.002 min
Response: 47242121
Conc: 17.31 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093143.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 14:44
Operator : AR\AJ
Sample : P4860-09
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 23:03:26 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 :**
PH2-BOT-006

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.534 | 2.774 | 48353135 | 54676961 | 19.734m | 20.093 |
| 28) | SA Decachlor... | 9.053 | 7.913 | 33218459 | 50507456 | 17.260 | 18.506 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093143.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 14:44
Operator : AR\AJ
Sample : P4860-09
Misc :
ALS Vial : 9 Sample Multiplier: 1

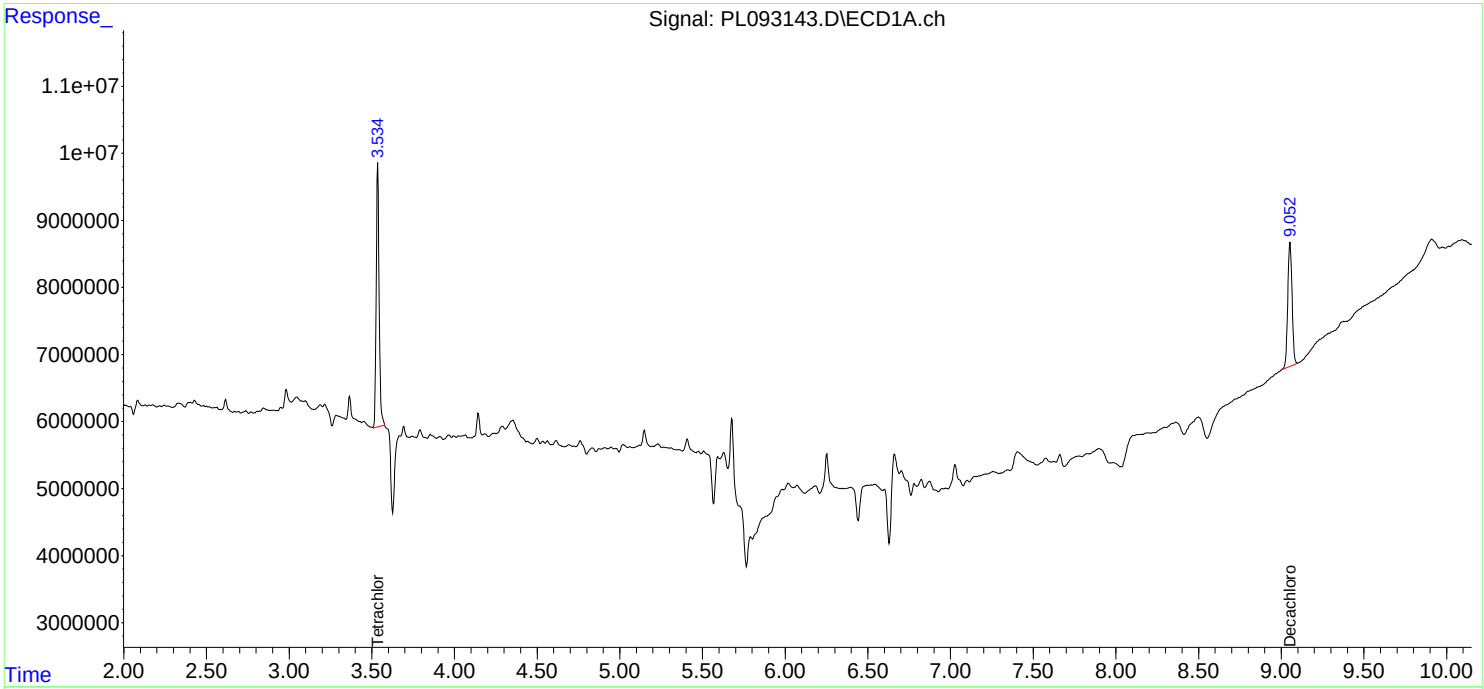
**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-006

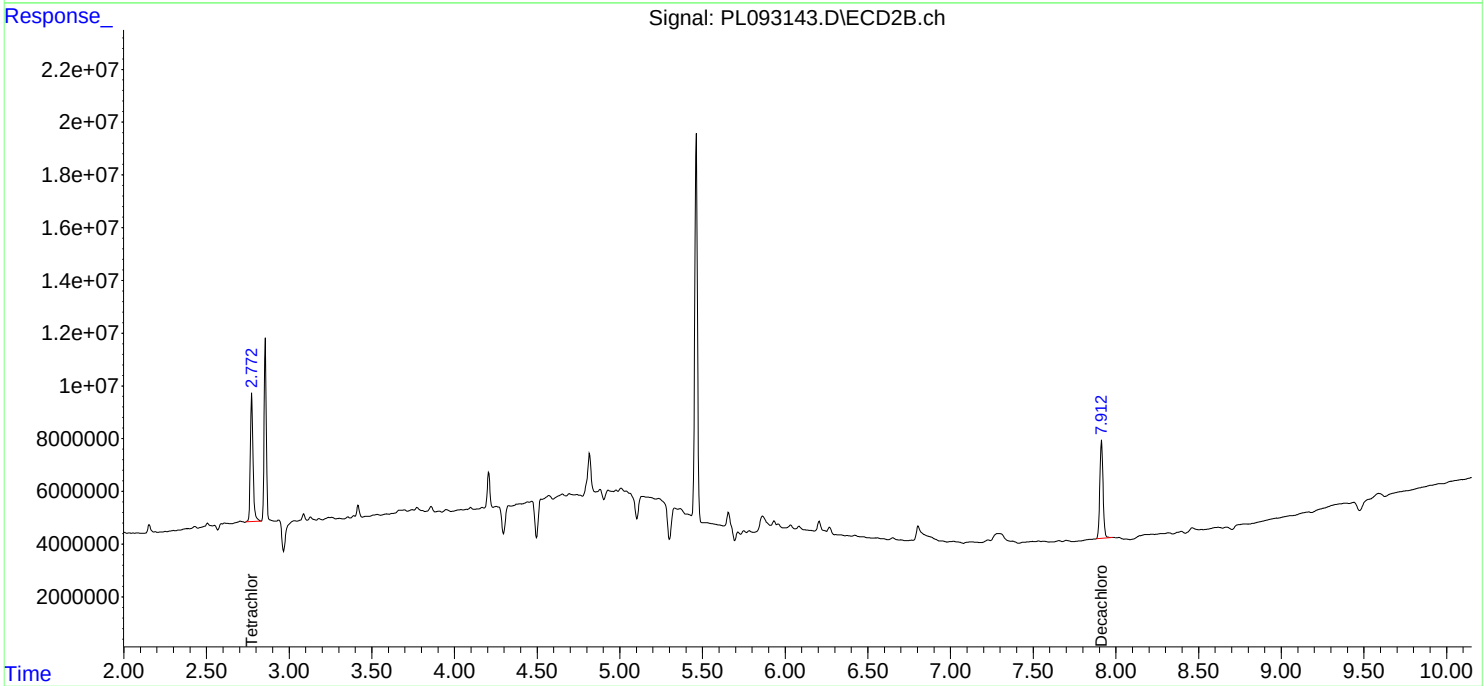
**Manual Integrations APPROVED**

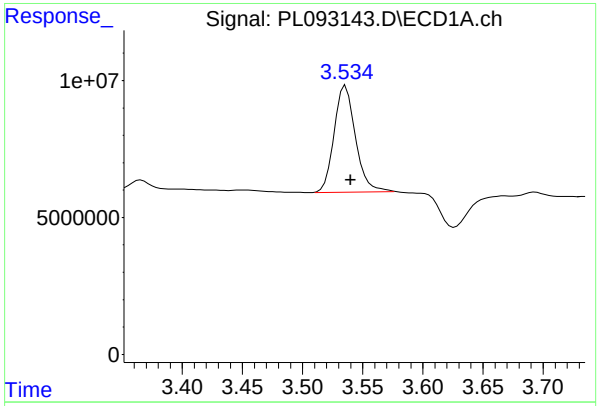
Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 23:03:26 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





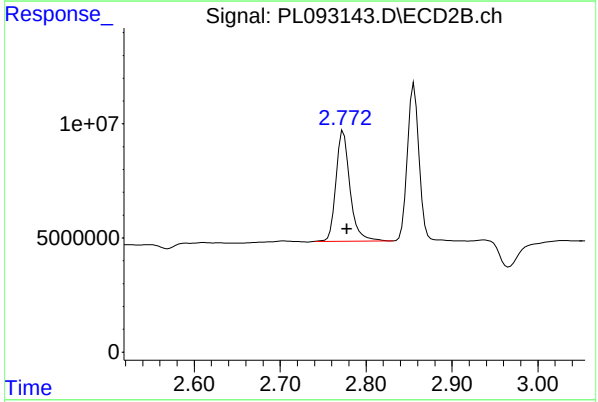

#1 Tetrachloro-m-xylene

R.T.: 3.534 min
Delta R.T.: -0.006 min
Response: 48353135
Conc: 19.73 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-006

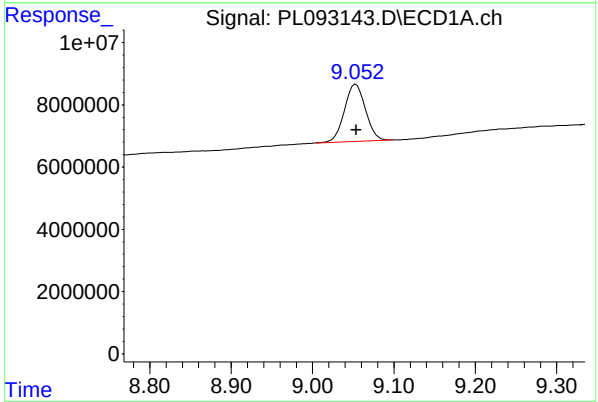
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



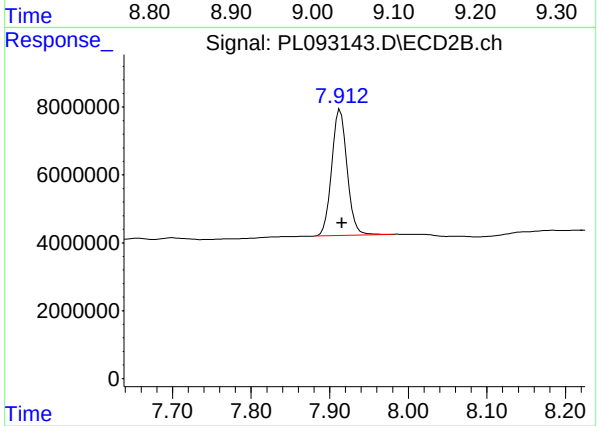

#1 Tetrachloro-m-xylene

R.T.: 2.774 min
Delta R.T.: -0.004 min
Response: 54676961
Conc: 20.09 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.053 min
Delta R.T.: 0.000 min
Response: 33218459
Conc: 17.26 ng/ml




#28 Decachlorobiphenyl

R.T.: 7.913 min
Delta R.T.: -0.002 min
Response: 50507456
Conc: 18.51 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093144.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 14:57
Operator : AR\AJ
Sample : P4860-10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 23:04:19 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 :**
PH2-BOT-005

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.534 | 2.773 | 48591948 | 53548701 | 19.832m | 19.679 |
| 28) | SA Decachlor... | 9.054 | 7.913 | 31773803 | 51111175 | 16.510 | 18.727 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

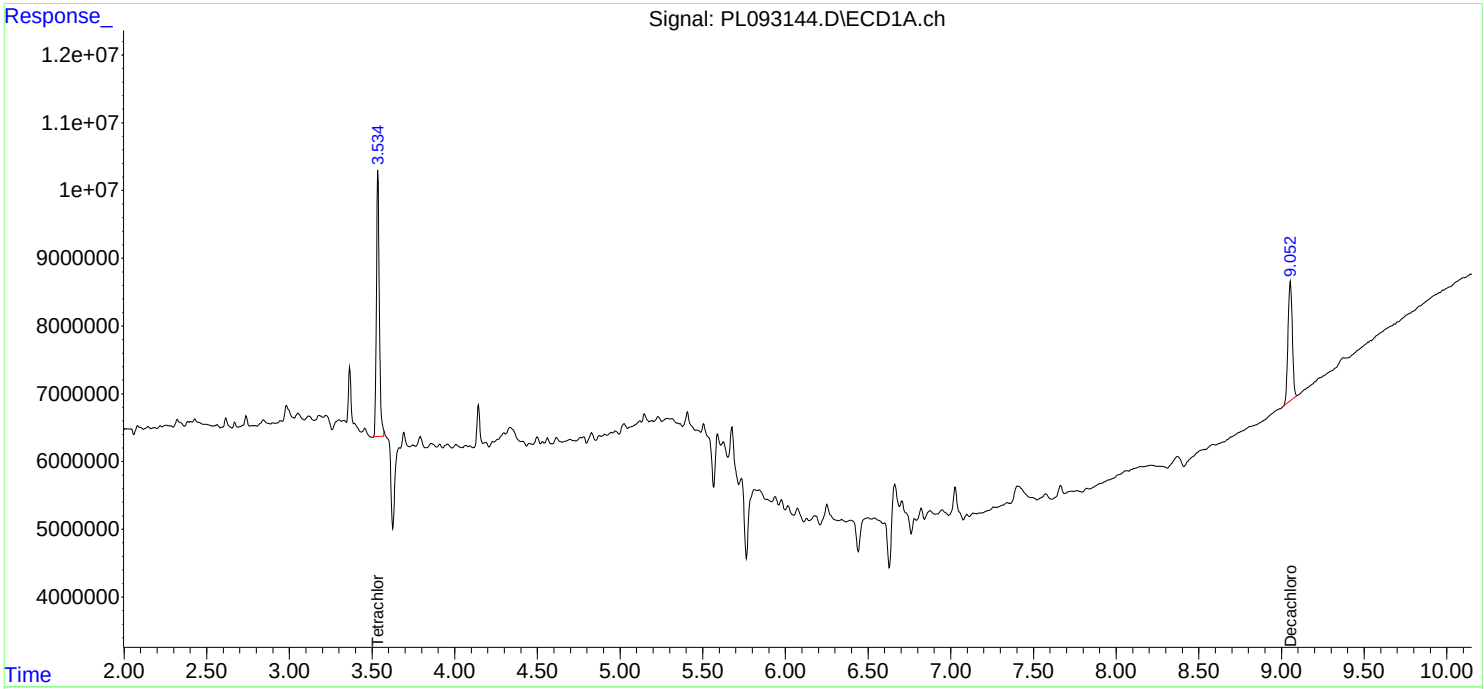
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093144.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 14:57
Operator : AR\AJ
Sample : P4860-10
Misc :
ALS Vial : 10 Sample Multiplier: 1

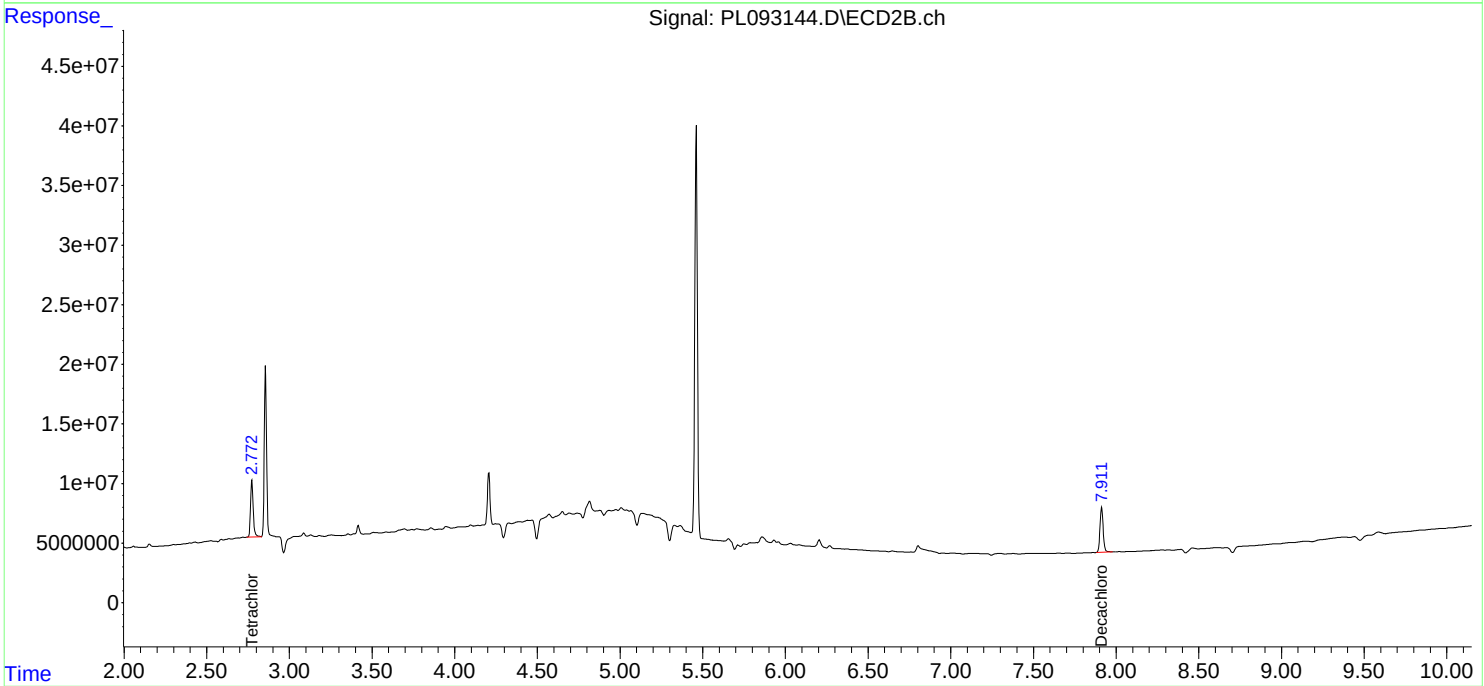
**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-005

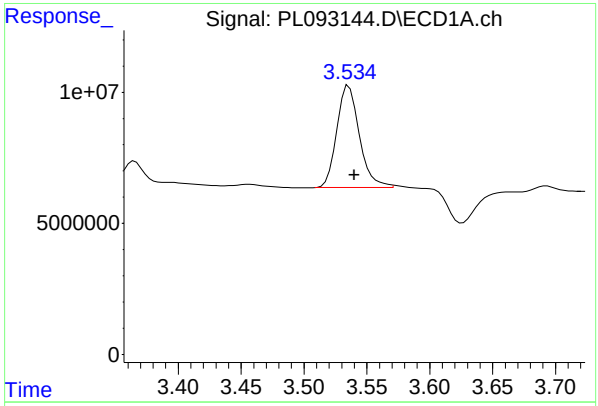
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 23:04:19 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





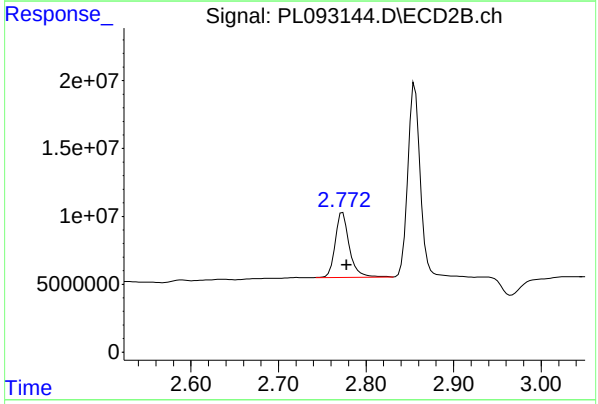

#1 Tetrachloro-m-xylene

R.T.: 3.534 min
Delta R.T.: -0.006 min
Response: 48591948
Conc: 19.83 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-005

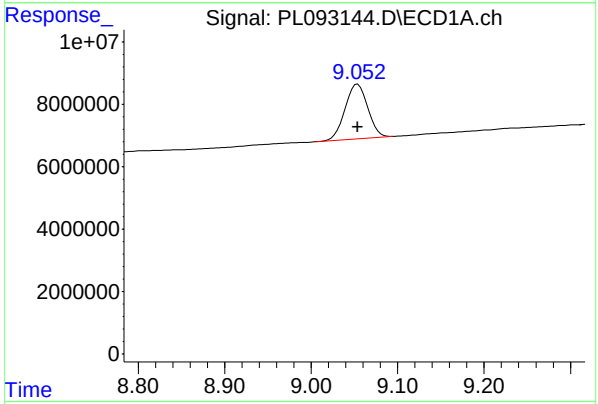
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



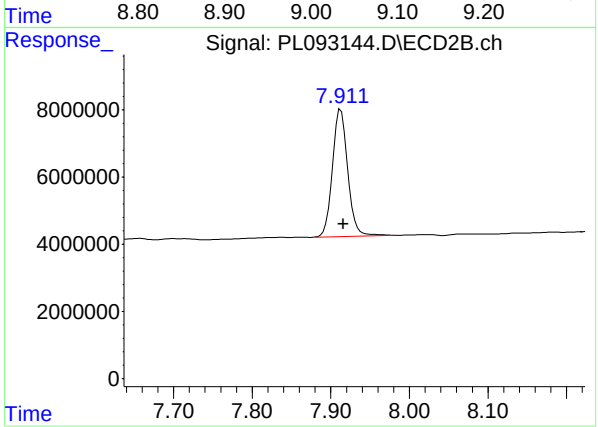

#1 Tetrachloro-m-xylene

R.T.: 2.773 min
Delta R.T.: -0.004 min
Response: 53548701
Conc: 19.68 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.000 min
Response: 31773803
Conc: 16.51 ng/ml




#28 Decachlorobiphenyl

R.T.: 7.913 min
Delta R.T.: -0.003 min
Response: 51111175
Conc: 18.73 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093140.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 14:05
Operator : AR\AJ
Sample : PB165046BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PB165046BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 23:00:28 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 | 47434026 | 49283232 | 19.359 | 18.111 |
| 28) | SA Decachlor... | 9.054 | 7.913 | 32055083 | 51659087 | 16.656 | 18.928 |
| | Target Compounds | | | | | | |

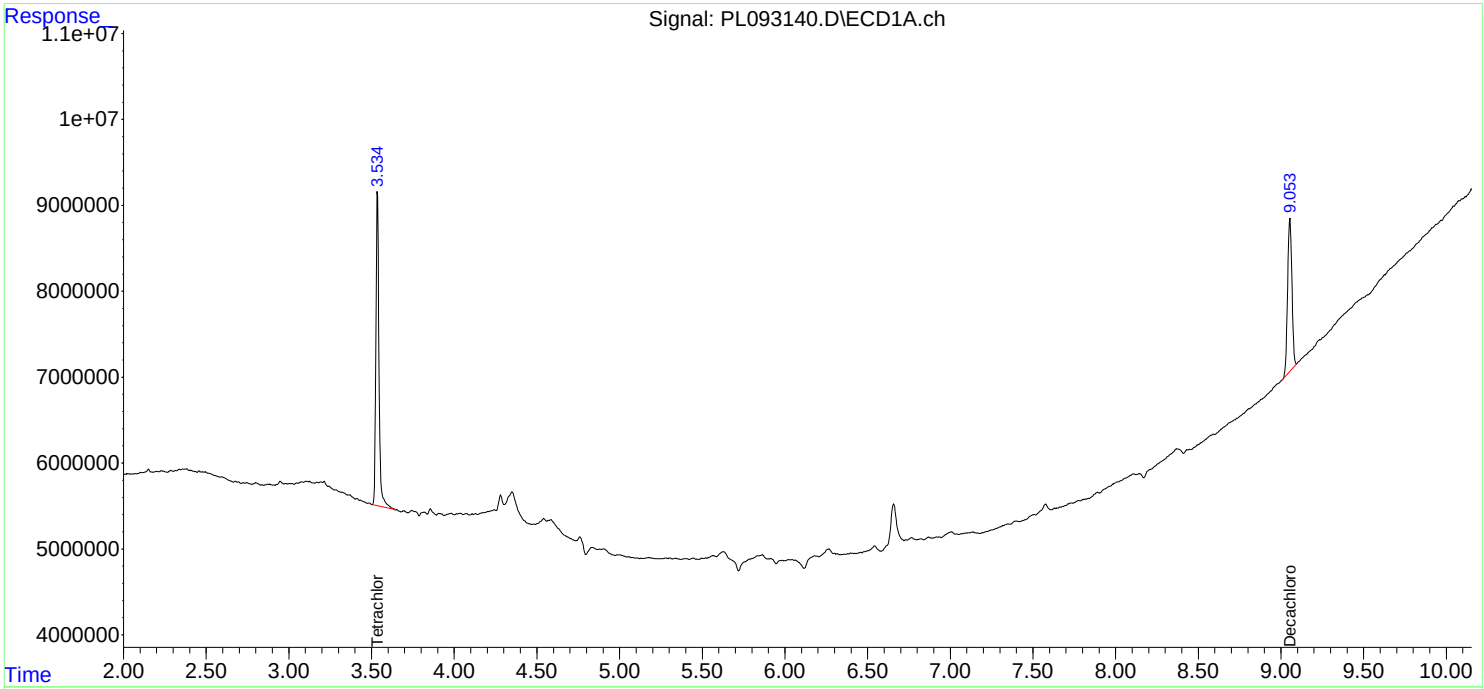
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

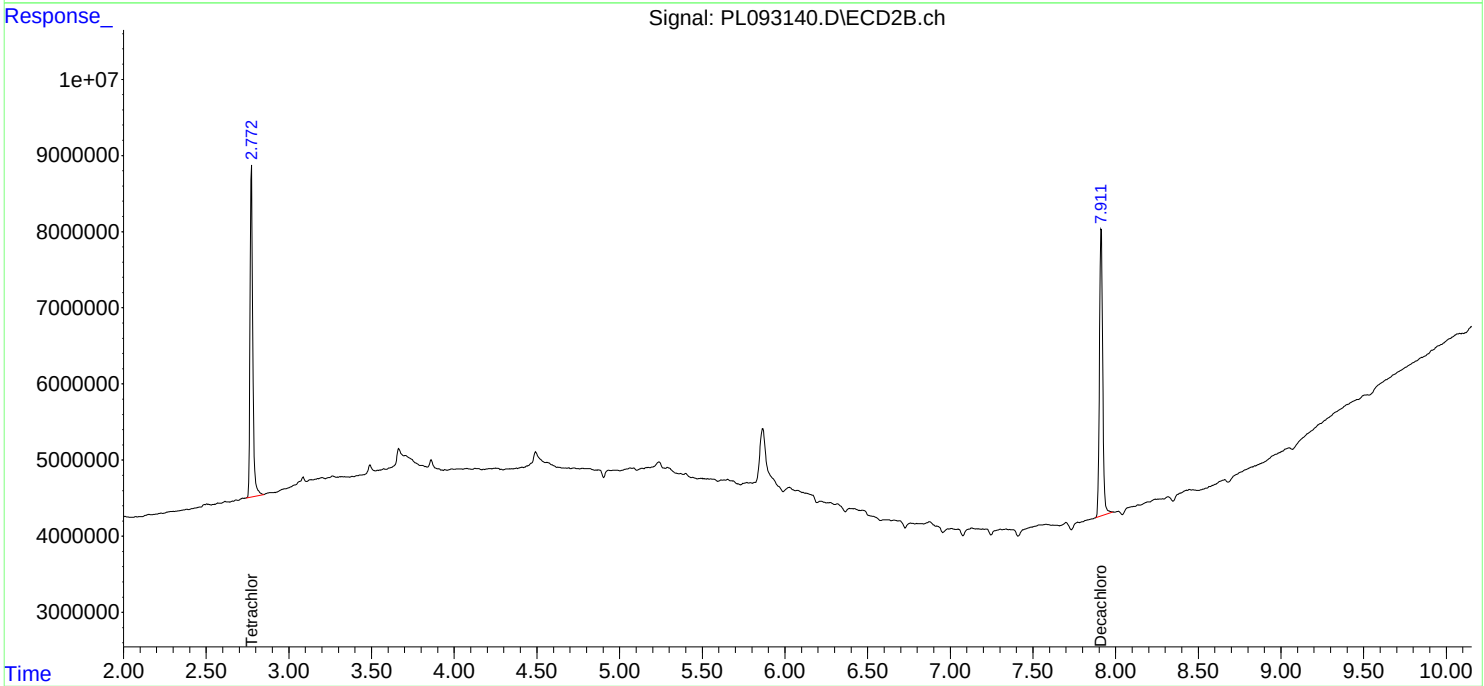
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093140.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 14:05
Operator : AR\AJ
Sample : PB165046BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

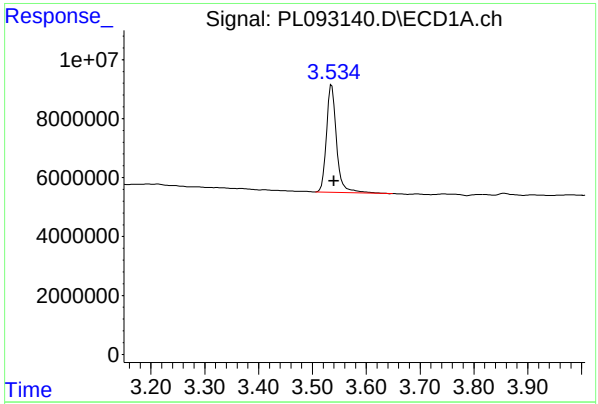
**Instrument :**
ECD_L
**ClientSampleId :**
PB165046BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 23:00:28 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



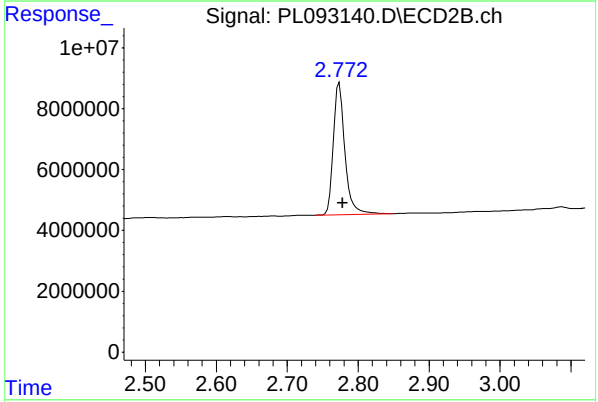






#1 Tetrachloro-m-xylene

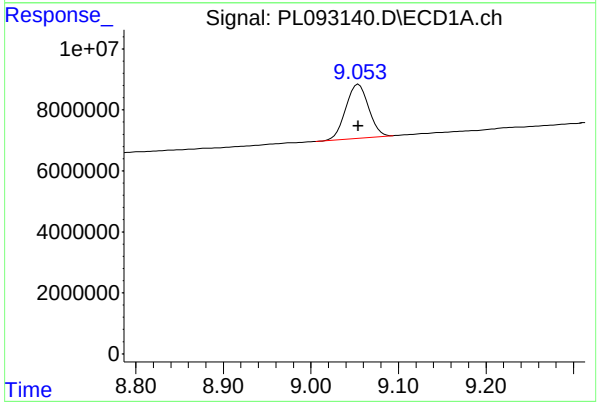
R.T.: 3.536 min
Delta R.T.: -0.004 min
Response: 47434026
Conc: 19.36 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PB165046BL



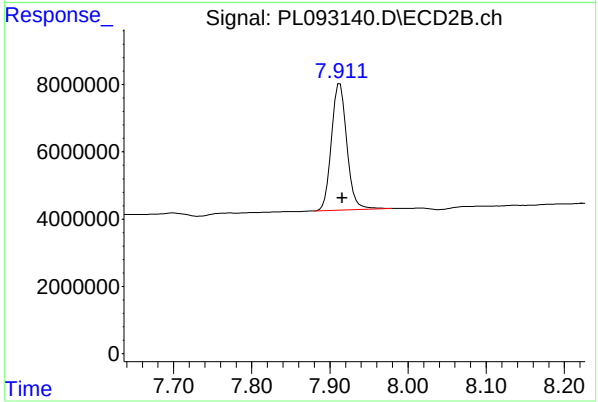

#1 Tetrachloro-m-xylene

R.T.: 2.773 min
Delta R.T.: -0.004 min
Response: 49283232
Conc: 18.11 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.000 min
Response: 32055083
Conc: 16.66 ng/ml




#28 Decachlorobiphenyl

R.T.: 7.913 min
Delta R.T.: -0.003 min
Response: 51659087
Conc: 18.93 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093139.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 13:52
Operator : AR\AJ
Sample : PB165046BS
Misc :
ALS Vial : 50 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PB165046BS

**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 19 22:59:34 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 | 49360549 | 49529498 | 20.145 | 18.202 |
| 28) | SA | Decachlor... | 9.054 | 7.913 | 27470790 | 44711539 | 14.274 | 16.382 |
| | | Target Compounds | | | | | | |
| 2) | A | alpha-BHC | 3.993 | 3.277 | 169.9E6 | 203.5E6 | 50.084 | 51.009 |
| 3) | MA | gamma-BHC... | 4.324 | 3.607 | 158.3E6 | 193.6E6 | 48.551m | 50.175 |
| 4) | MA | Heptachlor | 4.914 | 3.946 | 148.5E6 | 205.6E6 | 49.447 | 54.472 |
| 5) | MB | Aldrin | 5.256 | 4.226 | 139.5E6 | 180.8E6 | 46.486 | 49.392 |
| 6) | B | beta-BHC | 4.523 | 3.907 | 70453308 | 84759341 | 48.741 | 51.486 |
| 7) | B | delta-BHC | 4.770 | 4.136 | 135.6E6 | 160.5E6 | 43.311 | 41.762 |
| 8) | B | Heptachlo... | 5.682 | 4.729 | 128.3E6 | 170.8E6 | 46.460 | 51.105 |
| 9) | A | Endosulfan I | 6.069 | 5.098 | 119.4E6 | 162.3E6 | 47.740 | 53.153 |
| 10) | B | gamma-Chl... | 5.938 | 4.979 | 127.2E6 | 180.1E6 | 47.818 | 53.565 |
| 11) | B | alpha-Chl... | 6.017 | 5.042 | 127.7E6 | 177.0E6 | 48.205 | 53.205 |
| 12) | B | 4,4'-DDE | 6.191 | 5.232 | 115.1E6 | 174.7E6 | 48.579 | 54.239 |
| 13) | MA | Dieldrin | 6.343 | 5.363 | 126.2E6 | 177.0E6 | 47.900 | 52.991 |
| 14) | MA | Endrin | 6.573 | 5.638 | 106.6E6 | 162.6E6 | 46.816 | 56.214 |
| 15) | B | Endosulfa... | 6.793 | 5.933 | 109.0E6 | 151.6E6 | 45.741 | 53.520 |
| 16) | A | 4,4'-DDD | 6.707 | 5.786 | 89985487 | 135.0E6 | 46.879m | 54.226 |
| 17) | MA | 4,4'-DDT | 7.022 | 6.037 | 102.2E6 | 141.8E6 | 49.373 | 52.867 |
| 18) | B | Endrin al... | 6.922 | 6.112 | 84775799 | 116.3E6 | 45.142 | 50.403 |
| 19) | B | Endosulfa... | 7.157 | 6.335 | 96158498 | 135.7E6 | 44.306 | 50.325 |
| 20) | A | Methoxychlor | 7.499 | 6.612 | 52577850 | 74791686 | 46.121 | 52.374 |
| 21) | B | Endrin ke... | 7.642 | 6.839 | 112.5E6 | 157.8E6 | 46.450 | 51.409m |
| 22) | | Mirex | 8.116 | 7.020 | 79171493 | 114.2E6 | 39.951 | 43.768m |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

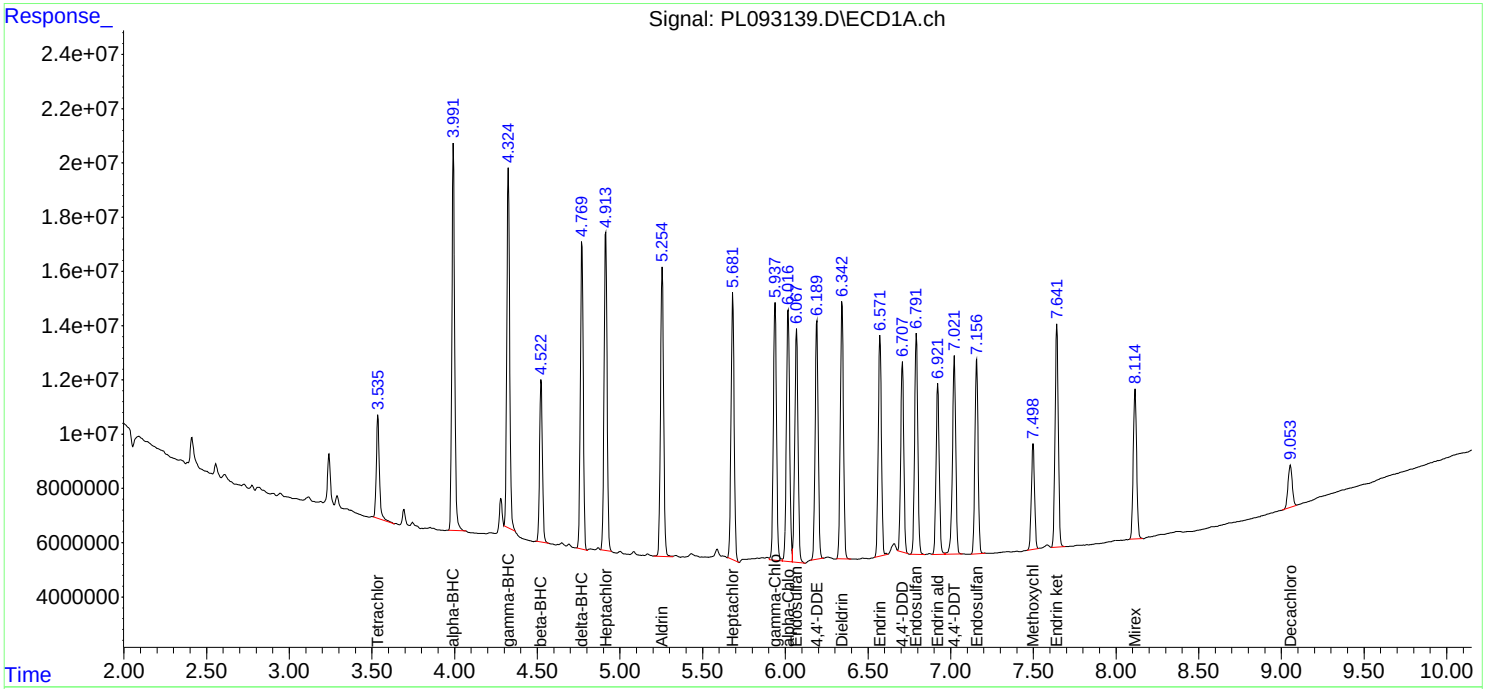
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093139.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 13:52
Operator : AR\AJ
Sample : PB165046BS
Misc :
ALS Vial : 50 Sample Multiplier: 1

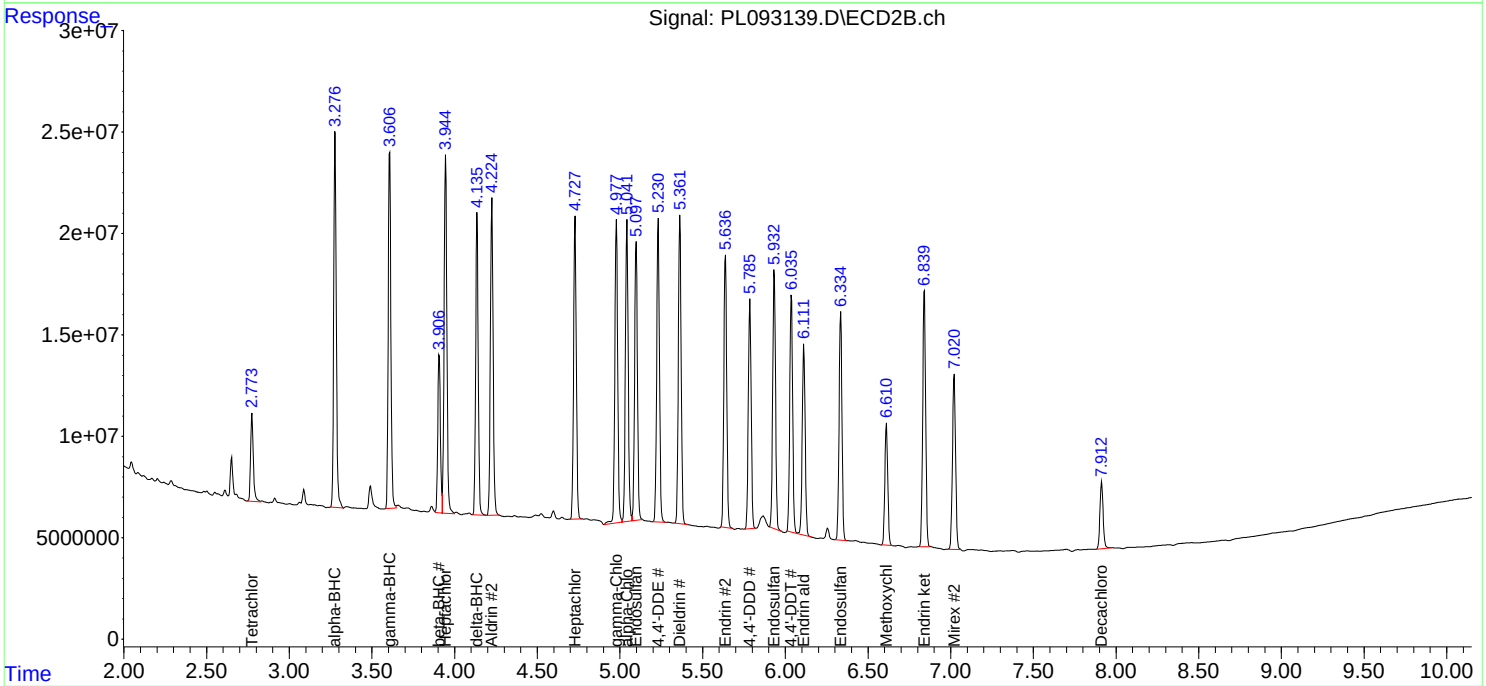
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 22:59:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

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 :**
PB165046BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093147.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 15:37
Operator : AR\AJ
Sample : P4860-08MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-007MS

**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 19 23:07:07 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... | 3.534 | 2.774 | 37307607 | 39587444 | 15.226m | 14.548 |
| 28) | SA Decachlor... | 9.053 | 7.913 | 28072872 | 43529296 | 14.587 | 15.949 |
| | Target Compounds | | | | | | |
| 2) | A alpha-BHC | 3.993 | 3.277 | 157.4E6 | 188.9E6 | 46.402 | 47.334 |
| 3) | MA gamma-BHC... | 4.325 | 3.607 | 149.4E6 | 180.3E6 | 45.835 | 46.720 |
| 4) | MA Heptachlor | 4.914 | 3.946 | 141.2E6 | 188.8E6 | 47.021 | 50.034 |
| 5) | MB Aldrin | 5.255 | 4.225 | 132.7E6 | 177.3E6 | 44.223 | 48.434 |
| 6) | B beta-BHC | 4.523 | 3.907 | 67499138 | 82071127 | 46.697 | 49.853 |
| 7) | B delta-BHC | 4.770 | 4.136 | 118.7E6 | 152.5E6 | 37.938 | 39.682 |
| 8) | B Heptachlo... | 5.682 | 4.728 | 122.3E6 | 161.9E6 | 44.290 | 48.451 |
| 9) | A Endosulfan I | 6.068 | 5.098 | 111.5E6 | 143.6E6 | 44.566 | 47.030 |
| 10) | B gamma-Chl... | 5.937 | 4.977 | 123.3E6 | 170.1E6 | 46.328 | 50.587m |
| 11) | B alpha-Chl... | 6.017 | 5.042 | 121.0E6 | 169.8E6 | 45.699 | 51.050 |
| 12) | B 4,4'-DDE | 6.190 | 5.231 | 110.1E6 | 169.4E6 | 46.489 | 52.581 |
| 13) | MA Dieldrin | 6.343 | 5.362 | 116.7E6 | 168.5E6 | 44.266 | 50.454 |
| 14) | MA Endrin | 6.571 | 5.637 | 101.5E6 | 151.9E6 | 44.585m | 52.512m |
| 15) | B Endosulfa... | 6.791 | 5.933 | 106.2E6 | 140.6E6 | 44.554m | 49.639 |
| 16) | A 4,4'-DDD | 6.707 | 5.786 | 88274481 | 129.5E6 | 45.988m | 52.011 |
| 17) | MA 4,4'-DDT | 7.022 | 6.036 | 104.0E6 | 137.0E6 | 50.237 | 51.077 |
| 18) | B Endrin al... | 6.921 | 6.112 | 77298481 | 106.7E6 | 41.161m | 46.261 |
| 19) | B Endosulfa... | 7.157 | 6.335 | 91023048 | 126.1E6 | 41.940 | 46.765 |
| 20) | A Methoxychlor | 7.499 | 6.612 | 49633750 | 70726700 | 43.538 | 49.527 |
| 21) | B Endrin ke... | 7.642 | 6.841 | 106.1E6 | 145.5E6 | 43.812 | 47.404 |
| 22) | Mirex | 8.116 | 7.021 | 75067847 | 109.8E6 | 37.880 | 42.077 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093147.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 15:37
Operator : AR\AJ
Sample : P4860-08MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

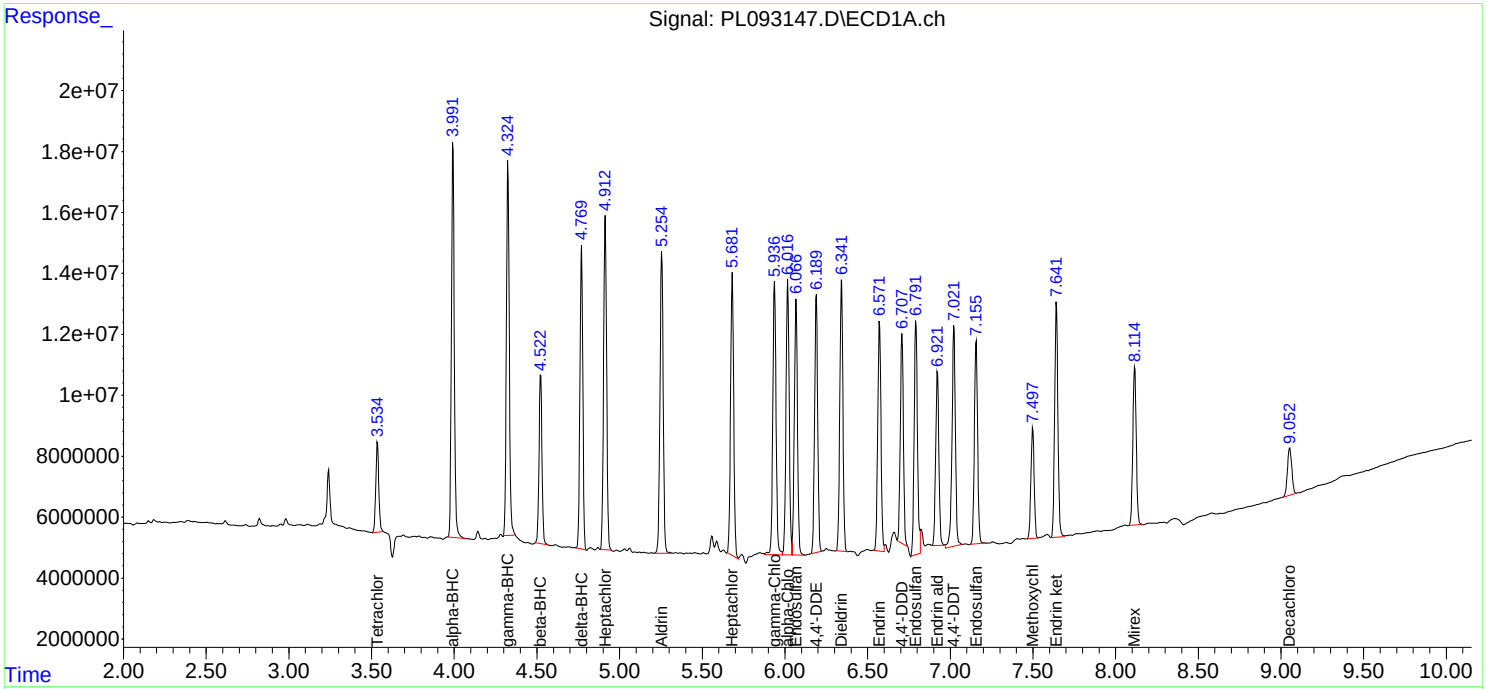
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 23:07:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

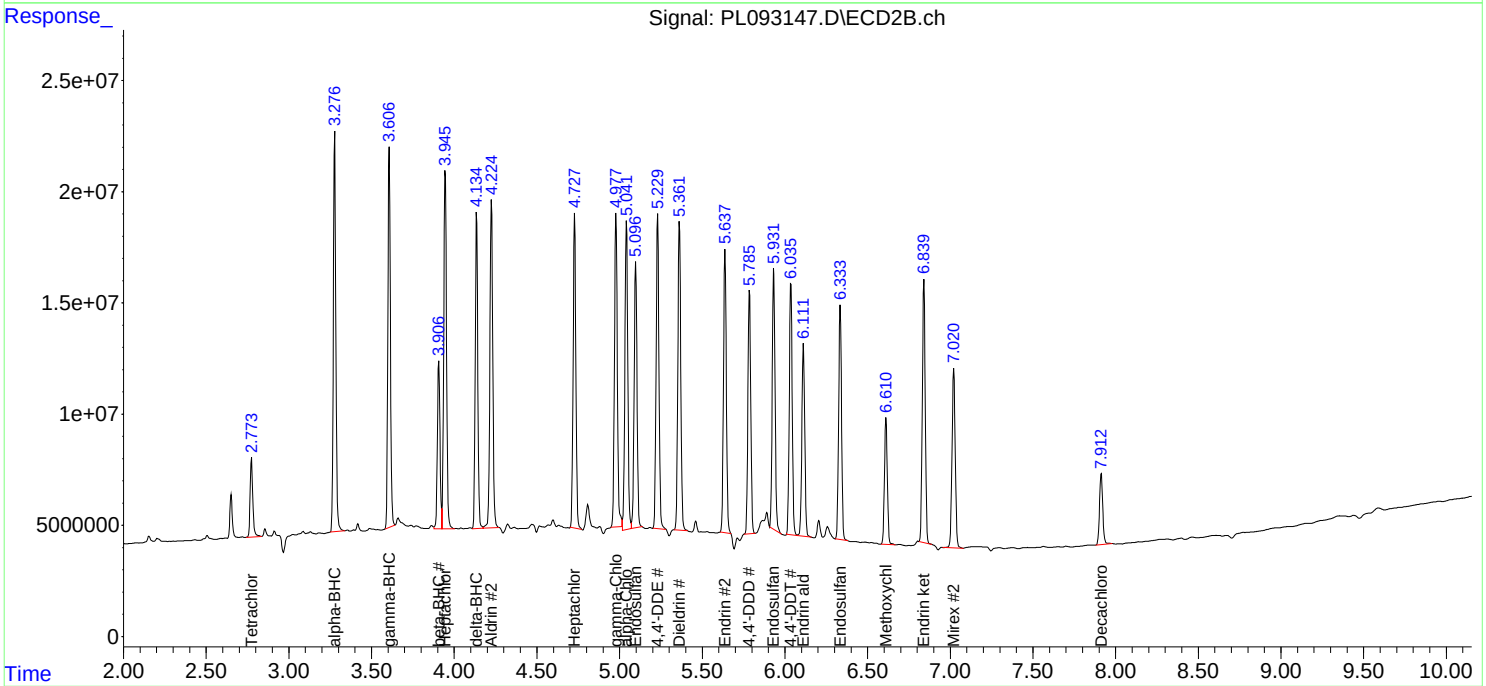
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-007MS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093148.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 15:50
Operator : AR\AJ
Sample : P4860-08MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-007MSD

**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 19 23:08:05 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... | 3.534 | 2.774 | 36909990 | 38702462 | 15.064m | 14.223 |
| 28) | SA Decachlor... | 9.053 | 7.912 | 27957990 | 42945544 | 14.527 | 15.735 |
| | **Target Compounds** | | | | | | |
| 2) | A alpha-BHC | 3.992 | 3.277 | 156.3E6 | 186.4E6 | 46.076 | 46.710 |
| 3) | MA gamma-BHC... | 4.324 | 3.607 | 148.0E6 | 177.9E6 | 45.404 | 46.082 |
| 4) | MA Heptachlor | 4.913 | 3.946 | 140.2E6 | 186.1E6 | 46.698 | 49.322 |
| 5) | MB Aldrin | 5.255 | 4.225 | 131.3E6 | 175.0E6 | 43.741 | 47.803 |
| 6) | B beta-BHC | 4.523 | 3.907 | 66271382 | 80243137 | 45.848 | 48.743 |
| 7) | B delta-BHC | 4.770 | 4.136 | 117.7E6 | 150.0E6 | 37.618 | 39.035 |
| 8) | B Heptachlo... | 5.682 | 4.728 | 122.6E6 | 160.7E6 | 44.410 | 48.088 |
| 9) | A Endosulfan I | 6.067 | 5.098 | 111.1E6 | 135.1E6 | 44.405 | 44.253 |
| 10) | B gamma-Chl... | 5.938 | 4.977 | 123.3E6 | 167.0E6 | 46.333 | 49.676m |
| 11) | B alpha-Chl... | 6.017 | 5.043 | 120.5E6 | 167.0E6 | 45.490 | 50.214 |
| 12) | B 4,4'-DDE | 6.190 | 5.231 | 109.4E6 | 168.7E6 | 46.165 | 52.351 |
| 13) | MA Dieldrin | 6.342 | 5.363 | 115.9E6 | 167.3E6 | 43.971 | 50.087 |
| 14) | MA Endrin | 6.571 | 5.638 | 101.9E6 | 156.2E6 | 44.739m | 53.993 |
| 15) | B Endosulfa... | 6.791 | 5.933 | 108.0E6 | 140.0E6 | 45.320m | 49.427 |
| 16) | A 4,4'-DDD | 6.707 | 5.786 | 89272736 | 131.7E6 | 46.508m | 52.881 |
| 17) | MA 4,4'-DDT | 7.022 | 6.035 | 103.8E6 | 138.9E6 | 50.169 | 51.787m |
| 18) | B Endrin al... | 6.920 | 6.112 | 77651355 | 105.5E6 | 41.348m | 45.737 |
| 19) | B Endosulfa... | 7.157 | 6.335 | 91597503 | 126.8E6 | 42.204 | 47.022 |
| 20) | A Methoxychlor | 7.498 | 6.611 | 49288302 | 70014676 | 43.235 | 49.029 |
| 21) | B Endrin ke... | 7.642 | 6.841 | 106.5E6 | 144.9E6 | 43.941 | 47.217 |
| 22) | Mirex | 8.115 | 7.020 | 75442808 | 108.7E6 | 38.070 | 41.679 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

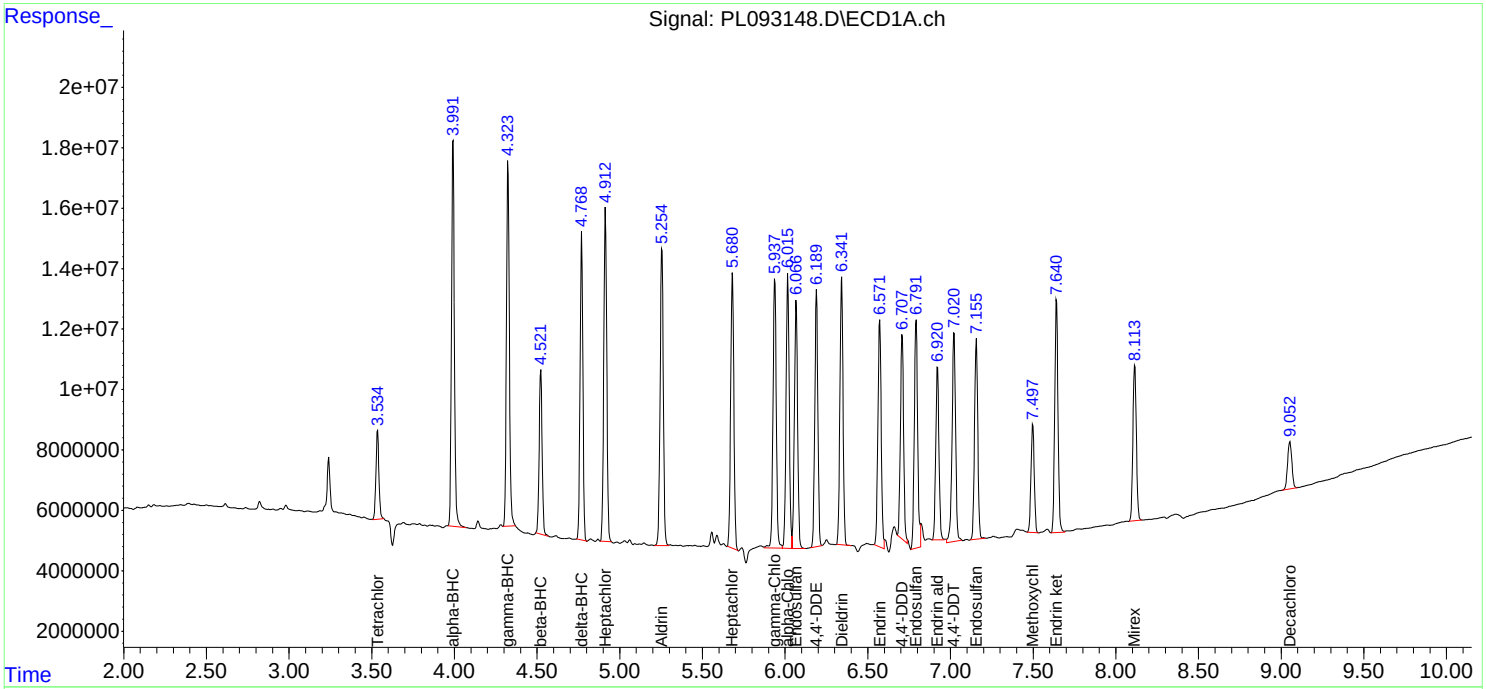
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111924\
Data File : PL093148.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 15:50
Operator : AR\AJ
Sample : P4860-08MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

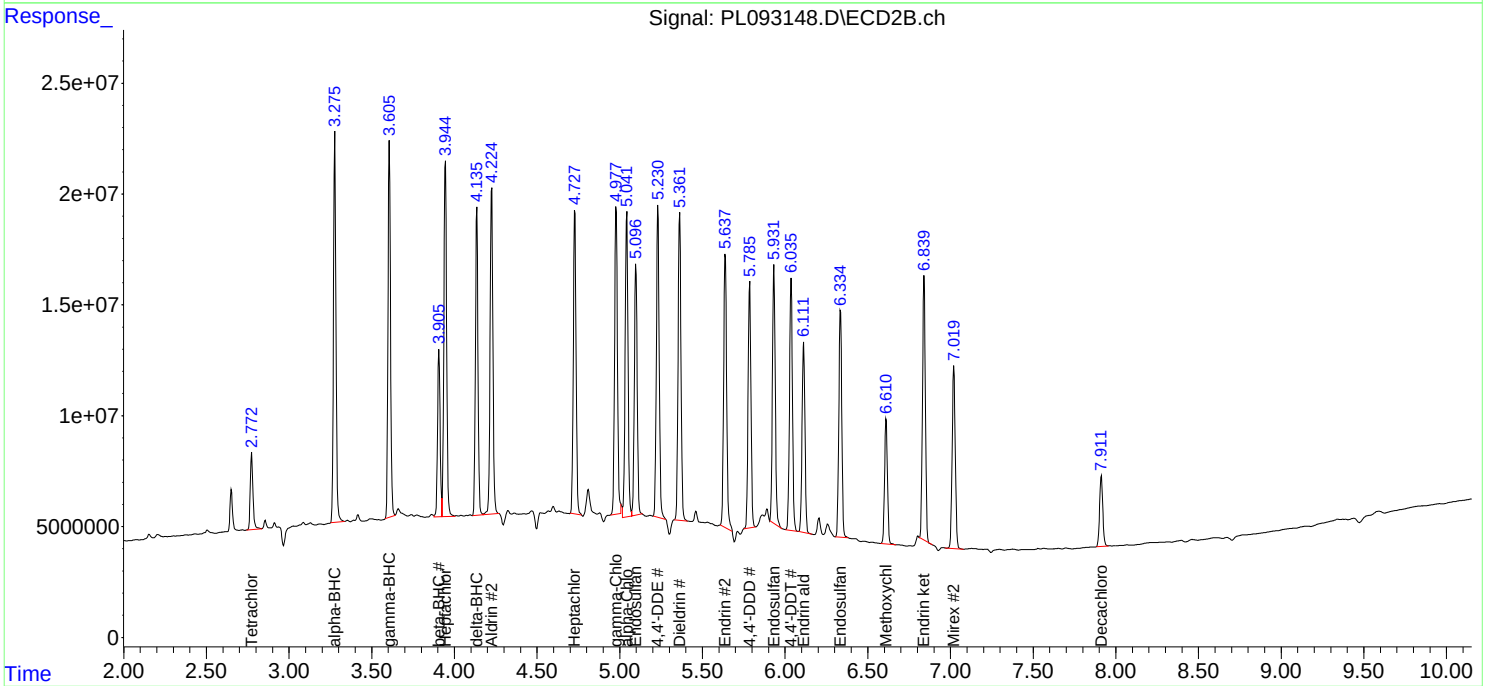
**Instrument :**
ECD_L
**ClientSampleId :**
PH2-BOT-007MSD

**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 19 23:08:05 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



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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 |
|---|---|---|---|---|---|---|---|
| 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: | pl111824 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PEM | PL093099.D | Endrin | yogesh | 11/19/2024 9:09:06 AM | Ankita | 11/19/2024 4:46:48 | Peak Integrated by Software |
| P4860-03 | PL093107.D | 4,4"-DDD | yogesh | 11/19/2024 9:10:09 AM | Ankita | 11/19/2024 4:46:57 | Peak Integrated by Software |
| P4860-03 | PL093107.D | 4,4"-DDD #2 | yogesh | 11/19/2024 9:10:09 AM | Ankita | 11/19/2024 4:46:57 | Peak Integrated by Software |
| P4860-03 | PL093107.D | 4,4"-DDE #2 | yogesh | 11/19/2024 9:10:09 AM | Ankita | 11/19/2024 4:46:57 | Peak Integrated by Software |
| P4860-03 | PL093107.D | 4,4"-DDT | yogesh | 11/19/2024 9:10:09 AM | Ankita | 11/19/2024 4:46:57 | Peak Integrated by Software |
| P4860-03 | PL093107.D | Tetrachloro-m-xylene | yogesh | 11/19/2024 9:10:09 AM | Ankita | 11/19/2024 4:46:57 | Peak Integrated by Software |
| P4860-03 | PL093107.D | Tetrachloro-m-xylene #2 | yogesh | 11/19/2024 9:10:09 AM | Ankita | 11/19/2024 4:46:57 | Peak Integrated by Software |
| P4860-04 | PL093108.D | 4,4"-DDD | yogesh | 11/19/2024 9:10:11 AM | Ankita | 11/19/2024 4:46:59 | Peak Integrated by Software |
| P4860-04 | PL093108.D | 4,4"-DDD #2 | yogesh | 11/19/2024 9:10:11 AM | Ankita | 11/19/2024 4:46:59 | Peak Integrated by Software |
| P4860-04 | PL093108.D | 4,4"-DDT | yogesh | 11/19/2024 9:10:11 AM | Ankita | 11/19/2024 4:46:59 | Peak Integrated by Software |
| P4860-04 | PL093108.D | 4,4"-DDT #2 | yogesh | 11/19/2024 9:10:11 AM | Ankita | 11/19/2024 4:46:59 | Peak Integrated by Software |
| P4860-04 | PL093108.D | alpha-Chlordane | yogesh | 11/19/2024 9:10:11 AM | Ankita | 11/19/2024 4:46:59 | Peak Integrated by Software |
| P4860-04 | PL093108.D | Decachlorobiphenyl | yogesh | 11/19/2024 9:10:11 AM | Ankita | 11/19/2024 4:46:59 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | pl111824 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4860-04 | PL093108.D | gamma-Chlordane | yogesh | 11/19/2024 9:10:11 AM | Ankita | 11/19/2024 4:46:59 | Peak Integrated by Software |
| P4860-04 | PL093108.D | gamma-Chlordane #2 | yogesh | 11/19/2024 9:10:11 AM | Ankita | 11/19/2024 4:46:59 | Peak Integrated by Software |
| P4860-04 | PL093108.D | Tetrachloro-m-xylene | yogesh | 11/19/2024 9:10:11 AM | Ankita | 11/19/2024 4:46:59 | Peak Integrated by Software |
| P4860-05 | PL093109.D | 4,4"-DDD | yogesh | 11/19/2024 9:10:13 AM | Ankita | 11/19/2024 4:47:02 | Peak Integrated by Software |
| P4860-05 | PL093109.D | 4,4"-DDD #2 | yogesh | 11/19/2024 9:10:13 AM | Ankita | 11/19/2024 4:47:02 | Peak Integrated by Software |
| P4860-05 | PL093109.D | 4,4"-DDE | yogesh | 11/19/2024 9:10:13 AM | Ankita | 11/19/2024 4:47:02 | Peak Integrated by Software |
| P4860-05 | PL093109.D | 4,4"-DDE #2 | yogesh | 11/19/2024 9:10:13 AM | Ankita | 11/19/2024 4:47:02 | Peak Integrated by Software |
| P4860-05 | PL093109.D | 4,4"-DDT | yogesh | 11/19/2024 9:10:13 AM | Ankita | 11/19/2024 4:47:02 | Peak Integrated by Software |
| P4860-05 | PL093109.D | alpha-Chlordane #2 | yogesh | 11/19/2024 9:10:13 AM | Ankita | 11/19/2024 4:47:02 | Peak Integrated by Software |
| P4860-05 | PL093109.D | gamma-Chlordane | yogesh | 11/19/2024 9:10:13 AM | Ankita | 11/19/2024 4:47:02 | Peak Integrated by Software |
| P4860-05 | PL093109.D | gamma-Chlordane #2 | yogesh | 11/19/2024 9:10:13 AM | Ankita | 11/19/2024 4:47:02 | Peak Integrated by Software |
| P4860-05 | PL093109.D | Tetrachloro-m-xylene | yogesh | 11/19/2024 9:10:13 AM | Ankita | 11/19/2024 4:47:02 | Peak Integrated by Software |
| PEM | PL093111.D | Endrin | yogesh | 11/19/2024 9:10:15 AM | Ankita | 11/19/2024 4:47:04 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | pl111824 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4860-06 | PL093113.D | Tetrachloro-m-xylene | yogesh | 11/19/2024 9:10:41 AM | Ankita | 11/19/2024 4:47:06 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PL111924 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PEM | PL093137.D | 4,4"-DDD | yogesh | 11/20/2024 7:59:06 AM | Ankita | 11/20/2024 11:55:44 | Peak Integrated by Software |
| PEM | PL093137.D | 4,4"-DDD #2 | yogesh | 11/20/2024 7:59:06 AM | Ankita | 11/20/2024 11:55:44 | Peak Integrated by Software |
| PEM | PL093137.D | 4,4"-DDT #2 | yogesh | 11/20/2024 7:59:06 AM | Ankita | 11/20/2024 11:55:44 | Peak Integrated by Software |
| PEM | PL093137.D | Endrin | yogesh | 11/20/2024 7:59:06 AM | Ankita | 11/20/2024 11:55:44 | Peak Integrated by Software |
| PEM | PL093137.D | Endrin ketone #2 | yogesh | 11/20/2024 7:59:06 AM | Ankita | 11/20/2024 11:55:44 | Peak Integrated by Software |
| PSTDCCC050 | PL093138.D | 4,4"-DDD | yogesh | 11/20/2024 7:59:09 AM | Ankita | 11/20/2024 11:55:46 | Peak Integrated by Software |
| PSTDCCC050 | PL093138.D | 4,4"-DDT #2 | yogesh | 11/20/2024 7:59:09 AM | Ankita | 11/20/2024 11:55:46 | Peak Integrated by Software |
| PSTDCCC050 | PL093138.D | Endosulfan II #2 | yogesh | 11/20/2024 7:59:09 AM | Ankita | 11/20/2024 11:55:46 | Peak Integrated by Software |
| PB165046BS | PL093139.D | 4,4"-DDD | yogesh | 11/20/2024 7:59:12 AM | Ankita | 11/20/2024 11:55:48 | Peak Integrated by Software |
| PB165046BS | PL093139.D | Endrin ketone #2 | yogesh | 11/20/2024 7:59:12 AM | Ankita | 11/20/2024 11:55:48 | Peak Integrated by Software |
| PB165046BS | PL093139.D | gamma-BHC (Lindane) | yogesh | 11/20/2024 7:59:12 AM | Ankita | 11/20/2024 11:55:48 | Peak Integrated by Software |
| PB165046BS | PL093139.D | Mirex #2 | yogesh | 11/20/2024 7:59:12 AM | Ankita | 11/20/2024 11:55:48 | Peak Integrated by Software |
| P4860-01 | PL093141.D | 4,4"-DDD | yogesh | 11/20/2024 11:54:29 AM | Ankita | 11/20/2024 11:55:50 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PL111924 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4860-01 | PL093141.D | 4,4"-DDD #2 | yogesh | 11/20/2024 11:54:29 AM | Ankita | 11/20/2024 11:55:50 | Peak Integrated by Software |
| P4860-01 | PL093141.D | 4,4"-DDE | yogesh | 11/20/2024 11:54:29 AM | Ankita | 11/20/2024 11:55:50 | Peak Integrated by Software |
| P4860-01 | PL093141.D | alpha-Chlordane | yogesh | 11/20/2024 11:54:29 AM | Ankita | 11/20/2024 11:55:50 | Peak Integrated by Software |
| P4860-01 | PL093141.D | alpha-Chlordane #2 | yogesh | 11/20/2024 11:54:29 AM | Ankita | 11/20/2024 11:55:50 | Peak Integrated by Software |
| P4860-01 | PL093141.D | gamma-Chlordane | yogesh | 11/20/2024 11:54:29 AM | Ankita | 11/20/2024 11:55:50 | Peak Integrated by Software |
| P4860-01 | PL093141.D | gamma-Chlordane #2 | yogesh | 11/20/2024 11:54:29 AM | Ankita | 11/20/2024 11:55:50 | Peak Integrated by Software |
| P4860-01 | PL093141.D | Tetrachloro-m-xylene | yogesh | 11/20/2024 11:54:29 AM | Ankita | 11/20/2024 11:55:50 | Peak Integrated by Software |
| P4860-02 | PL093142.D | 4,4"-DDD | yogesh | 11/20/2024 11:54:31 AM | Ankita | 11/20/2024 11:55:52 | Peak Integrated by Software |
| P4860-02 | PL093142.D | 4,4"-DDD #2 | yogesh | 11/20/2024 11:54:31 AM | Ankita | 11/20/2024 11:55:52 | Peak Integrated by Software |
| P4860-02 | PL093142.D | 4,4"-DDE #2 | yogesh | 11/20/2024 11:54:31 AM | Ankita | 11/20/2024 11:55:52 | Peak Integrated by Software |
| P4860-02 | PL093142.D | 4,4"-DDT | yogesh | 11/20/2024 11:54:31 AM | Ankita | 11/20/2024 11:55:52 | Peak Integrated by Software |
| P4860-02 | PL093142.D | alpha-Chlordane | yogesh | 11/20/2024 11:54:31 AM | Ankita | 11/20/2024 11:55:52 | Peak Integrated by Software |
| P4860-02 | PL093142.D | alpha-Chlordane #2 | yogesh | 11/20/2024 11:54:31 AM | Ankita | 11/20/2024 11:55:52 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PL111924 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4860-02 | PL093142.D | Dieldrin | yogesh | 11/20/2024 11:54:31 AM | Ankita | 11/20/2024 11:55:52 | Peak Integrated by Software |
| P4860-02 | PL093142.D | Dieldrin #2 | yogesh | 11/20/2024 11:54:31 AM | Ankita | 11/20/2024 11:55:52 | Peak Integrated by Software |
| P4860-02 | PL093142.D | gamma-Chlordane | yogesh | 11/20/2024 11:54:31 AM | Ankita | 11/20/2024 11:55:52 | Peak Integrated by Software |
| P4860-02 | PL093142.D | gamma-Chlordane #2 | yogesh | 11/20/2024 11:54:31 AM | Ankita | 11/20/2024 11:55:52 | Peak Integrated by Software |
| P4860-02 | PL093142.D | Tetrachloro-m-xylene | yogesh | 11/20/2024 11:54:31 AM | Ankita | 11/20/2024 11:55:52 | Peak Integrated by Software |
| P4860-09 | PL093143.D | Tetrachloro-m-xylene | yogesh | 11/20/2024 11:54:32 AM | Ankita | 11/20/2024 11:55:53 | Peak Integrated by Software |
| P4860-10 | PL093144.D | Tetrachloro-m-xylene | yogesh | 11/20/2024 11:54:35 AM | Ankita | 11/20/2024 11:55:55 | Peak Integrated by Software |
| P4860-07 | PL093145.D | 4,4"-DDD | yogesh | 11/20/2024 11:54:36 AM | Ankita | 11/20/2024 11:55:58 | Peak Integrated by Software |
| P4860-07 | PL093145.D | 4,4"-DDD #2 | yogesh | 11/20/2024 11:54:36 AM | Ankita | 11/20/2024 11:55:58 | Peak Integrated by Software |
| P4860-07 | PL093145.D | 4,4"-DDT | yogesh | 11/20/2024 11:54:36 AM | Ankita | 11/20/2024 11:55:58 | Peak Integrated by Software |
| P4860-07 | PL093145.D | alpha-Chlordane #2 | yogesh | 11/20/2024 11:54:36 AM | Ankita | 11/20/2024 11:55:58 | Peak Integrated by Software |
| P4860-07 | PL093145.D | gamma-Chlordane #2 | yogesh | 11/20/2024 11:54:36 AM | Ankita | 11/20/2024 11:55:58 | Peak Integrated by Software |
| P4860-07 | PL093145.D | Tetrachloro-m-xylene | yogesh | 11/20/2024 11:54:36 AM | Ankita | 11/20/2024 11:55:58 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PL111924 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4860-08 | PL093146.D | 4,4"-DDD | yogesh | 11/20/2024 11:54:38 AM | Ankita | 11/20/2024 11:56:00 | Peak Integrated by Software |
| P4860-08 | PL093146.D | 4,4"-DDD #2 | yogesh | 11/20/2024 11:54:38 AM | Ankita | 11/20/2024 11:56:00 | Peak Integrated by Software |
| P4860-08 | PL093146.D | 4,4"-DDE #2 | yogesh | 11/20/2024 11:54:38 AM | Ankita | 11/20/2024 11:56:00 | Peak Integrated by Software |
| P4860-08 | PL093146.D | 4,4"-DDT | yogesh | 11/20/2024 11:54:38 AM | Ankita | 11/20/2024 11:56:00 | Peak Integrated by Software |
| P4860-08 | PL093146.D | 4,4"-DDT #2 | yogesh | 11/20/2024 11:54:38 AM | Ankita | 11/20/2024 11:56:00 | Peak Integrated by Software |
| P4860-08 | PL093146.D | Tetrachloro-m-xylene | yogesh | 11/20/2024 11:54:38 AM | Ankita | 11/20/2024 11:56:00 | Peak Integrated by Software |
| P4860-08MS | PL093147.D | 4,4"-DDD | yogesh | 11/20/2024 7:59:29 AM | Ankita | 11/20/2024 11:56:01 | Peak Integrated by Software |
| P4860-08MS | PL093147.D | Endosulfan II | yogesh | 11/20/2024 7:59:29 AM | Ankita | 11/20/2024 11:56:01 | Peak Integrated by Software |
| P4860-08MS | PL093147.D | Endrin | yogesh | 11/20/2024 7:59:29 AM | Ankita | 11/20/2024 11:56:01 | Peak Integrated by Software |
| P4860-08MS | PL093147.D | Endrin #2 | yogesh | 11/20/2024 7:59:29 AM | Ankita | 11/20/2024 11:56:01 | Peak Integrated by Software |
| P4860-08MS | PL093147.D | Endrin aldehyde | yogesh | 11/20/2024 7:59:29 AM | Ankita | 11/20/2024 11:56:01 | Peak Integrated by Software |
| P4860-08MS | PL093147.D | gamma-Chlordane #2 | yogesh | 11/20/2024 7:59:29 AM | Ankita | 11/20/2024 11:56:01 | Peak Integrated by Software |
| P4860-08MS | PL093147.D | Tetrachloro-m-xylene | yogesh | 11/20/2024 7:59:29 AM | Ankita | 11/20/2024 11:56:01 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PL111924 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4860-08MSD | PL093148.D | 4,4"-DDD | yogesh | 11/20/2024 11:54:40 AM | Ankita | 11/20/2024 11:56:03 | Peak Integrated by Software |
| P4860-08MSD | PL093148.D | 4,4"-DDT #2 | yogesh | 11/20/2024 11:54:40 AM | Ankita | 11/20/2024 11:56:03 | Peak Integrated by Software |
| P4860-08MSD | PL093148.D | Endosulfan II | yogesh | 11/20/2024 11:54:40 AM | Ankita | 11/20/2024 11:56:03 | Peak Integrated by Software |
| P4860-08MSD | PL093148.D | Endrin | yogesh | 11/20/2024 11:54:40 AM | Ankita | 11/20/2024 11:56:03 | Peak Integrated by Software |
| P4860-08MSD | PL093148.D | Endrin aldehyde | yogesh | 11/20/2024 11:54:40 AM | Ankita | 11/20/2024 11:56:03 | Peak Integrated by Software |
| P4860-08MSD | PL093148.D | gamma-Chlordane #2 | yogesh | 11/20/2024 11:54:40 AM | Ankita | 11/20/2024 11:56:03 | Peak Integrated by Software |
| P4860-08MSD | PL093148.D | Tetrachloro-m-xylene | yogesh | 11/20/2024 11:54:40 AM | Ankita | 11/20/2024 11:56:03 | Peak Integrated by Software |
| PSTDCCC050 | PL093153.D | 4,4"-DDD #2 | yogesh | 11/20/2024 7:59:40 AM | Ankita | 11/20/2024 11:56:15 | Peak Integrated by Software |
| PSTDCCC050 | PL093153.D | Aldrin | yogesh | 11/20/2024 7:59:40 AM | Ankita | 11/20/2024 11:56:15 | Peak Integrated by Software |
| PSTDCCC050 | PL093153.D | gamma-Chlordane | yogesh | 11/20/2024 7:59:40 AM | Ankita | 11/20/2024 11:56:15 | Peak Integrated by Software |
| PSTDCCC050 | PL093166.D | 4,4"-DDD #2 | yogesh | 11/20/2024 11:54:54 AM | Ankita | 11/20/2024 11:56:35 | Peak Integrated by Software |
| PSTDCCC050 | PL093166.D | 4,4"-DDT #2 | yogesh | 11/20/2024 11:54:54 AM | Ankita | 11/20/2024 11:56:35 | Peak Integrated by Software |
| PSTDCCC050 | PL093166.D | Aldrin | yogesh | 11/20/2024 11:54:54 AM | Ankita | 11/20/2024 11:56:35 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PL111924 | Instrument | ECD_I |
|---|---|---|---|

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

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Fax : 908 789 8922



**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/29/2024 9:09:59 AM | | |
| Supervise By | Ankita | Supervise On | 10/29/2024 10:02:30 AM | | |
| SubDirectory | PL102824 | HP Acquire Method | | HP Processing Method | pl102824 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP23793,PP23517 |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |
| CCC | PP23686,PP23690,PP23695 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23687,PP23693,PP23698 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PL092651.D | 28 Oct 2024 13:41 | AR\AJ | Ok |
| 2 | I.BLK | PL092652.D | 28 Oct 2024 13:55 | AR\AJ | Ok |
| 3 | PEM | PL092653.D | 28 Oct 2024 14:16 | AR\AJ | Ok,M |
| 4 | RESCHK | PL092654.D | 28 Oct 2024 14:29 | AR\AJ | Ok |
| 5 | PSTDICC100 | PL092655.D | 28 Oct 2024 14:43 | AR\AJ | Ok |
| 6 | PSTDICC075 | PL092656.D | 28 Oct 2024 14:56 | AR\AJ | Ok |
| 7 | PSTDICC050 | PL092657.D | 28 Oct 2024 15:09 | AR\AJ | Ok |
| 8 | PSTDICC025 | PL092658.D | 28 Oct 2024 15:23 | AR\AJ | Ok |
| 9 | PSTDICC005 | PL092659.D | 28 Oct 2024 15:36 | AR\AJ | Ok,M |
| 10 | PCHLORICC1000 | PL092660.D | 28 Oct 2024 15:49 | AR\AJ | Ok |
| 11 | PCHLORICC750 | PL092661.D | 28 Oct 2024 16:03 | AR\AJ | Ok |
| 12 | PCHLORICC500 | PL092662.D | 28 Oct 2024 16:16 | AR\AJ | Ok |
| 13 | PCHLORICC250 | PL092663.D | 28 Oct 2024 16:30 | AR\AJ | Ok |
| 14 | PCHLORICC050 | PL092664.D | 28 Oct 2024 16:43 | AR\AJ | Ok |
| 15 | PTOXICC1000 | PL092665.D | 28 Oct 2024 16:56 | AR\AJ | Ok |
| 16 | PTOXICC750 | PL092666.D | 28 Oct 2024 17:10 | AR\AJ | Ok |
| 17 | PTOXICC500 | PL092667.D | 28 Oct 2024 17:23 | AR\AJ | Ok |
| 18 | PTOXICC250 | PL092668.D | 28 Oct 2024 17:37 | AR\AJ | Ok |
| 19 | PTOXICC100 | PL092669.D | 28 Oct 2024 17:50 | AR\AJ | Ok,M |
| 20 | PSTDICV050 | PL092670.D | 28 Oct 2024 18:03 | AR\AJ | Ok |
| 21 | PCHLORICV500 | PL092671.D | 28 Oct 2024 18:30 | AR\AJ | Ok |

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/29/2024 9:09:59 AM | | |
| Supervise By | Ankita | Supervise On | 10/29/2024 10:02:30 AM | | |
| SubDirectory | PL102824 | HP Acquire Method | | HP Processing Method | pl102824 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP23793,PP23517 |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |
| CCC | PP23686,PP23690,PP23695 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23687,PP23693,PP23698 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | PTOXICV500 | PL092672.D | 28 Oct 2024 18:57 | AR\AJ | Ok |
| 23 | I.BLK | PL092673.D | 28 Oct 2024 19:24 | AR\AJ | Ok |
| 24 | PEM | PL092674.D | 28 Oct 2024 19:37 | AR\AJ | Ok,M |
| 25 | PSTDCCC050 | PL092675.D | 28 Oct 2024 19:51 | AR\AJ | Ok,M |
| 26 | PB164460BL | PL092676.D | 28 Oct 2024 20:04 | AR\AJ | Ok,M |
| 27 | PB164460BS | PL092677.D | 28 Oct 2024 20:17 | AR\AJ | Ok,M |
| 28 | P4575-01 | PL092678.D | 28 Oct 2024 20:31 | AR\AJ | Ok,M |
| 29 | P4566-01 | PL092679.D | 28 Oct 2024 20:44 | AR\AJ | Ok,M |
| 30 | P4567-01 | PL092680.D | 28 Oct 2024 20:57 | AR\AJ | Ok,M |
| 31 | P4567-05 | PL092681.D | 28 Oct 2024 21:11 | AR\AJ | Ok |
| 32 | P4567-09 | PL092682.D | 28 Oct 2024 21:24 | AR\AJ | Ok,M |
| 33 | P4574-01 | PL092683.D | 28 Oct 2024 21:38 | AR\AJ | Ok,M |
| 34 | P4574-04 | PL092684.D | 28 Oct 2024 21:51 | AR\AJ | Ok,M |
| 35 | P4577-01 | PL092685.D | 28 Oct 2024 22:04 | AR\AJ | Ok,M |
| 36 | P4561-01 | PL092686.D | 28 Oct 2024 22:18 | AR\AJ | Ok,M |
| 37 | P4561-01MS | PL092687.D | 28 Oct 2024 22:31 | AR\AJ | Ok,M |
| 38 | P4561-01MSD | PL092688.D | 28 Oct 2024 22:44 | AR\AJ | Ok,M |
| 39 | P4561-05 | PL092689.D | 28 Oct 2024 22:58 | AR\AJ | Ok,M |
| 40 | I.BLK | PL092690.D | 28 Oct 2024 23:11 | AR\AJ | Ok,M |
| 41 | PSTDCCC050 | PL092691.D | 29 Oct 2024 00:32 | AR\AJ | Ok,M |

M : Manual Integration

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL111824

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 9:13:18 AM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:48:08 PM | | |
| SubDirectory | PL111824 | 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 | PL093097.D | 18 Nov 2024 09:19 | AR\AJ | Ok |
| 2 | I.BLK | PL093098.D | 18 Nov 2024 09:32 | AR\AJ | Ok |
| 3 | PEM | PL093099.D | 18 Nov 2024 09:46 | AR\AJ | Ok,M |
| 4 | PSTDCCC050 | PL093100.D | 18 Nov 2024 09:59 | AR\AJ | Ok |
| 5 | PB164992BL | PL093101.D | 18 Nov 2024 10:12 | AR\AJ | Ok |
| 6 | P4848-01 | PL093102.D | 18 Nov 2024 10:25 | AR\AJ | Ok,M |
| 7 | PB165046BL | PL093103.D | 18 Nov 2024 11:33 | AR\AJ | Not Ok |
| 8 | PB165046BS | PL093104.D | 18 Nov 2024 11:46 | AR\AJ | Not Ok |
| 9 | P4860-01 | PL093105.D | 18 Nov 2024 12:00 | AR\AJ | Not Ok |
| 10 | P4860-02 | PL093106.D | 18 Nov 2024 12:13 | AR\AJ | Not Ok |
| 11 | P4860-03 | PL093107.D | 18 Nov 2024 12:26 | AR\AJ | Ok,M |
| 12 | P4860-04 | PL093108.D | 18 Nov 2024 12:39 | AR\AJ | Ok,M |
| 13 | P4860-05 | PL093109.D | 18 Nov 2024 12:52 | AR\AJ | Ok,M |
| 14 | I.BLK | PL093110.D | 18 Nov 2024 13:05 | AR\AJ | Ok |
| 15 | PEM | PL093111.D | 18 Nov 2024 13:19 | AR\AJ | Ok,M |
| 16 | PSTDCCC050 | PL093112.D | 18 Nov 2024 13:32 | AR\AJ | Ok |
| 17 | P4860-06 | PL093113.D | 18 Nov 2024 13:45 | AR\AJ | Ok,M |
| 18 | P4860-07 | PL093114.D | 18 Nov 2024 13:58 | AR\AJ | Not Ok |
| 19 | P4860-08 | PL093115.D | 18 Nov 2024 14:11 | AR\AJ | Not Ok |
| 20 | P4860-08MS | PL093116.D | 18 Nov 2024 14:24 | AR\AJ | Not Ok |
| 21 | P4860-08MSD | PL093117.D | 18 Nov 2024 14:38 | AR\AJ | Not Ok |

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL111824

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 9:13:18 AM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:48:08 PM | | |
| SubDirectory | PL111824 | 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 | P4860-09 | PL093118.D | 18 Nov 2024 14:51 | AR\AJ | Not Ok |
| 23 | P4860-10 | PL093119.D | 18 Nov 2024 15:04 | AR\AJ | Not Ok |
| 24 | P4869-01 | PL093120.D | 18 Nov 2024 15:17 | AR\AJ | Ok,M |
| 25 | P4887-01 | PL093121.D | 18 Nov 2024 15:30 | AR\AJ | Ok,M |
| 26 | P4887-05 | PL093122.D | 18 Nov 2024 15:43 | AR\AJ | Ok,M |
| 27 | P4889-01 | PL093123.D | 18 Nov 2024 15:56 | AR\AJ | Dilution |
| 28 | P4889-03 | PL093124.D | 18 Nov 2024 16:10 | AR\AJ | Ok,M |
| 29 | P4889-05 | PL093125.D | 18 Nov 2024 16:23 | AR\AJ | Not Ok |
| 30 | PB165053BL | PL093126.D | 18 Nov 2024 16:36 | AR\AJ | Ok |
| 31 | PB165053BS | PL093127.D | 18 Nov 2024 16:49 | AR\AJ | Ok,M |
| 32 | PB165019TB | PL093128.D | 18 Nov 2024 17:02 | AR\AJ | Ok |
| 33 | P4861-01 | PL093129.D | 18 Nov 2024 17:16 | AR\AJ | Ok |
| 34 | P4861-01MS | PL093130.D | 18 Nov 2024 17:29 | AR\AJ | Ok,M |
| 35 | P4861-01MSD | PL093131.D | 18 Nov 2024 17:42 | AR\AJ | Ok,M |
| 36 | P4871-01 | PL093132.D | 18 Nov 2024 17:55 | AR\AJ | Ok |
| 37 | I.BLK | PL093133.D | 18 Nov 2024 18:08 | AR\AJ | Ok |
| 38 | PSTDCCC050 | PL093134.D | 18 Nov 2024 18:21 | AR\AJ | Ok |

M : Manual Integration

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL111924

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/20/2024 8:00:21 AM | | |
| Supervise By | Ankita | Supervise On | 11/20/2024 12:01:41 PM | | |
| SubDirectory | PL111924 | 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 | PL093135.D | 19 Nov 2024 12:18 | AR\AJ | Ok |
| 2 | I.BLK | PL093136.D | 19 Nov 2024 12:44 | AR\AJ | Ok |
| 3 | PEM | PL093137.D | 19 Nov 2024 12:57 | AR\AJ | Ok,M |
| 4 | PSTDCCC050 | PL093138.D | 19 Nov 2024 13:25 | AR\AJ | Ok,M |
| 5 | PB165046BS | PL093139.D | 19 Nov 2024 13:52 | AR\AJ | Ok,M |
| 6 | PB165046BL | PL093140.D | 19 Nov 2024 14:05 | AR\AJ | Ok |
| 7 | P4860-01 | PL093141.D | 19 Nov 2024 14:18 | AR\AJ | Ok,M |
| 8 | P4860-02 | PL093142.D | 19 Nov 2024 14:31 | AR\AJ | Ok,M |
| 9 | P4860-09 | PL093143.D | 19 Nov 2024 14:44 | AR\AJ | Ok,M |
| 10 | P4860-10 | PL093144.D | 19 Nov 2024 14:57 | AR\AJ | Ok,M |
| 11 | P4860-07 | PL093145.D | 19 Nov 2024 15:11 | AR\AJ | Ok,M |
| 12 | P4860-08 | PL093146.D | 19 Nov 2024 15:24 | AR\AJ | Ok,M |
| 13 | P4860-08MS | PL093147.D | 19 Nov 2024 15:37 | AR\AJ | Ok,M |
| 14 | P4860-08MSD | PL093148.D | 19 Nov 2024 15:50 | AR\AJ | Ok,M |
| 15 | P4889-01DL | PL093149.D | 19 Nov 2024 16:03 | AR\AJ | Ok,NR |
| 16 | P4889-05 | PL093150.D | 19 Nov 2024 16:16 | AR\AJ | Dilution |
| 17 | P4889-05DL | PL093151.D | 19 Nov 2024 16:30 | AR\AJ | Ok,M |
| 18 | I.BLK | PL093152.D | 19 Nov 2024 16:43 | AR\AJ | Ok |
| 19 | PSTDCCC050 | PL093153.D | 19 Nov 2024 16:56 | AR\AJ | Ok,M |
| 20 | PB165083BL | PL093154.D | 19 Nov 2024 17:22 | AR\AJ | Ok |
| 21 | PB165083BS | PL093155.D | 19 Nov 2024 17:36 | AR\AJ | Not Ok |

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL111924

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/20/2024 8:00:21 AM | | |
| Supervise By | Ankita | Supervise On | 11/20/2024 12:01:41 PM | | |
| SubDirectory | PL111924 | 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 | P4893-01 | PL093156.D | 19 Nov 2024 17:49 | AR\AJ | Ok,M |
| 23 | P4893-05 | PL093157.D | 19 Nov 2024 18:02 | AR\AJ | Not Ok |
| 24 | P4908-01 | PL093158.D | 19 Nov 2024 18:15 | AR\AJ | Ok,M |
| 25 | P4908-03 | PL093159.D | 19 Nov 2024 18:28 | AR\AJ | Ok,M |
| 26 | P4909-01 | PL093160.D | 19 Nov 2024 18:41 | AR\AJ | Ok,M |
| 27 | P4910-01 | PL093161.D | 19 Nov 2024 18:55 | AR\AJ | Ok,M |
| 28 | P4910-01MS | PL093162.D | 19 Nov 2024 19:08 | AR\AJ | Ok,M |
| 29 | P4910-01MSD | PL093163.D | 19 Nov 2024 19:21 | AR\AJ | Ok,M |
| 30 | P4910-05 | PL093164.D | 19 Nov 2024 19:34 | AR\AJ | Ok |
| 31 | I.BLK | PL093165.D | 19 Nov 2024 19:48 | AR\AJ | Ok |
| 32 | PSTDCCC050 | PL093166.D | 19 Nov 2024 20:01 | AR\AJ | Ok,M |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # 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 |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/29/2024 9:09:59 AM | | |
| Supervise By | Ankita | Supervise On | 10/29/2024 10:02:30 AM | | |
| SubDirectory | PL102824 | HP Acquire Method | | HP Processing Method | pl102824 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP23793,PP23517 |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |
| CCC | PP23686,PP23690,PP23695 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23687,PP23693,PP23698 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | P4561-01MSD | BP-F-19MSD | PL092688.D | 28 Oct 2024 22:44 | | AR\AJ | Ok,M |
| 39 | P4561-05 | BP-F-18 | PL092689.D | 28 Oct 2024 22:58 | | AR\AJ | Ok,M |
| 40 | I.BLK | I.BLK | PL092690.D | 28 Oct 2024 23:11 | | AR\AJ | Ok,M |
| 41 | PSTDCCC050 | PSTDCCC050 | PL092691.D | 29 Oct 2024 00:32 | | AR\AJ | Ok,M |

M : Manual Integration

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL111824

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 9:13:18 AM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:48:08 PM | | |
| SubDirectory | PL111824 | 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 | PL093097.D | 18 Nov 2024 09:19 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PL093098.D | 18 Nov 2024 09:32 | | AR\AJ | Ok |
| 3 | PEM | PEM | PL093099.D | 18 Nov 2024 09:46 | | AR\AJ | Ok,M |
| 4 | PSTDCCC050 | PSTDCCC050 | PL093100.D | 18 Nov 2024 09:59 | | AR\AJ | Ok |
| 5 | PB164992BL | PB164992BL | PL093101.D | 18 Nov 2024 10:12 | | AR\AJ | Ok |
| 6 | P4848-01 | TP-1 | PL093102.D | 18 Nov 2024 10:25 | | AR\AJ | Ok,M |
| 7 | PB165046BL | PB165046BL | PL093103.D | 18 Nov 2024 11:33 | | AR\AJ | Not Ok |
| 8 | PB165046BS | PB165046BS | PL093104.D | 18 Nov 2024 11:46 | Comp#7 recovery fail | AR\AJ | Not Ok |
| 9 | P4860-01 | DUP-01 | PL093105.D | 18 Nov 2024 12:00 | need clean up | AR\AJ | Not Ok |
| 10 | P4860-02 | PH2-BOT-001 | PL093106.D | 18 Nov 2024 12:13 | need clean up | AR\AJ | Not Ok |
| 11 | P4860-03 | PH2-BOT-002 | PL093107.D | 18 Nov 2024 12:26 | | AR\AJ | Ok,M |
| 12 | P4860-04 | PH2-BOT-003 | PL093108.D | 18 Nov 2024 12:39 | | AR\AJ | Ok,M |
| 13 | P4860-05 | PH2-BOT-004 | PL093109.D | 18 Nov 2024 12:52 | | AR\AJ | Ok,M |
| 14 | I.BLK | I.BLK | PL093110.D | 18 Nov 2024 13:05 | | AR\AJ | Ok |
| 15 | PEM | PEM | PL093111.D | 18 Nov 2024 13:19 | | AR\AJ | Ok,M |
| 16 | PSTDCCC050 | PSTDCCC050 | PL093112.D | 18 Nov 2024 13:32 | | AR\AJ | Ok |
| 17 | P4860-06 | PH2-BOT-009 | PL093113.D | 18 Nov 2024 13:45 | | AR\AJ | Ok,M |
| 18 | P4860-07 | PH2-BOT-008 | PL093114.D | 18 Nov 2024 13:58 | associated CCC has DDD high | AR\AJ | Not Ok |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL111824

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 9:13:18 AM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:48:08 PM | | |
| SubDirectory | PL111824 | 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 | P4860-08 | PH2-BOT-007 | PL093115.D | 18 Nov 2024 14:11 | associated CCC has DDD high | AR\AJ | Not Ok |
| 20 | P4860-08MS | PH2-BOT-007MS | PL093116.D | 18 Nov 2024 14:24 | associated CCC has DDD high | AR\AJ | Not Ok |
| 21 | P4860-08MSD | PH2-BOT-007MSD | PL093117.D | 18 Nov 2024 14:38 | associated CCC has DDD high | AR\AJ | Not Ok |
| 22 | P4860-09 | PH2-BOT-006 | PL093118.D | 18 Nov 2024 14:51 | need clean up | AR\AJ | Not Ok |
| 23 | P4860-10 | PH2-BOT-005 | PL093119.D | 18 Nov 2024 15:04 | need clean up | AR\AJ | Not Ok |
| 24 | P4869-01 | EO-02-11152024 | PL093120.D | 18 Nov 2024 15:17 | | AR\AJ | Ok,M |
| 25 | P4887-01 | MH-739 | PL093121.D | 18 Nov 2024 15:30 | | AR\AJ | Ok,M |
| 26 | P4887-05 | MH-760 | PL093122.D | 18 Nov 2024 15:43 | | AR\AJ | Ok,M |
| 27 | P4889-01 | VNJ-228 | PL093123.D | 18 Nov 2024 15:56 | Need dilution | AR\AJ | Dilution |
| 28 | P4889-03 | #72-11978 | PL093124.D | 18 Nov 2024 16:10 | | AR\AJ | Ok,M |
| 29 | P4889-05 | #72-11930 | PL093125.D | 18 Nov 2024 16:23 | Need dilution- associated CCC has DDD high | AR\AJ | Not Ok |
| 30 | PB165053BL | PB165053BL | PL093126.D | 18 Nov 2024 16:36 | | AR\AJ | Ok |
| 31 | PB165053BS | PB165053BS | PL093127.D | 18 Nov 2024 16:49 | | AR\AJ | Ok,M |
| 32 | PB165019TB | PB165019TB | PL093128.D | 18 Nov 2024 17:02 | | AR\AJ | Ok |
| 33 | P4861-01 | WC-11-A-202411 | PL093129.D | 18 Nov 2024 17:16 | | AR\AJ | Ok |
| 34 | P4861-01MS | WC-11-A-202411MS | PL093130.D | 18 Nov 2024 17:29 | | AR\AJ | Ok,M |
| 35 | P4861-01MSD | WC-11-A-202411MSD | PL093131.D | 18 Nov 2024 17:42 | | AR\AJ | Ok,M |
| 36 | P4871-01 | WC-10-A-202411 | PL093132.D | 18 Nov 2024 17:55 | | AR\AJ | Ok |
| 37 | I.BLK | I.BLK | PL093133.D | 18 Nov 2024 18:08 | | AR\AJ | Ok |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL111824

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 9:13:18 AM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:48:08 PM | | |
| SubDirectory | PL111824 | 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 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | PSTDCCC050 | PSTDCCC050 | PL093134.D | 18 Nov 2024 18:21 | | AR\AJ | Ok |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL111924

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/20/2024 8:00:21 AM | | |
| Supervise By | Ankita | Supervise On | 11/20/2024 12:01:41 PM | | |
| SubDirectory | PL111924 | 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 | PL093135.D | 19 Nov 2024 12:18 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PL093136.D | 19 Nov 2024 12:44 | | AR\AJ | Ok |
| 3 | PEM | PEM | PL093137.D | 19 Nov 2024 12:57 | | AR\AJ | Ok,M |
| 4 | PSTDCCC050 | PSTDCCC050 | PL093138.D | 19 Nov 2024 13:25 | | AR\AJ | Ok,M |
| 5 | PB165046BS | PB165046BS | PL093139.D | 19 Nov 2024 13:52 | | AR\AJ | Ok,M |
| 6 | PB165046BL | PB165046BL | PL093140.D | 19 Nov 2024 14:05 | | AR\AJ | Ok |
| 7 | P4860-01 | DUP-01 | PL093141.D | 19 Nov 2024 14:18 | | AR\AJ | Ok,M |
| 8 | P4860-02 | PH2-BOT-001 | PL093142.D | 19 Nov 2024 14:31 | | AR\AJ | Ok,M |
| 9 | P4860-09 | PH2-BOT-006 | PL093143.D | 19 Nov 2024 14:44 | | AR\AJ | Ok,M |
| 10 | P4860-10 | PH2-BOT-005 | PL093144.D | 19 Nov 2024 14:57 | | AR\AJ | Ok,M |
| 11 | P4860-07 | PH2-BOT-008 | PL093145.D | 19 Nov 2024 15:11 | | AR\AJ | Ok,M |
| 12 | P4860-08 | PH2-BOT-007 | PL093146.D | 19 Nov 2024 15:24 | | AR\AJ | Ok,M |
| 13 | P4860-08MS | PH2-BOT-007MS | PL093147.D | 19 Nov 2024 15:37 | | AR\AJ | Ok,M |
| 14 | P4860-08MSD | PH2-BOT-007MSD | PL093148.D | 19 Nov 2024 15:50 | | AR\AJ | Ok,M |
| 15 | P4889-01DL | VNJ-228DL | PL093149.D | 19 Nov 2024 16:03 | | AR\AJ | Ok,NR |
| 16 | P4889-05 | #72-11930 | PL093150.D | 19 Nov 2024 16:16 | Need 2x Dilution | AR\AJ | Dilution |
| 17 | P4889-05DL | #72-11930DL | PL093151.D | 19 Nov 2024 16:30 | | AR\AJ | Ok,M |
| 18 | I.BLK | I.BLK | PL093152.D | 19 Nov 2024 16:43 | | AR\AJ | Ok |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL111924

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/20/2024 8:00:21 AM | | |
| Supervise By | Ankita | Supervise On | 11/20/2024 12:01:41 PM | | |
| SubDirectory | PL111924 | 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 | PSTDCCC050 | PSTDCCC050 | PL093153.D | 19 Nov 2024 16:56 | | AR\AJ | Ok,M |
| 20 | PB165083BL | PB165083BL | PL093154.D | 19 Nov 2024 17:22 | | AR\AJ | Ok |
| 21 | PB165083BS | PB165083BS | PL093155.D | 19 Nov 2024 17:36 | Recovery Fail in delta-BHC-I | AR\AJ | Not Ok |
| 22 | P4893-01 | MH-763 | PL093156.D | 19 Nov 2024 17:49 | | AR\AJ | Ok,M |
| 23 | P4893-05 | MH-762 | PL093157.D | 19 Nov 2024 18:02 | need cleanup | AR\AJ | Not Ok |
| 24 | P4908-01 | SP-1 | PL093158.D | 19 Nov 2024 18:15 | | AR\AJ | Ok,M |
| 25 | P4908-03 | SP-2 | PL093159.D | 19 Nov 2024 18:28 | | AR\AJ | Ok,M |
| 26 | P4909-01 | BU-02-111824 | PL093160.D | 19 Nov 2024 18:41 | | AR\AJ | Ok,M |
| 27 | P4910-01 | MH-COTTAGE | PL093161.D | 19 Nov 2024 18:55 | | AR\AJ | Ok,M |
| 28 | P4910-01MS | MH-COTTAGEMS | PL093162.D | 19 Nov 2024 19:08 | | AR\AJ | Ok,M |
| 29 | P4910-01MSD | MH-COTTAGEMSD | PL093163.D | 19 Nov 2024 19:21 | | AR\AJ | Ok,M |
| 30 | P4910-05 | MH-759 | PL093164.D | 19 Nov 2024 19:34 | | AR\AJ | Ok |
| 31 | I.BLK | I.BLK | PL093165.D | 19 Nov 2024 19:48 | | AR\AJ | Ok |
| 32 | PSTDCCC050 | PSTDCCC050 | PL093166.D | 19 Nov 2024 20:01 | | AR\AJ | Ok,M |

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# EXTRACTION LOGPAGE

PB165046

**SOP ID:** M3541-ASE Extraction-14

**Clean Up SOP #:** Florisil

**Matrix :** Solid

**Weigh By:** RJ

**Balance check:** RJ

**Balance ID:** EX-SC-2

**pH Strip Lot#:** N/A

**Extraction By:** RJ

**Filter By:** RJ

**pH Meter ID:** N/A

**Hood ID:** 3,7

**Extraction Start Date :** 11/18/2024

**Extraction Start Time :** 08:20

**Extraction End Date :** 11/18/2024

**Extraction End Time :** 11:20

**Concentration By:** EH

**Supervisor By :** rajesh

**Extraction Method:** ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 500 PPB | PP23928 |
| Surrogate | 1.0ML | 200 PPB | PP23858 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Hexane/Acetone/1:1 | N/A | EP2561 |
| Baked Na2SO4 | N/A | EP2562 |
| Sand | N/A | E2865 |
| Hexane | N/A | E3826 |
| 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 |

**Extraction Conformance/Non-Conformance Comments:**

40 ML Vial lot# 03-40 BTS721.

**KD Bath ID:** N/A

**KD Bath Temperature:** N/A

**Envap ID:** NEVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/18/24 | RP (Ext Lab) | AJ \| GST PCA Cees |
| 11:25 | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB165046**

**Analytical Method:** M3541-ASE Extraction-14 **Concentration Date:** 11/18/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB165046BL | PBLK046 | Pesticide-TCL | 30.01 | N/A | ritesh | Evelyn | 10 | | | U7-1 |
| PB165046BS | PLCS046 | Pesticide-TCL | 30.03 | N/A | ritesh | Evelyn | 10 | | | 2 |
| P4860-01 | DUP-01 | Pesticide-TCL | 30.05 | N/A | ritesh | Evelyn | 10 | E | | 3 |
| P4860-02 | PH2-BPT-001 | Pesticide-TCL | 30.06 | N/A | ritesh | Evelyn | 10 | E | | 4 |
| P4860-03 | PH2-BPT-002 | Pesticide-TCL | 30.08 | N/A | ritesh | Evelyn | 10 | E | | 5 |
| P4860-04 | PH2-BPT-003 | Pesticide-TCL | 30.10 | N/A | ritesh | Evelyn | 10 | E | | 6 |
| P4860-05 | PH2-BPT-004 | Pesticide-TCL | 30.03 | N/A | ritesh | Evelyn | 10 | E | | U1-1 |
| P4860-06 | PH2-BPT-009 | Pesticide-TCL | 30.07 | N/A | ritesh | Evelyn | 10 | E | | 2 |
| P4860-07 | PH2-BPT-008 | Pesticide-TCL | 30.06 | N/A | ritesh | Evelyn | 10 | E | | 3 |
| P4860-08 | PH2-BPT-007 | Pesticide-TCL | 30.01 | N/A | ritesh | Evelyn | 10 | E | | 4 |
| P4860-08MS | PH2-BPT-007MS | Pesticide-TCL | 30.02 | N/A | ritesh | Evelyn | 10 | E | | 5 |
| P4860-08MSD | PH2-BPT-007MSD | Pesticide-TCL | 30.05 | N/A | ritesh | Evelyn | 10 | E | | 6 |
| P4860-09 | PH2-BPT-006 | Pesticide-TCL | 30.04 | N/A | ritesh | Evelyn | 10 | E | | U5-1 |
| P4860-10 | PH2-BPT-005 | Pesticide-TCL | 30.06 | N/A | ritesh | Evelyn | 10 | E | | 2 |
| P4869-01 | EO-02-11152024 | Pesticide-TCL | 30.03 | N/A | ritesh | Evelyn | 10 | E | | 3 |
| P4887-01 | MH-739 | Pesticide-TCL | 30.07 | N/A | ritesh | Evelyn | 10 | D | | 4 |
| P4887-05 | MH-760 | Pesticide-TCL | 30.02 | N/A | ritesh | Evelyn | 10 | D | | 5 |
| P4889-01 | VNJ-228 | Pesticide-TCL | 30.05 | N/A | ritesh | Evelyn | 10 | E | | 6 |
| P4889-03 | #72-11978 | Pesticide-TCL | 30.09 | N/A | ritesh | Evelyn | 10 | E | | U6-1 |
| P4889-05 | #72-11930 | Pesticide-TCL | 30.04 | N/A | ritesh | Evelyn | 10 | E | | 2 |

*** Extracts relinquished on the same date as received.**

11/19/24

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** p4869 **WorkList ID :** 185508 **Department :** Extraction **Date :** 11-18-2024 08:13:33

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4860-01 | DUP-01 | Solid | Pesticide-TCL | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8081B |
| P4860-02 | PH2-BPT-001 | Solid | Pesticide-TCL | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8081B |
| P4860-03 | PH2-BPT-002 | Solid | Pesticide-TCL | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8081B |
| P4860-04 | PH2-BPT-003 | Solid | Pesticide-TCL | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8081B |
| P4860-05 | PH2-BPT-004 | Solid | Pesticide-TCL | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8081B |
| P4860-06 | PH2-BPT-009 | Solid | Pesticide-TCL | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8081B |
| P4860-07 | PH2-BPT-008 | Solid | Pesticide-TCL | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8081B |
| P4860-08 | PH2-BPT-007 | Solid | Pesticide-TCL | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8081B |
| P4860-09 | PH2-BPT-006 | Solid | Pesticide-TCL | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8081B |
| P4860-10 | PH2-BPT-005 | Solid | Pesticide-TCL | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8081B |
| P4869-01 | EO-02-11152024 | Solid | Pesticide-TCL | Cool 4 deg C | PSEG05 | M11 | 11/15/2024 | 8081B |
| P4887-01 | MH-739 | Solid | Pesticide-TCL | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | 8081B |
| P4887-05 | MH-760 | Solid | Pesticide-TCL | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | 8081B |
| P4889-01 | VNJ-228 | Solid | Pesticide-TCL | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | 8081B |
| P4889-03 | #72-11978 | Solid | Pesticide-TCL | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | 8081B |
| P4889-05 | #72-11930 | Solid | Pesticide-TCL | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | 8081B |

809 of 1443

**Date/Time** 11/18/24 8:15

**Raw Sample Received by:** RJ (Ext Lab)

**Raw Sample Relinquished by:**

**Date/Time** 11/18/24 8:45

**Raw Sample Received by:**

**Raw Sample Relinquished by:** RJ (Ext Lab)

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4860 | **OrderDate:** | 11/14/2024 1:36:41 PM |
| **Client:** | Tetra Tech | **Project:** | Ocean County Landfill 2024 |
| **Contact:** | John Giuliano | **Location:** | L41 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4860-01** | **DUP-01** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | Pesticide-TCL | 8081B | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/18/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-02** | **PH2-BOT-001** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | Pesticide-TCL | 8081B | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/18/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-03** | **PH2-BOT-002** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | Pesticide-TCL | 8081B | | 11/18/24 | 11/18/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-04** | **PH2-BOT-003** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | Pesticide-TCL | 8081B | | 11/18/24 | 11/18/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-05** | **PH2-BOT-004** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | Pesticide-TCL | 8081B | | 11/18/24 | 11/18/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-06** | **PH2-BOT-009** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | Pesticide-TCL | 8081B | | 11/18/24 | 11/18/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |

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# LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **P4860-07** | **PH2-BOT-008** | **SOIL** | | | **11/14/24** | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 |
| | | | Pesticide-TCL | 8081B | | 11/18/24 | 11/19/24 |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 |
| **P4860-08** | **PH2-BOT-007** | **SOIL** | | | **11/14/24** | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 |
| | | | Pesticide-TCL | 8081B | | 11/18/24 | 11/19/24 |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 |
| **P4860-09** | **PH2-BOT-006** | **SOIL** | | | **11/14/24** | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 |
| | | | Pesticide-TCL | 8081B | | 11/18/24 | 11/19/24 |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 |
| **P4860-10** | **PH2-BOT-005** | **SOIL** | | | **11/14/24** | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 |
| | | | Pesticide-TCL | 8081B | | 11/18/24 | 11/19/24 |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 |

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# Hit Summary Sheet
## SW-846

**SDG No.:** P4860 **Order ID:** P4860

**Client:** Tetra Tech **Project ID:** Ocean County Landfill 2024

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID :** | | | | | | | | |
| | | | **Total Concentration:** | **0.000** | | | | |

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01 | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 96.8 Decanted: |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO108075.D | 1 | 11/18/24 08:20 | 11/19/24 01:37 | PB165043 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.50 | U | 3.50 | 17.5 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.60 | U | 6.60 | 17.5 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.50 | U | 3.50 | 17.5 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.50 | U | 3.50 | 17.5 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.10 | U | 8.10 | 17.5 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 2.80 | U | 2.80 | 17.5 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 4.70 | U | 4.70 | 17.5 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.50 | U | 3.50 | 17.5 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.00 | U | 3.00 | 17.5 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 21.7 | | 30 (32) - 150 (144) | 108% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 23.4 | | 30 (32) - 150 (175) | 117% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 96.8 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 |
|---|---|---|---|---|
| PO108078.D | 1 | 11/18/24 08:20 | 11/19/24 02:26 | PB165043 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.50 | U | 3.50 | 17.5 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.60 | U | 6.60 | 17.5 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.50 | U | 3.50 | 17.5 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.50 | U | 3.50 | 17.5 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.10 | U | 8.10 | 17.5 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 2.80 | U | 2.80 | 17.5 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 4.70 | U | 4.70 | 17.5 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.50 | U | 3.50 | 17.5 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.00 | U | 3.00 | 17.5 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 21.9 | | 30 (32) - 150 (144) | 110% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 24.5 | | 30 (32) - 150 (175) | 123% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 96.6 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 |
|---|---|---|---|---|
| PO108079.D | 1 | 11/18/24 08:20 | 11/19/24 02:42 | PB165043 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.50 | U | 3.50 | 17.6 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.60 | U | 6.60 | 17.6 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.50 | U | 3.50 | 17.6 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.50 | U | 3.50 | 17.6 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.10 | U | 8.10 | 17.6 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 2.80 | U | 2.80 | 17.6 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 4.70 | U | 4.70 | 17.6 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.50 | U | 3.50 | 17.6 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.00 | U | 3.00 | 17.6 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 22.5 | | 30 (32) - 150 (144) | 113% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 23.9 | | 30 (32) - 150 (175) | 120% | SPK: 20 |

Comments:

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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 97.8 Decanted: |
| Sample Wt/Vol: | 30.1 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 |
|---|---|---|---|---|
| PO108080.D | 1 | 11/18/24 08:20 | 11/19/24 02:59 | PB165043 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.50 | U | 3.50 | 17.3 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.50 | U | 6.50 | 17.3 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.50 | U | 3.50 | 17.3 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.50 | U | 3.50 | 17.3 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.00 | U | 8.00 | 17.3 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 2.80 | U | 2.80 | 17.3 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 4.70 | U | 4.70 | 17.3 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.50 | U | 3.50 | 17.3 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.00 | U | 3.00 | 17.3 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 23.0 | | 30 (32) - 150 (144) | 115% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 25.4 | | 30 (32) - 150 (175) | 127% | SPK: 20 |

Comments:

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 98.1 Decanted: |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO108081.D | 1 | 11/18/24 08:20 | 11/19/24 03:16 | PB165043 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.50 | U | 3.50 | 17.3 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.50 | U | 6.50 | 17.3 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.50 | U | 3.50 | 17.3 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.50 | U | 3.50 | 17.3 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.00 | U | 8.00 | 17.3 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 2.80 | U | 2.80 | 17.3 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 4.70 | U | 4.70 | 17.3 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.50 | U | 3.50 | 17.3 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.00 | U | 3.00 | 17.3 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 22.3 | | 30 (32) - 150 (144) | 112% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 24.7 | | 30 (32) - 150 (175) | 123% | SPK: 20 |

Comments:

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 98.3 Decanted: |
| Sample Wt/Vol: | 30.07 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO108082.D | 1 | 11/18/24 08:20 | 11/19/24 03:33 | PB165043 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.40 | U | 3.40 | 17.3 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.50 | U | 6.50 | 17.3 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.50 | U | 3.50 | 17.3 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.40 | U | 3.40 | 17.3 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.00 | U | 8.00 | 17.3 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 2.80 | U | 2.80 | 17.3 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 4.60 | U | 4.60 | 17.3 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.50 | U | 3.50 | 17.3 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.00 | U | 3.00 | 17.3 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 23.1 | | 30 (32) - 150 (144) | 116% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 25.5 | | 30 (32) - 150 (175) | 128% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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() = Laboratory InHouse Limit

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 96.8 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 |
|---|---|---|---|---|
| PO108083.D | 1 | 11/18/24 08:20 | 11/19/24 03:49 | PB165043 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.50 | U | 3.50 | 17.5 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.60 | U | 6.60 | 17.5 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.50 | U | 3.50 | 17.5 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.50 | U | 3.50 | 17.5 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.10 | U | 8.10 | 17.5 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 2.80 | U | 2.80 | 17.5 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 4.70 | U | 4.70 | 17.5 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.50 | U | 3.50 | 17.5 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.00 | U | 3.00 | 17.5 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 21.7 | | 30 (32) - 150 (144) | 108% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 23.1 | | 30 (32) - 150 (175) | 116% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 98 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 |
|---|---|---|---|---|
| PO108084.D | 1 | 11/18/24 08:20 | 11/19/24 04:06 | PB165043 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.50 | U | 3.50 | 17.3 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.50 | U | 6.50 | 17.3 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.50 | U | 3.50 | 17.3 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.50 | U | 3.50 | 17.3 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.00 | U | 8.00 | 17.3 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 2.80 | U | 2.80 | 17.3 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 4.70 | U | 4.70 | 17.3 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.50 | U | 3.50 | 17.3 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.00 | U | 3.00 | 17.3 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 18.7 | | 30 (32) - 150 (144) | 94% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 22.6 | | 30 (32) - 150 (175) | 113% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 97.5 Decanted: |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO108085.D | 1 | 11/18/24 08:20 | 11/19/24 04:23 | PB165043 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.50 | U | 3.50 | 17.4 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.60 | U | 6.60 | 17.4 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.50 | U | 3.50 | 17.4 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.50 | U | 3.50 | 17.4 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.10 | U | 8.10 | 17.4 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 2.80 | U | 2.80 | 17.4 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 4.70 | U | 4.70 | 17.4 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.50 | U | 3.50 | 17.4 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.00 | U | 3.00 | 17.4 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 21.5 | | 30 (32) - 150 (144) | 108% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 22.7 | | 30 (32) - 150 (175) | 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 97.6 Decanted: |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO108086.D | 1 | 11/18/24 08:20 | 11/19/24 04:39 | PB165043 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.50 | U | 3.50 | 17.4 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.60 | U | 6.60 | 17.4 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.50 | U | 3.50 | 17.4 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.50 | U | 3.50 | 17.4 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.10 | U | 8.10 | 17.4 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 2.80 | U | 2.80 | 17.4 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 4.70 | U | 4.70 | 17.4 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.50 | U | 3.50 | 17.4 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.00 | U | 3.00 | 17.4 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 21.9 | | 30 (32) - 150 (144) | 110% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 23.2 | | 30 (32) - 150 (175) | 116% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

# QC SUMMARY

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Fax : 908 789 8922



## Surrogate Summary

**SDG No.:** P4860

**Client:** Tetra Tech

**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-PO108072.D | PIBLK-PO108072.D | Tetrachloro-m-xylene | 1 | 20 | 21.5 | 108 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 1 | 20 | 25.1 | 125 | | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.1 | 106 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 2 | 20 | 22.7 | 113 | | 70 (60) | 130 (140) |
| PB165043BL | PB165043BL | Tetrachloro-m-xylene | 1 | 20 | 20.0 | 100 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 23.1 | 116 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.4 | 97 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 20.7 | 104 | | 30 (32) | 150 (175) |
| PB165043BS | PB165043BS | Tetrachloro-m-xylene | 1 | 20 | 21.2 | 106 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 23.9 | 120 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.6 | 98 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 21.5 | 108 | | 30 (32) | 150 (175) |
| P4860-01 | DUP-01 | Tetrachloro-m-xylene | 1 | 20 | 21.7 | 108 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 23.4 | 117 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.1 | 106 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 21.2 | 106 | | 30 (32) | 150 (175) |
| P4860-01MS | DUP-01MS | Tetrachloro-m-xylene | 1 | 20 | 20.6 | 103 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 22.2 | 111 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.1 | 95 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 20.3 | 101 | | 30 (32) | 150 (175) |
| P4860-01MSD | DUP-01MSD | Tetrachloro-m-xylene | 1 | 20 | 20.5 | 102 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 22.2 | 111 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.2 | 96 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 20.1 | 101 | | 30 (32) | 150 (175) |
| P4860-02 | PH2-BOT-001 | Tetrachloro-m-xylene | 1 | 20 | 21.9 | 110 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 24.5 | 123 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.7 | 108 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 21.9 | 110 | | 30 (32) | 150 (175) |
| P4860-03 | PH2-BOT-002 | Tetrachloro-m-xylene | 1 | 20 | 22.5 | 113 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 23.9 | 120 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 22.3 | 112 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 21.4 | 107 | | 30 (32) | 150 (175) |
| P4860-04 | PH2-BOT-003 | Tetrachloro-m-xylene | 1 | 20 | 23.0 | 115 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 25.4 | 127 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 23.0 | 115 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 23.0 | 115 | | 30 (32) | 150 (175) |
| P4860-05 | PH2-BOT-004 | Tetrachloro-m-xylene | 1 | 20 | 22.3 | 112 | | 30 (32) | 150 (144) |

( ) = LABORATORY INHOUSE LIMIT

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## Surrogate Summary

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** 8082A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| P4860-05 | PH2-BOT-004 | Decachlorobiphenyl | 1 | 20 | 24.7 | 123 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 22.0 | 110 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 22.3 | 112 | | 30 (32) | 150 (175) |
| P4860-06 | PH2-BOT-009 | Tetrachloro-m-xylene | 1 | 20 | 23.1 | 116 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 25.5 | 128 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 22.9 | 115 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 23.3 | 117 | | 30 (32) | 150 (175) |
| P4860-07 | PH2-BOT-008 | Tetrachloro-m-xylene | 1 | 20 | 21.7 | 108 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 23.1 | 116 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.6 | 108 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 21.1 | 105 | | 30 (32) | 150 (175) |
| P4860-08 | PH2-BOT-007 | Tetrachloro-m-xylene | 1 | 20 | 18.7 | 94 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 22.6 | 113 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.4 | 92 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 20.2 | 101 | | 30 (32) | 150 (175) |
| P4860-09 | PH2-BOT-006 | Tetrachloro-m-xylene | 1 | 20 | 21.5 | 108 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 22.7 | 114 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.1 | 105 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 20.8 | 104 | | 30 (32) | 150 (175) |
| P4860-10 | PH2-BOT-005 | Tetrachloro-m-xylene | 1 | 20 | 21.9 | 110 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 23.2 | 116 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.8 | 109 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 21.4 | 107 | | 30 (32) | 150 (175) |
| I.BLK-PO108088.D | PIBLK-PO108088.D | Tetrachloro-m-xylene | 1 | 20 | 21.6 | 108 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 1 | 20 | 25.0 | 125 | | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.1 | 105 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 2 | 20 | 22.4 | 112 | | 70 (60) | 130 (140) |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** 8082A **DataFile :** PO108076.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **DUP-01MS** | | | | | | | | | | | |
| P4860-01MS | AR1016 | 172 | 0 | 173 | ug/kg | 101 | | | | 40 (55) | 140 (146) | |
| | AR1260 | 172 | 0 | 172 | ug/kg | 100 | | | | 40 (45) | 140 (144) | |

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922



## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** 8082A **DataFile :** PO108077.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:** | **DUP-01MSD** | | | | | | | | | | | |
| P4860-01MSD | AR1016 | 172.1 | 0 | 174 | ug/kg | 101 | | 0 | | 40 (55) | 140 (146) | 30 (20) |
| | AR1260 | 172.1 | 0 | 172 | ug/kg | 100 | | 0 | | 40 (45) | 140 (144) | 30 (20) |

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922



## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4860

**Client:** Tetra Tech

**Analytical Method:** 8082A **Datafile :** PO108074.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB165043BS | AR1016 | 166.6 | 159 | ug/kg | 95 | | | | 40 (71) | 140 (120) | |
| | AR1260 | 166.6 | 163 | ug/kg | 98 | | | | 40 (65) | 140 (130) | |

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922



4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165043BL

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Lab Sample ID: PB165043BL Lab File ID: PO108073.D

Matrix: (soil/water) Solid Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 11/18/2024

Date Analyzed (1): 11/19/2024 Date Analyzed (2): 11/19/2024

Time Analyzed (1): 01:04 Time Analyzed (2): 01:04

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 |
|---|---|---|---|---|
| PB165043BS | PB165043BS | PO108074.D | 11/19/2024 | 11/19/2024 |
| DUP-01 | P4860-01 | PO108075.D | 11/19/2024 | 11/19/2024 |
| DUP-01MS | P4860-01MS | PO108076.D | 11/19/2024 | 11/19/2024 |
| DUP-01MSD | P4860-01MSD | PO108077.D | 11/19/2024 | 11/19/2024 |
| PH2-BOT-001 | P4860-02 | PO108078.D | 11/19/2024 | 11/19/2024 |
| PH2-BOT-002 | P4860-03 | PO108079.D | 11/19/2024 | 11/19/2024 |
| PH2-BOT-003 | P4860-04 | PO108080.D | 11/19/2024 | 11/19/2024 |
| PH2-BOT-004 | P4860-05 | PO108081.D | 11/19/2024 | 11/19/2024 |
| PH2-BOT-009 | P4860-06 | PO108082.D | 11/19/2024 | 11/19/2024 |
| PH2-BOT-008 | P4860-07 | PO108083.D | 11/19/2024 | 11/19/2024 |
| PH2-BOT-007 | P4860-08 | PO108084.D | 11/19/2024 | 11/19/2024 |
| PH2-BOT-006 | P4860-09 | PO108085.D | 11/19/2024 | 11/19/2024 |
| PH2-BOT-005 | P4860-10 | PO108086.D | 11/19/2024 | 11/19/2024 |

COMMENTS:

# QC SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165043BL | SDG No.: | P4860 |
| Lab Sample ID: | PB165043BL | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO108073.D | 1 | 11/18/24 08:20 | 11/19/24 01:04 | PB165043 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.40 | U | 3.40 | 17.0 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.40 | U | 6.40 | 17.0 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.40 | U | 3.40 | 17.0 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.40 | U | 3.40 | 17.0 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 7.90 | U | 7.90 | 17.0 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 2.70 | U | 2.70 | 17.0 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 4.60 | U | 4.60 | 17.0 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.40 | U | 3.40 | 17.0 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 2.90 | U | 2.90 | 17.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.0 | | 30 (32) - 150 (144) | 100% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 23.1 | | 30 (32) - 150 (175) | 116% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/18/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/18/24 |
| Client Sample ID: | PIBLK-PO108037.D | SDG No.: | P4860 |
| 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:

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() = Laboratory InHouse Limit

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/19/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/19/24 |
| Client Sample ID: | PIBLK-PO108072.D | SDG No.: | P4860 |
| Lab Sample ID: | I.BLK-PO108072.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 |
|---|---|---|---|---|
| PO108072.D | 1 | | 11/19/24 | 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 | 21.1 | | 70 (60) - 130 (140) | 106% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 22.7 | | 70 (60) - 130 (140) | 113% | SPK: 20 |

Comments:

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() = Laboratory InHouse Limit

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/19/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/19/24 |
| Client Sample ID: | PIBLK-PO108088.D | SDG No.: | P4860 |
| Lab Sample ID: | I.BLK-PO108088.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 |
|---|---|---|---|---|
| PO108088.D | 1 | | 11/19/24 | 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 | 21.1 | | 70 (60) - 130 (140) | 105% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 22.4 | | 70 (60) - 130 (140) | 112% | SPK: 20 |

Comments:

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165043BS | SDG No.: | P4860 |
| Lab Sample ID: | PB165043BS | 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 |
|---|---|---|---|---|
| PO108074.D | 1 | 11/18/24 08:20 | 11/19/24 01:20 | PB165043 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 159 | | 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 | 163 | | 2.90 | 17.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 21.2 | | 30 (32) - 150 (144) | 106% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 23.9 | | 30 (32) - 150 (175) | 120% | SPK: 20 |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01MS | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01MS | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 96.8 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 |
|---|---|---|---|---|
| PO108076.D | 1 | 11/18/24 08:20 | 11/19/24 01:54 | PB165043 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 173 | | 3.50 | 17.5 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.60 | U | 6.60 | 17.5 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.50 | U | 3.50 | 17.5 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.50 | U | 3.50 | 17.5 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.10 | U | 8.10 | 17.5 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 2.80 | U | 2.80 | 17.5 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 4.70 | U | 4.70 | 17.5 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.50 | U | 3.50 | 17.5 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 172 | | 3.00 | 17.5 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.6 | | 30 (32) - 150 (144) | 103% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 22.2 | | 30 (32) - 150 (175) | 111% | SPK: 20 |

Comments:

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01MSD | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01MSD | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 96.8 Decanted: |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO108077.D | 1 | 11/18/24 08:20 | 11/19/24 02:10 | PB165043 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 174 | | 3.50 | 17.6 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.60 | U | 6.60 | 17.6 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.50 | U | 3.50 | 17.6 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.50 | U | 3.50 | 17.6 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.10 | U | 8.10 | 17.6 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 2.80 | U | 2.80 | 17.6 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 4.70 | U | 4.70 | 17.6 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.50 | U | 3.50 | 17.6 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 172 | | 3.00 | 17.6 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.5 | | 30 (32) - 150 (144) | 102% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 22.2 | | 30 (32) - 150 (175) | 111% | SPK: 20 |

Comments:

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# CALIBRATION SUMMARY

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



## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Continuing Calib Date:** 11/19/2024 **Initial Calibration Date(s):** 11/18/2024 11/18/2024

**Continuing Calib Time:** 00:31 **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) | 7.39 | 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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Continuing Calib Date:** 11/19/2024 **Initial Calibration Date(s):** 11/18/2024 11/18/2024

**Continuing Calib Time:** 00:31 **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 | 0.01 |
| 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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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 :** PO108071.D **Time Analyzed:** 00:31

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.525 | 5.425 | 5.625 | 497.540 | 500.000 | -0.5 |
| Aroclor-1016-2 | 5.547 | 5.447 | 5.647 | 498.670 | 500.000 | -0.3 |
| Aroclor-1016-3 | 5.610 | 5.510 | 5.710 | 487.600 | 500.000 | -2.5 |
| Aroclor-1016-4 | 5.707 | 5.607 | 5.807 | 500.180 | 500.000 | 0.0 |
| Aroclor-1016-5 | 6.003 | 5.904 | 6.104 | 505.590 | 500.000 | 1.1 |
| Aroclor-1260-1 | 7.137 | 7.037 | 7.237 | 523.830 | 500.000 | 4.8 |
| Aroclor-1260-2 | 7.393 | 7.295 | 7.495 | 532.260 | 500.000 | 6.5 |
| Aroclor-1260-3 | 7.757 | 7.658 | 7.858 | 535.230 | 500.000 | 7.0 |
| Aroclor-1260-4 | 7.983 | 7.884 | 8.084 | 532.320 | 500.000 | 6.5 |
| Aroclor-1260-5 | 8.298 | 8.198 | 8.398 | 535.490 | 500.000 | 7.1 |
| Decachlorobiphenyl | 10.089 | 9.991 | 10.191 | 52.760 | 50.000 | 5.5 |
| Tetrachloro-m-xylene | 4.370 | 4.270 | 4.470 | 50.890 | 50.000 | 1.8 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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 :** PO108071.D **Time Analyzed:** 00:31

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.719 | 4.620 | 4.820 | 506.120 | 500.000 | 1.2 |
| Aroclor-1016-2 | 4.738 | 4.639 | 4.839 | 512.910 | 500.000 | 2.6 |
| Aroclor-1016-3 | 4.913 | 4.815 | 5.015 | 510.950 | 500.000 | 2.2 |
| Aroclor-1016-4 | 4.955 | 4.856 | 5.056 | 505.670 | 500.000 | 1.1 |
| Aroclor-1016-5 | 5.169 | 5.070 | 5.270 | 508.420 | 500.000 | 1.7 |
| Aroclor-1260-1 | 6.199 | 6.100 | 6.300 | 504.200 | 500.000 | 0.8 |
| Aroclor-1260-2 | 6.387 | 6.288 | 6.488 | 505.250 | 500.000 | 1.1 |
| Aroclor-1260-3 | 6.540 | 6.441 | 6.641 | 503.560 | 500.000 | 0.7 |
| Aroclor-1260-4 | 7.012 | 6.912 | 7.112 | 505.250 | 500.000 | 1.1 |
| Aroclor-1260-5 | 7.253 | 7.154 | 7.354 | 506.370 | 500.000 | 1.3 |
| Decachlorobiphenyl | 8.633 | 8.535 | 8.735 | 50.380 | 50.000 | 0.8 |
| Tetrachloro-m-xylene | 3.638 | 3.539 | 3.739 | 51.820 | 50.000 | 3.6 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Continuing Calib Date:** 11/19/2024 **Initial Calibration Date(s):** 11/18/2024 11/18/2024

**Continuing Calib Time:** 04:56 **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 | | 10.09 | 10.09 | 9.99 | 10.19 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**Continuing Calib Date:** 11/19/2024 **Initial Calibration Date(s):** 11/18/2024 11/18/2024

**Continuing Calib Time:** 04:56 **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:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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 :** PO108087.D **Time Analyzed:** 04:56

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.527 | 5.425 | 5.625 | 497.350 | 500.000 | -0.5 |
| Aroclor-1016-2 | 5.549 | 5.447 | 5.647 | 500.460 | 500.000 | 0.1 |
| Aroclor-1016-3 | 5.612 | 5.510 | 5.710 | 490.710 | 500.000 | -1.9 |
| Aroclor-1016-4 | 5.709 | 5.607 | 5.807 | 502.090 | 500.000 | 0.4 |
| Aroclor-1016-5 | 6.006 | 5.904 | 6.104 | 507.000 | 500.000 | 1.4 |
| Aroclor-1260-1 | 7.139 | 7.037 | 7.237 | 522.990 | 500.000 | 4.6 |
| Aroclor-1260-2 | 7.396 | 7.295 | 7.495 | 528.810 | 500.000 | 5.8 |
| Aroclor-1260-3 | 7.760 | 7.658 | 7.858 | 528.620 | 500.000 | 5.7 |
| Aroclor-1260-4 | 7.986 | 7.884 | 8.084 | 528.490 | 500.000 | 5.7 |
| Aroclor-1260-5 | 8.300 | 8.198 | 8.398 | 530.530 | 500.000 | 6.1 |
| Decachlorobiphenyl | 10.093 | 9.991 | 10.191 | 52.100 | 50.000 | 4.2 |
| Tetrachloro-m-xylene | 4.372 | 4.270 | 4.470 | 51.270 | 50.000 | 2.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CORN02

**Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860 **SDG NO.:** P4860

**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 :** PO108087.D **Time Analyzed:** 04:56

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.719 | 4.620 | 4.820 | 509.090 | 500.000 | 1.8 |
| Aroclor-1016-2 | 4.738 | 4.639 | 4.839 | 514.180 | 500.000 | 2.8 |
| Aroclor-1016-3 | 4.914 | 4.815 | 5.015 | 514.660 | 500.000 | 2.9 |
| Aroclor-1016-4 | 4.956 | 4.856 | 5.056 | 512.950 | 500.000 | 2.6 |
| Aroclor-1016-5 | 5.169 | 5.070 | 5.270 | 508.900 | 500.000 | 1.8 |
| Aroclor-1260-1 | 6.200 | 6.100 | 6.300 | 504.230 | 500.000 | 0.8 |
| Aroclor-1260-2 | 6.388 | 6.288 | 6.488 | 505.750 | 500.000 | 1.2 |
| Aroclor-1260-3 | 6.542 | 6.441 | 6.641 | 502.390 | 500.000 | 0.5 |
| Aroclor-1260-4 | 7.013 | 6.912 | 7.112 | 503.660 | 500.000 | 0.7 |
| Aroclor-1260-5 | 7.253 | 7.154 | 7.354 | 504.340 | 500.000 | 0.9 |
| Decachlorobiphenyl | 8.635 | 8.535 | 8.735 | 50.130 | 50.000 | 0.3 |
| Tetrachloro-m-xylene | 3.638 | 3.539 | 3.739 | 52.160 | 50.000 | 4.3 |

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# Analytical Sequence

**Client:** Tetra Tech **SDG No.:** P4860

**Project:** Ocean County Landfill 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 | 00:31 | PO108071.D | 10.09 | 4.37 |
| I.BLK | I.BLK | 11/19/2024 | 00:48 | PO108072.D | 10.09 | 4.37 |
| PB165043BL | PB165043BL | 11/19/2024 | 01:04 | PO108073.D | 10.09 | 4.37 |
| PB165043BS | PB165043BS | 11/19/2024 | 01:20 | PO108074.D | 10.09 | 4.37 |
| DUP-01 | P4860-01 | 11/19/2024 | 01:37 | PO108075.D | 10.09 | 4.37 |
| DUP-01MS | P4860-01MS | 11/19/2024 | 01:54 | PO108076.D | 10.09 | 4.37 |
| DUP-01MSD | P4860-01MSD | 11/19/2024 | 02:10 | PO108077.D | 10.09 | 4.37 |
| PH2-BOT-001 | P4860-02 | 11/19/2024 | 02:26 | PO108078.D | 10.09 | 4.37 |
| PH2-BOT-002 | P4860-03 | 11/19/2024 | 02:42 | PO108079.D | 10.09 | 4.37 |
| PH2-BOT-003 | P4860-04 | 11/19/2024 | 02:59 | PO108080.D | 10.09 | 4.37 |
| PH2-BOT-004 | P4860-05 | 11/19/2024 | 03:16 | PO108081.D | 10.09 | 4.37 |
| PH2-BOT-009 | P4860-06 | 11/19/2024 | 03:33 | PO108082.D | 10.09 | 4.37 |
| PH2-BOT-008 | P4860-07 | 11/19/2024 | 03:49 | PO108083.D | 10.09 | 4.37 |

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## Analytical Sequence

| | | | | | | |
|---|---|---|---|---|---|---|
| PH2-BOT-007 | P4860-08 | 11/19/2024 | 04:06 | PO108084.D | 10.09 | 4.37 |
| PH2-BOT-006 | P4860-09 | 11/19/2024 | 04:23 | PO108085.D | 10.09 | 4.37 |
| PH2-BOT-005 | P4860-10 | 11/19/2024 | 04:39 | PO108086.D | 10.09 | 4.37 |
| AR1660CCC500 | AR1660CCC500 | 11/19/2024 | 04:56 | PO108087.D | 10.09 | 4.37 |
| I.BLK | I.BLK | 11/19/2024 | 05:12 | PO108088.D | 10.09 | 4.37 |

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



# Analytical Sequence

**Client:** Tetra Tech **SDG No.:** P4860

**Project:** Ocean County Landfill 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 | 00:31 | PO108071.D | 8.63 | 3.64 |
| I.BLK | I.BLK | 11/19/2024 | 00:48 | PO108072.D | 8.64 | 3.64 |
| PB165043BL | PB165043BL | 11/19/2024 | 01:04 | PO108073.D | 8.63 | 3.64 |
| PB165043BS | PB165043BS | 11/19/2024 | 01:20 | PO108074.D | 8.63 | 3.64 |
| DUP-01 | P4860-01 | 11/19/2024 | 01:37 | PO108075.D | 8.63 | 3.64 |
| DUP-01MS | P4860-01MS | 11/19/2024 | 01:54 | PO108076.D | 8.63 | 3.64 |
| DUP-01MSD | P4860-01MSD | 11/19/2024 | 02:10 | PO108077.D | 8.63 | 3.64 |
| PH2-BOT-001 | P4860-02 | 11/19/2024 | 02:26 | PO108078.D | 8.63 | 3.64 |
| PH2-BOT-002 | P4860-03 | 11/19/2024 | 02:42 | PO108079.D | 8.63 | 3.64 |
| PH2-BOT-003 | P4860-04 | 11/19/2024 | 02:59 | PO108080.D | 8.63 | 3.64 |
| PH2-BOT-004 | P4860-05 | 11/19/2024 | 03:16 | PO108081.D | 8.63 | 3.64 |
| PH2-BOT-009 | P4860-06 | 11/19/2024 | 03:33 | PO108082.D | 8.63 | 3.64 |
| PH2-BOT-008 | P4860-07 | 11/19/2024 | 03:49 | PO108083.D | 8.63 | 3.64 |

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Fax : 908 789 8922





## Analytical Sequence

| | | | | | | |
|---|---|---|---|---|---|---|
| PH2-BOT-007 | P4860-08 | 11/19/2024 | 04:06 | PO108084.D | 8.63 | 3.64 |
| PH2-BOT-006 | P4860-09 | 11/19/2024 | 04:23 | PO108085.D | 8.63 | 3.64 |
| PH2-BOT-005 | P4860-10 | 11/19/2024 | 04:39 | PO108086.D | 8.63 | 3.64 |
| AR1660CCC500 | AR1660CCC500 | 11/19/2024 | 04:56 | PO108087.D | 8.64 | 3.64 |
| I.BLK | I.BLK | 11/19/2024 | 05:12 | PO108088.D | 8.64 | 3.64 |

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# IDENTIFICATION SUMMARY
## FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB165043BS

Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Lab Sample ID: PB165043BS 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 PO108074.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 5.525 | 5.475 | 5.575 | 159 | | |
| | 2 | 5.548 | 5.498 | 5.598 | 160 | | |
| | 3 | 5.61 | 5.56 | 5.66 | 155 | | |
| COLUMN 1 | 4 | 5.707 | 5.657 | 5.757 | 160 | | |
| | 5 | 6.004 | 5.954 | 6.054 | 157 | 158 | |
| | 1 | 4.719 | 4.669 | 4.769 | 160 | | |
| | 2 | 4.738 | 4.688 | 4.788 | 162 | | |
| | 3 | 4.914 | 4.864 | 4.964 | 161 | | |
| | 4 | 4.955 | 4.905 | 5.005 | 157 | | |
| COLUMN 2 | 5 | 5.169 | 5.119 | 5.219 | 155 | 159 | 0.63 |
| Aroclor-1260 | 1 | 7.136 | 7.086 | 7.186 | 174 | | |
| | 2 | 7.394 | 7.344 | 7.444 | 179 | | |
| | 3 | 7.757 | 7.707 | 7.807 | 149 | | |
| COLUMN 1 | 4 | 7.982 | 7.932 | 8.032 | 160 | | |
| | 5 | 8.298 | 8.248 | 8.348 | 153 | 163 | |
| | 1 | 6.2 | 6.15 | 6.25 | 164 | | |
| | 2 | 6.388 | 6.338 | 6.438 | 163 | | |
| | 3 | 6.541 | 6.491 | 6.591 | 165 | | |
| | 4 | 7.012 | 6.962 | 7.062 | 142 | | |
| COLUMN 2 | 5 | 7.253 | 7.203 | 7.303 | 143 | 155 | 5.03 |

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# IDENTIFICATION SUMMARY
## FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

DUP-01MS

Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Lab Sample ID: P4860-01MS 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 PO108076.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 5.526 | 5.476 | 5.576 | 171 | | |
| | 2 | 5.549 | 5.499 | 5.599 | 173 | | |
| | 3 | 5.611 | 5.561 | 5.661 | 164 | | |
| COLUMN 1 | 4 | 5.709 | 5.659 | 5.759 | 181 | | |
| | 5 | 6.005 | 5.955 | 6.055 | 166 | 171 | |
| | 1 | 4.718 | 4.668 | 4.768 | 171 | | |
| | 2 | 4.737 | 4.687 | 4.787 | 178 | | |
| | 3 | 4.913 | 4.863 | 4.963 | 174 | | |
| | 4 | 4.955 | 4.905 | 5.005 | 171 | | |
| COLUMN 2 | 5 | 5.168 | 5.118 | 5.218 | 169 | 173 | 1.16 |
| Aroclor-1260 | 1 | 7.138 | 7.088 | 7.188 | 177 | | |
| | 2 | 7.396 | 7.346 | 7.446 | 184 | | |
| | 3 | 7.759 | 7.709 | 7.809 | 155 | | |
| COLUMN 1 | 4 | 7.985 | 7.935 | 8.035 | 174 | | |
| | 5 | 8.3 | 8.25 | 8.35 | 171 | 172 | |
| | 1 | 6.2 | 6.15 | 6.25 | 174 | | |
| | 2 | 6.387 | 6.337 | 6.437 | 171 | | |
| | 3 | 6.54 | 6.49 | 6.59 | 173 | | |
| | 4 | 7.012 | 6.962 | 7.062 | 156 | | |
| COLUMN 2 | 5 | 7.253 | 7.203 | 7.303 | 154 | 166 | 3.55 |

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Fax : 908 789 8922



IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

DUP-01MSD

Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Lab Sample ID: P4860-01MSD 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 PO108077.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 5.524 | 5.474 | 5.574 | 172 | | |
| | 2 | 5.547 | 5.497 | 5.597 | 172 | | |
| | 3 | 5.609 | 5.559 | 5.659 | 164 | | |
| COLUMN 1 | 4 | 5.707 | 5.657 | 5.757 | 179 | | |
| | 5 | 6.004 | 5.954 | 6.054 | 165 | 170 | |
| | 1 | 4.719 | 4.669 | 4.769 | 172 | | |
| | 2 | 4.738 | 4.688 | 4.788 | 178 | | |
| | 3 | 4.913 | 4.863 | 4.963 | 178 | | |
| | 4 | 4.955 | 4.905 | 5.005 | 174 | | |
| COLUMN 2 | 5 | 5.168 | 5.118 | 5.218 | 170 | 174 | 2.33 |
| Aroclor-1260 | 1 | 7.136 | 7.086 | 7.186 | 174 | | |
| | 2 | 7.394 | 7.344 | 7.444 | 188 | | |
| | 3 | 7.756 | 7.706 | 7.806 | 154 | | |
| COLUMN 1 | 4 | 7.982 | 7.932 | 8.032 | 174 | | |
| | 5 | 8.297 | 8.247 | 8.347 | 169 | 172 | |
| | 1 | 6.199 | 6.149 | 6.249 | 173 | | |
| | 2 | 6.387 | 6.337 | 6.437 | 171 | | |
| | 3 | 6.54 | 6.49 | 6.59 | 173 | | |
| | 4 | 7.011 | 6.961 | 7.061 | 155 | | |
| COLUMN 2 | 5 | 7.252 | 7.202 | 7.302 | 153 | 165 | 4.15 |

# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108075.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 01:37
Operator : YP/AJ
Sample : P4860-01
Misc :
ALS Vial : 38 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
DUP-01

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 03:47:34 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 | 188.9E6 | 71608940 | 21.695m | 21.121 |
| 2) | SA Decachlor... | 10.092 | 8.633 | 71633774 | 72011313 | 23.454 | 21.169 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

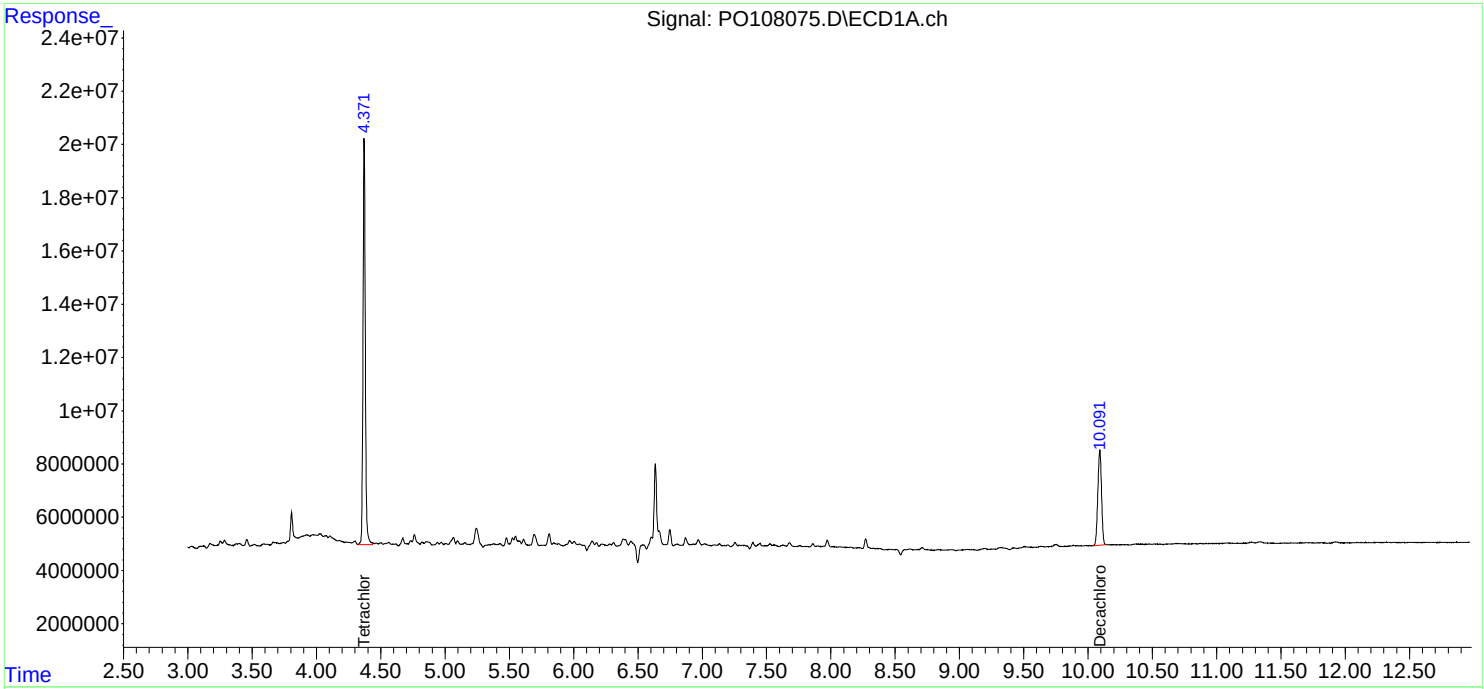
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108075.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 01:37
Operator : YP/AJ
Sample : P4860-01
Misc :
ALS Vial : 38 Sample Multiplier: 1

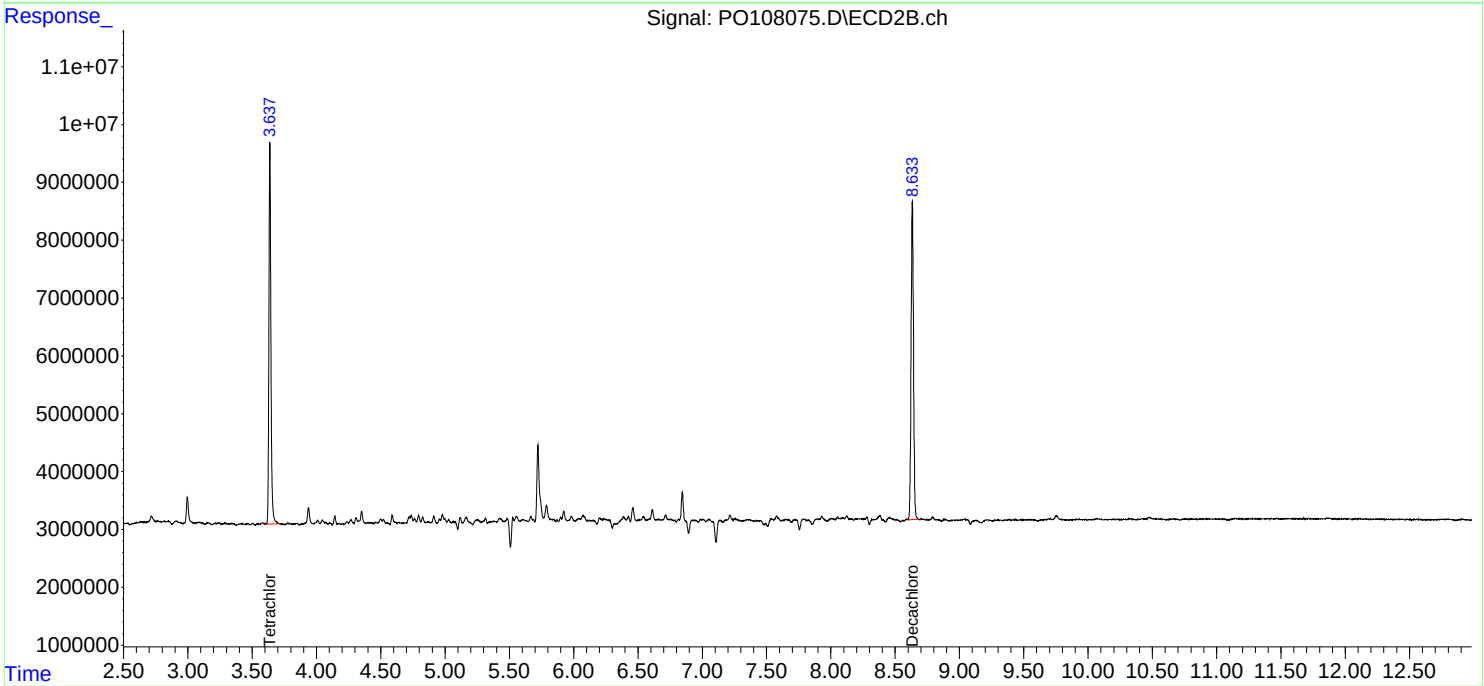
**Instrument :**
ECD_O
**ClientSampleId :**
DUP-01

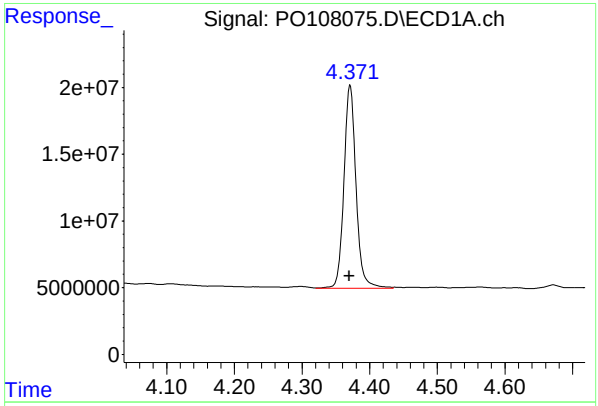
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 03:47:34 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





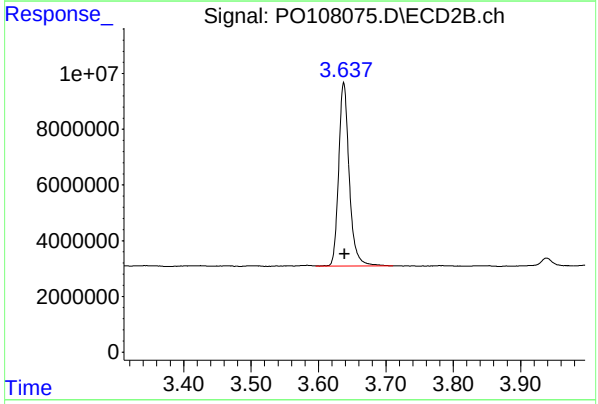

#1 Tetrachloro-m-xylene

R.T.: 4.371 min
Delta R.T.: 0.000 min
Response: 188877747
Conc: 21.69 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
DUP-01

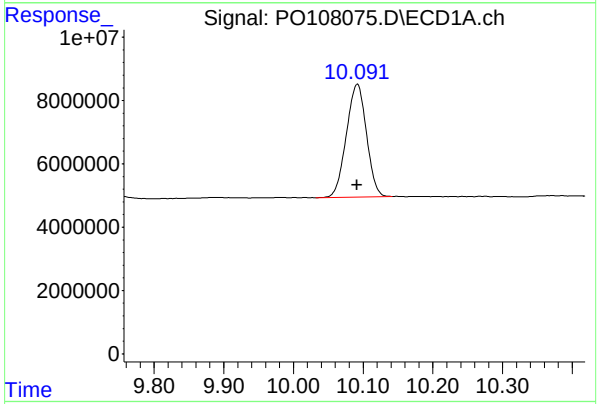
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



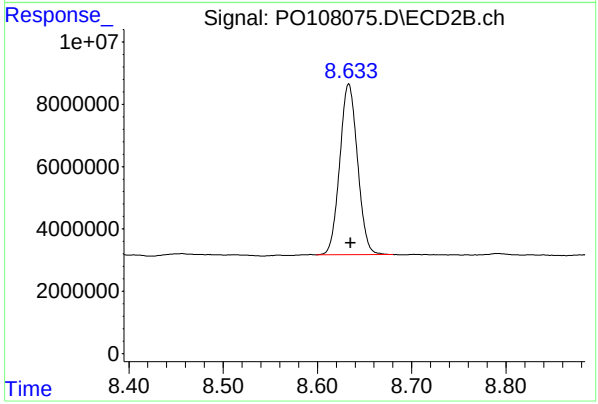

#1 Tetrachloro-m-xylene

R.T.: 3.638 min
Delta R.T.: -0.001 min
Response: 71608940
Conc: 21.12 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.092 min
Delta R.T.: 0.000 min
Response: 71633774
Conc: 23.45 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.633 min
Delta R.T.: -0.002 min
Response: 72011313
Conc: 21.17 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108078.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 02:26
Operator : YP/AJ
Sample : P4860-02
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-001

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 03:48:23 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 | 3.637 | 190.9E6 | 73514803 | 21.930m | 21.683 |
| 2) | SA Decachlor... | 10.089 | 8.633 | 74890791 | 74570615 | 24.521 | 21.921 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

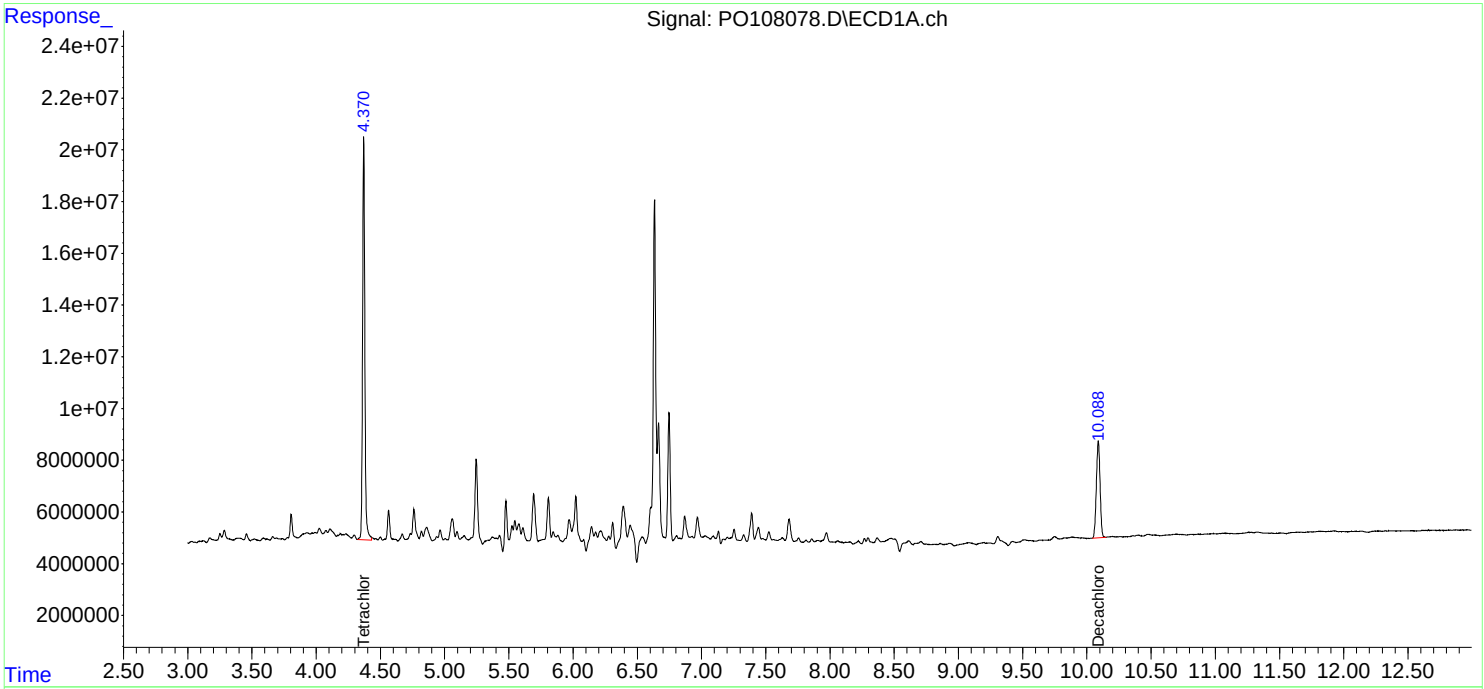
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108078.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 02:26
Operator : YP/AJ
Sample : P4860-02
Misc :
ALS Vial : 41 Sample Multiplier: 1

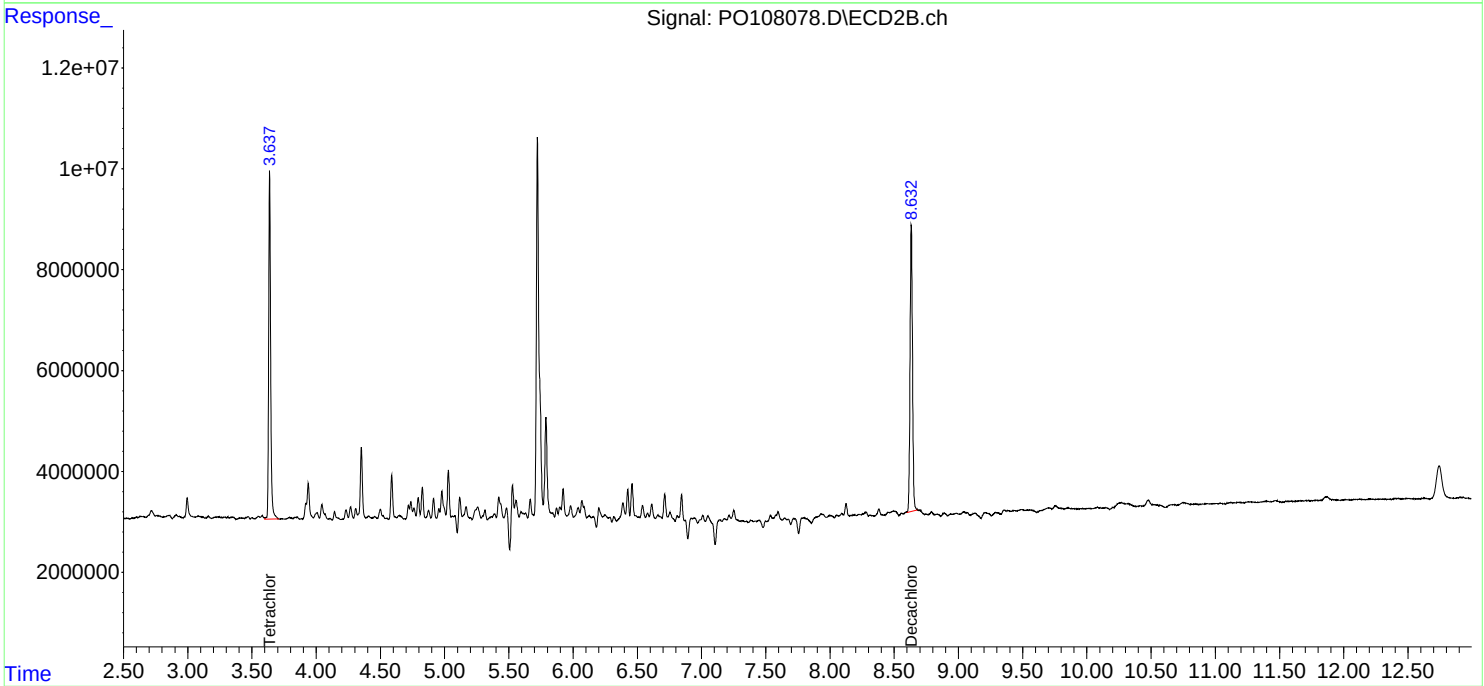
**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-001

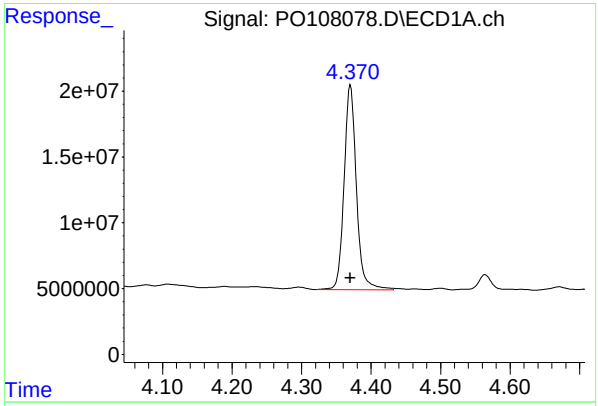
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 03:48:23 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





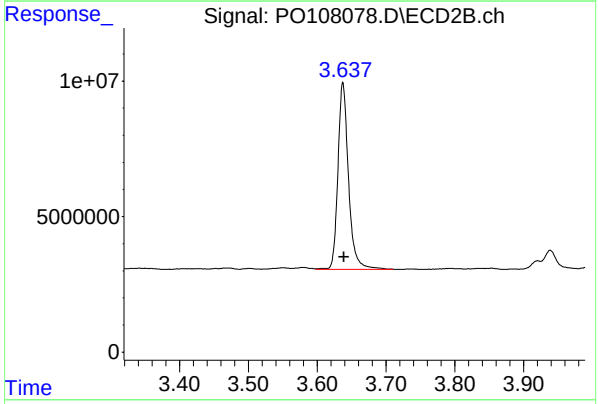

#1 Tetrachloro-m-xylene

R.T.: 4.370 min
Delta R.T.: 0.000 min
Response: 190928720
Conc: 21.93 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-001

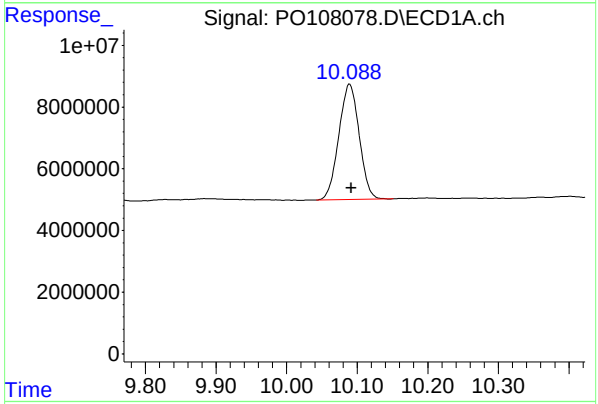
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



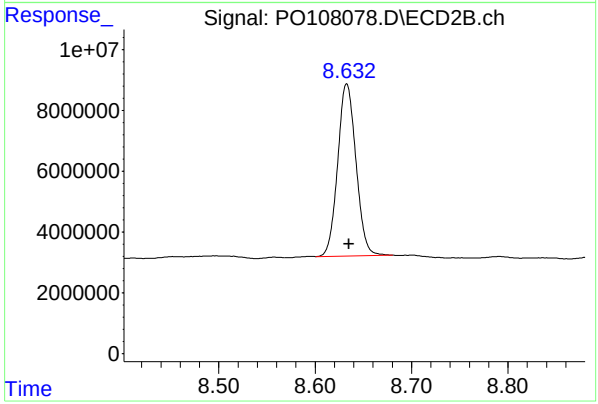

#1 Tetrachloro-m-xylene

R.T.: 3.637 min
Delta R.T.: -0.001 min
Response: 73514803
Conc: 21.68 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.089 min
Delta R.T.: -0.002 min
Response: 74890791
Conc: 24.52 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.633 min
Delta R.T.: -0.002 min
Response: 74570615
Conc: 21.92 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108079.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 02:42
Operator : YP/AJ
Sample : P4860-03
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-002

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 03:48:41 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 | 195.9E6 | 75641144 | 22.504m | 22.310 |
| 2) | SA Decachlor... | 10.089 | 8.634 | 73047667 | 72617205 | 23.917 | 21.347 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

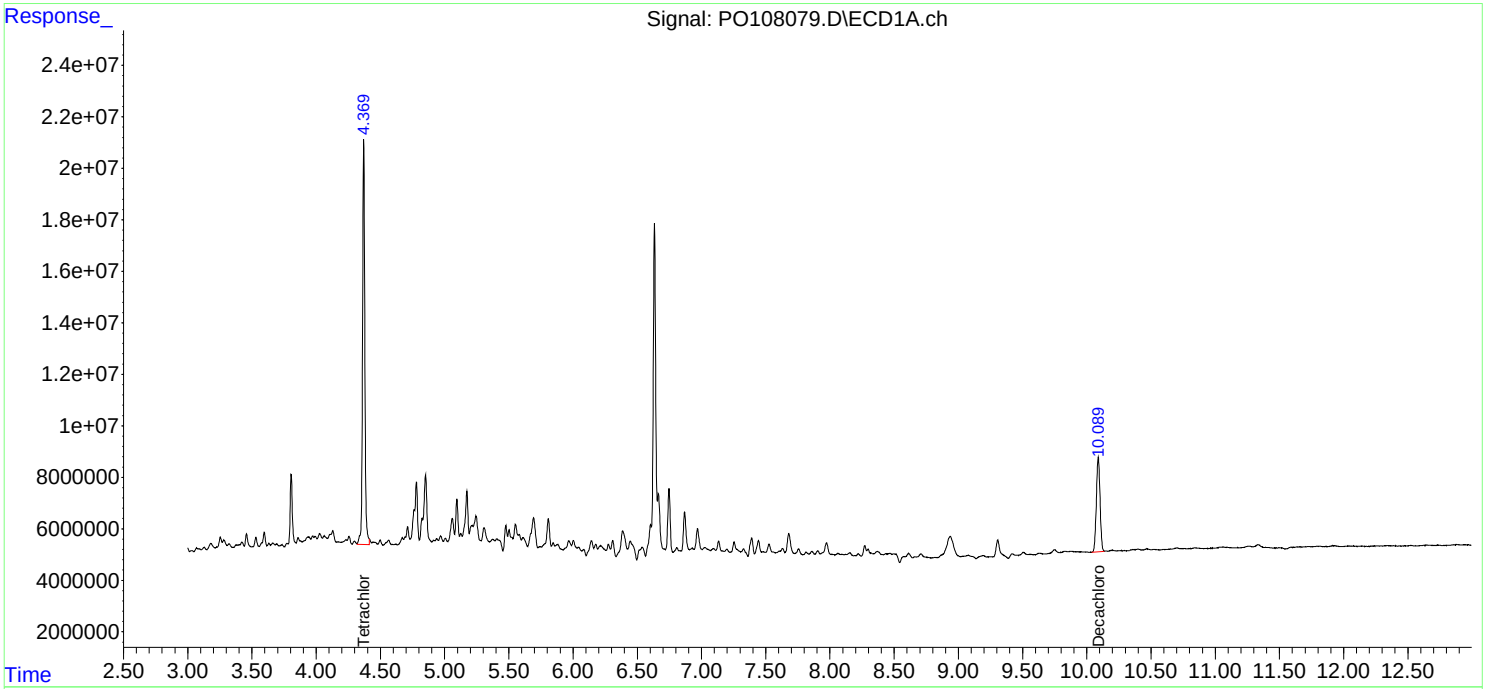
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108079.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 02:42
Operator : YP/AJ
Sample : P4860-03
Misc :
ALS Vial : 42 Sample Multiplier: 1

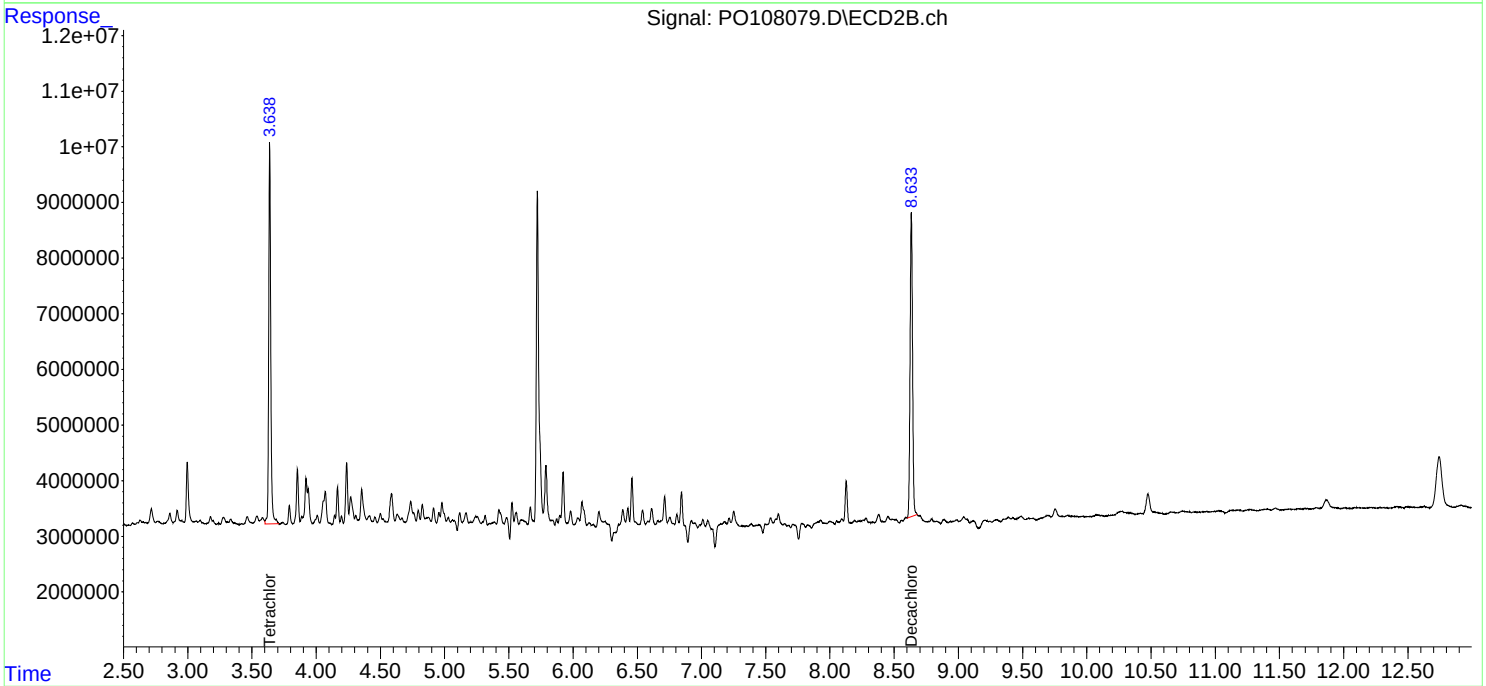
**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-002

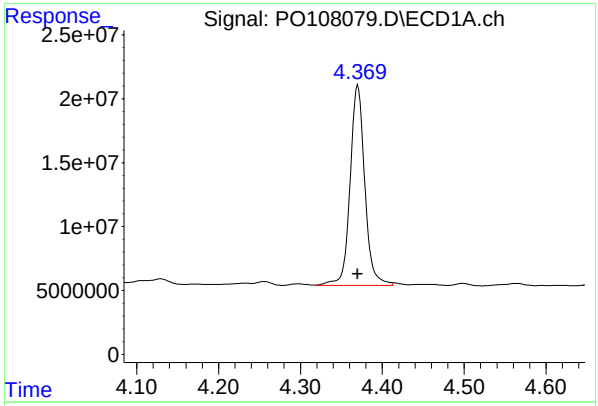
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 03:48:41 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





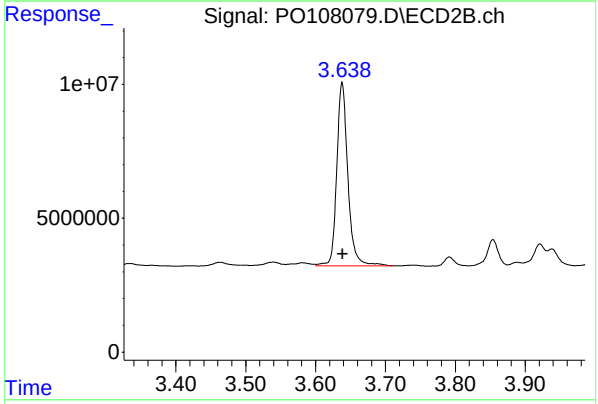

#1 Tetrachloro-m-xylene

R.T.: 4.369 min
Delta R.T.: 0.000 min
Response: 195924166
Conc: 22.50 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-002

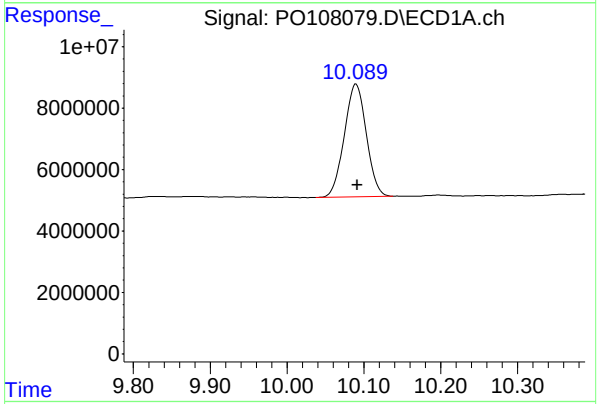
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



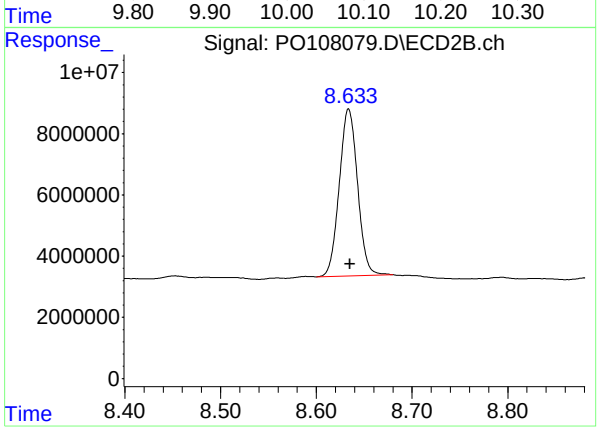

#1 Tetrachloro-m-xylene

R.T.: 3.638 min
Delta R.T.: 0.000 min
Response: 75641144
Conc: 22.31 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.089 min
Delta R.T.: -0.002 min
Response: 73047667
Conc: 23.92 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.634 min
Delta R.T.: -0.002 min
Response: 72617205
Conc: 21.35 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108080.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 02:59
Operator : YP/AJ
Sample : P4860-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-003

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 03:48:58 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... | 4.371 | 3.638 | 200.2E6 | 77878739 | 22.994 | 22.970 |
| 2) | SA Decachlor... | 10.093 | 8.634 | 77729947 | 78182732 | 25.450 | 22.983 |
| | Target Compounds | | | | | | |

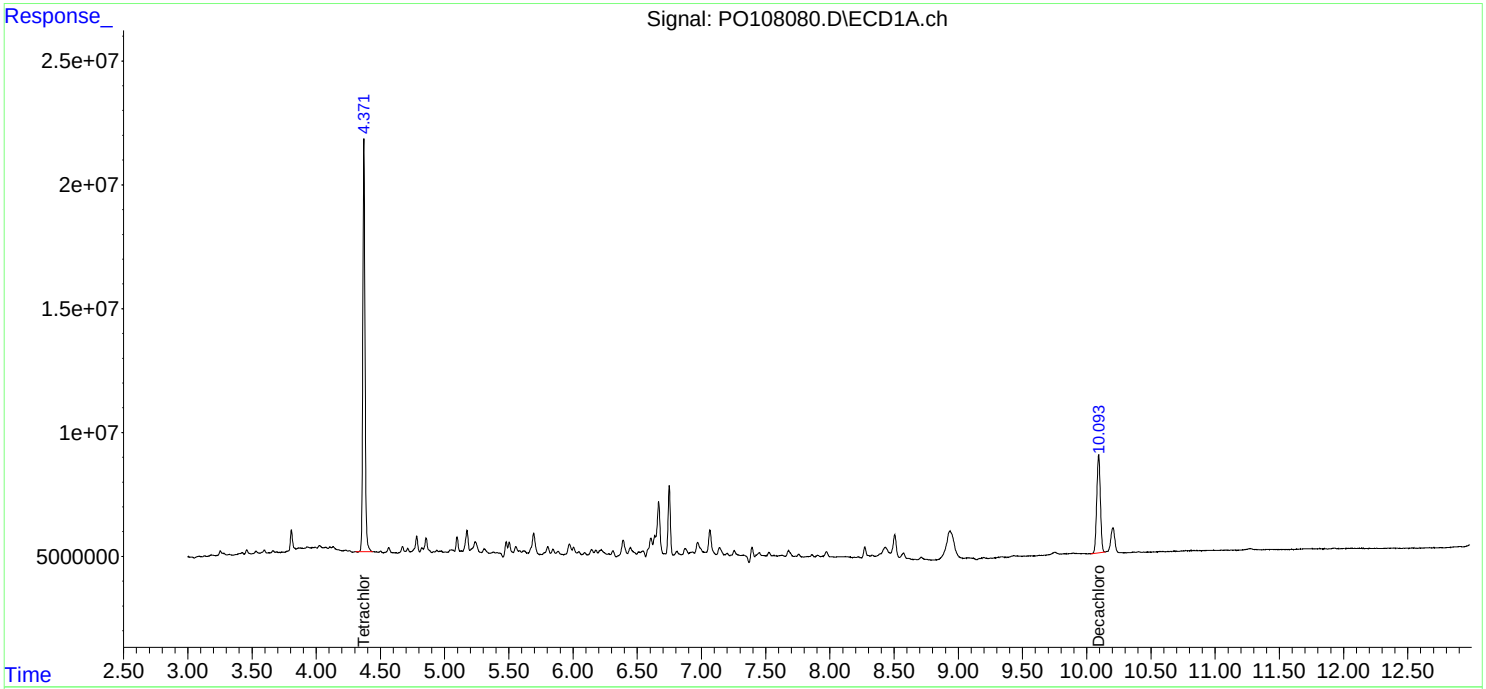
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

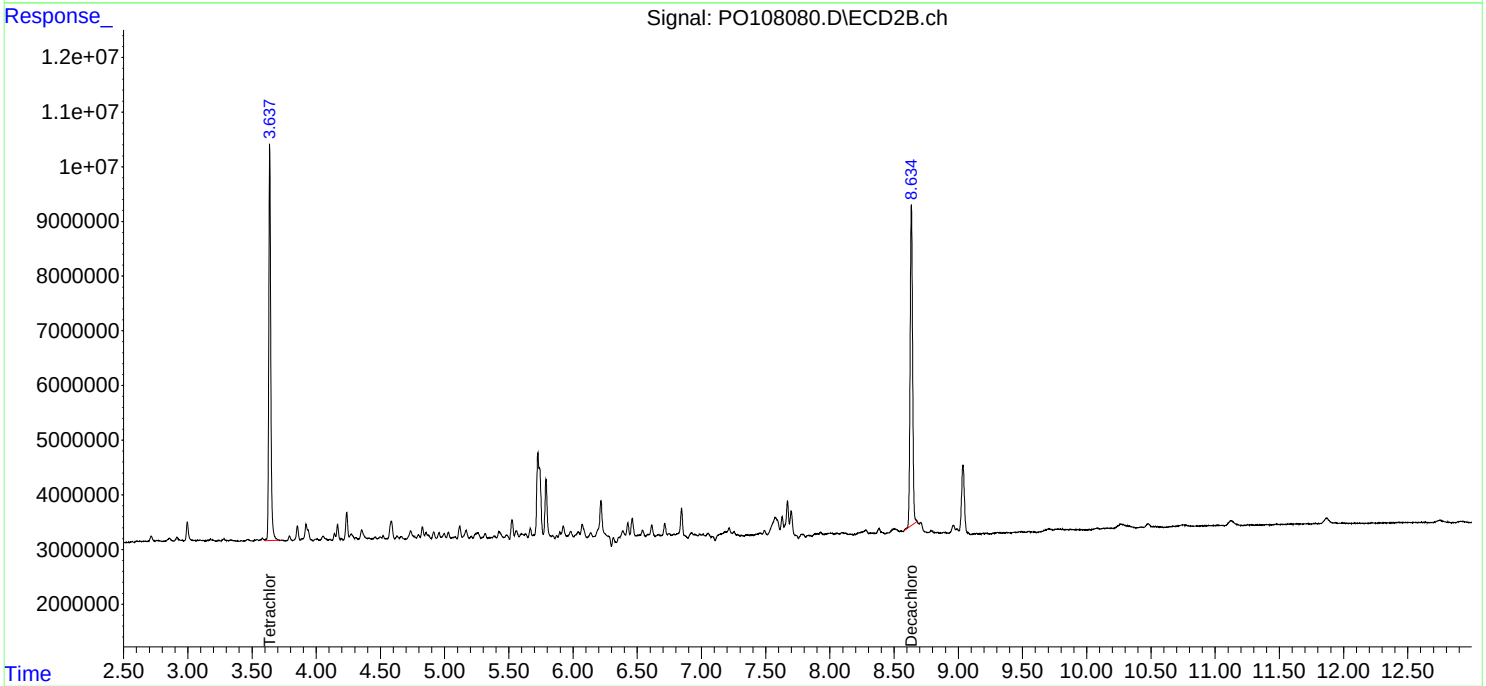
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108080.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 02:59
Operator : YP/AJ
Sample : P4860-04
Misc :
ALS Vial : 43 Sample Multiplier: 1

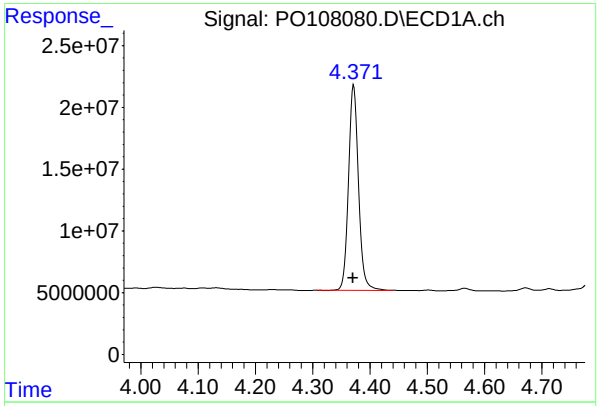
**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-003

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 03:48:58 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



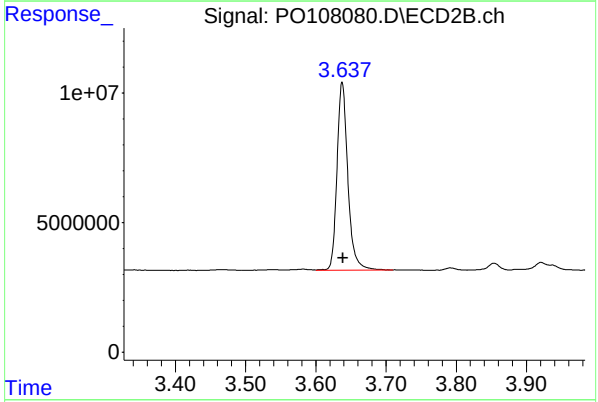






#1 Tetrachloro-m-xylene

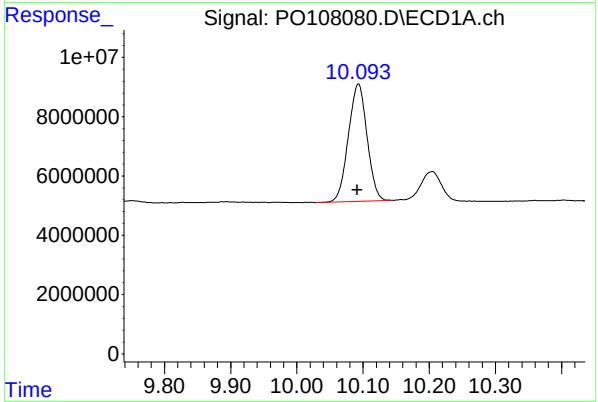
R.T.: 4.371 min
Delta R.T.: 0.001 min
Response: 200189258
Conc: 22.99 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-003



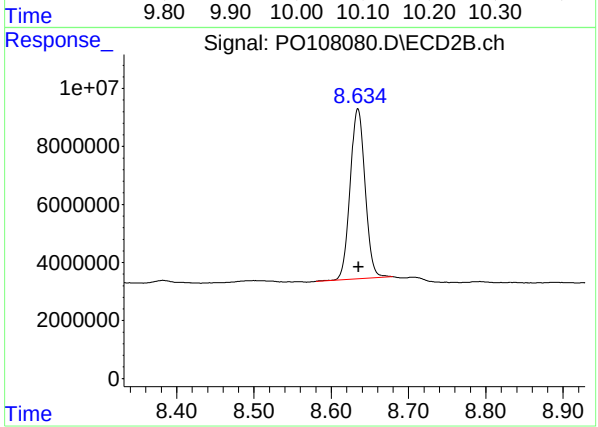

#1 Tetrachloro-m-xylene

R.T.: 3.638 min
Delta R.T.: -0.001 min
Response: 77878739
Conc: 22.97 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.093 min
Delta R.T.: 0.002 min
Response: 77729947
Conc: 25.45 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.634 min
Delta R.T.: 0.000 min
Response: 78182732
Conc: 22.98 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108081.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 03:16
Operator : YP/AJ
Sample : P4860-05
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-004

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 05:18:55 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 | 3.638 | 194.2E6 | 74572368 | 22.304 | 21.995 |
| 2) | SA Decachlor... | 10.092 | 8.634 | 75368056 | 75879531 | 24.677 | 22.306 |
| | Target Compounds | | | | | | |

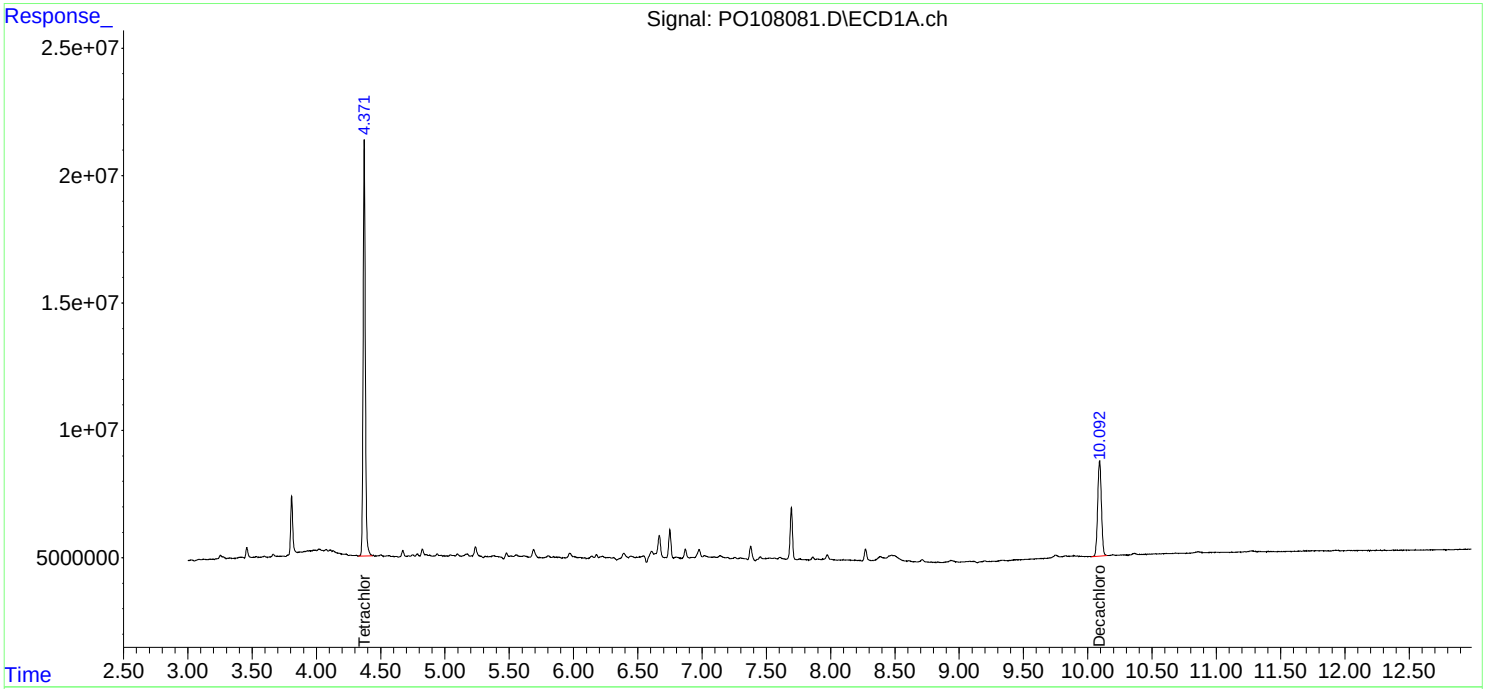
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

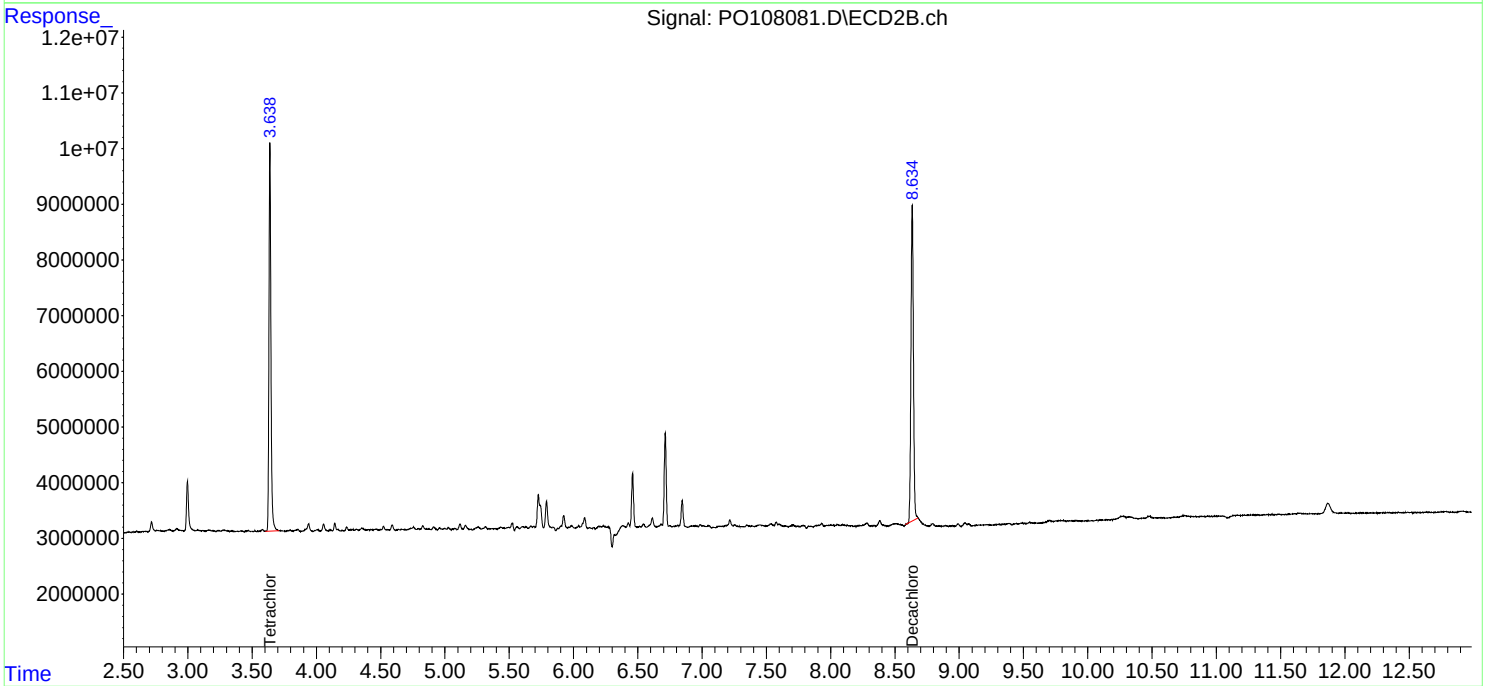
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108081.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 03:16
Operator : YP/AJ
Sample : P4860-05
Misc :
ALS Vial : 44 Sample Multiplier: 1

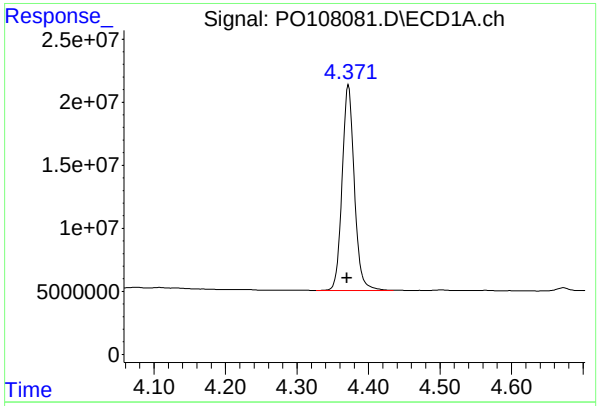
**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-004

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 05:18:55 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



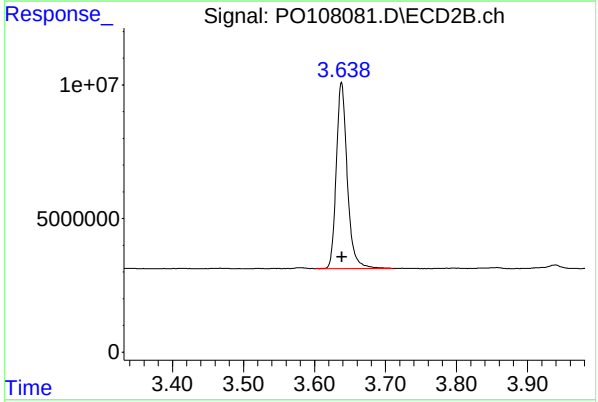






#1 Tetrachloro-m-xylene

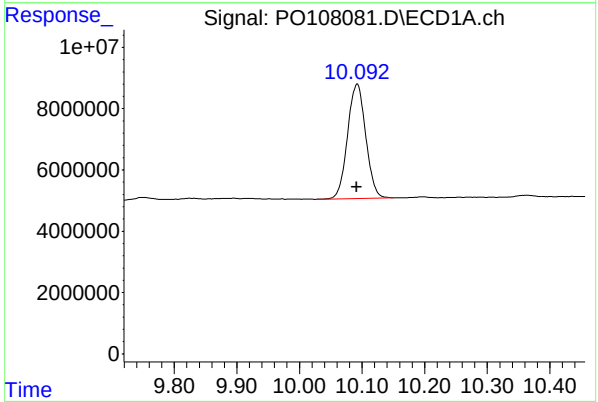
R.T.: 4.372 min
Delta R.T.: 0.002 min
Response: 194177812
Conc: 22.30 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-004



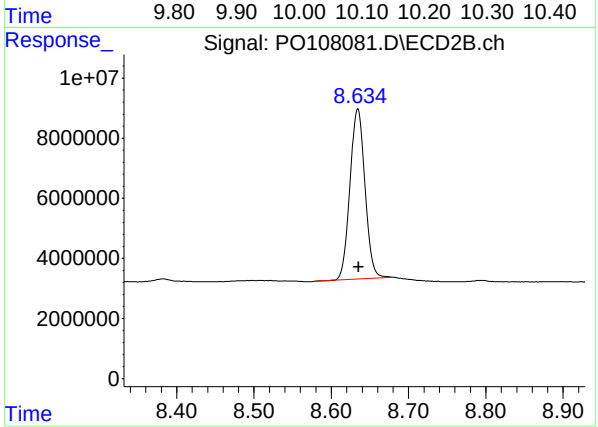

#1 Tetrachloro-m-xylene

R.T.: 3.638 min
Delta R.T.: 0.000 min
Response: 74572368
Conc: 22.00 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.092 min
Delta R.T.: 0.001 min
Response: 75368056
Conc: 24.68 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.634 min
Delta R.T.: -0.001 min
Response: 75879531
Conc: 22.31 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108082.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 03:33
Operator : YP/AJ
Sample : P4860-06
Misc :
ALS Vial : 45 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-009

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 05:19:14 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 | 201.3E6 | 77672465 | 23.117 | 22.909 |
| 2) | SA Decachlor... | 10.091 | 8.633 | 77960914 | 79254017 | 25.526 | 23.298 |
| | Target Compounds | | | | | | |

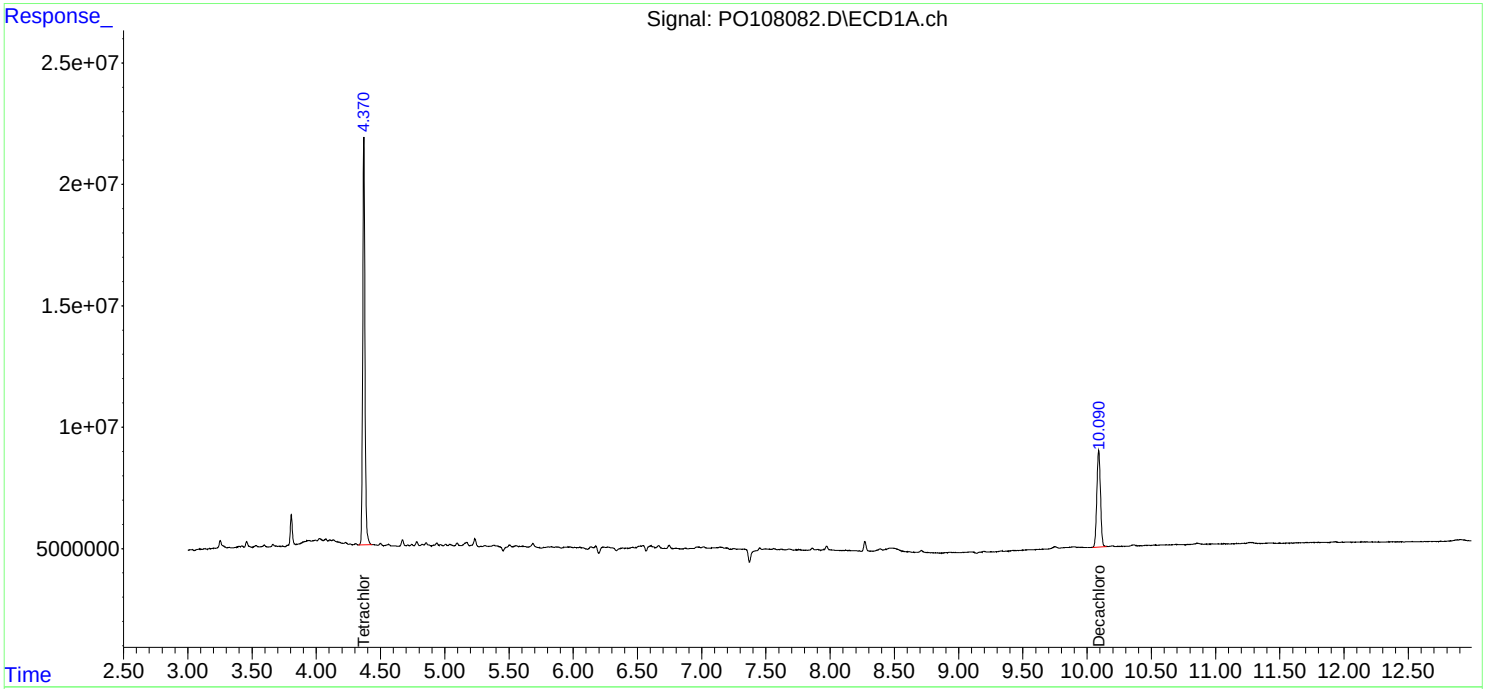
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

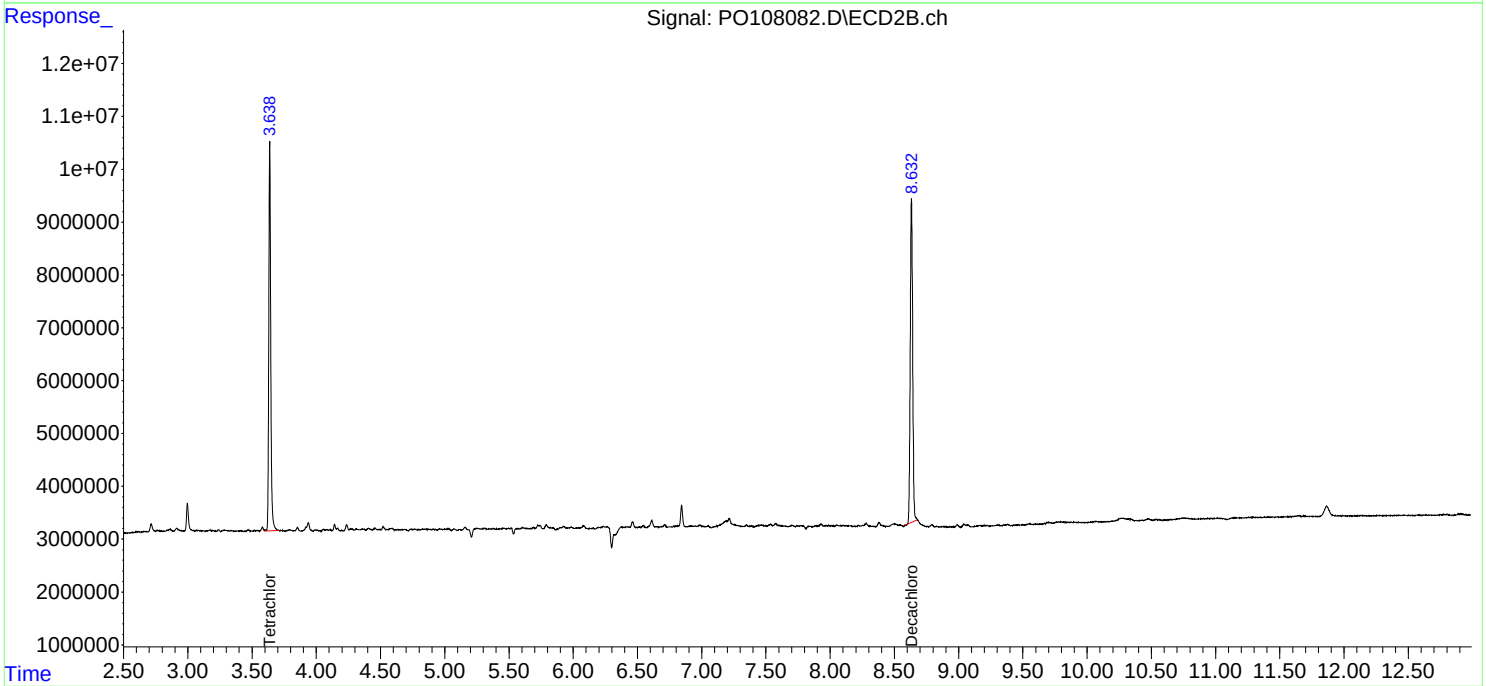
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108082.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 03:33
Operator : YP/AJ
Sample : P4860-06
Misc :
ALS Vial : 45 Sample Multiplier: 1

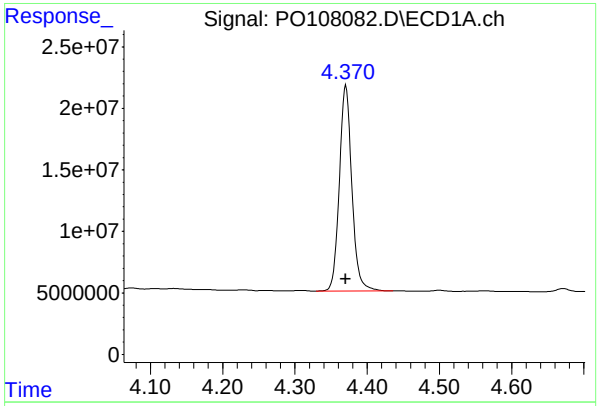
**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-009

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 05:19:14 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



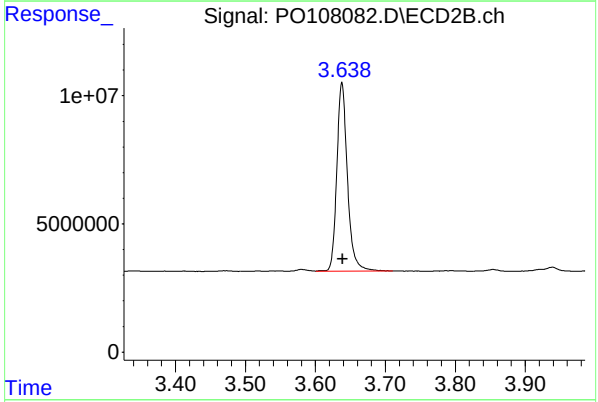






#1 Tetrachloro-m-xylene

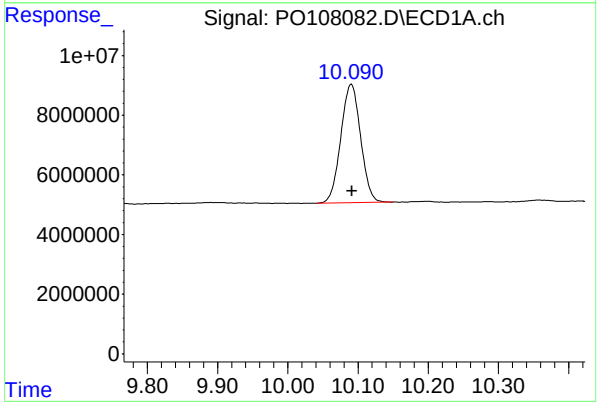
R.T.: 4.371 min
Delta R.T.: 0.000 min
Response: 201262220
Conc: 23.12 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-009



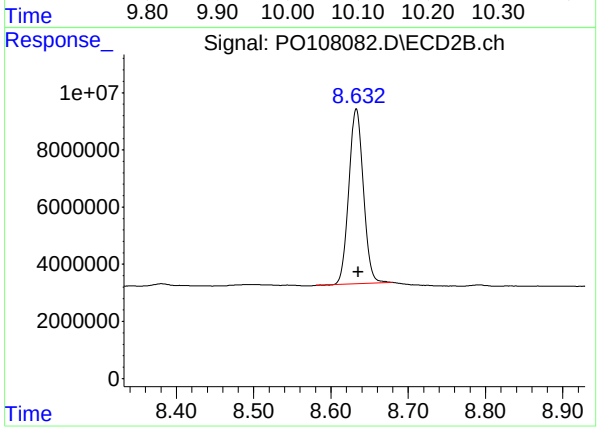

#1 Tetrachloro-m-xylene

R.T.: 3.638 min
Delta R.T.: 0.000 min
Response: 77672465
Conc: 22.91 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.091 min
Delta R.T.: 0.000 min
Response: 77960914
Conc: 25.53 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.633 min
Delta R.T.: -0.003 min
Response: 79254017
Conc: 23.30 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108083.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 03:49
Operator : YP/AJ
Sample : P4860-07
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-008

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 05:19:32 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 | 188.7E6 | 73141564 | 21.674 | 21.573 |
| 2) | SA Decachlor... | 10.090 | 8.634 | 70591838 | 71647117 | 23.113 | 21.062 |
| | Target Compounds | | | | | | |

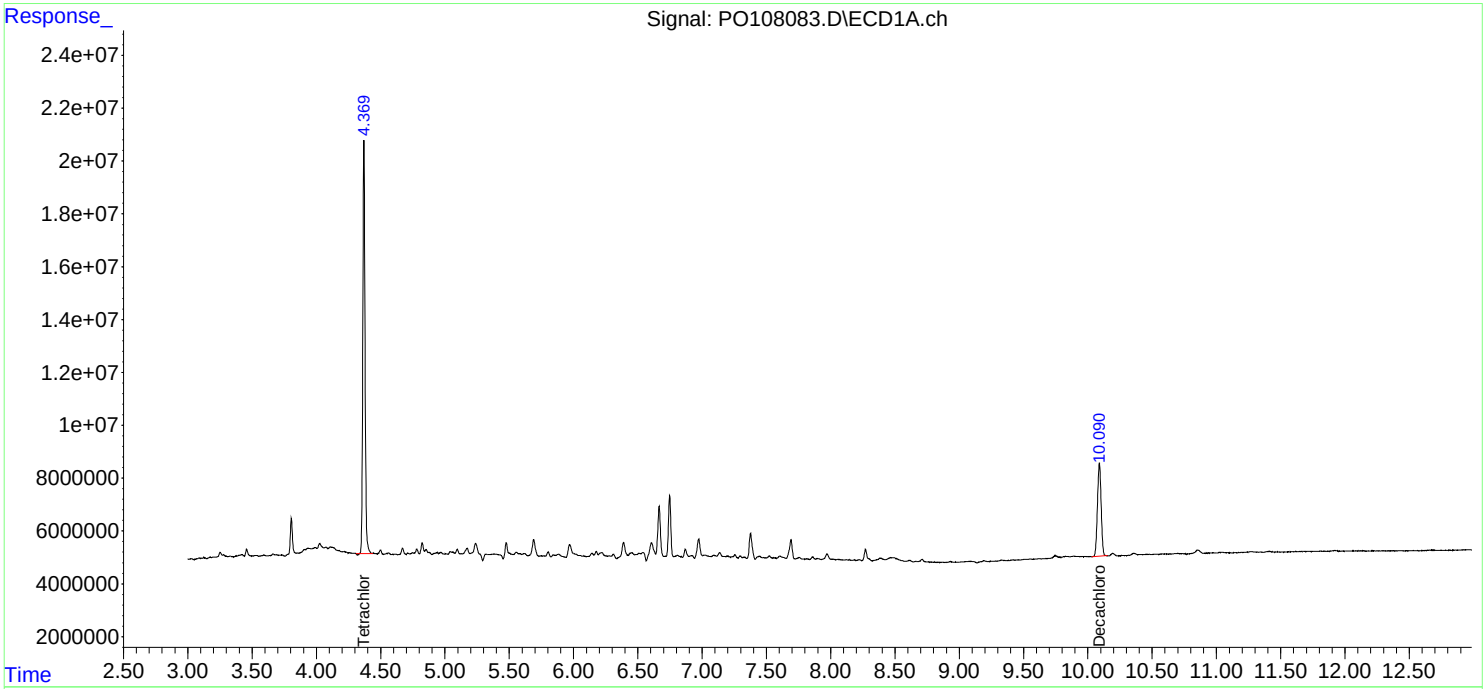
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

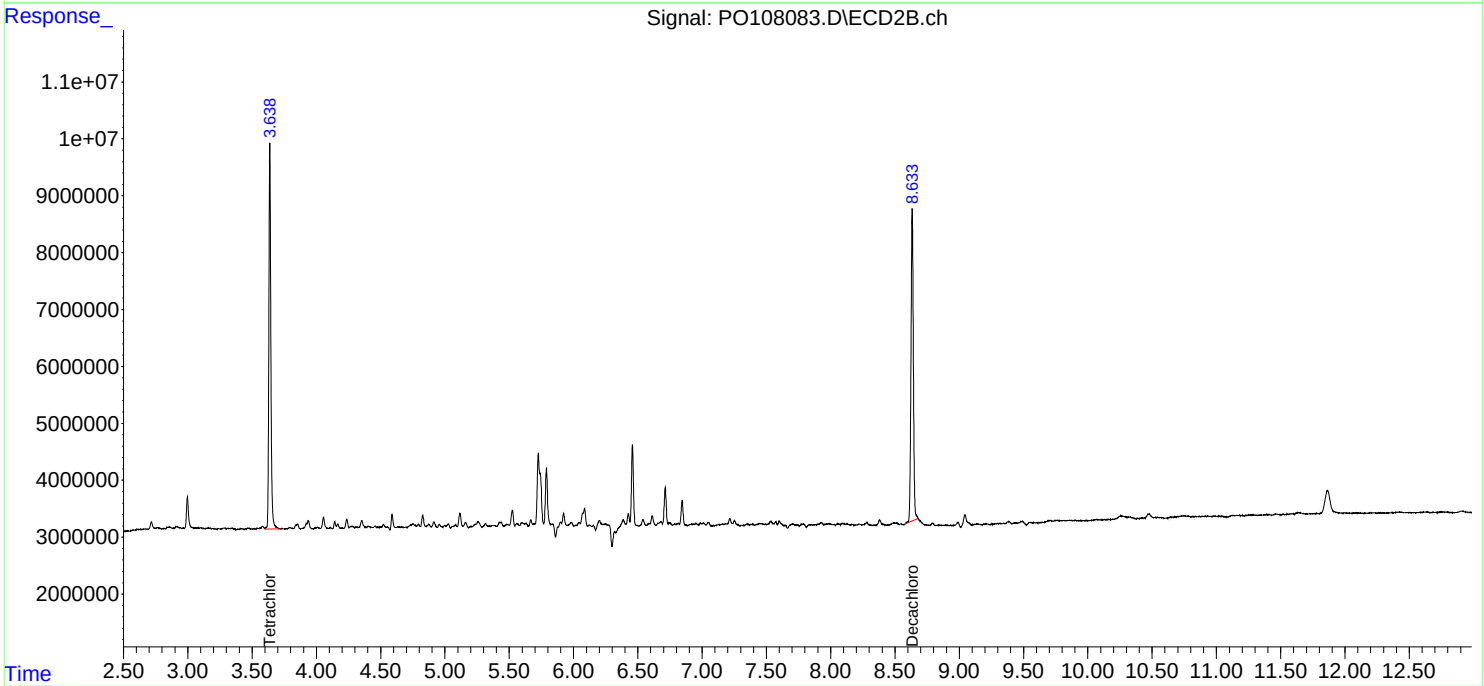
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108083.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 03:49
Operator : YP/AJ
Sample : P4860-07
Misc :
ALS Vial : 46 Sample Multiplier: 1

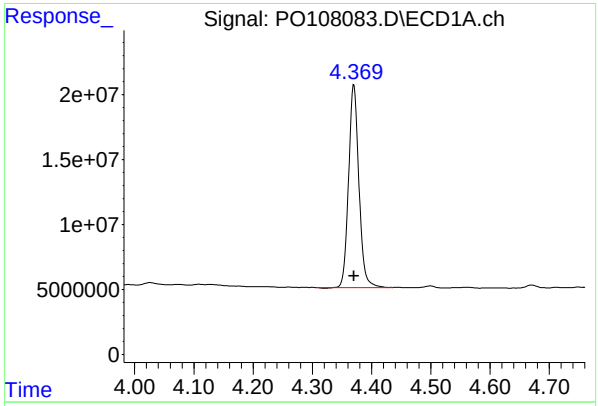
**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-008

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 05:19:32 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



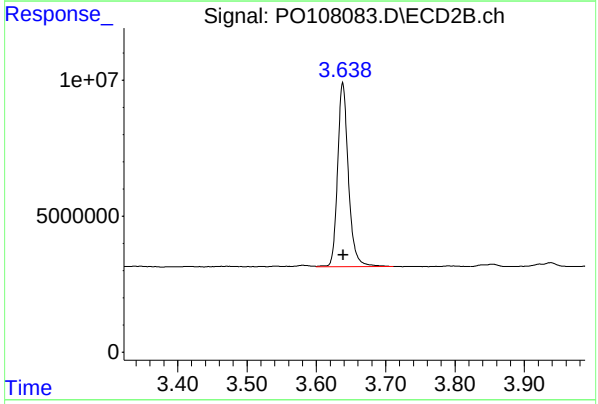






#1 Tetrachloro-m-xylene

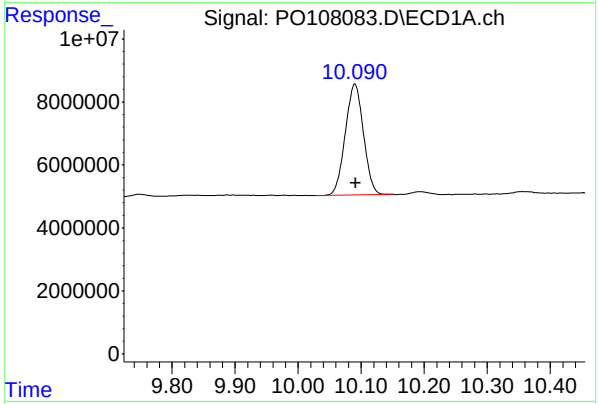
R.T.: 4.370 min
Delta R.T.: 0.000 min
Response: 188696055
Conc: 21.67 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-008



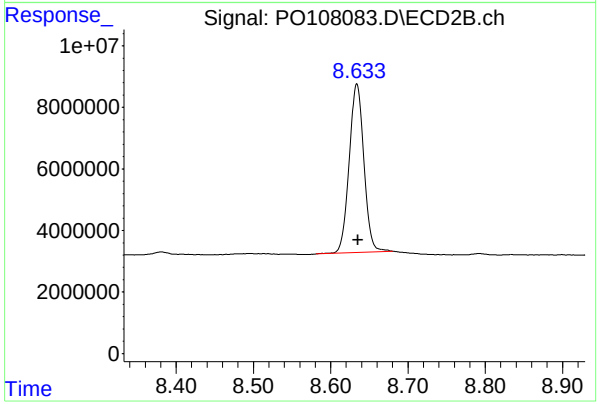

#1 Tetrachloro-m-xylene

R.T.: 3.638 min
Delta R.T.: 0.000 min
Response: 73141564
Conc: 21.57 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.090 min
Delta R.T.: -0.001 min
Response: 70591838
Conc: 23.11 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.634 min
Delta R.T.: -0.002 min
Response: 71647117
Conc: 21.06 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108084.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 04:06
Operator : YP/AJ
Sample : P4860-08
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-007

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 05:19:56 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 | 3.638 | 163.1E6 | 62378653 | 18.731 | 18.399 |
| 2) | SA Decachlor... | 10.092 | 8.634 | 68995917 | 68768072 | 22.591 | 20.216 |
| | Target Compounds | | | | | | |

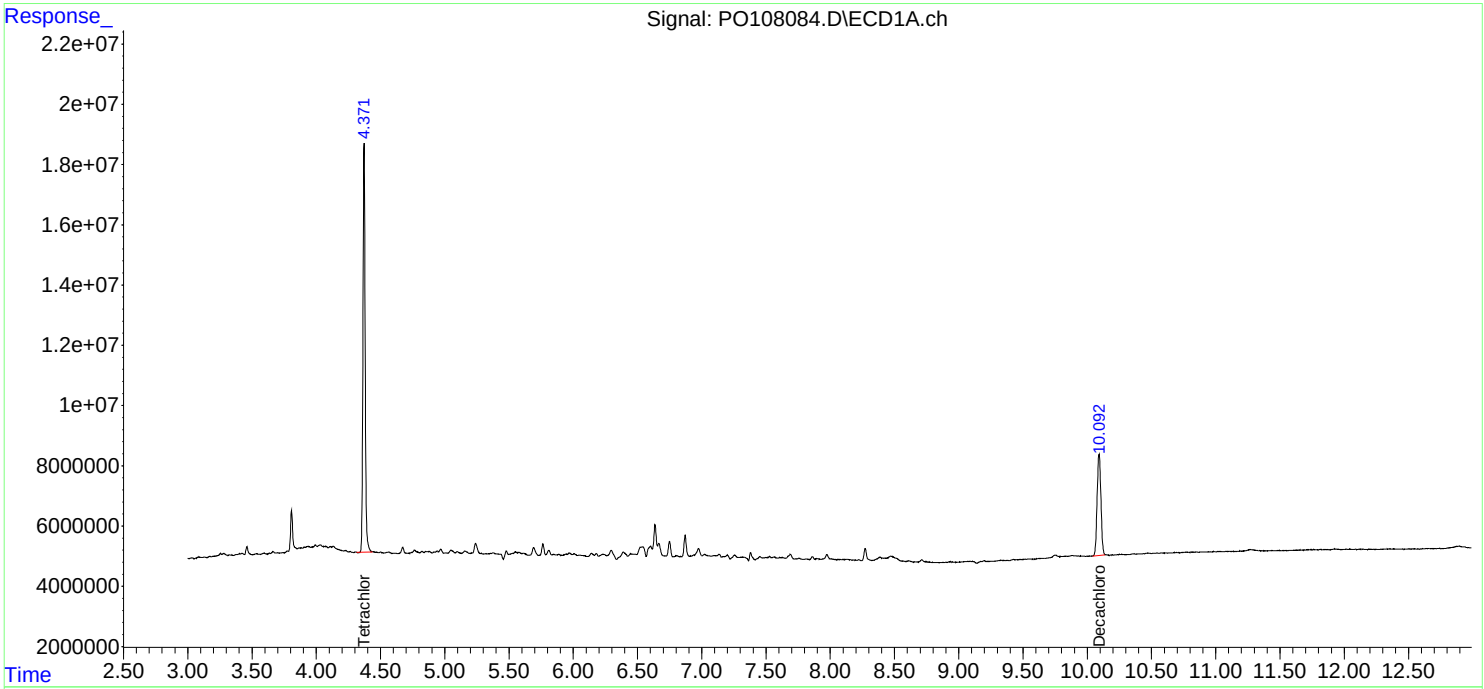
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

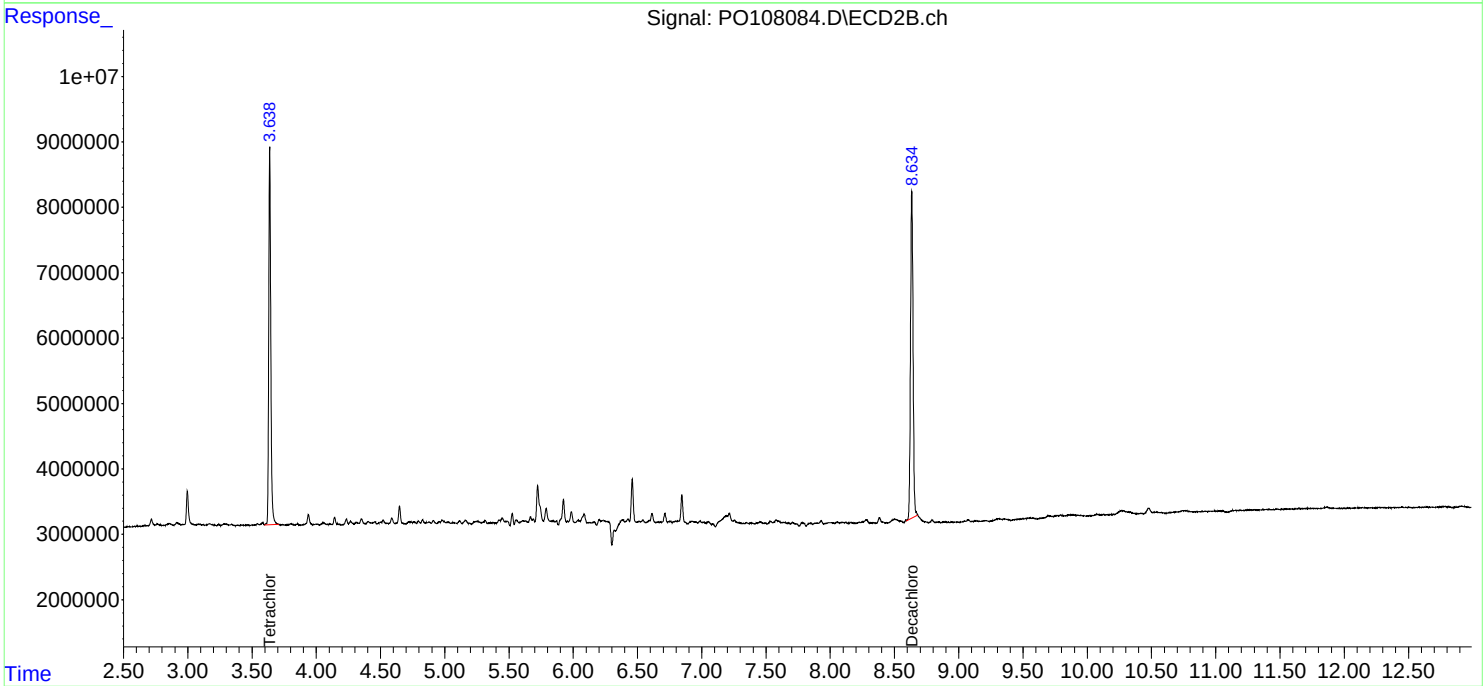
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108084.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 04:06
Operator : YP/AJ
Sample : P4860-08
Misc :
ALS Vial : 47 Sample Multiplier: 1

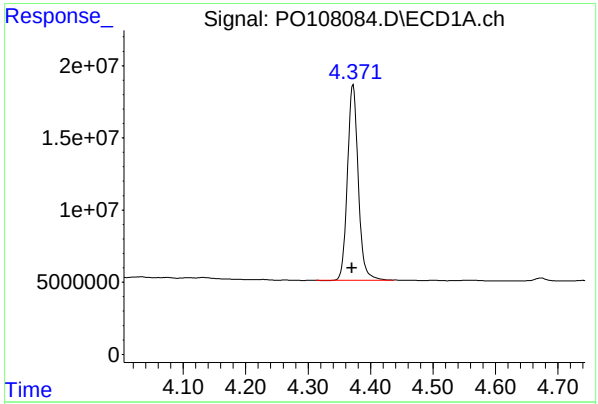
**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-007

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 05:19:56 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



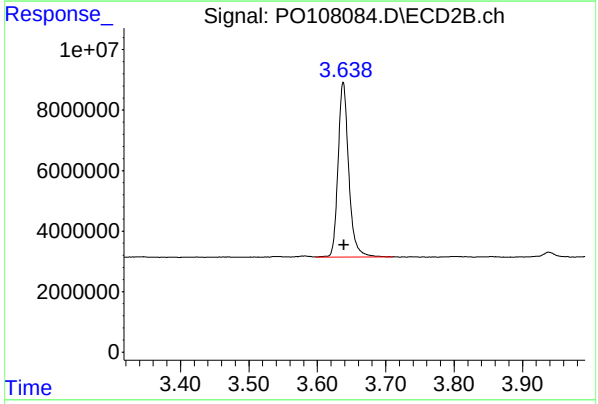






#1 Tetrachloro-m-xylene

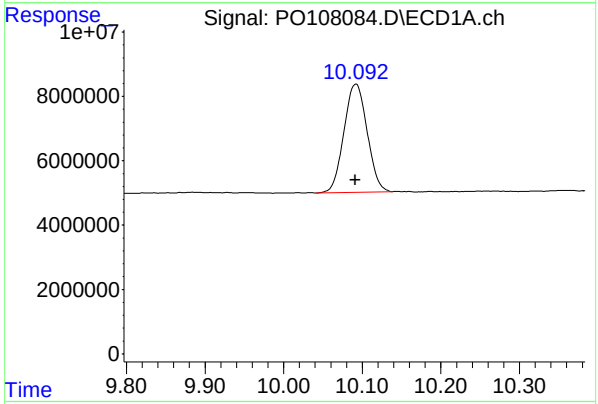
R.T.: 4.372 min
Delta R.T.: 0.002 min
Response: 163077038
Conc: 18.73 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-007



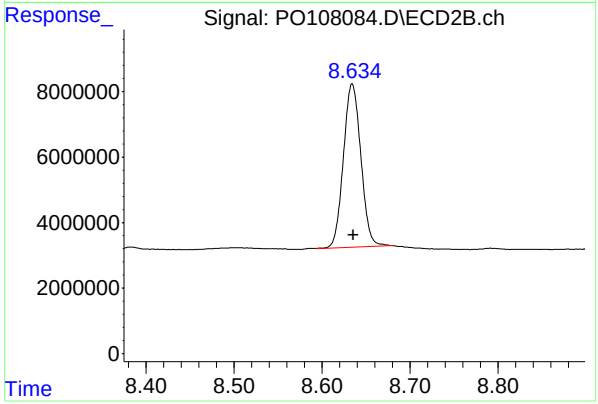

#1 Tetrachloro-m-xylene

R.T.: 3.638 min
Delta R.T.: 0.000 min
Response: 62378653
Conc: 18.40 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.092 min
Delta R.T.: 0.000 min
Response: 68995917
Conc: 22.59 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.634 min
Delta R.T.: -0.001 min
Response: 68768072
Conc: 20.22 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108085.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 04:23
Operator : YP/AJ
Sample : P4860-09
Misc :
ALS Vial : 48 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-006

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 05:20:14 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 | 3.638 | 187.3E6 | 71427120 | 21.510 | 21.067 |
| 2) | SA Decachlor... | 10.093 | 8.634 | 69371327 | 70696860 | 22.713 | 20.783 |
| | Target Compounds | | | | | | |

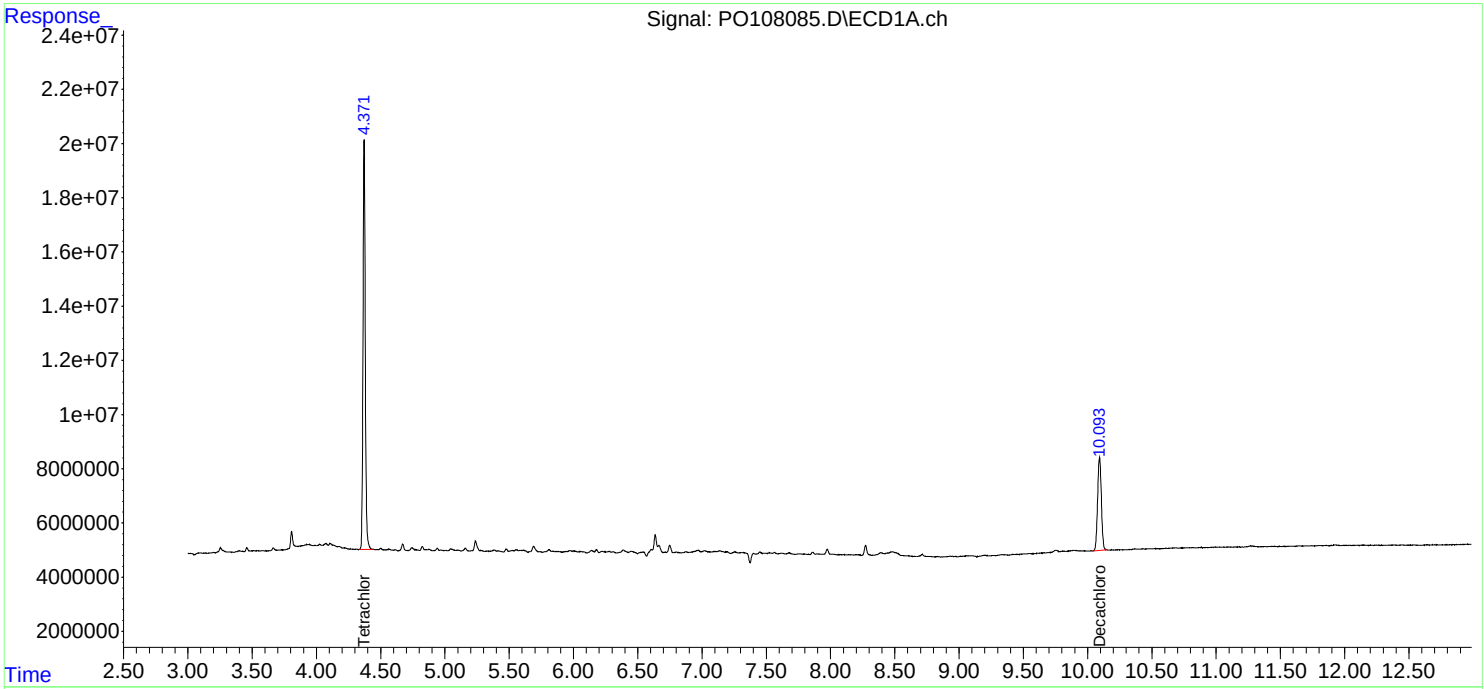
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

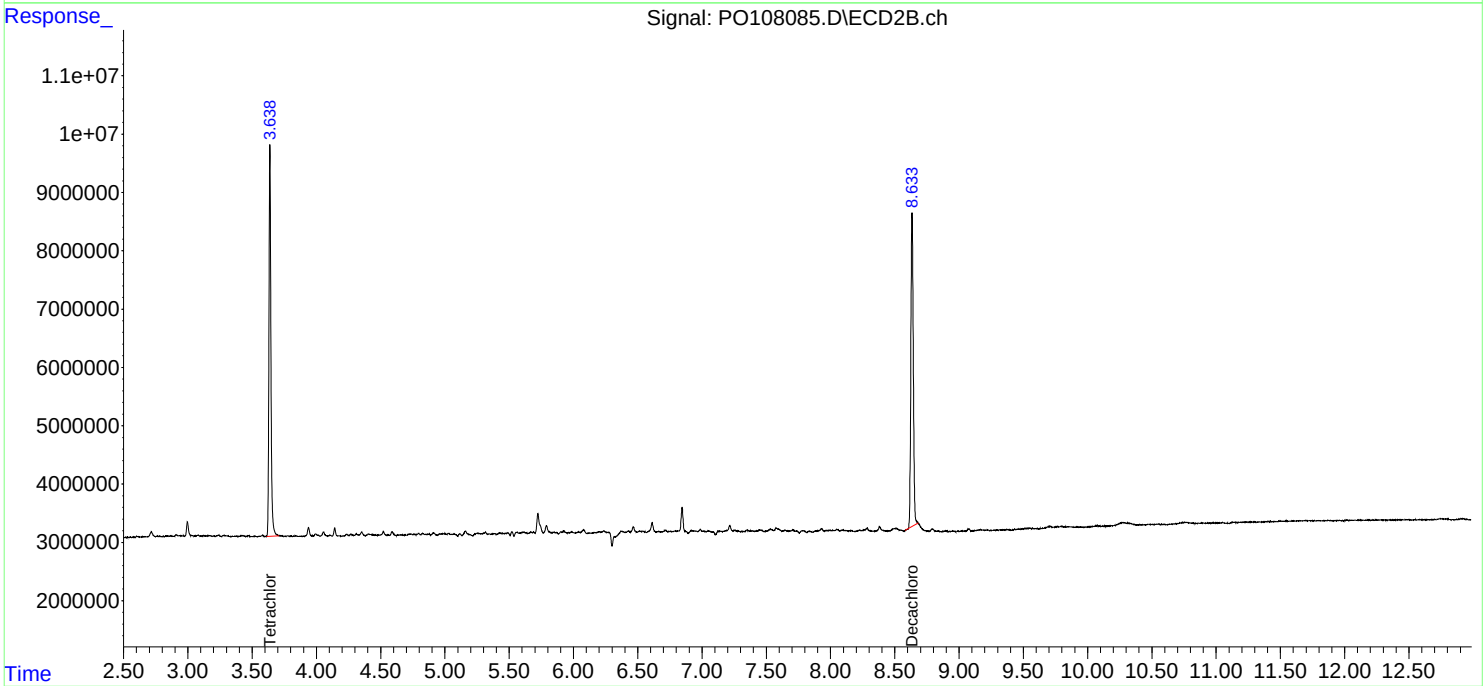
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108085.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 04:23
Operator : YP/AJ
Sample : P4860-09
Misc :
ALS Vial : 48 Sample Multiplier: 1

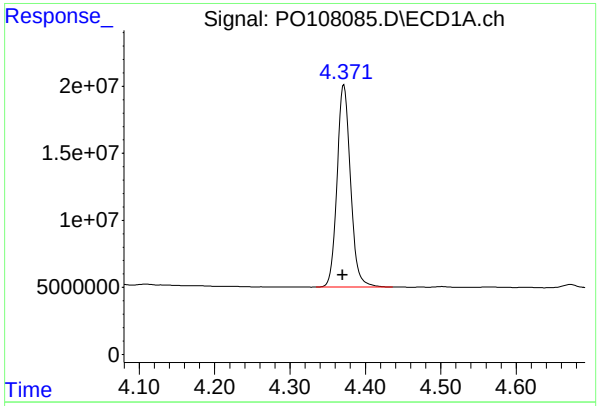
**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-006

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 05:20:14 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



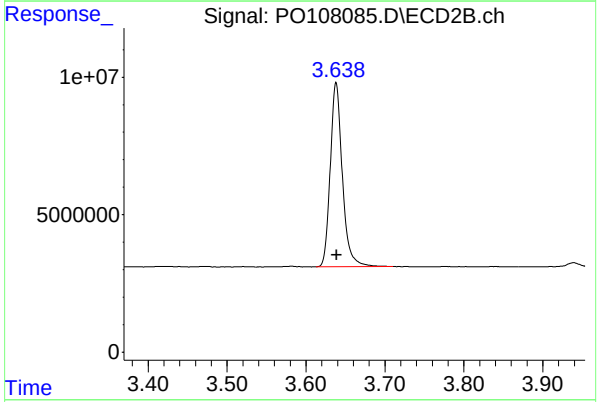






#1 Tetrachloro-m-xylene

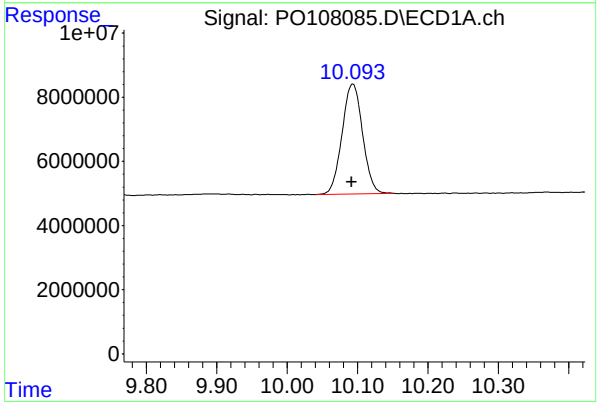
R.T.: 4.372 min
Delta R.T.: 0.002 min
Response: 187268970
Conc: 21.51 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-006



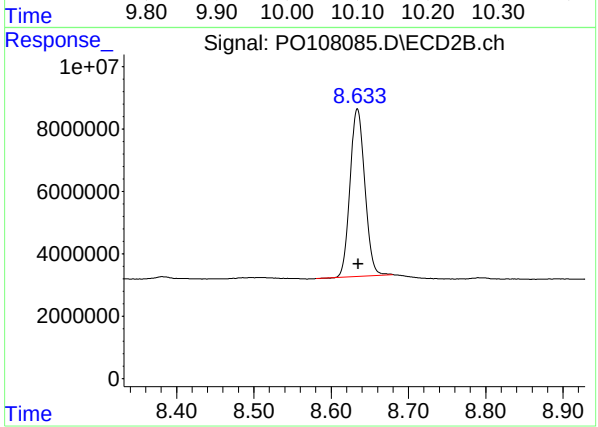

#1 Tetrachloro-m-xylene

R.T.: 3.638 min
Delta R.T.: 0.000 min
Response: 71427120
Conc: 21.07 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.093 min
Delta R.T.: 0.002 min
Response: 69371327
Conc: 22.71 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.634 min
Delta R.T.: -0.002 min
Response: 70696860
Conc: 20.78 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108086.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 04:39
Operator : YP/AJ
Sample : P4860-10
Misc :
ALS Vial : 49 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-005

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 05:20:38 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... | 4.370 | 3.638 | 190.8E6 | 74020986 | 21.914 | 21.832 |
| 2) | SA Decachlor... | 10.091 | 8.634 | 70787096 | 72869648 | 23.177 | 21.421 |
| | Target Compounds | | | | | | |

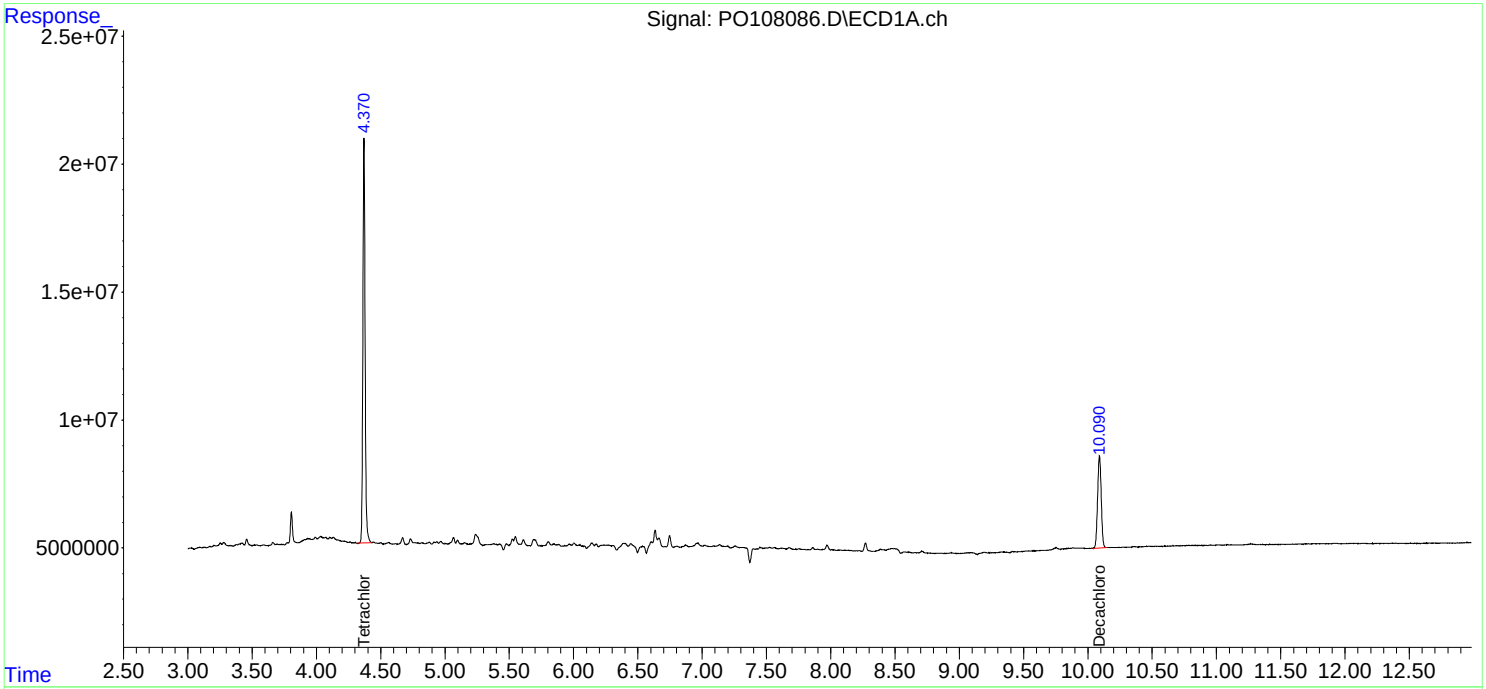
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

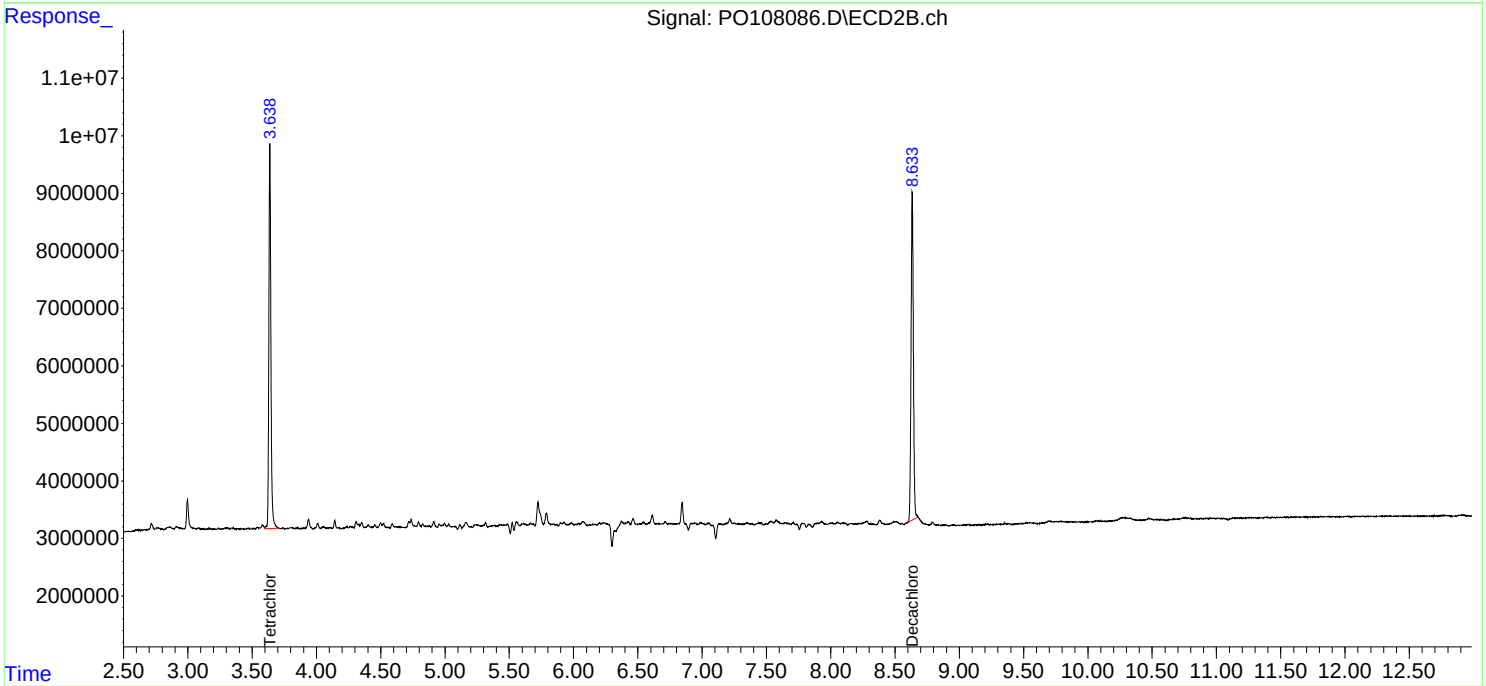
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108086.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 04:39
Operator : YP/AJ
Sample : P4860-10
Misc :
ALS Vial : 49 Sample Multiplier: 1

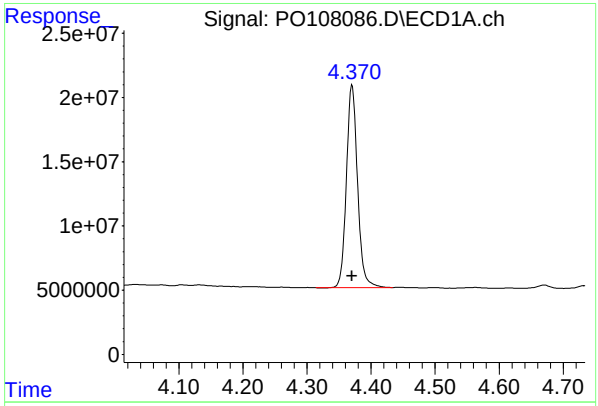
**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-005

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 05:20:38 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



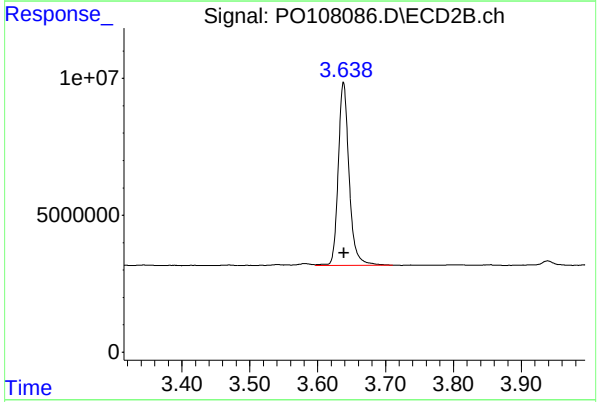






#1 Tetrachloro-m-xylene

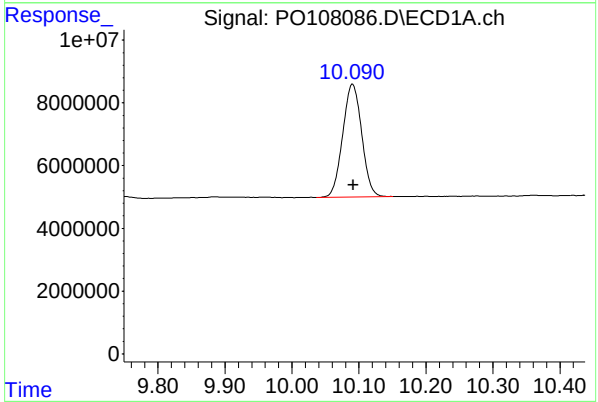
R.T.: 4.370 min
Delta R.T.: 0.000 min
Response: 190783080
Conc: 21.91 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
PH2-BOT-005



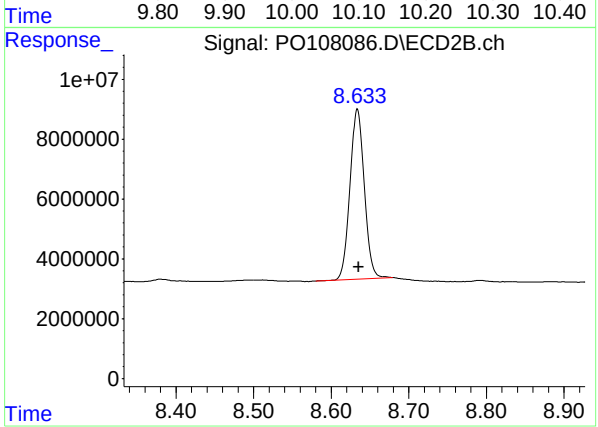

#1 Tetrachloro-m-xylene

R.T.: 3.638 min
Delta R.T.: 0.000 min
Response: 74020986
Conc: 21.83 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.091 min
Delta R.T.: 0.000 min
Response: 70787096
Conc: 23.18 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.634 min
Delta R.T.: -0.002 min
Response: 72869648
Conc: 21.42 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108073.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 01:04
Operator : YP/AJ
Sample : PB165043BL
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PB165043BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 03:46:53 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 | 173.7E6 | 65677992 | 19.956 | 19.372 |
| 2) | SA Decachlor... | 10.091 | 8.634 | 70552588 | 70476241 | 23.100 | 20.718 |
| | Target Compounds | | | | | | |

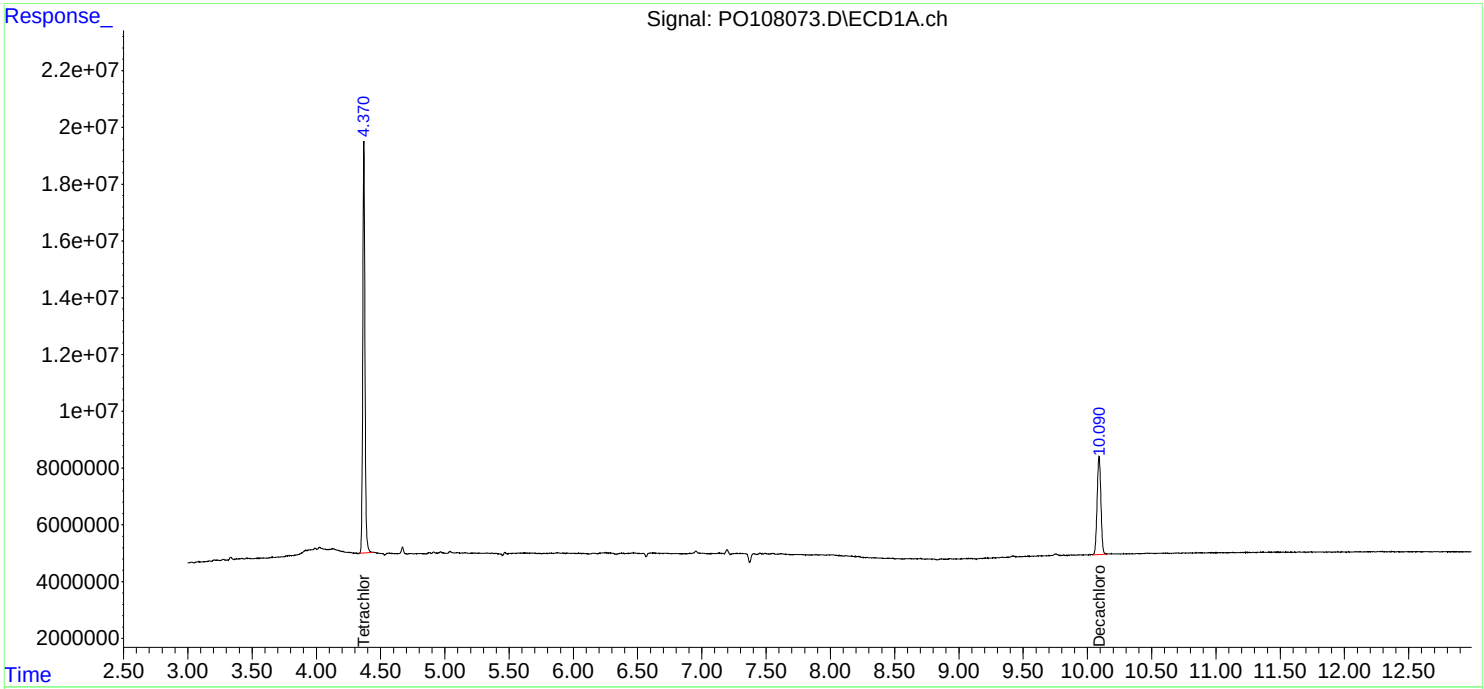
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

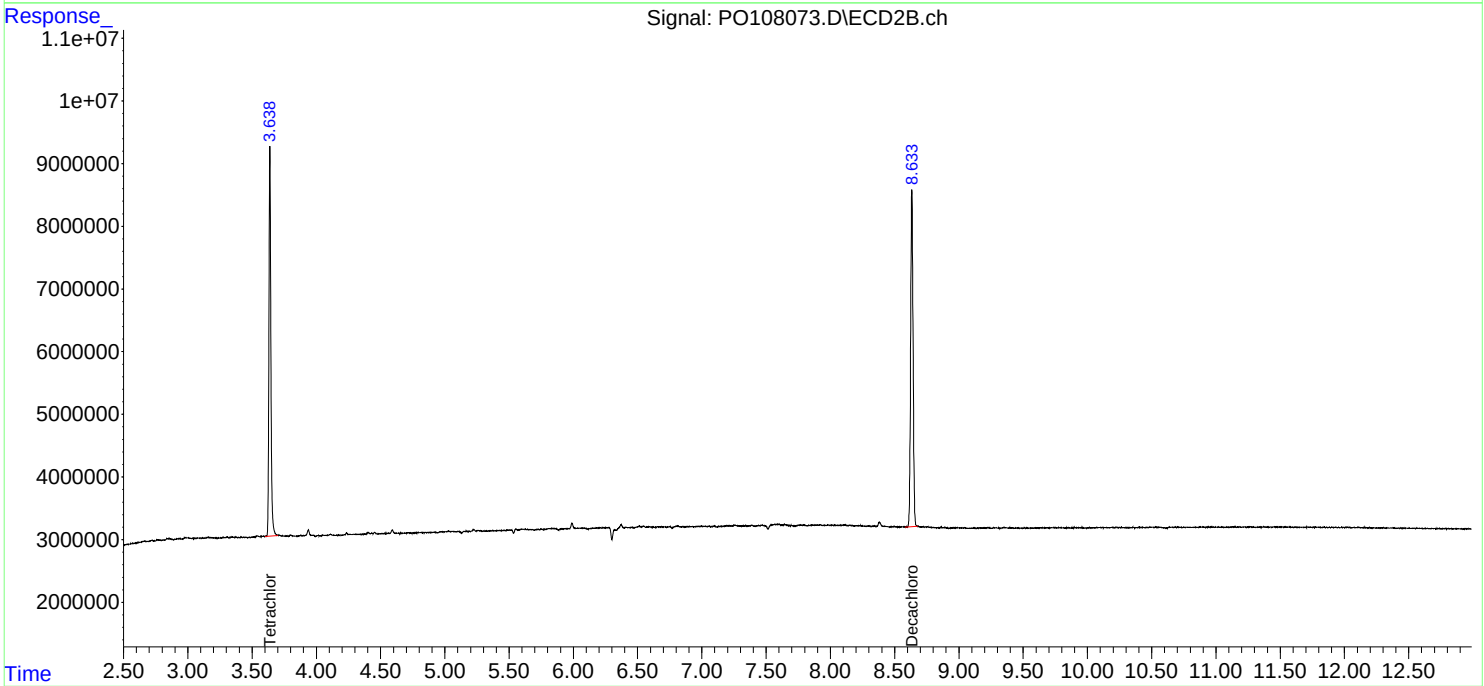
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108073.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 01:04
Operator : YP/AJ
Sample : PB165043BL
Misc :
ALS Vial : 36 Sample Multiplier: 1

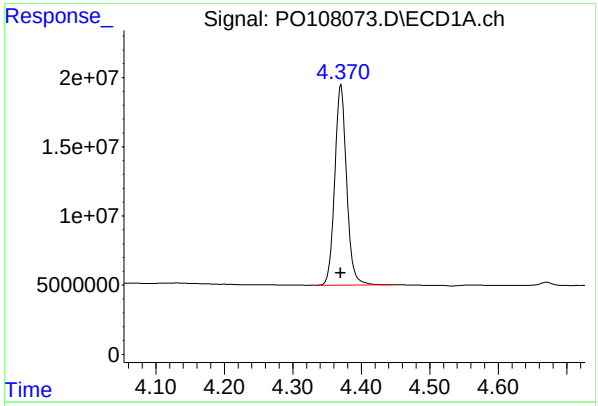
**Instrument :**
ECD_O
**ClientSampleId :**
PB165043BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 03:46:53 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



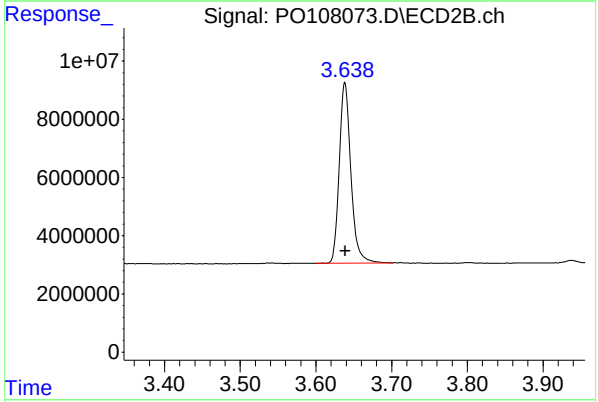






#1 Tetrachloro-m-xylene

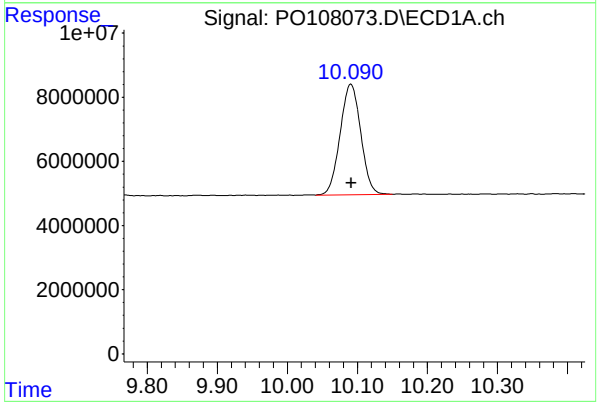
R.T.: 4.370 min
Delta R.T.: 0.000 min
Response: 173739029
Conc: 19.96 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
PB165043BL



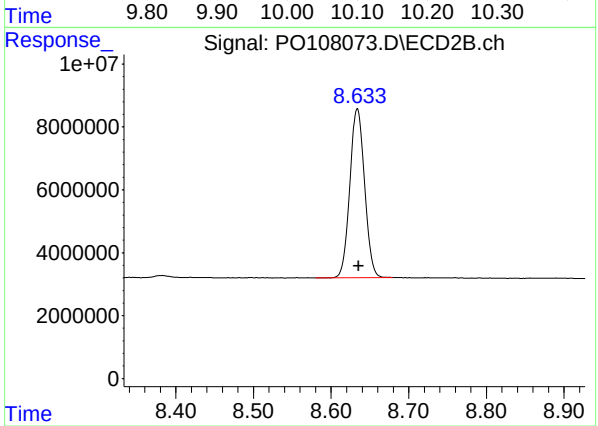

#1 Tetrachloro-m-xylene

R.T.: 3.638 min
Delta R.T.: 0.000 min
Response: 65677992
Conc: 19.37 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.091 min
Delta R.T.: 0.000 min
Response: 70552588
Conc: 23.10 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.634 min
Delta R.T.: -0.002 min
Response: 70476241
Conc: 20.72 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108074.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 01:20
Operator : YP/AJ
Sample : PB165043BS
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PB165043BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 03:47:13 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 | 184.3E6 | 66286570 | 21.164 | 19.551 |
| 2) | SA Decachlor... | 10.089 | 8.633 | 73151321 | 73283339 | 23.951 | 21.543 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.525 | 4.719 | 128.4E6 | 52385045 | 477.633 | 479.393 |
| 4) | L1 AR-1016-2 | 5.548 | 4.738 | 185.9E6 | 74193997 | 479.501 | 485.237 |
| 5) | L1 AR-1016-3 | 5.610 | 4.914 | 116.2E6 | 39751451 | 464.934 | 483.805 |
| 6) | L1 AR-1016-4 | 5.707 | 4.955 | 93820591 | 30081411 | 480.468 | 472.438 |
| 7) | L1 AR-1016-5 | 6.004 | 5.169 | 87296668 | 40242516 | 470.779 | 464.176 |
| 31) | L7 AR-1260-1 | 7.136 | 6.200 | 143.6E6 | 79467151 | 523.382 | 490.717 |
| 32) | L7 AR-1260-2 | 7.394 | 6.388 | 152.2E6 | 96524572 | 537.742 | 490.311 |
| 33) | L7 AR-1260-3 | 7.757 | 6.541 | 96307766 | 91961210 | 448.300 | 494.083 |
| 34) | L7 AR-1260-4 | 7.982 | 7.012 | 106.9E6 | 68028392 | 481.551 | 425.192 |
| 35) | L7 AR-1260-5 | 8.298 | 7.253 | 175.6E6 | 168.2E6 | 460.278 | 428.270 |

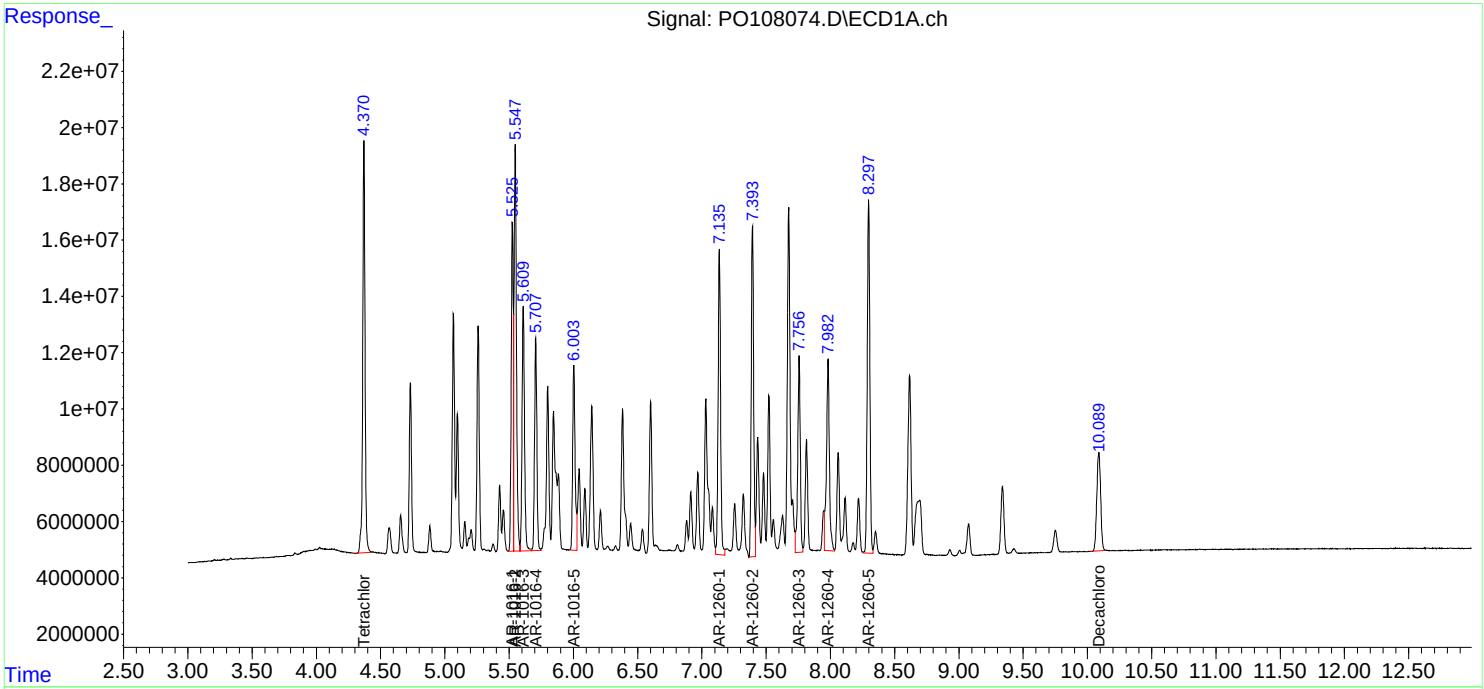
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

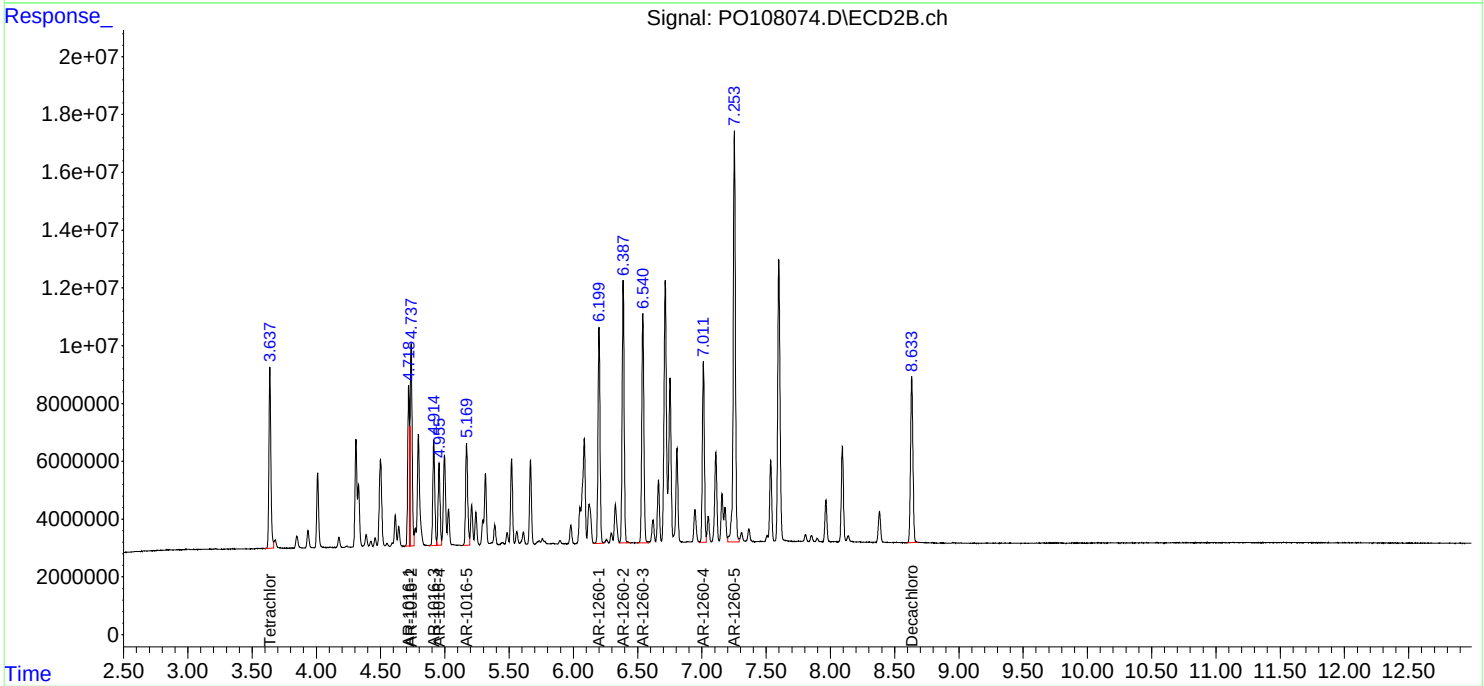
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108074.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 01:20
Operator : YP/AJ
Sample : PB165043BS
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PB165043BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 03:47:13 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\PO111824\
Data File : PO108076.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 01:54
Operator : YP/AJ
Sample : P4860-01MS
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
DUP-01MS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 03:47:50 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... | 4.371 | 3.638 | 178.9E6 | 64620275 | 20.555m | 19.060 |
| 2) | SA Decachlor... | 10.093 | 8.634 | 67881347 | 68910441 | 22.226 | 20.258 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.526 | 4.718 | 133.4E6 | 54330555 | 496.080 | 497.197 |
| 4) | L1 AR-1016-2 | 5.549 | 4.737 | 195.4E6 | 79034539 | 503.948 | 516.895 |
| 5) | L1 AR-1016-3 | 5.611 | 4.913 | 119.2E6 | 41653640 | 477.107 | 506.956 |
| 6) | L1 AR-1016-4 | 5.709 | 4.955 | 102.5E6 | 31682584 | 524.818 | 497.585 |
| 7) | L1 AR-1016-5 | 6.005 | 5.168 | 89223670 | 42660328 | 481.171 | 492.064 |
| 31) | L7 AR-1260-1 | 7.138 | 6.200 | 141.3E6 | 81718096 | 514.860 | 504.617 |
| 32) | L7 AR-1260-2 | 7.396 | 6.387 | 151.6E6 | 97860893 | 535.588 | 497.099 |
| 33) | L7 AR-1260-3 | 7.759 | 6.540 | 96912521 | 93394778 | 451.115 | 501.785 |
| 34) | L7 AR-1260-4 | 7.985 | 7.012 | 112.3E6 | 72642960 | 505.950 | 454.034 |
| 35) | L7 AR-1260-5 | 8.300 | 7.253 | 189.4E6 | 176.3E6 | 496.474 | 448.920 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

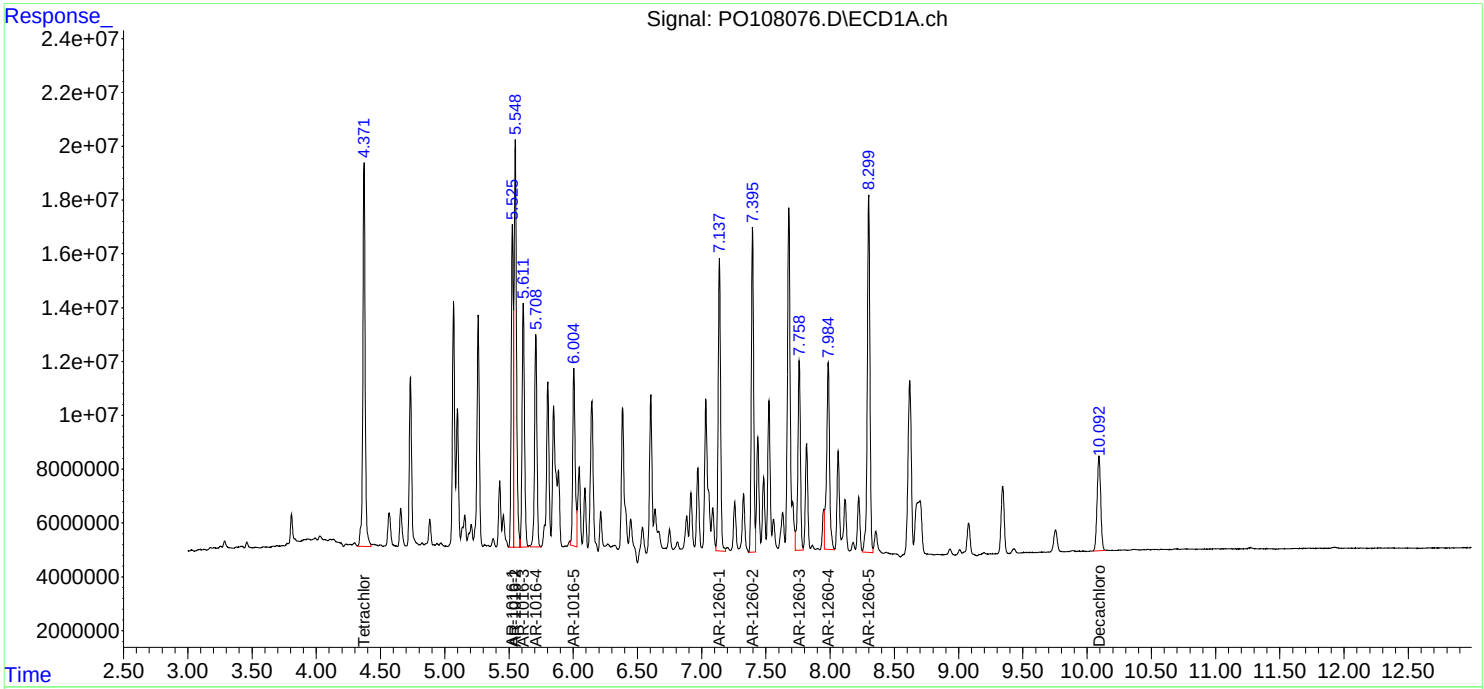
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108076.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 01:54
Operator : YP/AJ
Sample : P4860-01MS
Misc :
ALS Vial : 39 Sample Multiplier: 1

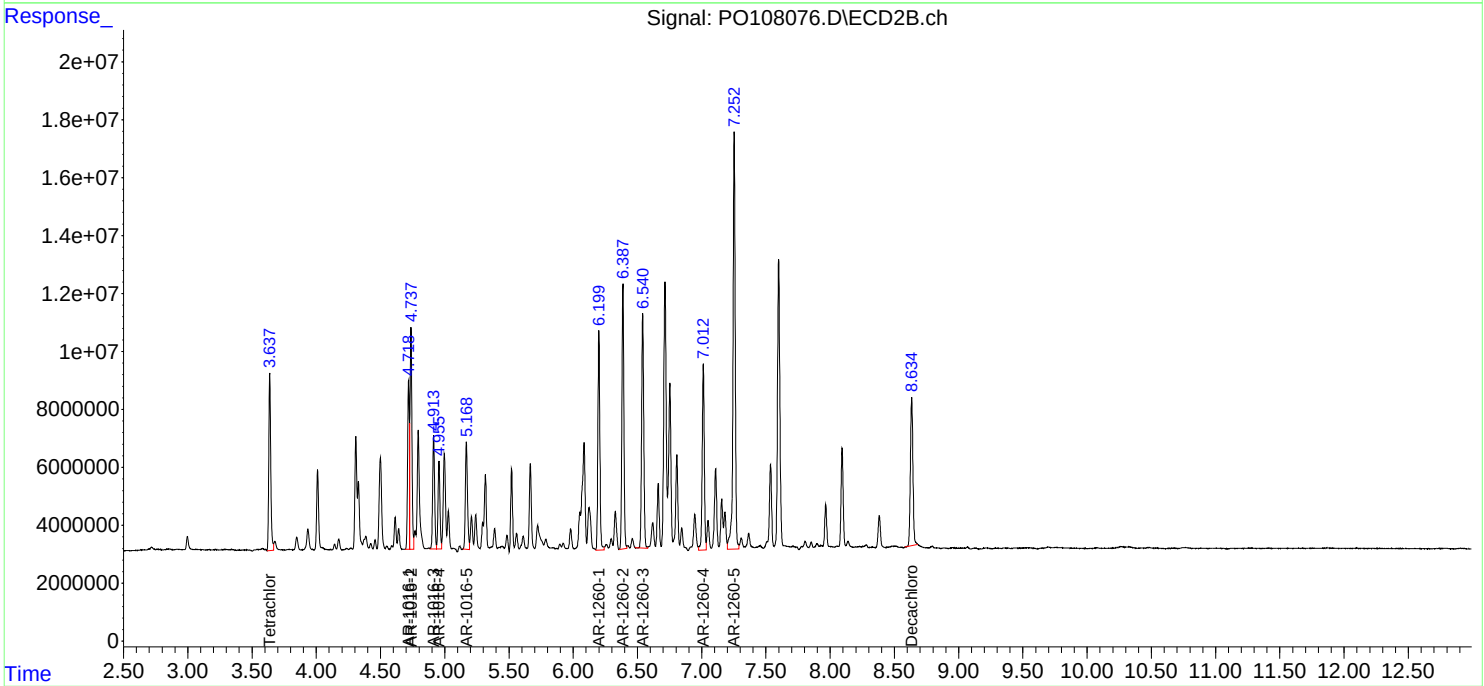
**Instrument :**
ECD_O
**ClientSampleId :**
DUP-01MS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 03:47:50 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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108077.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 02:10
Operator : YP/AJ
Sample : P4860-01MSD
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
DUP-01MSD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 03:48:07 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 | 178.3E6 | 64980234 | 20.475m | 19.166 |
| 2) | SA Decachlor... | 10.090 | 8.632 | 67735608 | 68365083 | 22.178 | 20.097 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.524 | 4.719 | 134.7E6 | 54748377 | 500.876 | 501.020 |
| 4) | L1 AR-1016-2 | 5.547 | 4.738 | 193.9E6 | 79046901 | 500.110 | 516.976 |
| 5) | L1 AR-1016-3 | 5.609 | 4.913 | 119.1E6 | 42438323 | 476.607 | 516.506 |
| 6) | L1 AR-1016-4 | 5.707 | 4.955 | 101.7E6 | 32250189 | 520.746 | 506.499 |
| 7) | L1 AR-1016-5 | 6.004 | 5.168 | 88751786 | 42742121 | 478.626 | 493.007 |
| 31) | L7 AR-1260-1 | 7.136 | 6.199 | 139.0E6 | 81347778 | 506.372 | 502.330 |
| 32) | L7 AR-1260-2 | 7.394 | 6.387 | 154.8E6 | 97963057 | 547.039 | 497.618 |
| 33) | L7 AR-1260-3 | 7.756 | 6.540 | 96427696 | 93461978 | 448.858 | 502.146 |
| 34) | L7 AR-1260-4 | 7.982 | 7.011 | 112.4E6 | 72222582 | 506.109 | 451.406 |
| 35) | L7 AR-1260-5 | 8.297 | 7.252 | 187.3E6 | 174.9E6 | 490.942 | 445.456 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

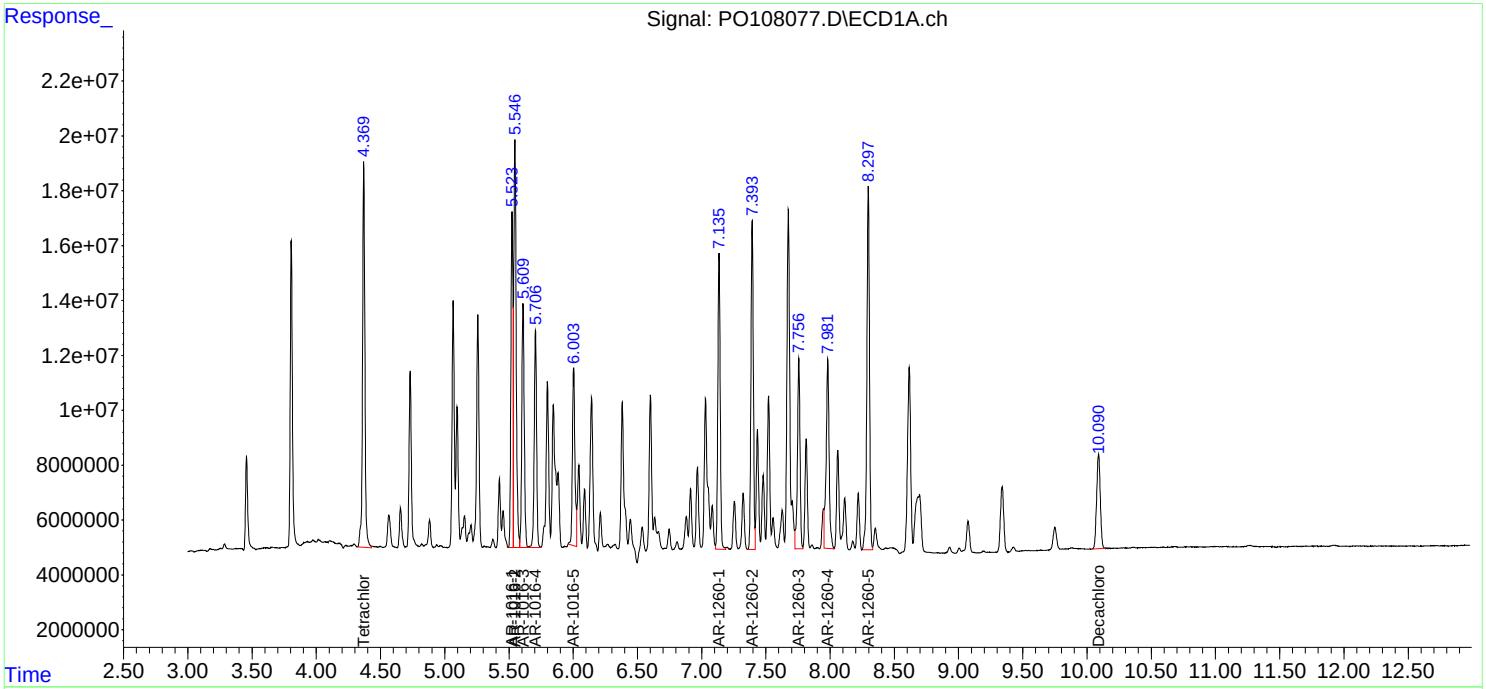
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111824\
Data File : PO108077.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2024 02:10
Operator : YP/AJ
Sample : P4860-01MSD
Misc :
ALS Vial : 40 Sample Multiplier: 1

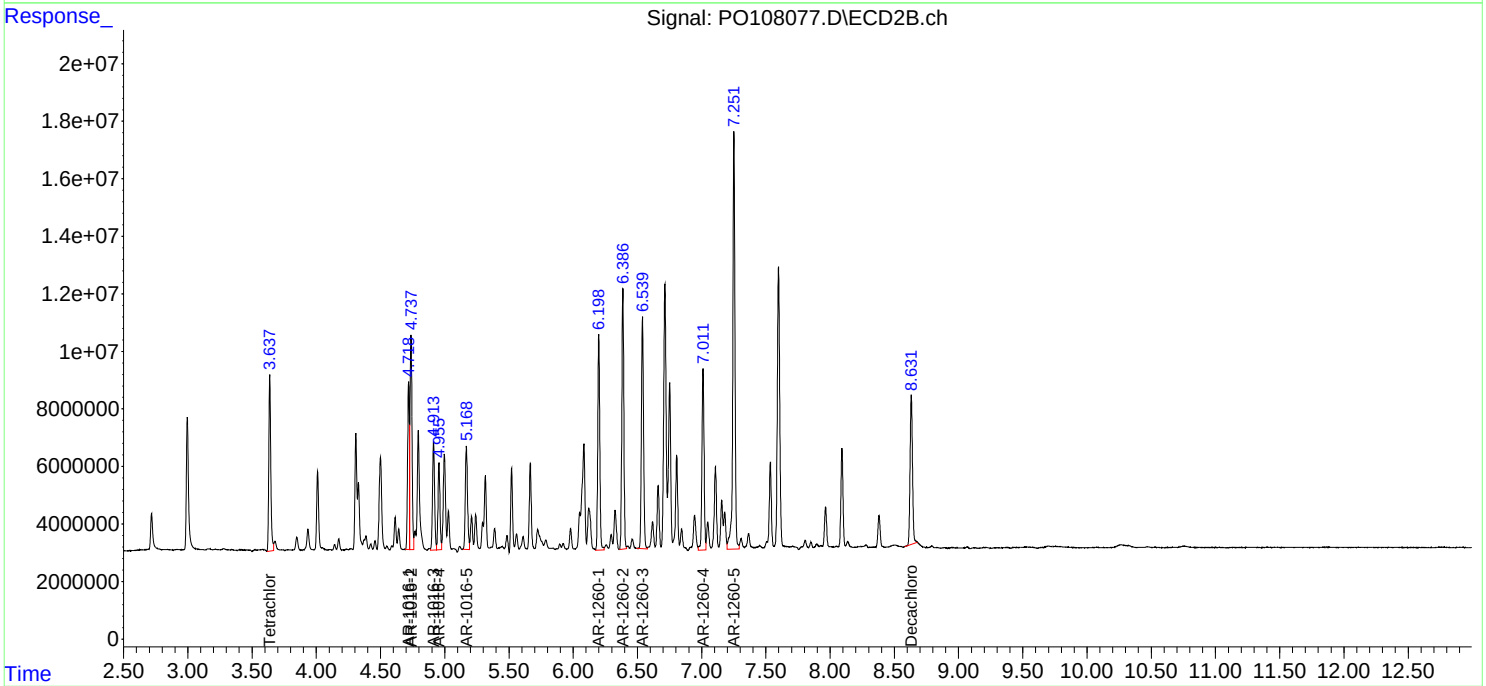
**Instrument :**
ECD_O
**ClientSampleId :**
DUP-01MSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 19 03:48:07 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 |

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 |
|---|---|---|---|---|---|---|---|
| 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 |
| P4860-01 | PO108075.D | Tetrachloro-m-xylene | yogesh | 11/19/2024 9:13:55 AM | Ankita | 11/19/2024 11:25:32 | Peak Integrated by Software |
| P4860-01MS | PO108076.D | Tetrachloro-m-xylene | yogesh | 11/19/2024 9:13:57 AM | Ankita | 11/19/2024 11:25:34 | Peak Integrated by Software |
| P4860-01MSD | PO108077.D | Tetrachloro-m-xylene | yogesh | 11/19/2024 9:13:59 AM | Ankita | 11/19/2024 11:25:36 | Peak Integrated by Software |
| P4860-02 | PO108078.D | Tetrachloro-m-xylene | yogesh | 11/19/2024 9:14:00 AM | Ankita | 11/19/2024 11:25:37 | Peak Integrated by Software |
| P4860-03 | PO108079.D | Tetrachloro-m-xylene | yogesh | 11/19/2024 9:14:02 AM | Ankita | 11/19/2024 11:25:39 | Peak Integrated by Software |

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



**Instrument ID: ECD_O**

## Daily Analysis Runlog For Sequence/QCBatch ID # 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 |

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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 | |

| | | | | | |
|---|---|---|---|---|---|
| 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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**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 |

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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 | |

| 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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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 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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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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 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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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# EXTRACTION LOGPAGE

PB165043

**SOP ID:** M3541-ASE Extraction-14

**Clean Up SOP #:** Acid Cleanup

**Matrix :** Solid

**Weigh By:** RJ

**Balance check:** RJ

**Balance ID:** EX-SC-2

**pH Strip Lot#:** N/A

**Extraction By:** RJ

**Filter By:** RJ

**pH Meter ID:** N/A

**Hood ID:** 3,7

**Extraction Start Date :** 11/18/2024

**Extraction Start Time :** 08:20

**Extraction End Date :** 11/18/2024

**Extraction End Time :** 11:20

**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 | 5000 PPB | PP23913 |
| Surrogate | 1.0ML | 200 PPB | PP23858 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Hexane | 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. P 4890-06 Limited volume used as sample is Oily debries.

**KD Bath ID:** N/A

**KD Bath Temperature:** N/A

**Envap ID:** NEVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/18/24 | RP (Ext Lab) | AJ (GC PUB Lab) |
| 11:25 | Preparation Group | Analysis Group |

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**EXTRACTION LOGPAGE**

**PrepBatch ID : PB165043**

**Analytical Method:** M3541-ASE Extraction-14 **Concentration Date:** 11/18/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB165043BL | ABLK043 | PCB | 30.02 | N/A | ritesh | Evelyn | 10 | | | U7-1 |
| PB165043BS | ALCS043 | PCB | 30.01 | N/A | ritesh | Evelyn | 10 | | | 2 |
| P4860-01 | DUP-01 | PCB | 30.05 | N/A | ritesh | Evelyn | 10 | E | | 3 |
| P4860-01MS | DUP-01MS | PCB | 30.03 | N/A | ritesh | Evelyn | 10 | E | | 4 |
| P4860-01MSD | DUP-01MSD | PCB | 30.02 | N/A | ritesh | Evelyn | 10 | E | | 5 |
| P4860-02 | PH2-BPT-001 | PCB | 30.06 | N/A | ritesh | Evelyn | 10 | E | | 6 |
| P4860-03 | PH2-BPT-002 | PCB | 30.08 | N/A | ritesh | Evelyn | 10 | E | | U1-1 |
| P4860-04 | PH2-BPT-003 | PCB | 30.10 | N/A | ritesh | Evelyn | 10 | E | | 2 |
| P4860-05 | PH2-BPT-004 | PCB | 30.03 | N/A | ritesh | Evelyn | 10 | E | | 3 |
| P4860-06 | PH2-BPT-009 | PCB | 30.07 | N/A | ritesh | Evelyn | 10 | E | | 4 |
| P4860-07 | PH2-BPT-008 | PCB | 30.06 | N/A | ritesh | Evelyn | 10 | E | | 5 |
| P4860-08 | PH2-BPT-007 | PCB | 30.01 | N/A | ritesh | Evelyn | 10 | E | | 6 |
| P4860-09 | PH2-BPT-006 | PCB | 30.04 | N/A | ritesh | Evelyn | 10 | E | | U5-1 |
| P4860-10 | PH2-BPT-005 | PCB | 30.06 | N/A | ritesh | Evelyn | 10 | E | | 2 |
| P4869-01 | EO-02-11152024 | PCB | 30.03 | N/A | ritesh | Evelyn | 10 | E | | 3 |
| P4887-01 | MH-739 | PCB | 30.07 | N/A | ritesh | Evelyn | 10 | D | | 4 |
| P4887-05 | MH-760 | PCB | 30.02 | N/A | ritesh | Evelyn | 10 | D | | 5 |
| P4889-01 | VNJ-228 | PCB | 30.05 | N/A | ritesh | Evelyn | 10 | E | | 6 |
| P4889-03 | #72-11978 | PCB | 30.09 | N/A | ritesh | Evelyn | 10 | E | | U6-1 |
| P4889-05 | #72-11930 | PCB | 30.04 | N/A | ritesh | Evelyn | 10 | E | | 2 |
| P4890-06 | D3721 | PCB | 5.04 | N/A | ritesh | Evelyn | 10 | E | Oily Debris | 3 |

* **Extracts relinquished on the same date as received.**

11/15/24

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** p4860p **WorkList ID :** 185507 **Department :** Extraction **Date :** 11-18-2024 08:11:42

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4860-01 | DUP-01 | Solid | PCB | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8082A |
| P4860-02 | PH2-BPT-001 | Solid | PCB | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8082A |
| P4860-03 | PH2-BPT-002 | Solid | PCB | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8082A |
| P4860-04 | PH2-BPT-003 | Solid | PCB | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8082A |
| P4860-05 | PH2-BPT-004 | Solid | PCB | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8082A |
| P4860-06 | PH2-BPT-009 | Solid | PCB | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8082A |
| P4860-07 | PH2-BPT-008 | Solid | PCB | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8082A |
| P4860-08 | PH2-BPT-007 | Solid | PCB | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8082A |
| P4860-09 | PH2-BPT-006 | Solid | PCB | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8082A |
| P4860-10 | PH2-BPT-005 | Solid | PCB | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | 8082A |
| P4869-01 | EO-02-11152024 | Solid | PCB | Cool 4 deg C | PSEG05 | M11 | 11/15/2024 | 8082A |
| P4887-01 | MH-739 | Solid | PCB | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | 8082A |
| P4887-05 | MH-760 | Solid | PCB | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | 8082A |
| P4889-01 | VNJ-228 | Solid | PCB | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | 8082A |
| P4889-03 | #72-11978 | Solid | PCB | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | 8082A |
| P4889-05 | #72-11930 | Solid | PCB | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | 8082A |
| P4890-06 | D3721 | Solid | PCB | Cool 4 deg C | PSEG03 | M11 | 11/15/2024 | 8082A |

915 of 1443

**Date/Time** 11/18/24 8:15
**Raw Sample Received by:** RJ (Exp Log)
**Raw Sample Relinquished by:**

**Date/Time** 11/18/24 8:45
**Raw Sample Received by:**
**Raw Sample Relinquished by:** RJ (Lyr Log)

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4860 | **OrderDate:** | 11/14/2024 1:36:41 PM |
| **Client:** | Tetra Tech | **Project:** | Ocean County Landfill 2024 |
| **Contact:** | John Giuliano | **Location:** | L41 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4860-01** | **DUP-01** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| **P4860-02** | **PH2-BOT-001** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| **P4860-03** | **PH2-BOT-002** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| **P4860-04** | **PH2-BOT-003** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| **P4860-05** | **PH2-BOT-004** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| **P4860-06** | **PH2-BOT-009** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| **P4860-07** | **PH2-BOT-008** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| **P4860-08** | **PH2-BOT-007** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| **P4860-09** | **PH2-BOT-006** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| **P4860-10** | **PH2-BOT-005** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |

# SAMPLE DATA

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.8 |
| Sample Wt/Vol: | 30.1 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 13:12 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.03 | mg/kg | FG014868.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.30 | J | 1 | 0.25 | 0.69 | mg/kg | FG014868.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.37 | J | 1 | 0.31 | 1.03 | mg/kg | FG014868.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.82 | U | 1 | 0.82 | 1.37 | mg/kg | FG014868.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.89 | J | 1 | 1.85 | 2.06 | mg/kg | FG014868.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.69 | mg/kg | FD048760.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.41 | J | 1 | 0.35 | 1.03 | mg/kg | FD048760.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.28 | J | 1 | 0.99 | 1.72 | mg/kg | FD048760.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.31 | J | 1 | 2.06 | 2.75 | mg/kg | FD048760.D |
| Total AliphaticEPH | Total AliphaticEPH | 3.62 | U | | 3.62 | 6.18 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 4.00 | J | | 3.71 | 6.19 | mg/kg | |
| Total EPH | Total EPH | 7.33 | U | | 7.33 | 12.4 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | 11/14/24 | |
| Project: | Ocean County Landfill 2024 | | Date Received: | 11/14/24 | |
| Client Sample ID: | DUP-01 | | SDG No.: | P4860 | |
| Lab Sample ID: | P4860-01 | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 96.8 | |
| Sample Wt/Vol: | 30.1 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FG014868.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.39 | U | 0.39 | 1.03 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.30 | J | 0.25 | 0.69 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.37 | J | 0.31 | 1.03 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 0.82 | U | 0.82 | 1.37 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 1.89 | J | 1.85 | 2.06 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 34.2 | | 40 - 140 | 68% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-01 | Acq On: | 19 Nov 2024 13:12 |
| Client Sample ID: | DUP-01 | Operator: | YP\AJ |
| Data file: | FG014868.D | Misc: | |
| Instrument: | FID_G | ALS Vial: | 26 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.218 | 6.839 | 502414 | 3.635 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.840 | 10.283 | 620460 | 4.427 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.284 | 13.654 | 716167 | 5.328 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.655 | 17.319 | 1204327 | 9.749 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.320 | 22.248 | 2862584 | 27.607 | 600 | ug/ml |
| Aliphatic EPH | 3.218 | 22.248 | 5905952 | 50.746 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.385 | 13.385 | 3804504 | 34.24 | | ug/ml |
| Aliphatic C9-C28 | 3.218 | 17.319 | 3043368 | 23.139 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.8 |
| Sample Wt/Vol: | 30.1 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048760.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 0.31 | 0.69 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.41 | J | 0.35 | 1.03 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.28 | J | 0.99 | 1.72 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.31 | J | 2.06 | 2.75 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 52.4 | | 40 - 140 | 105% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 54.1 | | 40 - 140 | 108% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 28.6 | | 40 - 140 | 57% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-01 | Acq On: | 18 Nov 2024 10:38 |
| Client Sample ID: | DUP-01 | Operator: | YP/AJ |
| Data file: | FD048760.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 | 728652 | 3.795 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 1136633 | 5.906 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 3469775 | 18.674 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 5289666 | 33.643 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 10624726 | 62.017 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.367 | 7.367 | 9232725 | 52.44 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.217 | 8.217 | 6235407 | 54.14 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.251 | 11.251 | 5492809 | 28.56 | | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.8 |
| 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 |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 13:43 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.03 | mg/kg | FG014869.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.49 | J | 1 | 0.25 | 0.69 | mg/kg | FG014869.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 3.72 | | 1 | 0.31 | 1.03 | mg/kg | FG014869.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 7.06 | | 1 | 0.83 | 1.38 | mg/kg | FG014869.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 7.02 | | 1 | 1.86 | 2.06 | mg/kg | FG014869.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.69 | mg/kg | FD048761.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 2.82 | | 1 | 0.35 | 1.03 | mg/kg | FD048761.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 2.37 | | 1 | 0.99 | 1.72 | mg/kg | FD048761.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 5.82 | | 1 | 2.06 | 2.75 | mg/kg | FD048761.D |
| Total AliphaticEPH | Total AliphaticEPH | 18.3 | | | 3.64 | 6.19 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 11.0 | | | 3.71 | 6.19 | mg/kg | |
| Total EPH | Total EPH | 29.3 | | | 7.35 | 12.4 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.8 |
| 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 |
|---|---|---|---|---|
| FG014869.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.39 | U | 0.39 | 1.03 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.49 | J | 0.25 | 0.69 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 3.72 | | 0.31 | 1.03 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 7.06 | | 0.83 | 1.38 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 7.02 | | 1.86 | 2.06 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 42.4 | | 40 - 140 | 85% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-02 | Acq On: | 19 Nov 2024 13:43 |
| Client Sample ID: | PH2-BOT-001 | Operator: | YP\AJ |
| Data file: | FG014869.D | Misc: | |
| Instrument: | FID_G | ALS Vial: | 27 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.218 | 6.839 | 721592 | 5.221 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.840 | 10.283 | 998230 | 7.122 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.284 | 13.654 | 7270152 | 54.086 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.655 | 17.319 | 12682882 | 102.671 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.320 | 22.248 | 10576262 | 101.998 | 600 | ug/ml |
| Aliphatic EPH | 3.218 | 22.248 | 32249118 | 271.098 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.387 | 13.387 | 4711588 | 42.4 | | ug/ml |
| Aliphatic C9-C28 | 3.218 | 17.319 | 21672856 | 169.1 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.8 |
| 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 |
|---|---|---|---|---|
| FD048761.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 0.31 | 0.69 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 2.82 | | 0.35 | 1.03 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 2.37 | | 0.99 | 1.72 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 5.82 | | 2.06 | 2.75 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 57.4 | | 40 - 140 | 115% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 58.9 | | 40 - 140 | 118% | 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: | P4860-02 | Acq On: | 18 Nov 2024 11:41 |
| Client Sample ID: | PH2-BOT-001 | Operator: | YP/AJ |
| Data file: | FD048761.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 | 734678 | 3.826 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 7878386 | 40.935 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 6407951 | 34.488 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 13308598 | 84.644 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 28329613 | 163.893 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.366 | 7.366 | 10111530 | 57.43 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.215 | 8.215 | 6778668 | 58.86 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.252 | 11.252 | 6471330 | 33.65 | | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.6 |
| 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 |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 0:53 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.03 | mg/kg | FC067813.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.47 | J | 1 | 0.25 | 0.69 | mg/kg | FC067813.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.96 | J | 1 | 0.31 | 1.03 | mg/kg | FC067813.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 4.22 | | 1 | 0.83 | 1.38 | mg/kg | FC067813.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 6.76 | | 1 | 1.86 | 2.07 | mg/kg | FC067813.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.69 | mg/kg | FD048772.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 3.52 | | 1 | 0.35 | 1.03 | mg/kg | FD048772.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.68 | J | 1 | 0.99 | 1.72 | mg/kg | FD048772.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 4.83 | | 1 | 2.07 | 2.76 | mg/kg | FD048772.D |
| Total AliphaticEPH | Total AliphaticEPH | 12.4 | | | 3.64 | 6.20 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 10.0 | | | 3.73 | 6.20 | mg/kg | |
| Total EPH | Total EPH | 22.4 | | | 7.36 | 12.4 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.6 |
| 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 |
|---|---|---|---|---|
| FC067813.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.39 | U | 0.39 | 1.03 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.47 | J | 0.25 | 0.69 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.96 | J | 0.31 | 1.03 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 4.22 | | 0.83 | 1.38 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 6.76 | | 1.86 | 2.07 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 38.2 | | 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: | P4860-03 | Acq On: | 19 Nov 2024 00:53 |
| Client Sample ID: | PH2-BOT-002 | Operator: | YP/AJ |
| Data file: | FC067813.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 23 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 450422 | 2.717 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 1170792 | 6.871 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 2363878 | 13.936 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 9631908 | 61.24 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 11877843 | 98.074 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 25494843 | 182.839 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.929 | 12.929 | 5545169 | 38.2 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 13617000 | 84.764 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.6 |
| 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 |
|---|---|---|---|---|
| FD048772.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 0.31 | 0.69 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 3.52 | | 0.35 | 1.03 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.68 | J | 0.99 | 1.72 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 4.83 | | 2.07 | 2.76 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 46.8 | | 40 - 140 | 94% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 40.6 | | 40 - 140 | 81% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 38.6 | | 40 - 140 | 77% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-03 | Acq On: | 19 Nov 2024 00:53 |
| Client Sample ID: | PH2-BOT-002 | Operator: | YP/AJ |
| Data file: | FD048772.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 73 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 769634 | 4.008 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 9816182 | 51.004 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 4525079 | 24.354 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 11004983 | 69.992 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 26115878 | 149.359 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.366 | 7.366 | 8231045 | 46.75 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.216 | 8.216 | 4676660 | 40.61 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.253 | 11.253 | 7416251 | 38.56 | | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 97.8 |
| Sample Wt/Vol: | 30.09 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 2:45 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.02 | mg/kg | FC067814.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.44 | J | 1 | 0.25 | 0.68 | mg/kg | FC067814.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.37 | J | 1 | 0.31 | 1.02 | mg/kg | FC067814.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.82 | U | 1 | 0.82 | 1.36 | mg/kg | FC067814.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 6.53 | | 1 | 1.83 | 2.04 | mg/kg | FC067814.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.68 | mg/kg | FD048773.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.48 | J | 1 | 0.35 | 1.02 | mg/kg | FD048773.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.49 | J | 1 | 0.98 | 1.70 | mg/kg | FD048773.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.19 | J | 1 | 2.04 | 2.72 | mg/kg | FD048773.D |
| Total AliphaticEPH | Total AliphaticEPH | 7.34 | | | 3.58 | 6.12 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 4.16 | J | | 3.67 | 6.12 | mg/kg | |
| Total EPH | Total EPH | 11.5 | J | | 7.26 | 12.2 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 97.8 |
| Sample Wt/Vol: | 30.09 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067814.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.39 | U | 0.39 | 1.02 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.44 | J | 0.25 | 0.68 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.37 | J | 0.31 | 1.02 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 0.82 | U | 0.82 | 1.36 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 6.53 | | 1.83 | 2.04 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 28.9 | | 40 - 140 | 58% | 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: | P4860-04 | Acq On: | 19 Nov 2024 02:45 |
| Client Sample ID: | PH2-BOT-003 | Operator: | YP/AJ |
| Data file: | FC067814.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 24 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 564233 | 3.403 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 1105695 | 6.489 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 912978 | 5.382 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 1409377 | 8.961 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 11642285 | 96.129 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 15634568 | 120.365 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.930 | 12.930 | 4193020 | 28.89 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 3992283 | 24.235 | 1200 | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | 11/14/24 | |
| Project: | Ocean County Landfill 2024 | | Date Received: | 11/14/24 | |
| Client Sample ID: | PH2-BOT-003 | | SDG No.: | P4860 | |
| Lab Sample ID: | P4860-04 | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 97.8 | |
| Sample Wt/Vol: | 30.09 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048773.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 0.31 | 0.68 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.48 | J | 0.35 | 1.02 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.49 | J | 0.98 | 1.70 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.19 | J | 2.04 | 2.72 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 49.0 | | 40 - 140 | 98% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 49.3 | | 40 - 140 | 99% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 22.0 | | 40 - 140 | 44% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-04 | Acq On: | 19 Nov 2024 02:45 |
| Client Sample ID: | PH2-BOT-003 | Operator: | YP/AJ |
| Data file: | FD048773.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 74 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 817925 | 4.26 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 1348810 | 7.008 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 4069702 | 21.903 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 5077518 | 32.293 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 11313955 | 65.464 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.364 | 7.364 | 8633724 | 49.04 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.214 | 8.214 | 5678166 | 49.3 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.248 | 11.248 | 4231467 | 22 | | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98.1 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 8:37 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.02 | mg/kg | FC067816.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.35 | J | 1 | 0.24 | 0.68 | mg/kg | FC067816.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.31 | U | 1 | 0.31 | 1.02 | mg/kg | FC067816.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.81 | U | 1 | 0.81 | 1.36 | mg/kg | FC067816.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 2.30 | | 1 | 1.83 | 2.04 | mg/kg | FC067816.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.68 | mg/kg | FD048775.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.41 | J | 1 | 0.35 | 1.02 | mg/kg | FD048775.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 3.63 | | 1 | 0.98 | 1.70 | mg/kg | FD048775.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.04 | U | 1 | 2.04 | 2.71 | mg/kg | FD048775.D |
| Total AliphaticEPH | Total AliphaticEPH | 3.58 | U | | 3.58 | 6.12 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 4.04 | J | | 3.67 | 6.11 | mg/kg | |
| Total EPH | Total EPH | 7.25 | U | | 7.25 | 12.2 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98.1 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067816.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.39 | U | 0.39 | 1.02 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.35 | J | 0.24 | 0.68 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.31 | U | 0.31 | 1.02 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 0.81 | U | 0.81 | 1.36 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 2.30 | | 1.83 | 2.04 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 26.1 | | 40 - 140 | 52% | 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: | P4860-05 | Acq On: | 19 Nov 2024 08:37 |
| Client Sample ID: | PH2-BOT-004 | Operator: | YP/AJ |
| Data file: | FC067816.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 26 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 402363 | 2.427 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 875885 | 5.141 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 456323 | 2.69 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 534171 | 3.396 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 4105991 | 33.903 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 6374733 | 47.557 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.940 | 12.940 | 3785982 | 26.08 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 2268742 | 13.654 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98.1 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048775.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 0.31 | 0.68 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.41 | J | 0.35 | 1.02 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 3.63 | | 0.98 | 1.70 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.04 | U | 2.04 | 2.71 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 58.1 | | 40 - 140 | 116% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 56.0 | | 40 - 140 | 112% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 32.3 | | 40 - 140 | 64% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-05 | Acq On: | 19 Nov 2024 08:37 |
| Client Sample ID: | PH2-BOT-004 | Operator: | YP/AJ |
| Data file: | FD048775.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 76 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 701194 | 3.652 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 1175464 | 6.108 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 9948235 | 53.541 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 4683341 | 29.786 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 16508234 | 93.087 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.367 | 7.367 | 10224205 | 58.07 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.216 | 8.216 | 6451850 | 56.02 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.251 | 11.251 | 6203268 | 32.25 | | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98.3 |
| 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 |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 7:59 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.02 | mg/kg | FC067815.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.47 | J | 1 | 0.24 | 0.68 | mg/kg | FC067815.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.32 | J | 1 | 0.31 | 1.02 | mg/kg | FC067815.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.81 | U | 1 | 0.81 | 1.35 | mg/kg | FC067815.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 6.73 | | 1 | 1.83 | 2.03 | mg/kg | FC067815.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.68 | mg/kg | FD048774.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 3.33 | | 1 | 0.35 | 1.02 | mg/kg | FD048774.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.81 | | 1 | 0.98 | 1.69 | mg/kg | FD048774.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.37 | J | 1 | 2.03 | 2.71 | mg/kg | FD048774.D |
| Total AliphaticEPH | Total AliphaticEPH | 7.52 | | | 3.58 | 6.10 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 7.51 | | | 3.65 | 6.10 | mg/kg | |
| Total EPH | Total EPH | 15.0 | | | 7.23 | 12.2 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98.3 |
| 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 |
|---|---|---|---|---|
| FC067815.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.39 | U | 0.39 | 1.02 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.47 | J | 0.24 | 0.68 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.32 | J | 0.31 | 1.02 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 0.81 | U | 0.81 | 1.35 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 6.73 | | 1.83 | 2.03 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 27.3 | | 40 - 140 | 55% | 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: | P4860-06 | Acq On: | 19 Nov 2024 07:59 |
| Client Sample ID: | PH2-BOT-009 | Operator: | YP/AJ |
| Data file: | FC067815.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 25 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 459734 | 2.773 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 1191173 | 6.991 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 799488 | 4.713 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 681824 | 4.335 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 12031680 | 99.344 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 15163899 | 118.156 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.941 | 12.941 | 3966575 | 27.33 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 3132219 | 18.812 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98.3 |
| 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 |
|---|---|---|---|---|
| FD048774.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 0.31 | 0.68 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 3.33 | | 0.35 | 1.02 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.81 | | 0.98 | 1.69 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.37 | J | 2.03 | 2.71 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 45.2 | | 40 - 140 | 90% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 43.6 | | 40 - 140 | 87% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 27.7 | | 40 - 140 | 55% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-06 | Acq On: | 19 Nov 2024 07:59 |
| Client Sample ID: | PH2-BOT-009 | Operator: | YP/AJ |
| Data file: | FD048774.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 75 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 581029 | 3.026 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 9459202 | 49.149 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 4976646 | 26.784 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 5510457 | 35.047 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 20527334 | 114.006 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.250 | 11.250 | 5331881 | 27.72 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.363 | 7.363 | 7952476 | 45.17 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.213 | 8.213 | 5023359 | 43.62 | | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.8 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 11:19 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.03 | mg/kg | FG014864.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.25 | U | 1 | 0.25 | 0.69 | mg/kg | FG014864.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.31 | U | 1 | 0.31 | 1.03 | mg/kg | FG014864.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.83 | U | 1 | 0.83 | 1.38 | mg/kg | FG014864.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.86 | U | 1 | 1.86 | 2.07 | mg/kg | FG014864.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.69 | mg/kg | FF015095.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.35 | U | 1 | 0.35 | 1.03 | mg/kg | FF015095.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.01 | J | 1 | 0.99 | 1.72 | mg/kg | FF015095.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.07 | U | 1 | 2.07 | 2.75 | mg/kg | FF015095.D |
| Total AliphaticEPH | Total AliphaticEPH | 3.64 | U | | 3.64 | 6.20 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 3.72 | U | | 3.72 | 6.19 | mg/kg | |
| Total EPH | Total EPH | 7.36 | U | | 7.36 | 12.4 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.8 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FG014864.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.39 | U | 0.39 | 1.03 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.25 | U | 0.25 | 0.69 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.31 | U | 0.31 | 1.03 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 0.83 | U | 0.83 | 1.38 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 1.86 | U | 1.86 | 2.07 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 40.7 | | 40 - 140 | 81% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-07 | Acq On: | 19 Nov 2024 11:19 |
| Client Sample ID: | PH2-BOT-008 | Operator: | YP\AJ |
| Data file: | FG014864.D | Misc: | |
| Instrument: | FID_G | ALS Vial: | 22 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.218 | 6.839 | 42066 | 0.304 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.840 | 10.283 | 406458 | 2.9 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.284 | 13.654 | 55291 | 0.411 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.655 | 17.319 | 0 | 0 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.320 | 22.248 | 0 | 0 | 600 | ug/ml |
| Aliphatic EPH | 3.218 | 22.248 | 503815 | 3.616 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.386 | 13.386 | 4521780 | 40.69 | | ug/ml |
| Aliphatic C9-C28 | 3.218 | 17.319 | 503815 | 3.615 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 96.8 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FF015095.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | | 0.31 | U | 0.31 | 0.69 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | | 0.35 | U | 0.35 | 1.03 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | | 1.01 | J | 0.99 | 1.72 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | | 2.07 | U | 2.07 | 2.75 | mg/kg |
| **SURROGATES** | | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | | 50.8 | | 40 - 140 | 102% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | | 45.3 | | 40 - 140 | 91% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 39.8 | | 40 - 140 | 80% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-07 | Acq On: | 19 Nov 2024 11:19 |
| Client Sample ID: | PH2-BOT-008 | Operator: | YP\AJ |
| Data file: | FF015095.D | Misc: | |
| Instrument: | FID_F | ALS Vial: | 72 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.496 | 6.362 | 237213 | 1.734 | 200 | ug/ml |
| Aromatic C12-C16 | 6.363 | 9.056 | 191428 | 1.418 | 300 | ug/ml |
| Aromatic C16-C21 | 9.057 | 13.369 | 1870575 | 14.626 | 500 | ug/ml |
| Aromatic C21-C36 | 13.370 | 18.810 | 3021202 | 24.79 | 800 | ug/ml |
| Aromatic EPH | 4.496 | 18.810 | 5320418 | 42.568 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.987 | 7.987 | 6201091 | 50.78 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.922 | 11.922 | 5342931 | 39.83 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.861 | 8.861 | 3699822 | 45.32 | | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 11:47 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.02 | mg/kg | FG014865.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.40 | J | 1 | 0.24 | 0.68 | mg/kg | FG014865.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.31 | U | 1 | 0.31 | 1.02 | mg/kg | FG014865.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 1.12 | J | 1 | 0.81 | 1.36 | mg/kg | FG014865.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 2.77 | | 1 | 1.83 | 2.04 | mg/kg | FG014865.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.68 | mg/kg | FF015096.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.35 | U | 1 | 0.35 | 1.02 | mg/kg | FF015096.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 0.98 | U | 1 | 0.98 | 1.70 | mg/kg | FF015096.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.04 | U | 1 | 2.04 | 2.71 | mg/kg | FF015096.D |
| Total AliphaticEPH | Total AliphaticEPH | 4.29 | J | | 3.58 | 6.12 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 3.67 | U | | 3.67 | 6.11 | mg/kg | |
| Total EPH | Total EPH | 7.25 | U | | 7.25 | 12.2 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FG014865.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.39 | U | 0.39 | 1.02 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.40 | J | 0.24 | 0.68 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.31 | U | 0.31 | 1.02 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 1.12 | J | 0.81 | 1.36 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 2.77 | | 1.83 | 2.04 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 31.6 | | 40 - 140 | 63% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-08 | Acq On: | 19 Nov 2024 11:47 |
| Client Sample ID: | PH2-BOT-007 | Operator: | YP\AJ |
| Data file: | FG014865.D | Misc: | |
| Instrument: | FID_G | ALS Vial: | 23 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.218 | 6.839 | 431207 | 3.12 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.840 | 10.283 | 817941 | 5.836 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.284 | 13.654 | 575829 | 4.284 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.655 | 17.319 | 2035304 | 16.476 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.320 | 22.248 | 4233534 | 40.829 | 600 | ug/ml |
| Aliphatic EPH | 3.218 | 22.248 | 8093815 | 70.544 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.385 | 13.385 | 3506832 | 31.56 | | ug/ml |
| Aliphatic C9-C28 | 3.218 | 17.319 | 3860281 | 29.716 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 98 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FF015096.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | | 0.31 | U | 0.31 | 0.68 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | | 0.35 | U | 0.35 | 1.02 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | | 0.98 | U | 0.98 | 1.70 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | | 2.04 | U | 2.04 | 2.71 | mg/kg |
| **SURROGATES** | | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | | 51.9 | | 40 - 140 | 104% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | | 48.6 | | 40 - 140 | 97% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 24.5 | | 40 - 140 | 49% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-08 | Acq On: | 19 Nov 2024 11:47 |
| Client Sample ID: | PH2-BOT-007 | Operator: | YP\AJ |
| Data file: | FF015096.D | Misc: | |
| Instrument: | FID_F | ALS Vial: | 73 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.496 | 6.362 | 173154 | 1.266 | 200 | ug/ml |
| Aromatic C12-C16 | 6.363 | 9.056 | 86456 | 0.64 | 300 | ug/ml |
| Aromatic C16-C21 | 9.057 | 13.369 | 1581781 | 12.368 | 500 | ug/ml |
| Aromatic C21-C36 | 13.370 | 18.810 | 1301710 | 10.681 | 800 | ug/ml |
| Aromatic EPH | 4.496 | 18.810 | 3143101 | 24.955 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.988 | 7.988 | 6337278 | 51.9 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.861 | 8.861 | 3970343 | 48.63 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.921 | 11.921 | 3285749 | 24.49 | | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 97.5 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 12:16 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.02 | mg/kg | FG014866.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.25 | U | 1 | 0.25 | 0.68 | mg/kg | FG014866.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.31 | U | 1 | 0.31 | 1.02 | mg/kg | FG014866.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.82 | U | 1 | 0.82 | 1.37 | mg/kg | FG014866.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.84 | U | 1 | 1.84 | 2.05 | mg/kg | FG014866.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.68 | mg/kg | FF015097.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.35 | U | 1 | 0.35 | 1.02 | mg/kg | FF015097.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.03 | J | 1 | 0.98 | 1.71 | mg/kg | FF015097.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.05 | U | 1 | 2.05 | 2.73 | mg/kg | FF015097.D |
| Total AliphaticEPH | Total AliphaticEPH | 3.60 | U | | 3.60 | 6.14 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 3.69 | U | | 3.69 | 6.14 | mg/kg | |
| Total EPH | Total EPH | 7.29 | U | | 7.29 | 12.3 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 97.5 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FG014866.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.39 | U | 0.39 | 1.02 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.25 | U | 0.25 | 0.68 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.31 | U | 0.31 | 1.02 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 0.82 | U | 0.82 | 1.37 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 1.84 | U | 1.84 | 2.05 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 34.7 | | 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: | P4860-09 | Acq On: | 19 Nov 2024 12:16 |
| Client Sample ID: | PH2-BOT-006 | Operator: | YP\AJ |
| Data file: | FG014866.D | Misc: | |
| Instrument: | FID_G | ALS Vial: | 24 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.218 | 6.839 | 99099 | 0.717 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.840 | 10.283 | 157371 | 1.123 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.284 | 13.654 | 107252 | 0.798 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.655 | 17.319 | 0 | 0 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.320 | 22.248 | 0 | 0 | 600 | ug/ml |
| Aliphatic EPH | 3.218 | 22.248 | 363722 | 2.638 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.385 | 13.385 | 3851647 | 34.66 | | ug/ml |
| Aliphatic C9-C28 | 3.218 | 17.319 | 363722 | 2.638 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 97.5 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FF015097.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | | 0.31 | U | 0.31 | 0.68 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | | 0.35 | U | 0.35 | 1.02 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | | 1.03 | J | 0.98 | 1.71 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | | 2.05 | U | 2.05 | 2.73 | mg/kg |
| **SURROGATES** | | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | | 51.8 | | 40 - 140 | 104% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | | 50.2 | | 40 - 140 | 100% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 28.7 | | 40 - 140 | 57% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-09 | Acq On: | 19 Nov 2024 12:16 |
| Client Sample ID: | PH2-BOT-006 | Operator: | YP\AJ |
| Data file: | FF015097.D | Misc: | |
| Instrument: | FID_F | ALS Vial: | 74 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.496 | 6.362 | 236885 | 1.732 | 200 | ug/ml |
| Aromatic C12-C16 | 6.363 | 9.056 | 90814 | 0.673 | 300 | ug/ml |
| Aromatic C16-C21 | 9.057 | 13.369 | 1919248 | 15.007 | 500 | ug/ml |
| Aromatic C21-C36 | 13.370 | 18.810 | 897426 | 7.364 | 800 | ug/ml |
| Aromatic EPH | 4.496 | 18.810 | 3144373 | 24.775 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.988 | 7.988 | 6327225 | 51.81 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.861 | 8.861 | 4096157 | 50.17 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.922 | 11.922 | 3853118 | 28.72 | | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 97.6 |
| 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 |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 12:44 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.39 | U | 1 | 0.39 | 1.02 | mg/kg | FG014867.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.47 | J | 1 | 0.25 | 0.68 | mg/kg | FG014867.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.38 | J | 1 | 0.31 | 1.02 | mg/kg | FG014867.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 1.11 | J | 1 | 0.82 | 1.36 | mg/kg | FG014867.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 2.36 | | 1 | 1.84 | 2.05 | mg/kg | FG014867.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.31 | U | 1 | 0.31 | 0.68 | mg/kg | FF015098.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.35 | U | 1 | 0.35 | 1.02 | mg/kg | FF015098.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 1.07 | J | 1 | 0.98 | 1.70 | mg/kg | FF015098.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.05 | U | 1 | 2.05 | 2.73 | mg/kg | FF015098.D |
| Total AliphaticEPH | Total AliphaticEPH | 4.32 | J | | 3.60 | 6.13 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 3.69 | U | | 3.69 | 6.13 | mg/kg | |
| Total EPH | Total EPH | 7.29 | U | | 7.29 | 12.3 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 97.6 |
| 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 |
|---|---|---|---|---|
| FG014867.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.39 | U | 0.39 | 1.02 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.47 | J | 0.25 | 0.68 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.38 | J | 0.31 | 1.02 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 1.11 | J | 0.82 | 1.36 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 2.36 | | 1.84 | 2.05 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 33.8 | | 40 - 140 | 68% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-10 | Acq On: | 19 Nov 2024 12:44 |
| Client Sample ID: | PH2-BOT-005 | Operator: | YP\AJ |
| Data file: | FG014867.D | Misc: | |
| Instrument: | FID_G | ALS Vial: | 25 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.218 | 6.839 | 473733 | 3.428 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.840 | 10.283 | 973736 | 6.947 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.284 | 13.654 | 748435 | 5.568 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.655 | 17.319 | 2004593 | 16.228 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.320 | 22.248 | 3594649 | 34.667 | 600 | ug/ml |
| Aliphatic EPH | 3.218 | 22.248 | 7795146 | 66.838 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.386 | 13.386 | 3755030 | 33.79 | | ug/ml |
| Aliphatic C9-C28 | 3.218 | 17.319 | 4200497 | 32.171 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 97.6 |
| 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 |
|---|---|---|---|---|
| FF015098.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | | 0.31 | U | 0.31 | 0.68 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | | 0.35 | U | 0.35 | 1.02 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | | 1.07 | J | 0.98 | 1.70 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | | 2.05 | U | 2.05 | 2.73 | mg/kg |
| **SURROGATES** | | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | | 52.4 | | 40 - 140 | 105% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | | 47.8 | | 40 - 140 | 96% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 28.7 | | 40 - 140 | 57% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4860-10 | Acq On: | 19 Nov 2024 12:44 |
| Client Sample ID: | PH2-BOT-005 | Operator: | YP\AJ |
| Data file: | FF015098.D | Misc: | |
| Instrument: | FID_F | ALS Vial: | 75 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.496 | 6.362 | 232684 | 1.701 | 200 | ug/ml |
| Aromatic C12-C16 | 6.363 | 9.056 | 159034 | 1.178 | 300 | ug/ml |
| Aromatic C16-C21 | 9.057 | 13.369 | 2008438 | 15.704 | 500 | ug/ml |
| Aromatic C21-C36 | 13.370 | 18.810 | 1475859 | 12.11 | 800 | ug/ml |
| Aromatic EPH | 4.496 | 18.810 | 3876015 | 30.693 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.988 | 7.988 | 6398539 | 52.4 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.861 | 8.861 | 3905320 | 47.84 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.922 | 11.922 | 3854256 | 28.73 | | ug/ml |

# QC SUMMARY

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## SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM CASE No.: P4860 SAS No.: P4860 SDG No.: P4860

Run Number: FC111824AL

| Client SAMPLE NO. | 1-chlorooctadecane (SURR) | | | TOT OUT |
|---|---|---|---|---|
| EX-4-TPH-6MS | 78 | | | 0 |
| EX-4-TPH-6MSD | 77 | | | 0 |
| PH2-BOT-002 | 76 | | | 0 |
| PH2-BOT-003 | 58 | | | 0 |
| PH2-BOT-004 | 52 | | | 0 |
| PH2-BOT-009 | 55 | | | 0 |
| PB165032BL | 75 | | | 0 |
| PB165032BS | 65 | | | 0 |
| PB165032BSD | 64 | | | 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: CORN02

Lab Code: CHEM CASE No.: P4860 SAS No.: P4860 SDG No.: P4860

Run Number: FD111824AR

| Client SAMPLE NO. | 2-Bromonaphthalene (SURR) | 2-Flurobiphenyl (SURR) | ortho-Terphenyl (SURR) | TOT OUT |
|---|---|---|---|---|
| EX-4-TPH-6MS | 102 | 101 | 78 | 0 |
| EX-4-TPH-6MSD | 102 | 101 | 77 | 0 |
| DUP-01 | 105 | 108 | 57 | 0 |
| PH2-BOT-001 | 115 | 118 | 67 | 0 |
| PH2-BOT-002 | 94 | 81 | 77 | 0 |
| PH2-BOT-003 | 98 | 99 | 44 | 0 |
| PH2-BOT-004 | 116 | 112 | 64 | 0 |
| PH2-BOT-009 | 90 | 87 | 55 | 0 |
| PB165032BL | 104 | 102 | 96 | 0 |
| PB165032BS | 92 | 84 | 79 | 0 |
| PB165032BSD | 94 | 85 | 80 | 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: CORN02

Lab Code: CHEM CASE No.: P4860 SAS No.: P4860 SDG No.: P4860

Run Number: FF111924AR

| Client SAMPLE NO. | 2-Bromonaphthalene (SURR) | 2-Flurobiphenyl (SURR) | ortho-Terphenyl (SURR) | TOT OUT |
|---|---|---|---|---|
| PH2-BOT-008 | 102 | 91 | 80 | 0 |
| PH2-BOT-007 | 104 | 97 | 49 | 0 |
| PH2-BOT-006 | 104 | 100 | 57 | 0 |
| PH2-BOT-005 | 105 | 96 | 57 | 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: CORN02

Lab Code: CHEM CASE No.: P4860 SAS No.: P4860 SDG No.: P4860

Run Number: FG111924AL

| Client SAMPLE NO. | 1-chlorooctadecane (SURR) | | | TOT OUT |
|---|---|---|---|---|
| DUP-01 | 68 | | | 0 |
| PH2-BOT-001 | 85 | | | 0 |
| PH2-BOT-008 | 81 | | | 0 |
| PH2-BOT-007 | 63 | | | 0 |
| PH2-BOT-006 | 69 | | | 0 |
| PH2-BOT-005 | 68 | | | 0 |

| | QC LIMITS |
|---|---|
| 1-chlorooctadecane (SURR) | (40-140) |

# Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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## SOIL EPH SURROGATE RECOVERY

| | 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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## SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Tetra Tech

**Lab Code:** CHEM **Cas No:** P4860 **SAS No :** P4860 **SDG No:** P4860

**Sample No :** P4839-22MS **Datafile:** FC067811.D

**Client ID :** EX-4-TPH-6MS

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 11.2 | 0.72 | 7.95 | 65 | | (40-140) |
| Aliphatic C12-C16 | 7.4 | 0.90 | 7.89 | 94 | | (40-140) |
| Aliphatic C16-C21 | 11.2 | 0 | 10.9 | 98 | | (40-140) |
| Aliphatic C21-C28 | 14.9 | 0 | 14.1 | 95 | | (40-140) |
| Aliphatic C28-C40 | 22.3 | 7.11 | 26.5 | 87 | | (40-140) |

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## SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Tetra Tech

**Lab Code:** CHEM **Cas No:** P4860 **SAS No :** P4860 **SDG No:** P4860

**Sample No :** P4839-22MSD **Datafile:** FC067812.D

**Client ID :** EX-4-TPH-6MSD

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | RPD \| | QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 11.2 | 0.72 | 7.66 | 62 | | 4.09 \| | (40-140) | 25 |
| Aliphatic C12-C16 | 7.4 | 0.90 | 7.36 | 87 | | 7.74 \| | (40-140) | 25 |
| Aliphatic C16-C21 | 11.2 | 0 | 10.6 | 95 | | 2.8 \| | (40-140) | 25 |
| Aliphatic C21-C28 | 14.9 | 0 | 13.8 | 93 | | 2.03 \| | (40-140) | 25 |
| Aliphatic C28-C40 | 22.3 | 7.11 | 26.0 | 85 | | 2.45 \| | (40-140) | 25 |

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## SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Tetra Tech

**Lab Code:** CHEM **Cas No:** P4860 **SAS No :** P4860 **SDG No:** P4860

**Sample No :** P4839-22MS **Datafile:** FD048770.D

**Client ID :** EX-4-TPH-6MS

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 7.4 | 0 | 6.32 | 85 | | (40-140) |
| Aromatic C12-C16 | 11.2 | 0.53 | 14.1 | 121 | | (40-140) |
| Aromatic C16-C21 | 18.6 | 1.10 | 23.4 | 119 | | (40-140) |
| Aromatic C21-C36 | 29.8 | 0 | 37.8 | 126 | | (40-140) |

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## SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Tetra Tech

**Lab Code:** CHEM **Cas No:** P4860 **SAS No :** P4860 **SDG No:** P4860

**Sample No :** P4839-22MSD **Datafile:** FD048771.D

**Client ID :** EX-4-TPH-6MSD

| 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 | 7.4 | 0 | 6.28 | 84 | | 0.59 \| | (40-140) | 25 |
| Aromatic C12-C16 | 11.2 | 0.53 | 15.1 | 130 | | 7.17 \| | (40-140) | 25 |
| Aromatic C16-C21 | 18.6 | 1.10 | 22.7 | 116 | | 2.55 \| | (40-140) | 25 |
| Aromatic C21-C36 | 29.7 | 0 | 37.6 | 126 | | 0 \| | (40-140) | 25 |

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## SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Tetra Tech

**Lab Code:** CHEM **Cas No:** P4860 **SAS No :** P4860 **SDG No:** P4860

**Sample No :** PB165032BS **Datafile:** FC067808.D

**Client ID :** PB165032BS

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 10 | 6.39 | 64 | | (40-140) |
| Aliphatic C12-C16 | 6.7 | 5.31 | 80 | | (40-140) |
| Aliphatic C16-C21 | 10 | 8.07 | 81 | | (40-140) |
| Aliphatic C21-C28 | 13.3 | 10.4 | 78 | | (40-140) |
| Aliphatic C28-C40 | 20.0 | 17.7 | 89 | | (40-140) |

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## SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Tetra Tech

**Lab Code:** CHEM **Cas No:** P4860 **SAS No :** P4860 **SDG No:** P4860

**Sample No :** PB165032BSD **Datafile:** FC067809.D

**Client ID :** PB165032BSD

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | RPD \| QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 10 | 6.37 | 64 | | 0.214\| (40-140) | 50 |
| Aliphatic C12-C16 | 6.7 | 5.32 | 80 | | 0.22\| (40-140) | 50 |
| Aliphatic C16-C21 | 10 | 8.08 | 81 | | 0.09\| (40-140) | 50 |
| Aliphatic C21-C28 | 13.3 | 10.4 | 78 | | 0.0281\|(40-140) | 50 |
| Aliphatic C28-C40 | 20.0 | 17.7 | 89 | | 0.0129\|(40-140) | 50 |

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## SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Tetra Tech

**Lab Code:** CHEM **Cas No:** P4860 **SAS No :** P4860 **SDG No:** P4860

**Sample No :** PB165032BS **Datafile:** FD048767.D

**Client ID :** PB165032BS

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 6.7 | 5.16 | 78 | | (40-140) |
| Aromatic C12-C16 | 10 | 9.14 | 92 | | (40-140) |
| Aromatic C16-C21 | 16.7 | 16.7 | 100 | | (40-140) |
| Aromatic C21-C36 | 26.6 | 26.3 | 99 | | (40-140) |

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## SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Tetra Tech

**Lab Code:** CHEM **Cas No:** P4860 **SAS No :** P4860 **SDG No:** P4860

**Sample No :** PB165032BSD **Datafile:** FD048768.D

**Client ID :** PB165032BSD

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | RPD \| | QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 6.7 | 5.24 | 79 | | 1.5\| | (40-140) | 50 |
| Aromatic C12-C16 | 10 | 9.30 | 93 | | 1.7\| | (40-140) | 50 |
| Aromatic C16-C21 | 16.7 | 17.0 | 102 | | 2.1\| | (40-140) | 50 |
| Aromatic C21-C36 | 26.6 | 26.7 | 100 | | 1.5\| | (40-140) | 50 |

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB165032BL

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

Instrument ID: FID_C Lab Sample ID: PB165032BL

Matrix: (soil/water) Solid Date Extracted: 11/16/2024 9:30:00

Level: (low/med) low

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

| EPA SAMPLE NO. | LAB SAMPLE ID |
|---|---|
| PB165032BS | PB165032BS |
| PB165032BSD | PB165032BSD |
| EX-4-TPH-6MS | P4839-22MS |
| EX-4-TPH-6MSD | P4839-22MSD |
| DUP-01 | P4860-01 |
| PH2-BOT-001 | P4860-02 |
| PH2-BOT-002 | P4860-03 |
| PH2-BOT-003 | P4860-04 |
| PH2-BOT-004 | P4860-05 |
| PH2-BOT-009 | P4860-06 |
| PH2-BOT-008 | P4860-07 |
| PH2-BOT-007 | P4860-08 |
| PH2-BOT-006 | P4860-09 |
| PH2-BOT-005 | P4860-10 |

COMMENTS:

# QC SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165032BL | SDG No.: | P4860 |
| Lab Sample ID: | PB165032BL | 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 |
|---|---|---|
| 11/16/24 09:30 | 11/18/24 15:27 | PB165032 |

| 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 | FC067807.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.24 | U | 1 | 0.24 | 0.67 | mg/kg | FC067807.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.30 | U | 1 | 0.30 | 1.00 | mg/kg | FC067807.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.80 | U | 1 | 0.80 | 1.33 | mg/kg | FC067807.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.80 | U | 1 | 1.80 | 2.00 | mg/kg | FC067807.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.30 | U | 1 | 0.30 | 0.67 | mg/kg | FD048766.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.34 | U | 1 | 0.34 | 1.00 | mg/kg | FD048766.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 0.96 | U | 1 | 0.96 | 1.67 | mg/kg | FD048766.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.00 | U | 1 | 2.00 | 2.67 | mg/kg | FD048766.D |
| Total AliphaticEPH | Total AliphaticEPH | 3.52 | U | | 3.52 | 6.00 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 3.60 | U | | 3.60 | 6.01 | mg/kg | |
| Total EPH | Total EPH | 7.12 | U | | 7.12 | 12.0 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165032BL | SDG No.: | P4860 |
| Lab Sample ID: | PB165032BL | 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 |
|---|---|---|---|---|
| FC067807.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.38 | U | 0.38 | 1.00 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.24 | U | 0.24 | 0.67 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.30 | U | 0.30 | 1.00 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 0.80 | U | 0.80 | 1.33 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 1.80 | U | 1.80 | 2.00 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 37.7 | | 40 - 140 | 75% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB165032BL | Acq On: | 18 Nov 2024 15:27 |
| Client Sample ID: | PB165032BL | Operator: | YP/AJ |
| Data file: | FC067807.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 | 3.172 | 6.448 | 0 | 0 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 0 | 0 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 0 | 0 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 0 | 0 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 0 | 0 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 0 | 0 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.930 | 12.930 | 5471332 | 37.69 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 0 | 0 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165032BL | SDG No.: | P4860 |
| Lab Sample ID: | PB165032BL | 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 |
|---|---|---|---|---|
| FD048766.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.30 | U | 0.30 | 0.67 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.34 | U | 0.34 | 1.00 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 0.96 | U | 0.96 | 1.67 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.00 | U | 2.00 | 2.67 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 52.1 | | 40 - 140 | 104% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 51.2 | | 40 - 140 | 102% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 47.9 | | 40 - 140 | 96% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB165032BL | Acq On: | 18 Nov 2024 15:27 |
| Client Sample ID: | PB165032BL | Operator: | YP/AJ |
| Data file: | FD048766.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 | 5.805 | 0 | 0 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 0 | 0 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 0 | 0 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 0 | 0 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 0 | 0 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.367 | 7.367 | 9167743 | 52.07 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.216 | 8.216 | 5897989 | 51.21 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.255 | 11.255 | 9202508 | 47.85 | | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | | |
| Project: | Ocean County Landfill 2024 | | Date Received: | | |
| Client Sample ID: | PB165032BS | | SDG No.: | P4860 | |
| Lab Sample ID: | PB165032BS | | 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 |
|---|---|---|
| 11/16/24 09:30 | 11/18/24 16:03 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 6.39 | | 1 | 0.38 | 1.00 | mg/kg | FC067808.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 5.31 | | 1 | 0.24 | 0.67 | mg/kg | FC067808.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.07 | | 1 | 0.30 | 1.00 | mg/kg | FC067808.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 10.4 | | 1 | 0.80 | 1.33 | mg/kg | FC067808.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 17.7 | | 1 | 1.80 | 2.00 | mg/kg | FC067808.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 5.16 | | 1 | 0.30 | 0.67 | mg/kg | FD048767.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 9.14 | | 1 | 0.34 | 1.00 | mg/kg | FD048767.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 16.7 | | 1 | 0.96 | 1.67 | mg/kg | FD048767.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 26.3 | | 1 | 2.00 | 2.66 | mg/kg | FD048767.D |
| Total AliphaticEPH | Total AliphaticEPH | 47.9 | | | 3.52 | 5.99 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 57.3 | | | 3.60 | 6.00 | mg/kg | |
| Total EPH | Total EPH | 105 | | | 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165032BS | SDG No.: | P4860 |
| Lab Sample ID: | PB165032BS | 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 |
|---|---|---|---|---|
| FC067808.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 6.39 | | 0.38 | 1.00 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 5.31 | | 0.24 | 0.67 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.07 | | 0.30 | 1.00 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 10.4 | | 0.80 | 1.33 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 17.7 | | 1.80 | 2.00 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 32.6 | | 40 - 140 | 65% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB165032BS | Acq On: | 18 Nov 2024 16:03 |
| Client Sample ID: | PB165032BS | Operator: | YP/AJ |
| Data file: | FC067808.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 | 3.172 | 6.448 | 15894235 | 95.869 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 13573417 | 79.663 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 20548561 | 121.144 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 24590035 | 156.346 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 32108741 | 265.118 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 106714989 | 718.139 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.930 | 12.930 | 4728305 | 32.57 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 74606248 | 453.022 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165032BS | SDG No.: | P4860 |
| Lab Sample ID: | PB165032BS | 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 |
|---|---|---|---|---|
| FD048767.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 5.16 | | 0.30 | 0.67 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 9.14 | | 0.34 | 1.00 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 16.7 | | 0.96 | 1.67 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 26.3 | | 2.00 | 2.66 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 46.1 | | 40 - 140 | 92% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 41.8 | | 40 - 140 | 84% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 39.3 | | 40 - 140 | 79% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB165032BS | Acq On: | 18 Nov 2024 16:03 |
| Client Sample ID: | PB165032BS | Operator: | YP/AJ |
| Data file: | FD048767.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 | 5.805 | 14872614 | 77.454 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 26402895 | 137.187 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 46569863 | 250.639 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 62025703 | 394.488 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 149871075 | 859.768 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.367 | 7.367 | 8116373 | 46.1 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.217 | 8.217 | 4810184 | 41.77 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.254 | 11.254 | 7565444 | 39.33 | | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | | |
| Project: | Ocean County Landfill 2024 | | Date Received: | | |
| Client Sample ID: | PB165032BSD | | SDG No.: | P4860 | |
| Lab Sample ID: | PB165032BSD | | 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 |
|---|---|---|
| 11/16/24 09:30 | 11/18/24 16:39 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 6.37 | | 1 | 0.38 | 1.00 | mg/kg | FC067809.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 5.32 | | 1 | 0.24 | 0.67 | mg/kg | FC067809.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.08 | | 1 | 0.30 | 1.00 | mg/kg | FC067809.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 10.4 | | 1 | 0.80 | 1.33 | mg/kg | FC067809.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 17.7 | | 1 | 1.80 | 2.00 | mg/kg | FC067809.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 5.24 | | 1 | 0.30 | 0.67 | mg/kg | FD048768.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 9.30 | | 1 | 0.34 | 1.00 | mg/kg | FD048768.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 17.0 | | 1 | 0.96 | 1.67 | mg/kg | FD048768.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 26.7 | | 1 | 2.00 | 2.66 | mg/kg | FD048768.D |
| Total AliphaticEPH | Total AliphaticEPH | 47.9 | | | 3.52 | 5.99 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 58.2 | | | 3.60 | 6.00 | mg/kg | |
| Total EPH | Total EPH | 106 | | | 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: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165032BSD | SDG No.: | P4860 |
| Lab Sample ID: | PB165032BSD | 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 |
|---|---|---|---|---|
| FC067809.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 6.37 | | 0.38 | 1.00 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 5.32 | | 0.24 | 0.67 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.08 | | 0.30 | 1.00 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 10.4 | | 0.80 | 1.33 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 17.7 | | 1.80 | 2.00 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 32.1 | | 40 - 140 | 64% | 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: | PB165032BSD | Acq On: | 18 Nov 2024 16:39 |
| Client Sample ID: | PB165032BSD | Operator: | YP/AJ |
| Data file: | FC067809.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 19 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 15845078 | 95.572 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 13606967 | 79.86 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 20569153 | 121.265 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 24547765 | 156.077 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 32153817 | 265.49 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 106722780 | 718.264 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.929 | 12.929 | 4658064 | 32.09 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 74568963 | 452.774 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | PB165032BSD | SDG No.: | P4860 |
| Lab Sample ID: | PB165032BSD | 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 |
|---|---|---|---|---|
| FD048768.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 5.24 | | 0.30 | 0.67 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 9.30 | | 0.34 | 1.00 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 17.0 | | 0.96 | 1.67 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 26.7 | | 2.00 | 2.66 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 46.9 | | 40 - 140 | 94% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 42.3 | | 40 - 140 | 85% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 40.1 | | 40 - 140 | 80% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB165032BSD | Acq On: | 18 Nov 2024 16:39 |
| Client Sample ID: | PB165032BSD | Operator: | YP/AJ |
| Data file: | FD048768.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 69 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 15119363 | 78.739 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 26863944 | 139.583 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 47409765 | 255.159 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 62943746 | 400.326 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 152336818 | 873.808 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.367 | 7.367 | 8248787 | 46.85 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.217 | 8.217 | 4866638 | 42.26 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.254 | 11.254 | 7710147 | 40.09 | | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | EX-4-TPH-6MS | SDG No.: | P4860 |
| Lab Sample ID: | P4839-22MS | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 89.5 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/18/24 23:41 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 7.95 | | 1 | 0.42 | 1.12 | mg/kg | FC067811.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 7.89 | | 1 | 0.27 | 0.74 | mg/kg | FC067811.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 10.9 | | 1 | 0.34 | 1.12 | mg/kg | FC067811.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 14.1 | | 1 | 0.89 | 1.49 | mg/kg | FC067811.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 26.5 | | 1 | 2.01 | 2.23 | mg/kg | FC067811.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 6.32 | | 1 | 0.34 | 0.74 | mg/kg | FD048770.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 14.1 | | 1 | 0.38 | 1.12 | mg/kg | FD048770.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 23.4 | | 1 | 1.07 | 1.86 | mg/kg | FD048770.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 37.8 | | 1 | 2.23 | 2.98 | mg/kg | FD048770.D |
| Total AliphaticEPH | Total AliphaticEPH | 67.3 | | | 3.93 | 6.70 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 81.6 | | | 4.01 | 6.70 | mg/kg | |
| Total EPH | Total EPH | 149 | | | 7.95 | 13.4 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | EX-4-TPH-6MS | SDG No.: | P4860 |
| Lab Sample ID: | P4839-22MS | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 89.5 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067811.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 7.95 | | 0.42 | 1.12 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 7.89 | | 0.27 | 0.74 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 10.9 | | 0.34 | 1.12 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 14.1 | | 0.89 | 1.49 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 26.5 | | 2.01 | 2.23 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 38.8 | | 40 - 140 | 78% | 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: | P4839-22MS | Acq On: | 18 Nov 2024 23:41 |
| Client Sample ID: | EX-4-TPH-6MS | Operator: | YP/AJ |
| Data file: | FC067811.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 21 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 17702305 | 106.775 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 18056102 | 105.973 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 24915252 | 146.887 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 29761226 | 189.224 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 43058796 | 355.531 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 133493681 | 904.39 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.931 | 12.931 | 5629921 | 38.78 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 90434885 | 548.859 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | EX-4-TPH-6MS | SDG No.: | P4860 |
| Lab Sample ID: | P4839-22MS | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 89.5 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048770.D | 1 | 11/16/24 | 11/18/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 6.32 | | 0.34 | 0.74 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 14.1 | | 0.38 | 1.12 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 23.4 | | 1.07 | 1.86 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 37.8 | | 2.23 | 2.98 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 51.1 | | 40 - 140 | 102% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 50.7 | | 40 - 140 | 101% | 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: | P4839-22MS | Acq On: | 18 Nov 2024 23:41 |
| Client Sample ID: | EX-4-TPH-6MS | Operator: | YP/AJ |
| Data file: | FD048770.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 71 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 16308142 | 84.93 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 36396082 | 189.111 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 58340240 | 313.987 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 79817186 | 507.643 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 190861650 | 1100 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.364 | 7.364 | 9001948 | 51.13 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.214 | 8.214 | 5843108 | 50.73 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.251 | 11.251 | 7463900 | 38.81 | | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | | |
| Project: | Ocean County Landfill 2024 | | Date Received: | | |
| Client Sample ID: | EX-4-TPH-6MSD | | SDG No.: | P4860 | |
| Lab Sample ID: | P4839-22MSD | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 89.5 | |
| Sample Wt/Vol: | 30.05 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/16/24 09:30 | 11/19/24 0:17 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 7.66 | | 1 | 0.42 | 1.12 | mg/kg | FC067812.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 7.36 | | 1 | 0.27 | 0.74 | mg/kg | FC067812.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 10.6 | | 1 | 0.34 | 1.12 | mg/kg | FC067812.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 13.8 | | 1 | 0.89 | 1.49 | mg/kg | FC067812.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 26.0 | | 1 | 2.01 | 2.23 | mg/kg | FC067812.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 6.28 | | 1 | 0.34 | 0.74 | mg/kg | FD048771.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 15.1 | | 1 | 0.38 | 1.12 | mg/kg | FD048771.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 22.7 | | 1 | 1.07 | 1.86 | mg/kg | FD048771.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 37.6 | | 1 | 2.23 | 2.97 | mg/kg | FD048771.D |
| Total AliphaticEPH | Total AliphaticEPH | 65.4 | | | 3.93 | 6.70 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 81.7 | | | 4.01 | 6.69 | mg/kg | |
| Total EPH | Total EPH | 147 | | | 7.94 | 13.4 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | |
| Project: | Ocean County Landfill 2024 | Date Received: | |
| Client Sample ID: | EX-4-TPH-6MSD | SDG No.: | P4860 |
| Lab Sample ID: | P4839-22MSD | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 89.5 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067812.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 7.66 | | 0.42 | 1.12 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 7.36 | | 0.27 | 0.74 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 10.6 | | 0.34 | 1.12 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 13.8 | | 0.89 | 1.49 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 26.0 | | 2.01 | 2.23 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 38.3 | | 40 - 140 | 77% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4839-22MSD | Acq On: | 19 Nov 2024 00:17 |
| Client Sample ID: | EX-4-TPH-6MSD | Operator: | YP/AJ |
| Data file: | FC067812.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 22 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 17073606 | 102.982 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 16855603 | 98.927 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 24105998 | 142.116 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 29192307 | 185.607 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 42350168 | 349.68 | 600 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 129577682 | 879.313 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.929 | 12.929 | 5562605 | 38.32 | | ug/ml |
| Aliphatic C9-C28 | 3.172 | 16.850 | 87227514 | 529.632 | 1200 | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Tetra Tech | | Date Collected: | | |
| Project: | Ocean County Landfill 2024 | | Date Received: | | |
| Client Sample ID: | EX-4-TPH-6MSD | | SDG No.: | P4860 | |
| Lab Sample ID: | P4839-22MSD | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 89.5 | |
| Sample Wt/Vol: | 30.05 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD048771.D | 1 | 11/16/24 | 11/19/24 | PB165032 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 6.28 | | 0.34 | 0.74 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 15.1 | | 0.38 | 1.12 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 22.7 | | 1.07 | 1.86 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 37.6 | | 2.23 | 2.97 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 51.0 | | 40 - 140 | 102% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 50.4 | | 40 - 140 | 101% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 38.6 | | 40 - 140 | 77% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4839-22MSD | Acq On: | 19 Nov 2024 00:17 |
| Client Sample ID: | EX-4-TPH-6MSD | Operator: | YP/AJ |
| Data file: | FD048771.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 72 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.088 | 5.805 | 16223595 | 84.49 | 200 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 39196496 | 203.662 | 300 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 56704572 | 305.184 | 500 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 79449037 | 505.301 | 800 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 191573700 | 1100 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.252 | 11.252 | 7428539 | 38.62 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.366 | 7.366 | 8969471 | 50.95 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.217 | 8.217 | 5798672 | 50.35 | | 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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# Inital Calibration Report for SequenceID : FF111524AR

**AreaCount**

| Parameter Range | FF015043.D | FF015044.D | FF015045.D | FF015046.D | FF015047.D | |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 25624619.000 | 12840457.000 | 5431334.000 | 2862696.000 | 1484837.000 | |
| Aromatic C12-C16 | 38044279.000 | 19112981.000 | 8004546.000 | 4224718.000 | 2199658.000 | |
| Aromatic C16-C21 | 48194073.000 | 24139876.000 | 10075602.000 | 5320691.000 | 2786424.000 | |
| Aromatic C21-C36 | 101218315.000 | 51088854.000 | 21647169.000 | 11444761.000 | 6117333.000 | |
| Aromatic EPH | 213081286.000 | 107182168.000 | 45158651.000 | 23852866.000 | 12588252.000 | |

**AVG Response Factor**

| Parameter Range | AVG RF | % RSD | | | | |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 136785.903 | 6.574 | | | | |
| Aromatic C12-C16 | 135022.207333 | 6.376 | | | | |
| Aromatic C16-C21 | 127893.6125 | 6.392 | | | | |
| Aromatic C21-C36 | 121872.4751108 | 8.067 | | | | |
| Aromatic EPH | 127059.1752218 | 7.206 | | | | |

**Concentration**

| Parameter Range | FF015043.D | FF015044.D | FF015045.D | FF015046.D | FF015047.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 | FF015043.D | FF015044.D | FF015045.D | FF015046.D | FF015047.D | |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 128123.095000 | 128404.570000 | 135783.350000 | 143134.800000 | 148483.700000 | |
| Aromatic C12-C16 | 126814.263333 | 127419.873333 | 133409.100000 | 140823.933333 | 146643.866666 | |
| Aromatic C16-C21 | 120485.182500 | 120699.380000 | 125945.025000 | 133017.275000 | 139321.200000 | |
| Aromatic C21-C36 | 112464.794444 | 113530.786666 | 120262.050000 | 127164.011111 | 135940.733333 | |
| Aromatic EPH | 118378.492222 | 119091.297777 | 125440.697222 | 132515.922222 | 139869.466666 | |

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# Inital Calibration Report for SequenceID : FG111424AL

**AreaCount**

| Parameter Range | FG014781.D | FG014782.D | FG014783.D | FG014784.D | FG014785.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 38805094.000 | 20087988.000 | 8323102.000 | 4325002.000 | 2172741.000 | |
| Aliphatic C12-C16 | 26315857.000 | 13655201.000 | 5635513.000 | 2924710.000 | 1455701.000 | |
| Aliphatic C16-C21 | 37884451.000 | 19728051.000 | 8108918.000 | 4211614.000 | 2081364.000 | |
| Aliphatic C21-C28 | 46060625.000 | 23943174.000 | 9959110.000 | 5094088.000 | 2618725.000 | |
| Aliphatic C28-C40 | 54036142.000 | 28551913.000 | 12655939.000 | 6548947.000 | 3558141.000 | |
| Aliphatic EPH | 203102169.000 | 105966327.000 | 44682582.000 | 23104361.000 | 11886672.000 | |

**AVG Response Factor**

| Parameter Range | AVG RF | % RSD | | | | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 138200.9466664 | 4.81 | | | | |
| Aliphatic C12-C16 | 140164.944 | 4.418 | | | | |
| Aliphatic C16-C21 | 134419.0419998 | 4.235 | | | | |
| Aliphatic C21-C28 | 123528.9515 | 5.041 | | | | |
| Aliphatic C28-C40 | 103690.6509996 | 10.929 | | | | |
| Aliphatic EPH | 123024.9758886 | 6.339 | | | | |

**Concentration**

| Parameter Range | FG014781.D | FG014782.D | FG014783.D | FG014784.D | FG014785.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 | FG014781.D | FG014782.D | FG014783.D | FG014784.D | FG014785.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 129350.313333 | 133919.920000 | 138718.366666 | 144166.733333 | 144849.400000 | |
| Aliphatic C12-C16 | 131579.285000 | 136552.010000 | 140887.825000 | 146235.500000 | 145570.100000 | |
| Aliphatic C16-C21 | 126281.503333 | 131520.340000 | 135148.633333 | 140387.133333 | 138757.600000 | |

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Inital Calibration Report for SequenceID : FG111424AL

| | | | | | | |
|---|---|---|---|---|---|---|
| Aliphatic C21-C28 | 115151.562500 | 119715.870000 | 124488.875000 | 127352.200000 | 130936.250000 | |
| Aliphatic C28-C40 | 90060.236666 | 95173.043333 | 105466.158333 | 109149.116666 | 118604.700000 | |
| Aliphatic EPH | 112834.538333 | 117740.363333 | 124118.283333 | 128357.561111 | 132074.133333 | |

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# Continuing Calibration Report for SequenceID : FC111824AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FC067806.D** | | | | | | |
| Aliphatic C9-C12 | 10808106.000 | 60.000 | 3.172 | 6.448 | 180135.100 | 165791.359 | -8.652 |
| Aliphatic C12-C16 | 7299351.000 | 40.000 | 6.449 | 9.838 | 182483.775 | 170384.422 | -7.101 |
| Aliphatic C16-C21 | 10410399.000 | 60.000 | 9.839 | 13.196 | 173506.650 | 169621.553 | -2.290 |
| Aliphatic C21-C28 | 13177298.000 | 80.000 | 13.197 | 16.850 | 164716.225 | 157280.060 | -4.728 |
| Aliphatic C28-C40 | 14787957.000 | 120.000 | 16.851 | 21.691 | 123232.975 | 121111.336 | -1.752 |
| Aliphatic EPH | 56483111.000 | 360.000 | 3.172 | 21.691 | 156897.531 | 150155.324 | -4.490 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 18 Nov 2024 14:50 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FC067806.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 2 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 10808106.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 7299351.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 10410399.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 13177298.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 14787957.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 56483111.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FC111824AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FC067818.D** | | | | | | |
| Aliphatic C9-C12 | 9264897.000 | 60.000 | 3.172 | 6.448 | 154414.950 | 165791.359 | 6.862 |
| Aliphatic C12-C16 | 6368128.000 | 40.000 | 6.449 | 9.838 | 159203.200 | 170384.422 | 6.562 |
| Aliphatic C16-C21 | 9355867.000 | 60.000 | 9.839 | 13.196 | 155931.117 | 169621.553 | 8.071 |
| Aliphatic C21-C28 | 11909221.000 | 80.000 | 13.197 | 16.850 | 148865.263 | 157280.060 | 5.350 |
| Aliphatic C28-C40 | 13299776.000 | 120.000 | 16.851 | 21.691 | 110831.467 | 121111.336 | 8.488 |
| Aliphatic EPH | 50197889.000 | 360.000 | 3.172 | 21.691 | 139438.581 | 150155.324 | 7.137 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 19 Nov 2024 10:04 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FC067818.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 2 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.172 | 6.448 | 9264897.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.449 | 9.838 | 6368128.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 9.839 | 13.196 | 9355867.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.197 | 16.850 | 11909221.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 16.851 | 21.691 | 13299776.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.172 | 21.691 | 50197889.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FD111824AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FD048757.D** | | | | | | |
| Aromatic EPH | 69408621.000 | 360.000 | 4.088 | 18.081 | 192801.725 | 173317.266 | -11.242 |
| Aromatic C10-C12 | 8631046.000 | 40.000 | 4.088 | 5.805 | 215776.150 | 192017.544 | -12.373 |
| Aromatic C12-C16 | 12868534.000 | 60.000 | 5.806 | 8.411 | 214475.567 | 192458.977 | -11.440 |
| Aromatic C16-C21 | 16327633.000 | 80.000 | 8.412 | 12.674 | 204095.413 | 185804.816 | -9.844 |
| Aromatic C21-C36 | 31581408.000 | 180.000 | 12.675 | 18.081 | 175452.267 | 157231.056 | -11.589 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 18 Nov 2024 08:49 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FD048757.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 | 8631046.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 12868534.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 16327633.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 31581408.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 69408621.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FD111824AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FD048765.D** | | | | | | |
| Aromatic EPH | 63335238.000 | 360.000 | 4.088 | 18.081 | 175931.217 | 173317.266 | -1.508 |
| Aromatic C10-C12 | 7925969.000 | 40.000 | 4.088 | 5.805 | 198149.225 | 192017.544 | -3.193 |
| Aromatic C12-C16 | 11827424.000 | 60.000 | 5.806 | 8.411 | 197123.733 | 192458.977 | -2.424 |
| Aromatic C16-C21 | 14986986.000 | 80.000 | 8.412 | 12.674 | 187337.325 | 185804.816 | -0.825 |
| Aromatic C21-C36 | 28594859.000 | 180.000 | 12.675 | 18.081 | 158860.328 | 157231.056 | -1.036 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 18 Nov 2024 14:50 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FD048765.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 | 7925969.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 11827424.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 14986986.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 28594859.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 63335238.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FD111824AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FD048777.D** | | | | | | |
| Aromatic EPH | 63794665.000 | 360.000 | 4.088 | 18.081 | 177207.403 | 173317.266 | -2.245 |
| Aromatic C10-C12 | 8114088.000 | 40.000 | 4.088 | 5.805 | 202852.200 | 192017.544 | -5.643 |
| Aromatic C12-C16 | 12005896.000 | 60.000 | 5.806 | 8.411 | 200098.267 | 192458.977 | -3.969 |
| Aromatic C16-C21 | 15169934.000 | 80.000 | 8.412 | 12.674 | 189624.175 | 185804.816 | -2.056 |
| Aromatic C21-C36 | 28504747.000 | 180.000 | 12.675 | 18.081 | 158359.706 | 157231.056 | -0.718 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 19 Nov 2024 10:04 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FD048777.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 | 8114088.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 5.806 | 8.411 | 12005896.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 8.412 | 12.674 | 15169934.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 12.675 | 18.081 | 28504747.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.088 | 18.081 | 63794665.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FF111924AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FF015093.D** | | | | | | |
| Aromatic C10-C12 | 6013023.000 | 40.000 | 4.496 | 6.362 | 150325.575 | 136785.903 | -9.898 |
| Aromatic C12-C16 | 8810960.000 | 60.000 | 6.363 | 9.056 | 146849.333 | 135022.207 | -8.759 |
| Aromatic C16-C21 | 10961897.000 | 80.000 | 9.057 | 13.369 | 137023.713 | 127893.613 | -7.139 |
| Aromatic C21-C36 | 22610114.000 | 180.000 | 13.370 | 18.810 | 125611.744 | 121872.475 | -3.068 |
| Aromatic EPH | 48395994.000 | 360.000 | 4.496 | 18.810 | 134433.317 | 127059.175 | -5.804 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 19 Nov 2024 10:15 |
| Client Sample ID: | | Operator: | YP\AJ |
| Data file: | FF015093.D | Misc: | |
| Instrument: | FID_F | ALS Vial: | 61 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.496 | 6.362 | 6013023.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 6.363 | 9.056 | 8810960.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 9.057 | 13.369 | 10961897.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 13.370 | 18.810 | 22610114.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.496 | 18.810 | 48395994.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FF111924AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FF015100.D** | | | | | | |
| Aromatic C10-C12 | 6030567.000 | 40.000 | 4.496 | 6.362 | 150764.175 | 136785.903 | -10.219 |
| Aromatic C12-C16 | 8822475.000 | 60.000 | 6.363 | 9.056 | 147041.250 | 135022.207 | -8.902 |
| Aromatic C16-C21 | 10964920.000 | 80.000 | 9.057 | 13.369 | 137061.500 | 127893.613 | -7.168 |
| Aromatic C21-C36 | 22282513.000 | 180.000 | 13.370 | 18.810 | 123791.739 | 121872.475 | -1.575 |
| Aromatic EPH | 48100475.000 | 360.000 | 4.496 | 18.810 | 133612.431 | 127059.175 | -5.158 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 19 Nov 2024 14:11 |
| Client Sample ID: | | Operator: | YP\AJ |
| Data file: | FF015100.D | Misc: | |
| Instrument: | FID_F | ALS Vial: | 61 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.496 | 6.362 | 6030567.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 6.363 | 9.056 | 8822475.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 9.057 | 13.369 | 10964920.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 13.370 | 18.810 | 22282513.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.496 | 18.810 | 48100475.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FG111924AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FG014862.D** | | | | | | |
| Aliphatic C9-C12 | 7716226.000 | 60.000 | 3.218 | 6.839 | 128603.767 | 138200.947 | 6.944 |
| Aliphatic C12-C16 | 5227929.000 | 40.000 | 6.840 | 10.283 | 130698.225 | 140164.944 | 6.754 |
| Aliphatic C16-C21 | 7732718.000 | 60.000 | 10.284 | 13.654 | 128878.633 | 134419.042 | 4.122 |
| Aliphatic C21-C28 | 9435176.000 | 80.000 | 13.655 | 17.319 | 117939.700 | 123528.952 | 4.525 |
| Aliphatic C28-C40 | 10421500.000 | 120.000 | 17.320 | 22.248 | 86845.833 | 103690.651 | 16.245 |
| Aliphatic EPH | 40533549.000 | 360.000 | 3.218 | 22.248 | 112593.192 | 123024.976 | 8.479 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 19 Nov 2024 10:15 |
| Client Sample ID: | | Operator: | YP\AJ |
| Data file: | FG014862.D | Misc: | |
| Instrument: | FID_G | ALS Vial: | 11 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.218 | 6.839 | 7716226.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.840 | 10.283 | 5227929.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 10.284 | 13.654 | 7732718.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.655 | 17.319 | 9435176.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 17.320 | 22.248 | 10421500.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.218 | 22.248 | 40533549.000 | 360.000 | ug/ml |

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



# Continuing Calibration Report for SequenceID : FG111924AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FG014871.D** | | | | | | |
| Aliphatic C9-C12 | 7754881.000 | 60.000 | 3.218 | 6.839 | 129248.017 | 138200.947 | 6.478 |
| Aliphatic C12-C16 | 5244895.000 | 40.000 | 6.840 | 10.283 | 131122.375 | 140164.944 | 6.451 |
| Aliphatic C16-C21 | 7664939.000 | 60.000 | 10.284 | 13.654 | 127748.983 | 134419.042 | 4.962 |
| Aliphatic C21-C28 | 9297761.000 | 80.000 | 13.655 | 17.319 | 116222.013 | 123528.952 | 5.915 |
| Aliphatic C28-C40 | 10532125.000 | 120.000 | 17.320 | 22.248 | 87767.708 | 103690.651 | 15.356 |
| Aliphatic EPH | 40494601.000 | 360.000 | 3.218 | 22.248 | 112485.003 | 123024.976 | 8.567 |

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Fax : 908 789 8922



| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 19 Nov 2024 14:40 |
| Client Sample ID: | | Operator: | YP\AJ |
| Data file: | FG014871.D | Misc: | |
| Instrument: | FID_G | ALS Vial: | 11 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.218 | 6.839 | 7754881.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.840 | 10.283 | 5244895.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 10.284 | 13.654 | 7664939.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.655 | 17.319 | 9297761.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 17.320 | 22.248 | 10532125.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.218 | 22.248 | 40494601.000 | 360.000 | ug/ml |

# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014868.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 13:12
Operator : YP\AJ
Sample : P4860-01
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
DUP-01

Integration File: autoint1.e
Quant Time: Nov 20 00:36:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 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... | 13.385 | 3804504 | 34.235 ug/ml |
| Spiked Amount 50.000 | | Recovery = 68.47% | |
| Target Compounds | | | |

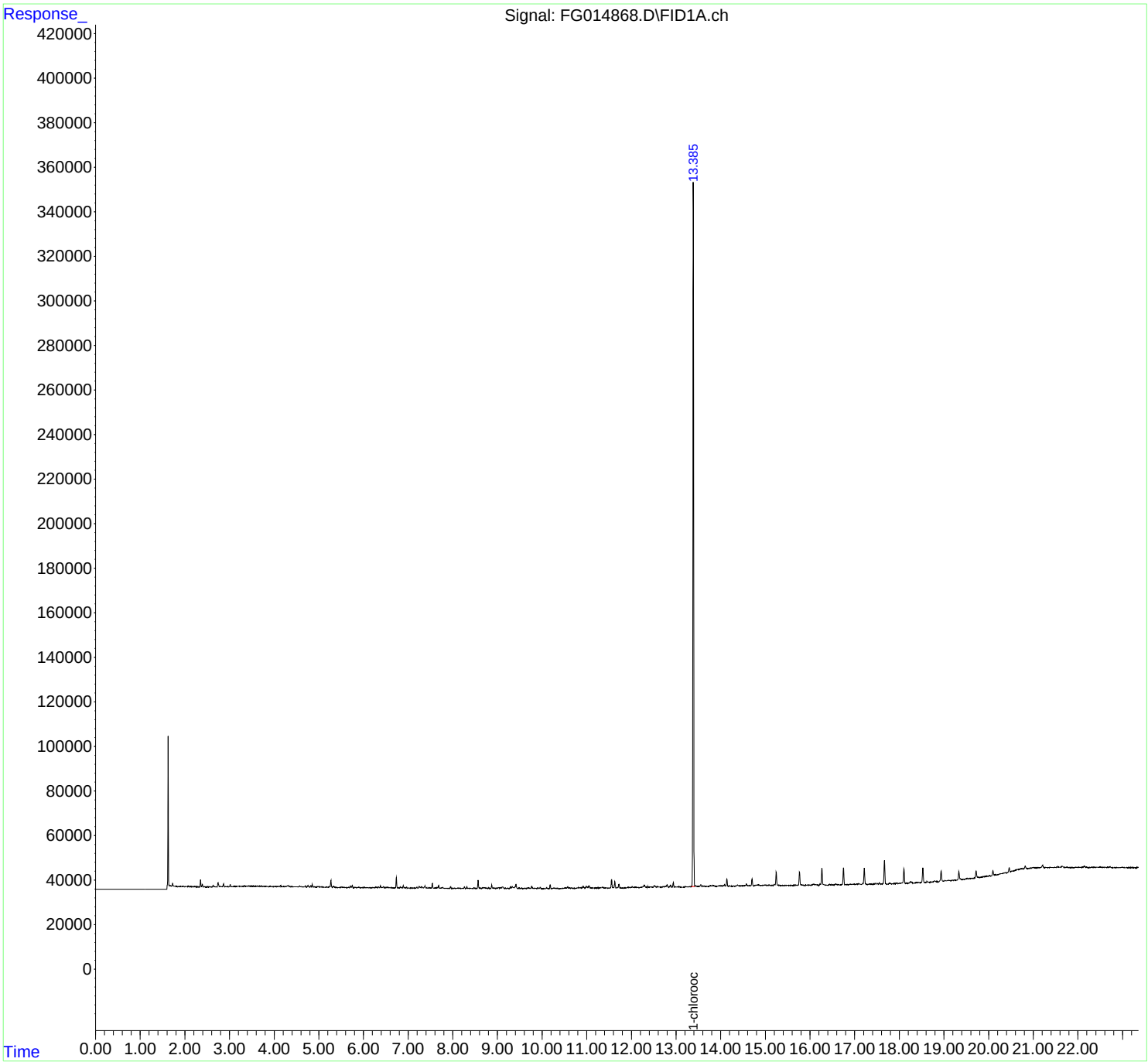
(f)=RT Delta > 1/2 Window (m)=manual int.

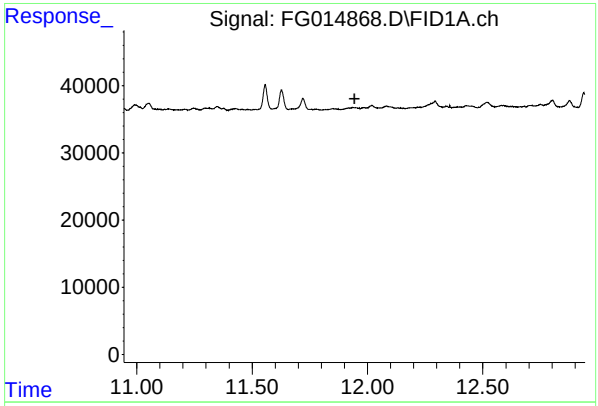
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014868.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 13:12
Operator : YP\AJ
Sample : P4860-01
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
DUP-01

Integration File: autoint1.e
Quant Time: Nov 20 00:36:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

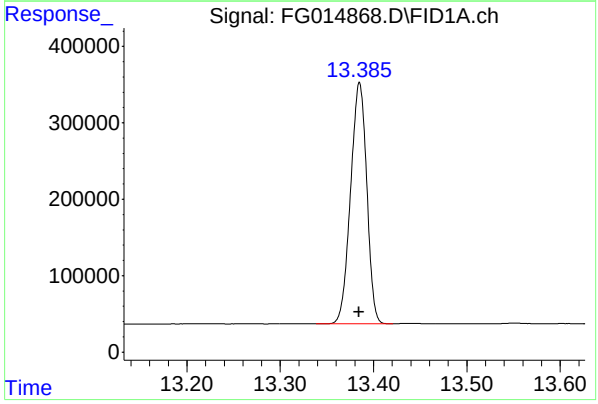





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.944 min
Response: 0
Conc: N.D.

**Instrument :**
FID_G
**ClientSampleId :**
DUP-01




#12 1-chlorooctadecane (SURR)

R.T.: 13.385 min
Delta R.T.: 0.000 min
Response: 3804504
Conc: 34.24 ug/ml

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014868.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 13:12
Sample : P4860-01
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\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 | 3.244 | 3.221 | 3.301 | BV | 56 | 2477 | 0.06% | 0.025% |
| 2 | 3.321 | 3.301 | 3.338 | VV | 270 | 3374 | 0.09% | 0.035% |
| 3 | 3.347 | 3.338 | 3.378 | VV | 149 | 2896 | 0.08% | 0.030% |
| 4 | 3.382 | 3.378 | 3.397 | VV | 128 | 1292 | 0.03% | 0.013% |
| 5 | 3.440 | 3.397 | 3.472 | VV | 305 | 6930 | 0.18% | 0.071% |
| 6 | 3.507 | 3.472 | 3.584 | VV | 207 | 11536 | 0.30% | 0.119% |
| 7 | 3.601 | 3.584 | 3.611 | VV | 234 | 3336 | 0.09% | 0.034% |
| 8 | 3.620 | 3.611 | 3.653 | VV | 269 | 5240 | 0.14% | 0.054% |
| 9 | 3.657 | 3.653 | 3.689 | VV | 249 | 4248 | 0.11% | 0.044% |
| 10 | 3.708 | 3.689 | 3.744 | VV | 335 | 6390 | 0.17% | 0.066% |
| 11 | 3.764 | 3.744 | 3.786 | VV | 213 | 3796 | 0.10% | 0.039% |
| 12 | 3.797 | 3.786 | 3.868 | VV | 190 | 6045 | 0.16% | 0.062% |
| 13 | 3.879 | 3.868 | 3.888 | VV | 123 | 1222 | 0.03% | 0.013% |
| 14 | 3.904 | 3.888 | 3.921 | VV | 267 | 3480 | 0.09% | 0.036% |
| 15 | 3.927 | 3.921 | 3.984 | VV | 203 | 4398 | 0.12% | 0.045% |
| 16 | 3.999 | 3.984 | 4.085 | VV | 207 | 6459 | 0.17% | 0.066% |
| 17 | 4.111 | 4.085 | 4.128 | VV | 379 | 5725 | 0.15% | 0.059% |
| 18 | 4.145 | 4.128 | 4.204 | VV | 702 | 10265 | 0.27% | 0.106% |
| 19 | 4.221 | 4.204 | 4.249 | VV | 179 | 3618 | 0.09% | 0.037% |
| 20 | 4.258 | 4.249 | 4.265 | VV | 155 | 1238 | 0.03% | 0.013% |
| 21 | 4.315 | 4.265 | 4.365 | VV | 611 | 19074 | 0.50% | 0.196% |
| 22 | 4.372 | 4.365 | 4.457 | VV | 244 | 9035 | 0.24% | 0.093% |
| 23 | 4.469 | 4.457 | 4.498 | VV | 182 | 4209 | 0.11% | 0.043% |
| 24 | 4.506 | 4.498 | 4.531 | VV | 191 | 3071 | 0.08% | 0.032% |
| 25 | 4.570 | 4.531 | 4.593 | VV | 627 | 10752 | 0.28% | 0.111% |
| 26 | 4.609 | 4.593 | 4.633 | VV | 280 | 5207 | 0.14% | 0.054% |
| 27 | 4.645 | 4.633 | 4.671 | VV | 175 | 3204 | 0.08% | 0.033% |
| 28 | 4.695 | 4.671 | 4.718 | VV | 461 | 8097 | 0.21% | 0.083% |
| 29 | 4.725 | 4.718 | 4.732 | VV | 202 | 1401 | 0.04% | 0.014% |
| 30 | 4.758 | 4.732 | 4.780 | VV | 912 | 12387 | 0.32% | 0.127% |
| 31 | 4.791 | 4.780 | 4.803 | VV | 257 | 2785 | 0.07% | 0.029% |
| 32 | 4.821 | 4.803 | 4.837 | VV | 807 | 9657 | 0.25% | 0.099% |
| 33 | 4.854 | 4.837 | 4.904 | VV | 1305 | 17656 | 0.46% | 0.181% |
| 34 | 4.912 | 4.904 | 4.918 | VV | 210 | 1643 | 0.04% | 0.017% |
| 35 | 4.985 | 4.918 | 5.014 | VV | 412 | 14572 | 0.38% | 0.150% |
| 36 | 5.031 | 5.014 | 5.047 | VV | 308 | 4394 | 0.11% | 0.045% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.066 | 5.047 | 5.095 | VV | 320 | 6085 | 0.16% | 0.063% |
| 38 | 5.104 | 5.095 | 5.135 | VV | 154 | 2433 | 0.06% | 0.025% |
| 39 | 5.151 | 5.135 | 5.160 | VV | 132 | 1597 | 0.04% | 0.016% |
| 40 | 5.184 | 5.160 | 5.205 | VV | 319 | 4815 | 0.13% | 0.049% |
| 41 | 5.271 | 5.205 | 5.310 | VV | 3213 | 45698 | 1.20% | 0.470% |
| 42 | 5.332 | 5.310 | 5.378 | VV | 687 | 11095 | 0.29% | 0.114% |
| 43 | 5.390 | 5.378 | 5.401 | VV | 84 | 1050 | 0.03% | 0.011% |
| 44 | 5.414 | 5.401 | 5.426 | VV | 73 | 878 | 0.02% | 0.009% |
| 45 | 5.451 | 5.426 | 5.464 | PV | 95 | 1170 | 0.03% | 0.012% |
| 46 | 5.479 | 5.464 | 5.500 | VV | 216 | 2873 | 0.08% | 0.030% |
| 47 | 5.517 | 5.500 | 5.542 | VV | 313 | 4478 | 0.12% | 0.046% |
| 48 | 5.563 | 5.542 | 5.574 | VV | 135 | 2068 | 0.05% | 0.021% |
| 49 | 5.583 | 5.574 | 5.626 | VV | 159 | 2562 | 0.07% | 0.026% |
| 50 | 5.669 | 5.626 | 5.682 | PV | 182 | 3050 | 0.08% | 0.031% |
| 51 | 5.705 | 5.682 | 5.722 | VV | 738 | 8856 | 0.23% | 0.091% |
| 52 | 5.750 | 5.722 | 5.795 | VV | 1154 | 16428 | 0.43% | 0.169% |
| 53 | 5.811 | 5.795 | 5.839 | VV | 356 | 4572 | 0.12% | 0.047% |
| 54 | 5.852 | 5.839 | 5.861 | VV | 141 | 1240 | 0.03% | 0.013% |
| 55 | 5.894 | 5.861 | 5.953 | VV | 317 | 8352 | 0.22% | 0.086% |
| 56 | 5.965 | 5.953 | 5.983 | VV | 146 | 2007 | 0.05% | 0.021% |
| 57 | 6.018 | 5.983 | 6.041 | VV | 280 | 5795 | 0.15% | 0.060% |
| 58 | 6.075 | 6.041 | 6.113 | VV | 215 | 5622 | 0.15% | 0.058% |
| 59 | 6.140 | 6.113 | 6.159 | VV | 109 | 1790 | 0.05% | 0.018% |
| 60 | 6.186 | 6.159 | 6.205 | VV | 150 | 2318 | 0.06% | 0.024% |
| 61 | 6.240 | 6.205 | 6.256 | VV | 202 | 3434 | 0.09% | 0.035% |
| 62 | 6.296 | 6.256 | 6.321 | VV | 412 | 10504 | 0.27% | 0.108% |
| 63 | 6.339 | 6.321 | 6.365 | VV | 522 | 7322 | 0.19% | 0.075% |
| 64 | 6.383 | 6.365 | 6.415 | VV | 944 | 13270 | 0.35% | 0.136% |
| 65 | 6.448 | 6.415 | 6.485 | VV | 664 | 12785 | 0.33% | 0.131% |
| 66 | 6.524 | 6.485 | 6.571 | VV | 399 | 13084 | 0.34% | 0.134% |
| 67 | 6.577 | 6.571 | 6.605 | VV | 202 | 3479 | 0.09% | 0.036% |
| 68 | 6.623 | 6.605 | 6.637 | VV | 215 | 3366 | 0.09% | 0.035% |
| 69 | 6.648 | 6.637 | 6.681 | VV | 147 | 3286 | 0.09% | 0.034% |
| 70 | 6.701 | 6.681 | 6.711 | VV | 160 | 2380 | 0.06% | 0.024% |
| 71 | 6.738 | 6.711 | 6.768 | VV | 4748 | 51200 | 1.34% | 0.526% |
| 72 | 6.782 | 6.768 | 6.807 | VV | 170 | 3248 | 0.08% | 0.033% |
| 73 | 6.825 | 6.807 | 6.843 | VV | 588 | 7115 | 0.19% | 0.073% |
| 74 | 6.861 | 6.843 | 6.874 | VV | 381 | 4448 | 0.12% | 0.046% |
| 75 | 6.892 | 6.874 | 6.913 | VV | 1129 | 12646 | 0.33% | 0.130% |
| 76 | 6.927 | 6.913 | 6.951 | VV | 368 | 4902 | 0.13% | 0.050% |
| 77 | 6.967 | 6.951 | 6.999 | VV | 571 | 6604 | 0.17% | 0.068% |
| 78 | 7.027 | 6.999 | 7.055 | VV | 135 | 2918 | 0.08% | 0.030% |
| 79 | 7.078 | 7.055 | 7.104 | VV | 178 | 3237 | 0.08% | 0.033% |
| 80 | 7.127 | 7.104 | 7.175 | VV | 187 | 4407 | 0.12% | 0.045% |
| 81 | 7.195 | 7.175 | 7.226 | PV | 561 | 7478 | 0.20% | 0.077% |
| 82 | 7.249 | 7.226 | 7.284 | VV | 915 | 17074 | 0.45% | 0.175% |
| 83 | 7.309 | 7.284 | 7.345 | VV | 731 | 16685 | 0.44% | 0.171% |
| 84 | 7.377 | 7.345 | 7.402 | VV | 1091 | 17975 | 0.47% | 0.185% |
| 85 | 7.416 | 7.402 | 7.441 | VV | 352 | 4378 | 0.11% | 0.045% |
| 86 | 7.460 | 7.441 | 7.473 | VV | 235 | 3550 | 0.09% | 0.036% |
| 87 | 7.485 | 7.473 | 7.512 | VV | 280 | 4330 | 0.11% | 0.045% |
| 88 | 7.543 | 7.512 | 7.581 | VV | 2266 | 26692 | 0.70% | 0.274% |
| 89 | 7.603 | 7.581 | 7.635 | VV | 273 | 6805 | 0.18% | 0.070% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.652 | 7.635 | 7.665 | VV | 496 | 5549 | 0.15% | 0.057% |
| 91 | 7.685 | 7.665 | 7.711 | VV | 1401 | 16492 | 0.43% | 0.169% |
| 92 | 7.721 | 7.711 | 7.734 | VV | 236 | 2562 | 0.07% | 0.026% |
| 93 | 7.754 | 7.734 | 7.764 | VV | 374 | 4766 | 0.12% | 0.049% |
| 94 | 7.778 | 7.764 | 7.818 | VV | 548 | 7339 | 0.19% | 0.075% |
| 95 | 7.839 | 7.818 | 7.884 | VV | 138 | 3181 | 0.08% | 0.033% |
| 96 | 7.895 | 7.884 | 7.935 | PV | 90 | 1014 | 0.03% | 0.010% |
| 97 | 7.952 | 7.935 | 7.997 | VV | 954 | 11476 | 0.30% | 0.118% |
| 98 | 8.012 | 7.997 | 8.020 | VV | 107 | 1183 | 0.03% | 0.012% |
| 99 | 8.035 | 8.020 | 8.072 | VV | 194 | 3730 | 0.10% | 0.038% |
| 100 | 8.120 | 8.072 | 8.141 | VV | 218 | 5704 | 0.15% | 0.059% |
| 101 | 8.146 | 8.141 | 8.161 | VV | 159 | 1603 | 0.04% | 0.016% |
| 102 | 8.172 | 8.161 | 8.200 | VV | 139 | 1662 | 0.04% | 0.017% |
| 103 | 8.216 | 8.200 | 8.235 | VV | 177 | 1817 | 0.05% | 0.019% |
| 104 | 8.262 | 8.235 | 8.287 | VV | 847 | 9639 | 0.25% | 0.099% |
| 105 | 8.318 | 8.287 | 8.339 | VV | 888 | 10216 | 0.27% | 0.105% |
| 106 | 8.355 | 8.339 | 8.373 | VV | 191 | 2941 | 0.08% | 0.030% |
| 107 | 8.388 | 8.373 | 8.418 | VV | 182 | 3200 | 0.08% | 0.033% |
| 108 | 8.429 | 8.418 | 8.451 | VV | 89 | 1397 | 0.04% | 0.014% |
| 109 | 8.475 | 8.451 | 8.498 | VV | 520 | 6591 | 0.17% | 0.068% |
| 110 | 8.511 | 8.498 | 8.537 | VV | 131 | 2242 | 0.06% | 0.023% |
| 111 | 8.569 | 8.537 | 8.640 | PV | 3832 | 48191 | 1.26% | 0.495% |
| 112 | 8.669 | 8.640 | 8.698 | VV | 502 | 11399 | 0.30% | 0.117% |
| 113 | 8.722 | 8.698 | 8.744 | VV | 494 | 9371 | 0.25% | 0.096% |
| 114 | 8.765 | 8.744 | 8.790 | VV | 366 | 6014 | 0.16% | 0.062% |
| 115 | 8.805 | 8.790 | 8.845 | VV | 512 | 6056 | 0.16% | 0.062% |
| 116 | 8.874 | 8.845 | 8.898 | VV | 1698 | 20607 | 0.54% | 0.212% |
| 117 | 8.922 | 8.898 | 8.945 | VV | 424 | 7047 | 0.18% | 0.072% |
| 118 | 8.995 | 8.945 | 9.005 | VV | 314 | 8368 | 0.22% | 0.086% |
| 119 | 9.032 | 9.005 | 9.048 | VV | 533 | 10082 | 0.26% | 0.104% |
| 120 | 9.064 | 9.048 | 9.076 | VV | 538 | 7211 | 0.19% | 0.074% |
| 121 | 9.114 | 9.076 | 9.156 | VV | 899 | 23934 | 0.63% | 0.246% |
| 122 | 9.178 | 9.156 | 9.207 | VV | 409 | 4965 | 0.13% | 0.051% |
| 123 | 9.231 | 9.207 | 9.252 | PV | 325 | 4690 | 0.12% | 0.048% |
| 124 | 9.297 | 9.252 | 9.314 | VV | 1021 | 14689 | 0.38% | 0.151% |
| 125 | 9.334 | 9.314 | 9.377 | VV | 947 | 23073 | 0.60% | 0.237% |
| 126 | 9.415 | 9.377 | 9.465 | VV | 2048 | 41145 | 1.08% | 0.423% |
| 127 | 9.486 | 9.465 | 9.509 | VV | 589 | 7417 | 0.19% | 0.076% |
| 128 | 9.537 | 9.509 | 9.569 | VV | 453 | 6062 | 0.16% | 0.062% |
| 129 | 9.618 | 9.569 | 9.667 | VV | 311 | 10749 | 0.28% | 0.110% |
| 130 | 9.701 | 9.667 | 9.741 | VV | 545 | 12617 | 0.33% | 0.130% |
| 131 | 9.767 | 9.741 | 9.804 | VV | 1118 | 18258 | 0.48% | 0.188% |
| 132 | 9.819 | 9.804 | 9.846 | VV | 331 | 5029 | 0.13% | 0.052% |
| 133 | 9.863 | 9.846 | 9.888 | VV | 249 | 3965 | 0.10% | 0.041% |
| 134 | 9.906 | 9.888 | 9.941 | VV | 537 | 7967 | 0.21% | 0.082% |
| 135 | 9.959 | 9.941 | 9.992 | VV | 664 | 8504 | 0.22% | 0.087% |
| 136 | 10.014 | 9.992 | 10.038 | VV | 114 | 1863 | 0.05% | 0.019% |
| 137 | 10.051 | 10.038 | 10.078 | VV | 199 | 2133 | 0.06% | 0.022% |
| 138 | 10.100 | 10.078 | 10.156 | PV | 524 | 8497 | 0.22% | 0.087% |
| 139 | 10.180 | 10.156 | 10.228 | VV | 1796 | 22312 | 0.58% | 0.229% |
| 140 | 10.259 | 10.228 | 10.308 | VV | 325 | 9812 | 0.26% | 0.101% |
| 141 | 10.352 | 10.308 | 10.385 | VV | 204 | 5331 | 0.14% | 0.055% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.398 | 10.385 | 10.409 | PV | 60 | 336 | 0.01% | 0.003% |
| 143 | 10.461 | 10.409 | 10.478 | VV | 227 | 4651 | 0.12% | 0.048% |
| 144 | 10.505 | 10.478 | 10.520 | VV | 374 | 6002 | 0.16% | 0.062% |
| 145 | 10.534 | 10.520 | 10.543 | VV | 259 | 3103 | 0.08% | 0.032% |
| 146 | 10.571 | 10.543 | 10.594 | VV | 769 | 13636 | 0.36% | 0.140% |
| 147 | 10.614 | 10.594 | 10.633 | VV | 518 | 8156 | 0.21% | 0.084% |
| 148 | 10.661 | 10.633 | 10.685 | VV | 364 | 7724 | 0.20% | 0.079% |
| 149 | 10.710 | 10.685 | 10.755 | VV | 214 | 5466 | 0.14% | 0.056% |
| 150 | 10.785 | 10.755 | 10.797 | VV | 396 | 6099 | 0.16% | 0.063% |
| 151 | 10.810 | 10.797 | 10.838 | VV | 403 | 7820 | 0.20% | 0.080% |
| 152 | 10.856 | 10.838 | 10.885 | VV | 493 | 10756 | 0.28% | 0.111% |
| 153 | 10.921 | 10.885 | 10.959 | VV | 1143 | 23449 | 0.61% | 0.241% |
| 154 | 10.992 | 10.959 | 11.025 | VV | 943 | 22870 | 0.60% | 0.235% |
| 155 | 11.051 | 11.025 | 11.086 | VV | 1157 | 23538 | 0.62% | 0.242% |
| 156 | 11.094 | 11.086 | 11.115 | VV | 288 | 3836 | 0.10% | 0.039% |
| 157 | 11.137 | 11.115 | 11.198 | VV | 300 | 9477 | 0.25% | 0.097% |
| 158 | 11.208 | 11.198 | 11.223 | VV | 234 | 2810 | 0.07% | 0.029% |
| 159 | 11.247 | 11.223 | 11.278 | VV | 351 | 7647 | 0.20% | 0.079% |
| 160 | 11.295 | 11.278 | 11.329 | VV | 395 | 9697 | 0.25% | 0.100% |
| 161 | 11.349 | 11.329 | 11.394 | VV | 617 | 13370 | 0.35% | 0.137% |
| 162 | 11.428 | 11.394 | 11.497 | VV | 292 | 9686 | 0.25% | 0.100% |
| 163 | 11.556 | 11.497 | 11.587 | VV | 3831 | 52296 | 1.37% | 0.537% |
| 164 | 11.627 | 11.587 | 11.657 | VV | 3022 | 43848 | 1.15% | 0.451% |
| 165 | 11.721 | 11.657 | 11.765 | VV | 1746 | 30736 | 0.80% | 0.316% |
| 166 | 11.774 | 11.765 | 11.799 | VV | 106 | 1799 | 0.05% | 0.018% |
| 167 | 11.851 | 11.799 | 11.885 | PV | 243 | 5337 | 0.14% | 0.055% |
| 168 | 11.939 | 11.885 | 11.969 | VV | 353 | 12073 | 0.32% | 0.124% |
| 169 | 11.983 | 11.969 | 11.997 | VV | 322 | 4598 | 0.12% | 0.047% |
| 170 | 12.019 | 11.997 | 12.060 | VV | 634 | 14187 | 0.37% | 0.146% |
| 171 | 12.082 | 12.060 | 12.165 | VV | 523 | 18640 | 0.49% | 0.192% |
| 172 | 12.293 | 12.165 | 12.325 | VV | 1182 | 45339 | 1.19% | 0.466% |
| 173 | 12.343 | 12.325 | 12.352 | VV | 435 | 5715 | 0.15% | 0.059% |
| 174 | 12.429 | 12.352 | 12.476 | VV | 493 | 24345 | 0.64% | 0.250% |
| 175 | 12.518 | 12.476 | 12.553 | VV | 962 | 25198 | 0.66% | 0.259% |
| 176 | 12.590 | 12.553 | 12.655 | VV | 479 | 20994 | 0.55% | 0.216% |
| 177 | 12.663 | 12.655 | 12.669 | VV | 273 | 2221 | 0.06% | 0.023% |
| 178 | 12.679 | 12.669 | 12.688 | VV | 309 | 3127 | 0.08% | 0.032% |
| 179 | 12.706 | 12.688 | 12.723 | VV | 446 | 8075 | 0.21% | 0.083% |
| 180 | 12.749 | 12.723 | 12.764 | VV | 578 | 11447 | 0.30% | 0.118% |
| 181 | 12.801 | 12.764 | 12.841 | VV | 1185 | 27306 | 0.71% | 0.281% |
| 182 | 12.876 | 12.841 | 12.910 | VV | 1147 | 19891 | 0.52% | 0.204% |
| 183 | 12.938 | 12.910 | 12.964 | VV | 2284 | 29756 | 0.78% | 0.306% |
| 184 | 12.985 | 12.964 | 13.023 | VV | 308 | 8928 | 0.23% | 0.092% |
| 185 | 13.052 | 13.023 | 13.137 | VV | 394 | 12543 | 0.33% | 0.129% |
| 186 | 13.217 | 13.137 | 13.245 | VV | 301 | 10377 | 0.27% | 0.107% |
| 187 | 13.265 | 13.245 | 13.285 | VV | 250 | 4885 | 0.13% | 0.050% |
| 188 | 13.304 | 13.285 | 13.320 | VV | 295 | 5287 | 0.14% | 0.054% |
| 189 | 13.385 | 13.320 | 13.420 | VV | 316101 | 3823794 | 100.00% | 39.300% |
| 190 | 13.443 | 13.420 | 13.475 | VV | 650 | 15055 | 0.39% | 0.155% |
| 191 | 13.484 | 13.475 | 13.525 | VV | 399 | 9456 | 0.25% | 0.097% |
| 192 | 13.551 | 13.525 | 13.584 | VV | 1193 | 21482 | 0.56% | 0.221% |
| 193 | 13.603 | 13.584 | 13.650 | VV | 523 | 15766 | 0.41% | 0.162% |
| 194 | 13.673 | 13.650 | 13.701 | VV | 371 | 8900 | 0.23% | 0.091% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.722 | 13.701 | 13.734 | VV | 322 | 5563 | 0.15% | 0.057% |
| 196 | 13.772 | 13.734 | 13.799 | VV | 598 | 18329 | 0.48% | 0.188% |
| 197 | 13.824 | 13.799 | 13.888 | VV | 673 | 26068 | 0.68% | 0.268% |
| 198 | 13.895 | 13.888 | 13.914 | VV | 369 | 4812 | 0.13% | 0.049% |
| 199 | 13.988 | 13.914 | 14.032 | VV | 526 | 27596 | 0.72% | 0.284% |
| 200 | 14.050 | 14.032 | 14.063 | VV | 520 | 8014 | 0.21% | 0.082% |
| 201 | 14.085 | 14.063 | 14.108 | VV | 1044 | 17065 | 0.45% | 0.175% |
| 202 | 14.138 | 14.108 | 14.171 | VV | 3373 | 46771 | 1.22% | 0.481% |
| 203 | 14.186 | 14.171 | 14.213 | VV | 357 | 6799 | 0.18% | 0.070% |
| 204 | 14.225 | 14.213 | 14.248 | VV | 296 | 5084 | 0.13% | 0.052% |
| 205 | 14.290 | 14.248 | 14.314 | VV | 246 | 8435 | 0.22% | 0.087% |
| 206 | 14.375 | 14.314 | 14.416 | VV | 785 | 24779 | 0.65% | 0.255% |
| 207 | 14.438 | 14.416 | 14.455 | VV | 408 | 7977 | 0.21% | 0.082% |
| 208 | 14.470 | 14.455 | 14.496 | VV | 346 | 7307 | 0.19% | 0.075% |
| 209 | 14.574 | 14.496 | 14.596 | VV | 1200 | 31757 | 0.83% | 0.326% |
| 210 | 14.621 | 14.596 | 14.652 | VV | 436 | 12094 | 0.32% | 0.124% |
| 211 | 14.701 | 14.652 | 14.748 | VV | 3437 | 54441 | 1.42% | 0.560% |
| 212 | 14.769 | 14.748 | 14.781 | VV | 499 | 7941 | 0.21% | 0.082% |
| 213 | 14.798 | 14.781 | 14.818 | VV | 549 | 10586 | 0.28% | 0.109% |
| 214 | 14.833 | 14.818 | 14.884 | VV | 675 | 21379 | 0.56% | 0.220% |
| 215 | 14.903 | 14.884 | 14.930 | VV | 452 | 11007 | 0.29% | 0.113% |
| 216 | 14.957 | 14.930 | 14.971 | VV | 541 | 11040 | 0.29% | 0.113% |
| 217 | 14.985 | 14.971 | 14.995 | VV | 482 | 6291 | 0.16% | 0.065% |
| 218 | 15.023 | 14.995 | 15.038 | VV | 561 | 11651 | 0.30% | 0.120% |
| 219 | 15.052 | 15.038 | 15.068 | VV | 519 | 7929 | 0.21% | 0.081% |
| 220 | 15.087 | 15.068 | 15.167 | VV | 502 | 20466 | 0.54% | 0.210% |
| 221 | 15.198 | 15.167 | 15.214 | VV | 827 | 14661 | 0.38% | 0.151% |
| 222 | 15.242 | 15.214 | 15.295 | VV | 6315 | 92007 | 2.41% | 0.946% |
| 223 | 15.298 | 15.295 | 15.355 | VV | 406 | 10055 | 0.26% | 0.103% |
| 224 | 15.382 | 15.355 | 15.411 | VV | 273 | 7549 | 0.20% | 0.078% |
| 225 | 15.439 | 15.411 | 15.459 | VV | 291 | 7007 | 0.18% | 0.072% |
| 226 | 15.500 | 15.459 | 15.535 | VV | 280 | 10551 | 0.28% | 0.108% |
| 227 | 15.577 | 15.535 | 15.606 | VV | 301 | 8890 | 0.23% | 0.091% |
| 228 | 15.675 | 15.606 | 15.708 | VV | 402 | 14356 | 0.38% | 0.148% |
| 229 | 15.763 | 15.708 | 15.838 | VV | 6190 | 99045 | 2.59% | 1.018% |
| 230 | 15.856 | 15.838 | 15.883 | VV | 262 | 4888 | 0.13% | 0.050% |
| 231 | 15.905 | 15.883 | 15.928 | VV | 337 | 5477 | 0.14% | 0.056% |
| 232 | 15.942 | 15.928 | 15.971 | VV | 357 | 7046 | 0.18% | 0.072% |
| 233 | 15.983 | 15.971 | 16.030 | VV | 326 | 8089 | 0.21% | 0.083% |
| 234 | 16.082 | 16.030 | 16.118 | VV | 721 | 23227 | 0.61% | 0.239% |
| 235 | 16.132 | 16.118 | 16.201 | VV | 438 | 13684 | 0.36% | 0.141% |
| 236 | 16.225 | 16.201 | 16.237 | VV | 685 | 9646 | 0.25% | 0.099% |
| 237 | 16.265 | 16.237 | 16.354 | VV | 7802 | 116097 | 3.04% | 1.193% |
| 238 | 16.365 | 16.354 | 16.383 | VV | 188 | 1658 | 0.04% | 0.017% |
| 239 | 16.442 | 16.383 | 16.530 | PV | 396 | 17465 | 0.46% | 0.179% |
| 240 | 16.575 | 16.530 | 16.608 | VV | 634 | 14556 | 0.38% | 0.150% |
| 241 | 16.626 | 16.608 | 16.671 | VV | 372 | 8008 | 0.21% | 0.082% |
| 242 | 16.749 | 16.671 | 16.788 | VV | 7699 | 110141 | 2.88% | 1.132% |
| 243 | 16.800 | 16.788 | 16.840 | VV | 274 | 4284 | 0.11% | 0.044% |
| 244 | 16.866 | 16.840 | 16.877 | VV | 205 | 3053 | 0.08% | 0.031% |
| 245 | 16.911 | 16.877 | 16.930 | VV | 363 | 7428 | 0.19% | 0.076% |
| 246 | 16.952 | 16.930 | 16.960 | VV | 290 | 4379 | 0.11% | 0.045% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 16.974 | 16.960 | 17.005 | VV | 319 | 6749 | 0.18% | 0.069% |
| 248 | 17.049 | 17.005 | 17.071 | VV | 513 | 11860 | 0.31% | 0.122% |
| 249 | 17.095 | 17.071 | 17.122 | VV | 541 | 10816 | 0.28% | 0.111% |
| 250 | 17.132 | 17.122 | 17.151 | VV | 242 | 3461 | 0.09% | 0.036% |
| 251 | 17.214 | 17.151 | 17.292 | VV | 7510 | 118113 | 3.09% | 1.214% |
| 252 | 17.346 | 17.292 | 17.408 | VV | 352 | 12241 | 0.32% | 0.126% |
| 253 | 17.455 | 17.408 | 17.488 | VV | 370 | 10150 | 0.27% | 0.104% |
| 254 | 17.506 | 17.488 | 17.531 | VV | 462 | 7141 | 0.19% | 0.073% |
| 255 | 17.551 | 17.531 | 17.575 | VV | 779 | 10286 | 0.27% | 0.106% |
| 256 | 17.595 | 17.575 | 17.618 | VV | 268 | 4206 | 0.11% | 0.043% |
| 257 | 17.666 | 17.618 | 17.713 | VV | 10836 | 156331 | 4.09% | 1.607% |
| 258 | 17.720 | 17.713 | 17.730 | VV | 75 | 442 | 0.01% | 0.005% |
| 259 | 17.786 | 17.730 | 17.840 | PV | 435 | 13001 | 0.34% | 0.134% |
| 260 | 17.947 | 17.840 | 17.975 | VV | 416 | 14987 | 0.39% | 0.154% |
| 261 | 17.996 | 17.975 | 18.027 | VV | 296 | 5509 | 0.14% | 0.057% |
| 262 | 18.103 | 18.027 | 18.137 | VV | 6792 | 102944 | 2.69% | 1.058% |
| 263 | 18.164 | 18.137 | 18.197 | VV | 186 | 3412 | 0.09% | 0.035% |
| 264 | 18.250 | 18.197 | 18.313 | VV | 603 | 22405 | 0.59% | 0.230% |
| 265 | 18.323 | 18.313 | 18.340 | VV | 132 | 1028 | 0.03% | 0.011% |
| 266 | 18.378 | 18.340 | 18.401 | PV | 415 | 8282 | 0.22% | 0.085% |
| 267 | 18.421 | 18.401 | 18.475 | VV | 411 | 8886 | 0.23% | 0.091% |
| 268 | 18.526 | 18.475 | 18.565 | VV | 6747 | 100337 | 2.62% | 1.031% |
| 269 | 18.581 | 18.565 | 18.591 | PV | 101 | 1035 | 0.03% | 0.011% |
| 270 | 18.619 | 18.591 | 18.637 | VV | 615 | 7960 | 0.21% | 0.082% |
| 271 | 18.660 | 18.637 | 18.701 | VV | 231 | 5856 | 0.15% | 0.060% |
| 272 | 18.787 | 18.701 | 18.814 | VV | 639 | 17202 | 0.45% | 0.177% |
| 273 | 18.831 | 18.814 | 18.858 | VV | 304 | 5737 | 0.15% | 0.059% |
| 274 | 18.869 | 18.858 | 18.878 | VV | 115 | 776 | 0.02% | 0.008% |
| 275 | 18.935 | 18.878 | 18.993 | PV | 4873 | 82540 | 2.16% | 0.848% |
| 276 | 19.017 | 18.993 | 19.062 | VV | 461 | 10413 | 0.27% | 0.107% |
| 277 | 19.087 | 19.062 | 19.121 | VV | 386 | 8469 | 0.22% | 0.087% |
| 278 | 19.134 | 19.121 | 19.163 | VV | 190 | 2998 | 0.08% | 0.031% |
| 279 | 19.189 | 19.163 | 19.209 | VV | 272 | 5037 | 0.13% | 0.052% |
| 280 | 19.238 | 19.209 | 19.278 | VV | 275 | 5089 | 0.13% | 0.052% |
| 281 | 19.333 | 19.278 | 19.363 | PV | 3799 | 60060 | 1.57% | 0.617% |
| 282 | 19.372 | 19.363 | 19.408 | VV | 458 | 7735 | 0.20% | 0.079% |
| 283 | 19.511 | 19.408 | 19.555 | VV | 377 | 19034 | 0.50% | 0.196% |
| 284 | 19.581 | 19.555 | 19.600 | VV | 455 | 7991 | 0.21% | 0.082% |
| 285 | 19.624 | 19.600 | 19.645 | VV | 345 | 6890 | 0.18% | 0.071% |
| 286 | 19.719 | 19.645 | 19.798 | VV | 3386 | 73397 | 1.92% | 0.754% |
| 287 | 19.882 | 19.798 | 19.894 | VV | 445 | 20895 | 0.55% | 0.215% |
| 288 | 19.926 | 19.894 | 19.938 | VV | 480 | 11466 | 0.30% | 0.118% |
| 289 | 19.961 | 19.938 | 19.978 | VV | 604 | 12703 | 0.33% | 0.131% |
| 290 | 20.014 | 19.978 | 20.051 | VV | 668 | 24191 | 0.63% | 0.249% |
| 291 | 20.096 | 20.051 | 20.123 | VV | 2700 | 53372 | 1.40% | 0.549% |
| 292 | 20.151 | 20.123 | 20.175 | VV | 821 | 23673 | 0.62% | 0.243% |
| 293 | 20.259 | 20.175 | 20.267 | VV | 1062 | 48414 | 1.27% | 0.498% |
| 294 | 20.370 | 20.267 | 20.395 | VV | 1374 | 88386 | 2.31% | 0.908% |
| 295 | 20.461 | 20.395 | 20.488 | VV | 3311 | 102758 | 2.69% | 1.056% |
| 296 | 20.526 | 20.488 | 20.544 | VV | 1779 | 56037 | 1.47% | 0.576% |
| 297 | 20.651 | 20.544 | 20.671 | VV | 2282 | 153358 | 4.01% | 1.576% |
| 298 | 20.733 | 20.671 | 20.756 | VV | 2510 | 119163 | 3.12% | 1.225% |
| 299 | 20.819 | 20.756 | 20.881 | VV | 3507 | 188931 | 4.94% | 1.942% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 20.995 | 20.881 | 21.006 | VV | 2480 | 170277 | 4.45% | 1.750% |
| 301 | 21.012 | 21.006 | 21.041 | VV | 2392 | 48671 | 1.27% | 0.500% |
| 302 | 21.208 | 21.041 | 21.259 | VV | 3140 | 290895 | 7.61% | 2.990% |
| 303 | 21.293 | 21.259 | 21.331 | VV | 1918 | 80447 | 2.10% | 0.827% |
| 304 | 21.345 | 21.331 | 21.360 | VV | 1812 | 31195 | 0.82% | 0.321% |
| 305 | 21.384 | 21.360 | 21.451 | VV | 1767 | 89837 | 2.35% | 0.923% |
| 306 | 21.485 | 21.451 | 21.501 | VV | 1582 | 46207 | 1.21% | 0.475% |
| 307 | 21.556 | 21.501 | 21.615 | VV | 1634 | 104207 | 2.73% | 1.071% |
| 308 | 21.649 | 21.615 | 21.740 | VV | 1752 | 101852 | 2.66% | 1.047% |
| 309 | 21.762 | 21.740 | 21.832 | VV | 1075 | 51612 | 1.35% | 0.530% |
| 310 | 21.849 | 21.832 | 21.868 | VV | 796 | 16874 | 0.44% | 0.173% |
| 311 | 21.878 | 21.868 | 21.895 | VV | 708 | 11095 | 0.29% | 0.114% |
| 312 | 21.947 | 21.895 | 21.961 | VV | 667 | 25792 | 0.67% | 0.265% |
| 313 | 21.968 | 21.961 | 21.979 | VV | 659 | 6685 | 0.17% | 0.069% |
| 314 | 22.015 | 21.979 | 22.028 | VV | 554 | 15618 | 0.41% | 0.161% |
| 315 | 22.045 | 22.028 | 22.071 | VV | 483 | 11723 | 0.31% | 0.120% |
| 316 | 22.144 | 22.071 | 22.186 | VV | 811 | 33564 | 0.88% | 0.345% |
| 317 | 22.205 | 22.186 | 22.251 | VBA | 220 | 12879 | 0.34% | 0.132% |

Sum of corrected areas: 9729746

Aliphatic EPH 111424.M Wed Nov 20 01:28:25 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048760.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 10:38
Operator : YP/AJ
Sample : P4860-01
Misc :
ALS Vial : 63 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
DUP-01

Integration File: sample.E
Quant Time: Nov 19 05:55:02 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 | 9232725 | 52.441 ug/ml |
| Spiked Amount 50.000 | | Recovery = 104.88% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.217 | 6235407 | 54.141 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 108.28% | |
| 11) S ortho-Terphenyl (SURR) | 11.251 | 5492809 | 28.558 ug/ml |
| Spiked Amount 50.000 | | Recovery = 57.12% | |
| **Target Compounds** | | | |

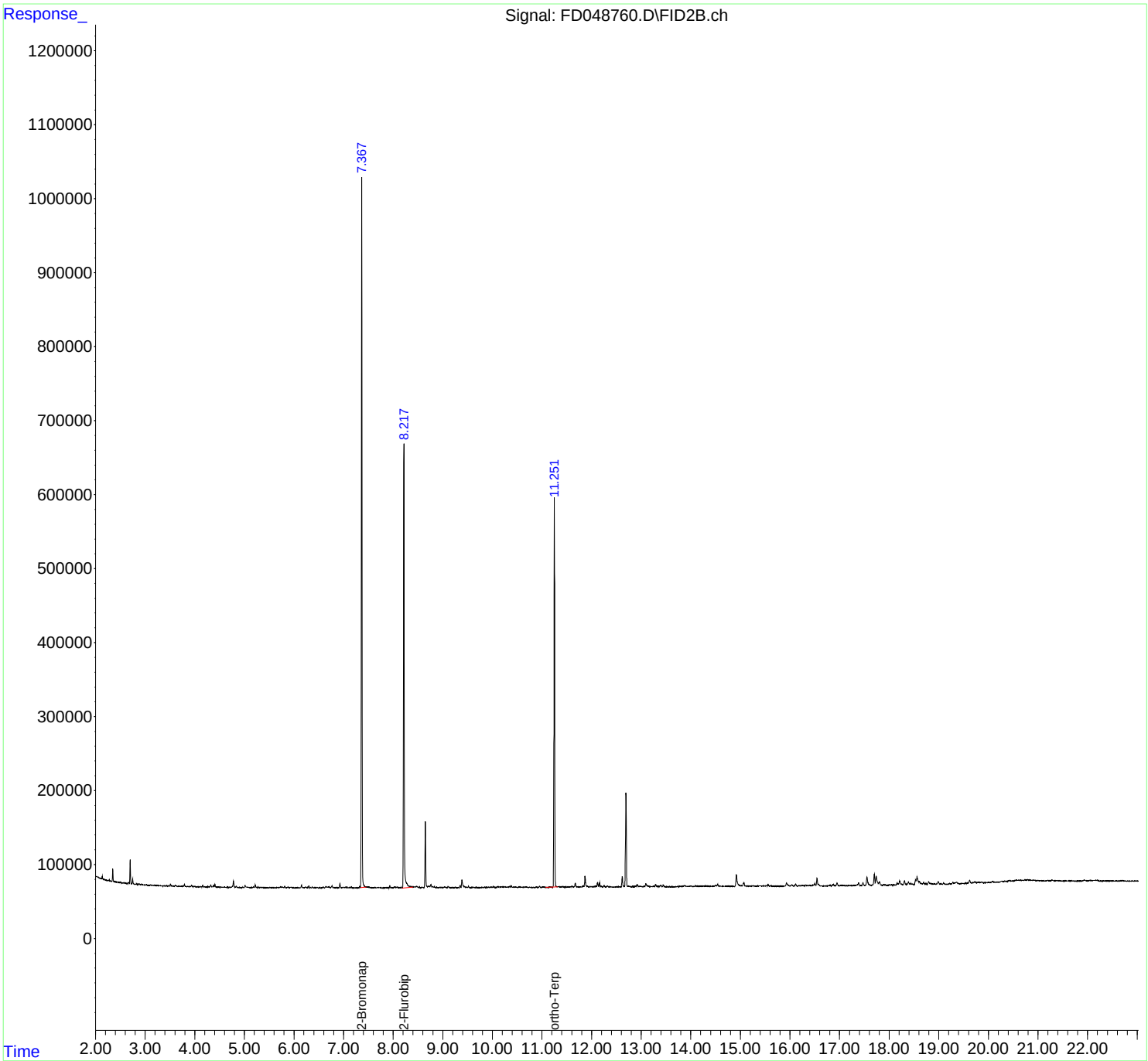
(f)=RT Delta > 1/2 Window (m)=manual int.

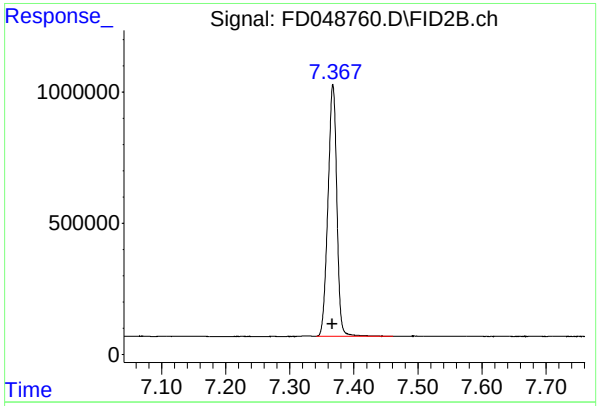
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048760.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 10:38
Operator : YP/AJ
Sample : P4860-01
Misc :
ALS Vial : 63 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
DUP-01

Integration File: sample.E
Quant Time: Nov 19 05:55:02 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

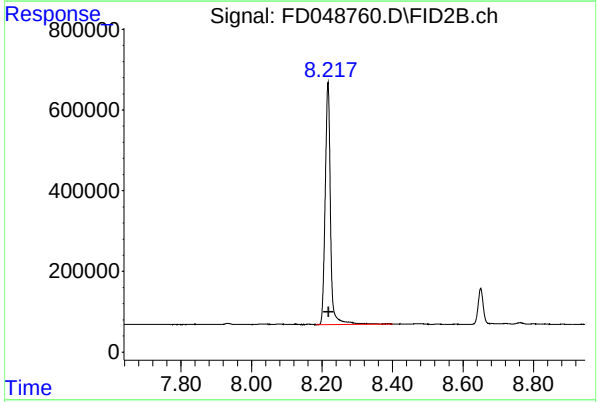





#4 2-Bromonaphthalene (SURR)

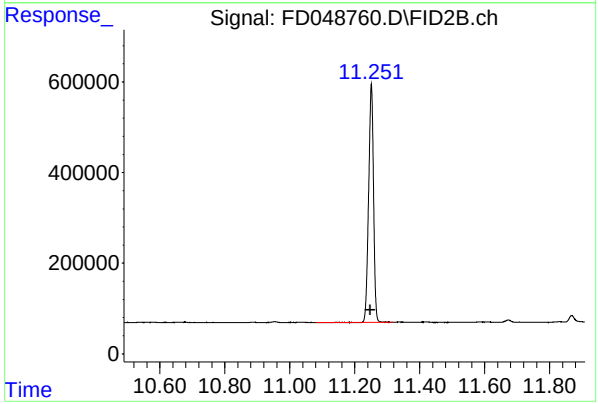
R.T.: 7.367 min
Delta R.T.: 0.000 min
Response: 9232725
Conc: 52.44 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
DUP-01




#6 2-Flurobiphenyl (SURR)

R.T.: 8.217 min
Delta R.T.: -0.002 min
Response: 6235407
Conc: 54.14 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.251 min
Delta R.T.: 0.003 min
Response: 5492809
Conc: 28.56 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048760.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 10:38
Sample : P4860-01
Misc :
ALS Vial : 63 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 | 4.058 | 4.042 | 4.070 | BV | 371 | 1937 | 0.02% | 0.006% |
| 2 | 4.094 | 4.084 | 4.100 | PV | 221 | 1581 | 0.02% | 0.005% |
| 3 | 4.117 | 4.100 | 4.140 | VV | 703 | 9613 | 0.10% | 0.030% |
| 4 | 4.160 | 4.140 | 4.187 | VV | 2700 | 30943 | 0.33% | 0.098% |
| 5 | 4.194 | 4.187 | 4.212 | VV | 541 | 5319 | 0.06% | 0.017% |
| 6 | 4.218 | 4.212 | 4.246 | VV | 285 | 4083 | 0.04% | 0.013% |
| 7 | 4.267 | 4.246 | 4.298 | VV | 911 | 13961 | 0.15% | 0.044% |
| 8 | 4.323 | 4.298 | 4.344 | VV | 3338 | 39159 | 0.42% | 0.123% |
| 9 | 4.355 | 4.344 | 4.360 | VV | 648 | 5462 | 0.06% | 0.017% |
| 10 | 4.378 | 4.360 | 4.390 | VV | 2942 | 30161 | 0.32% | 0.095% |
| 11 | 4.407 | 4.390 | 4.448 | VV | 4306 | 45099 | 0.48% | 0.142% |
| 12 | 4.454 | 4.448 | 4.467 | PV | 306 | 2304 | 0.02% | 0.007% |
| 13 | 4.479 | 4.467 | 4.508 | VV | 564 | 9251 | 0.10% | 0.029% |
| 14 | 4.520 | 4.508 | 4.554 | VV | 860 | 10958 | 0.12% | 0.035% |
| 15 | 4.556 | 4.554 | 4.574 | VV | 391 | 2754 | 0.03% | 0.009% |
| 16 | 4.592 | 4.574 | 4.629 | VV | 854 | 12558 | 0.13% | 0.040% |
| 17 | 4.635 | 4.629 | 4.642 | VV | 284 | 1889 | 0.02% | 0.006% |
| 18 | 4.652 | 4.642 | 4.674 | VV | 367 | 4315 | 0.05% | 0.014% |
| 19 | 4.701 | 4.674 | 4.716 | VV | 781 | 9642 | 0.10% | 0.030% |
| 20 | 4.724 | 4.716 | 4.729 | VV | 413 | 2612 | 0.03% | 0.008% |
| 21 | 4.731 | 4.729 | 4.739 | VV | 476 | 2278 | 0.02% | 0.007% |
| 22 | 4.759 | 4.739 | 4.764 | VV | 2087 | 18517 | 0.20% | 0.058% |
| 23 | 4.780 | 4.764 | 4.815 | VV | 9117 | 109329 | 1.18% | 0.345% |
| 24 | 4.837 | 4.815 | 4.866 | VV | 2170 | 26582 | 0.29% | 0.084% |
| 25 | 4.871 | 4.866 | 4.885 | VV | 468 | 4451 | 0.05% | 0.014% |
| 26 | 4.890 | 4.885 | 4.896 | VV | 440 | 2397 | 0.03% | 0.008% |
| 27 | 4.900 | 4.896 | 4.920 | VV | 480 | 4502 | 0.05% | 0.014% |
| 28 | 4.947 | 4.930 | 4.952 | VV | 218 | 1410 | 0.02% | 0.004% |
| 29 | 4.970 | 4.952 | 4.996 | PV | 674 | 9437 | 0.10% | 0.030% |
| 30 | 5.014 | 4.996 | 5.057 | VV | 3365 | 53000 | 0.57% | 0.167% |
| 31 | 5.063 | 5.057 | 5.114 | VV | 677 | 16086 | 0.17% | 0.051% |
| 32 | 5.119 | 5.114 | 5.122 | VV | 320 | 1516 | 0.02% | 0.005% |
| 33 | 5.127 | 5.122 | 5.132 | VV | 474 | 2116 | 0.02% | 0.007% |
| 34 | 5.146 | 5.132 | 5.162 | VV | 546 | 6944 | 0.07% | 0.022% |
| 35 | 5.184 | 5.162 | 5.200 | VV | 1410 | 16839 | 0.18% | 0.053% |
| 36 | 5.221 | 5.200 | 5.240 | VV | 3895 | 42829 | 0.46% | 0.135% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.246 | 5.240 | 5.259 | VV | 539 | 4957 | 0.05% | 0.016% |
| 38 | 5.275 | 5.259 | 5.305 | VV | 1319 | 19520 | 0.21% | 0.062% |
| 39 | 5.321 | 5.305 | 5.330 | VV | 579 | 6375 | 0.07% | 0.020% |
| 40 | 5.339 | 5.330 | 5.359 | VV | 800 | 11213 | 0.12% | 0.035% |
| 41 | 5.363 | 5.359 | 5.387 | VV | 698 | 7028 | 0.08% | 0.022% |
| 42 | 5.392 | 5.387 | 5.395 | VV | 318 | 1285 | 0.01% | 0.004% |
| 43 | 5.399 | 5.395 | 5.416 | VV | 314 | 3170 | 0.03% | 0.010% |
| 44 | 5.426 | 5.416 | 5.440 | VV | 415 | 4187 | 0.05% | 0.013% |
| 45 | 5.445 | 5.440 | 5.450 | VV | 304 | 1426 | 0.02% | 0.004% |
| 46 | 5.470 | 5.450 | 5.485 | VV | 717 | 8216 | 0.09% | 0.026% |
| 47 | 5.514 | 5.496 | 5.539 | VV | 697 | 11029 | 0.12% | 0.035% |
| 48 | 5.547 | 5.539 | 5.566 | VV | 403 | 5374 | 0.06% | 0.017% |
| 49 | 5.573 | 5.566 | 5.578 | VV | 483 | 2291 | 0.02% | 0.007% |
| 50 | 5.585 | 5.578 | 5.591 | VV | 434 | 2618 | 0.03% | 0.008% |
| 51 | 5.597 | 5.591 | 5.610 | VV | 427 | 3228 | 0.03% | 0.010% |
| 52 | 5.625 | 5.610 | 5.639 | VV | 600 | 6026 | 0.06% | 0.019% |
| 53 | 5.644 | 5.639 | 5.648 | VV | 483 | 2155 | 0.02% | 0.007% |
| 54 | 5.656 | 5.648 | 5.662 | VV | 692 | 4381 | 0.05% | 0.014% |
| 55 | 5.672 | 5.662 | 5.692 | VV | 774 | 10487 | 0.11% | 0.033% |
| 56 | 5.699 | 5.692 | 5.712 | VV | 589 | 6107 | 0.07% | 0.019% |
| 57 | 5.734 | 5.712 | 5.754 | VV | 1522 | 27183 | 0.29% | 0.086% |
| 58 | 5.770 | 5.754 | 5.787 | VV | 1508 | 20499 | 0.22% | 0.065% |
| 59 | 5.814 | 5.787 | 5.858 | VV | 2564 | 39955 | 0.43% | 0.126% |
| 60 | 5.877 | 5.858 | 5.910 | VV | 1398 | 25447 | 0.27% | 0.080% |
| 61 | 5.945 | 5.910 | 5.985 | VV | 1140 | 29173 | 0.31% | 0.092% |
| 62 | 5.993 | 5.985 | 6.010 | VV | 672 | 5807 | 0.06% | 0.018% |
| 63 | 6.024 | 6.010 | 6.029 | VV | 612 | 4677 | 0.05% | 0.015% |
| 64 | 6.036 | 6.029 | 6.041 | VV | 569 | 3268 | 0.04% | 0.010% |
| 65 | 6.044 | 6.041 | 6.074 | VV | 510 | 7823 | 0.08% | 0.025% |
| 66 | 6.084 | 6.074 | 6.104 | VV | 523 | 6216 | 0.07% | 0.020% |
| 67 | 6.118 | 6.104 | 6.125 | VV | 390 | 4410 | 0.05% | 0.014% |
| 68 | 6.152 | 6.125 | 6.178 | VV | 3806 | 45981 | 0.49% | 0.145% |
| 69 | 6.189 | 6.178 | 6.204 | VV | 658 | 8256 | 0.09% | 0.026% |
| 70 | 6.210 | 6.204 | 6.214 | VV | 452 | 2735 | 0.03% | 0.009% |
| 71 | 6.234 | 6.214 | 6.259 | VV | 1688 | 23165 | 0.25% | 0.073% |
| 72 | 6.271 | 6.259 | 6.284 | VV | 937 | 9413 | 0.10% | 0.030% |
| 73 | 6.301 | 6.284 | 6.323 | VV | 2936 | 33845 | 0.36% | 0.107% |
| 74 | 6.332 | 6.323 | 6.351 | VV | 1040 | 9292 | 0.10% | 0.029% |
| 75 | 6.371 | 6.351 | 6.394 | PV | 1665 | 18099 | 0.19% | 0.057% |
| 76 | 6.399 | 6.394 | 6.404 | VV | 453 | 2171 | 0.02% | 0.007% |
| 77 | 6.413 | 6.404 | 6.417 | VV | 463 | 3324 | 0.04% | 0.010% |
| 78 | 6.421 | 6.417 | 6.427 | VV | 499 | 2682 | 0.03% | 0.008% |
| 79 | 6.431 | 6.427 | 6.452 | VV | 499 | 5948 | 0.06% | 0.019% |
| 80 | 6.475 | 6.452 | 6.500 | VV | 871 | 13945 | 0.15% | 0.044% |
| 81 | 6.522 | 6.500 | 6.563 | VV | 746 | 13611 | 0.15% | 0.043% |
| 82 | 6.590 | 6.563 | 6.614 | VV | 1539 | 21690 | 0.23% | 0.068% |
| 83 | 6.642 | 6.614 | 6.659 | VV | 2313 | 33234 | 0.36% | 0.105% |
| 84 | 6.664 | 6.659 | 6.678 | VV | 1439 | 14332 | 0.15% | 0.045% |
| 85 | 6.689 | 6.678 | 6.698 | VV | 1796 | 18101 | 0.19% | 0.057% |
| 86 | 6.707 | 6.698 | 6.731 | VV | 1872 | 24782 | 0.27% | 0.078% |
| 87 | 6.767 | 6.731 | 6.794 | VV | 2809 | 46429 | 0.50% | 0.146% |
| 88 | 6.804 | 6.794 | 6.830 | VV | 815 | 11839 | 0.13% | 0.037% |
| 89 | 6.849 | 6.830 | 6.860 | VV | 724 | 9918 | 0.11% | 0.031% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 6.872 | 6.860 | 6.903 | VV | 933 | 12768 | 0.14% | 0.040% |
| 91 | 6.927 | 6.903 | 6.955 | VV | 5959 | 65665 | 0.71% | 0.207% |
| 92 | 6.958 | 6.955 | 6.963 | VV | 474 | 1664 | 0.02% | 0.005% |
| 93 | 6.988 | 6.963 | 7.018 | VV | 1217 | 24253 | 0.26% | 0.076% |
| 94 | 7.036 | 7.018 | 7.050 | VV | 1365 | 16628 | 0.18% | 0.052% |
| 95 | 7.070 | 7.050 | 7.088 | VV | 1627 | 22787 | 0.24% | 0.072% |
| 96 | 7.101 | 7.088 | 7.115 | VV | 694 | 8722 | 0.09% | 0.027% |
| 97 | 7.133 | 7.115 | 7.143 | VV | 1244 | 15101 | 0.16% | 0.048% |
| 98 | 7.158 | 7.143 | 7.200 | VV | 1493 | 21418 | 0.23% | 0.068% |
| 99 | 7.227 | 7.200 | 7.253 | VV | 644 | 9621 | 0.10% | 0.030% |
| 100 | 7.273 | 7.253 | 7.286 | PV | 529 | 5869 | 0.06% | 0.019% |
| 101 | 7.299 | 7.286 | 7.308 | VV | 421 | 4550 | 0.05% | 0.014% |
| 102 | 7.326 | 7.308 | 7.340 | VV | 2713 | 29997 | 0.32% | 0.095% |
| 103 | 7.367 | 7.340 | 7.460 | VV | 960609 | 9303893 | 100.00% | 29.331% |
| 104 | 7.471 | 7.460 | 7.476 | VV | 1439 | 13155 | 0.14% | 0.041% |
| 105 | 7.494 | 7.476 | 7.547 | VV | 1662 | 45309 | 0.49% | 0.143% |
| 106 | 7.553 | 7.547 | 7.571 | VV | 681 | 8435 | 0.09% | 0.027% |
| 107 | 7.589 | 7.571 | 7.612 | VV | 766 | 13415 | 0.14% | 0.042% |
| 108 | 7.632 | 7.612 | 7.649 | VV | 1270 | 15967 | 0.17% | 0.050% |
| 109 | 7.687 | 7.649 | 7.699 | VV | 811 | 13844 | 0.15% | 0.044% |
| 110 | 7.722 | 7.699 | 7.747 | VV | 697 | 14107 | 0.15% | 0.044% |
| 111 | 7.751 | 7.747 | 7.756 | VV | 478 | 2043 | 0.02% | 0.006% |
| 112 | 7.760 | 7.756 | 7.777 | VV | 384 | 3906 | 0.04% | 0.012% |
| 113 | 7.787 | 7.777 | 7.812 | VV | 367 | 5107 | 0.05% | 0.016% |
| 114 | 7.840 | 7.812 | 7.879 | VV | 922 | 21316 | 0.23% | 0.067% |
| 115 | 7.884 | 7.879 | 7.887 | VV | 362 | 1431 | 0.02% | 0.005% |
| 116 | 7.894 | 7.887 | 7.914 | VV | 588 | 6562 | 0.07% | 0.021% |
| 117 | 7.932 | 7.914 | 7.955 | VV | 3158 | 36775 | 0.40% | 0.116% |
| 118 | 7.963 | 7.955 | 7.979 | VV | 661 | 7444 | 0.08% | 0.023% |
| 119 | 7.986 | 7.979 | 8.004 | VV | 411 | 5056 | 0.05% | 0.016% |
| 120 | 8.025 | 8.004 | 8.060 | VV | 1314 | 28258 | 0.30% | 0.089% |
| 121 | 8.082 | 8.060 | 8.099 | VV | 1351 | 21514 | 0.23% | 0.068% |
| 122 | 8.125 | 8.099 | 8.145 | VV | 979 | 14123 | 0.15% | 0.045% |
| 123 | 8.162 | 8.145 | 8.185 | VV | 984 | 11606 | 0.12% | 0.037% |
| 124 | 8.217 | 8.185 | 8.309 | VV | 599608 | 6211758 | 66.77% | 19.583% |
| 125 | 8.314 | 8.309 | 8.366 | VV | 2748 | 73756 | 0.79% | 0.233% |
| 126 | 8.388 | 8.366 | 8.402 | VV | 1825 | 34893 | 0.38% | 0.110% |
| 127 | 8.420 | 8.402 | 8.428 | VV | 1608 | 22468 | 0.24% | 0.071% |
| 128 | 8.436 | 8.428 | 8.450 | VV | 1531 | 18245 | 0.20% | 0.058% |
| 129 | 8.468 | 8.450 | 8.472 | VV | 2013 | 21035 | 0.23% | 0.066% |
| 130 | 8.476 | 8.472 | 8.513 | VV | 2019 | 33040 | 0.36% | 0.104% |
| 131 | 8.529 | 8.513 | 8.555 | VV | 1282 | 19631 | 0.21% | 0.062% |
| 132 | 8.582 | 8.555 | 8.609 | VV | 1006 | 20873 | 0.22% | 0.066% |
| 133 | 8.650 | 8.609 | 8.677 | VV | 89514 | 908841 | 9.77% | 2.865% |
| 134 | 8.683 | 8.677 | 8.700 | VV | 2465 | 29250 | 0.31% | 0.092% |
| 135 | 8.721 | 8.700 | 8.740 | VV | 2864 | 49414 | 0.53% | 0.156% |
| 136 | 8.762 | 8.740 | 8.786 | VV | 4647 | 72400 | 0.78% | 0.228% |
| 137 | 8.799 | 8.786 | 8.819 | VV | 1880 | 30037 | 0.32% | 0.095% |
| 138 | 8.832 | 8.819 | 8.860 | VV | 1609 | 23137 | 0.25% | 0.073% |
| 139 | 8.884 | 8.860 | 8.898 | VV | 1007 | 13816 | 0.15% | 0.044% |
| 140 | 8.903 | 8.898 | 8.911 | VV | 600 | 3346 | 0.04% | 0.011% |
| 141 | 8.942 | 8.911 | 8.952 | VV | 738 | 13453 | 0.14% | 0.042% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 8.962 | 8.952 | 8.976 | VV | 782 | 9336 | 0.10% | 0.029% |
| 143 | 8.982 | 8.976 | 9.003 | VV | 741 | 7160 | 0.08% | 0.023% |
| 144 | 9.035 | 9.003 | 9.042 | VV | 1040 | 16307 | 0.18% | 0.051% |
| 145 | 9.048 | 9.042 | 9.067 | VV | 951 | 10549 | 0.11% | 0.033% |
| 146 | 9.073 | 9.067 | 9.090 | VV | 491 | 5408 | 0.06% | 0.017% |
| 147 | 9.107 | 9.090 | 9.159 | VV | 2082 | 34328 | 0.37% | 0.108% |
| 148 | 9.164 | 9.159 | 9.169 | VV | 424 | 1788 | 0.02% | 0.006% |
| 149 | 9.186 | 9.169 | 9.204 | VV | 563 | 8462 | 0.09% | 0.027% |
| 150 | 9.207 | 9.204 | 9.219 | VV | 428 | 3117 | 0.03% | 0.010% |
| 151 | 9.224 | 9.219 | 9.229 | VV | 299 | 1596 | 0.02% | 0.005% |
| 152 | 9.250 | 9.229 | 9.274 | VV | 992 | 12234 | 0.13% | 0.039% |
| 153 | 9.304 | 9.274 | 9.326 | VV | 514 | 10097 | 0.11% | 0.032% |
| 154 | 9.351 | 9.326 | 9.370 | VV | 3249 | 40656 | 0.44% | 0.128% |
| 155 | 9.388 | 9.370 | 9.431 | VV | 10903 | 171844 | 1.85% | 0.542% |
| 156 | 9.436 | 9.431 | 9.459 | VV | 1641 | 21258 | 0.23% | 0.067% |
| 157 | 9.466 | 9.459 | 9.501 | VV | 1217 | 21108 | 0.23% | 0.067% |
| 158 | 9.521 | 9.501 | 9.554 | VV | 1985 | 28710 | 0.31% | 0.091% |
| 159 | 9.559 | 9.554 | 9.578 | VV | 274 | 3292 | 0.04% | 0.010% |
| 160 | 9.592 | 9.578 | 9.596 | VV | 618 | 5021 | 0.05% | 0.016% |
| 161 | 9.604 | 9.596 | 9.614 | VV | 744 | 6731 | 0.07% | 0.021% |
| 162 | 9.620 | 9.614 | 9.642 | VV | 656 | 7695 | 0.08% | 0.024% |
| 163 | 9.649 | 9.642 | 9.653 | VV | 441 | 2529 | 0.03% | 0.008% |
| 164 | 9.659 | 9.653 | 9.674 | VV | 473 | 5015 | 0.05% | 0.016% |
| 165 | 9.676 | 9.674 | 9.682 | VV | 453 | 1879 | 0.02% | 0.006% |
| 166 | 9.687 | 9.682 | 9.719 | VV | 451 | 5920 | 0.06% | 0.019% |
| 167 | 9.729 | 9.719 | 9.742 | PV | 263 | 1968 | 0.02% | 0.006% |
| 168 | 9.744 | 9.742 | 9.759 | VV | 313 | 1916 | 0.02% | 0.006% |
| 169 | 9.772 | 9.759 | 9.779 | VV | 381 | 3446 | 0.04% | 0.011% |
| 170 | 9.793 | 9.779 | 9.811 | VV | 427 | 7253 | 0.08% | 0.023% |
| 171 | 9.838 | 9.811 | 9.857 | VV | 885 | 16205 | 0.17% | 0.051% |
| 172 | 9.866 | 9.857 | 9.875 | VV | 566 | 5085 | 0.05% | 0.016% |
| 173 | 9.910 | 9.875 | 9.928 | VV | 1009 | 20298 | 0.22% | 0.064% |
| 174 | 9.947 | 9.928 | 9.963 | VV | 948 | 16055 | 0.17% | 0.051% |
| 175 | 9.975 | 9.963 | 9.980 | VV | 811 | 7040 | 0.08% | 0.022% |
| 176 | 9.999 | 9.980 | 10.009 | VV | 864 | 12263 | 0.13% | 0.039% |
| 177 | 10.023 | 10.009 | 10.054 | VV | 2202 | 29369 | 0.32% | 0.093% |
| 178 | 10.065 | 10.054 | 10.082 | VV | 634 | 7088 | 0.08% | 0.022% |
| 179 | 10.106 | 10.082 | 10.110 | VV | 1358 | 15173 | 0.16% | 0.048% |
| 180 | 10.114 | 10.110 | 10.131 | VV | 1405 | 14020 | 0.15% | 0.044% |
| 181 | 10.155 | 10.131 | 10.172 | VV | 1318 | 26526 | 0.29% | 0.084% |
| 182 | 10.195 | 10.172 | 10.214 | VV | 1278 | 25662 | 0.28% | 0.081% |
| 183 | 10.219 | 10.214 | 10.236 | VV | 1334 | 15632 | 0.17% | 0.049% |
| 184 | 10.252 | 10.236 | 10.287 | VV | 1281 | 29240 | 0.31% | 0.092% |
| 185 | 10.310 | 10.287 | 10.324 | VV | 1202 | 18770 | 0.20% | 0.059% |
| 186 | 10.346 | 10.324 | 10.359 | VV | 1376 | 22760 | 0.24% | 0.072% |
| 187 | 10.378 | 10.359 | 10.403 | VV | 2794 | 44117 | 0.47% | 0.139% |
| 188 | 10.432 | 10.403 | 10.460 | VV | 947 | 22755 | 0.24% | 0.072% |
| 189 | 10.474 | 10.460 | 10.490 | VV | 842 | 11967 | 0.13% | 0.038% |
| 190 | 10.501 | 10.490 | 10.517 | VV | 571 | 7467 | 0.08% | 0.024% |
| 191 | 10.538 | 10.517 | 10.553 | VV | 949 | 14332 | 0.15% | 0.045% |
| 192 | 10.558 | 10.553 | 10.607 | VV | 919 | 22362 | 0.24% | 0.070% |
| 193 | 10.613 | 10.607 | 10.636 | VV | 745 | 9139 | 0.10% | 0.029% |
| 194 | 10.649 | 10.636 | 10.655 | VV | 745 | 7298 | 0.08% | 0.023% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 10.676 | 10.655 | 10.701 | VV | 1307 | 22081 | 0.24% | 0.070% |
| 196 | 10.707 | 10.701 | 10.727 | VV | 610 | 5931 | 0.06% | 0.019% |
| 197 | 10.744 | 10.727 | 10.754 | VV | 582 | 7056 | 0.08% | 0.022% |
| 198 | 10.765 | 10.754 | 10.774 | VV | 553 | 4689 | 0.05% | 0.015% |
| 199 | 10.776 | 10.774 | 10.783 | VV | 341 | 1548 | 0.02% | 0.005% |
| 200 | 10.807 | 10.783 | 10.820 | VV | 368 | 5851 | 0.06% | 0.018% |
| 201 | 10.824 | 10.820 | 10.845 | VV | 322 | 2858 | 0.03% | 0.009% |
| 202 | 10.850 | 10.845 | 10.866 | VV | 288 | 2353 | 0.03% | 0.007% |
| 203 | 10.885 | 10.866 | 10.910 | VV | 1010 | 13332 | 0.14% | 0.042% |
| 204 | 10.953 | 10.910 | 10.983 | VV | 2151 | 33964 | 0.37% | 0.107% |
| 205 | 11.004 | 10.983 | 11.017 | VV | 572 | 8791 | 0.09% | 0.028% |
| 206 | 11.035 | 11.017 | 11.081 | VV | 969 | 20609 | 0.22% | 0.065% |
| 207 | 11.088 | 11.081 | 11.097 | VV | 429 | 2381 | 0.03% | 0.008% |
| 208 | 11.101 | 11.097 | 11.123 | VV | 327 | 3129 | 0.03% | 0.010% |
| 209 | 11.145 | 11.123 | 11.167 | PV | 563 | 8956 | 0.10% | 0.028% |
| 210 | 11.184 | 11.167 | 11.214 | VV | 447 | 8186 | 0.09% | 0.026% |
| 211 | 11.251 | 11.214 | 11.302 | VV | 525080 | 5542829 | 59.58% | 17.474% |
| 212 | 11.305 | 11.302 | 11.324 | VV | 1127 | 13182 | 0.14% | 0.042% |
| 213 | 11.336 | 11.324 | 11.365 | VV | 1353 | 25764 | 0.28% | 0.081% |
| 214 | 11.373 | 11.365 | 11.394 | VV | 961 | 13924 | 0.15% | 0.044% |
| 215 | 11.420 | 11.394 | 11.460 | VV | 1611 | 34056 | 0.37% | 0.107% |
| 216 | 11.468 | 11.460 | 11.494 | VV | 635 | 10045 | 0.11% | 0.032% |
| 217 | 11.515 | 11.494 | 11.532 | VV | 766 | 13502 | 0.15% | 0.043% |
| 218 | 11.538 | 11.532 | 11.554 | VV | 616 | 7343 | 0.08% | 0.023% |
| 219 | 11.581 | 11.554 | 11.595 | VV | 1263 | 22594 | 0.24% | 0.071% |
| 220 | 11.608 | 11.595 | 11.631 | VV | 1711 | 24778 | 0.27% | 0.078% |
| 221 | 11.673 | 11.631 | 11.697 | VV | 5855 | 85011 | 0.91% | 0.268% |
| 222 | 11.708 | 11.697 | 11.731 | VV | 1015 | 15554 | 0.17% | 0.049% |
| 223 | 11.747 | 11.731 | 11.761 | VV | 892 | 13035 | 0.14% | 0.041% |
| 224 | 11.772 | 11.761 | 11.795 | VV | 849 | 12181 | 0.13% | 0.038% |
| 225 | 11.830 | 11.795 | 11.846 | VV | 2063 | 37669 | 0.40% | 0.119% |
| 226 | 11.868 | 11.846 | 11.939 | VV | 15570 | 230451 | 2.48% | 0.727% |
| 227 | 11.944 | 11.939 | 11.972 | VV | 991 | 15024 | 0.16% | 0.047% |
| 228 | 11.983 | 11.972 | 11.990 | VV | 832 | 8484 | 0.09% | 0.027% |
| 229 | 12.018 | 11.990 | 12.041 | VV | 912 | 24356 | 0.26% | 0.077% |
| 230 | 12.090 | 12.041 | 12.099 | VV | 1613 | 37088 | 0.40% | 0.117% |
| 231 | 12.121 | 12.099 | 12.141 | VV | 6526 | 89503 | 0.96% | 0.282% |
| 232 | 12.160 | 12.141 | 12.180 | VV | 6325 | 79157 | 0.85% | 0.250% |
| 233 | 12.194 | 12.180 | 12.222 | VV | 1839 | 26135 | 0.28% | 0.082% |
| 234 | 12.254 | 12.222 | 12.292 | VV | 2679 | 48030 | 0.52% | 0.151% |
| 235 | 12.318 | 12.292 | 12.375 | VV | 1993 | 47844 | 0.51% | 0.151% |
| 236 | 12.383 | 12.375 | 12.422 | VV | 650 | 12737 | 0.14% | 0.040% |
| 237 | 12.425 | 12.422 | 12.439 | VV | 307 | 1574 | 0.02% | 0.005% |
| 238 | 12.450 | 12.439 | 12.462 | PV | 271 | 2507 | 0.03% | 0.008% |
| 239 | 12.475 | 12.462 | 12.480 | VV | 398 | 3030 | 0.03% | 0.010% |
| 240 | 12.491 | 12.480 | 12.495 | VV | 369 | 2812 | 0.03% | 0.009% |
| 241 | 12.533 | 12.495 | 12.554 | VV | 944 | 20070 | 0.22% | 0.063% |
| 242 | 12.556 | 12.554 | 12.573 | VV | 530 | 5168 | 0.06% | 0.016% |
| 243 | 12.580 | 12.573 | 12.591 | VV | 595 | 4508 | 0.05% | 0.014% |
| 244 | 12.618 | 12.591 | 12.646 | VV | 14091 | 174712 | 1.88% | 0.551% |
| 245 | 12.692 | 12.646 | 12.727 | VV | 127342 | 1516960 | 16.30% | 4.782% |
| 246 | 12.741 | 12.727 | 12.765 | VV | 1241 | 24903 | 0.27% | 0.079% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 247 | 12.772 | 12.765 | 12.801 | VV | 1072 | 16302 | 0.18% | 0.051% |
| 248 | 12.808 | 12.801 | 12.816 | VV | 628 | 5084 | 0.05% | 0.016% |
| 249 | 12.819 | 12.816 | 12.821 | VV | 603 | 1868 | 0.02% | 0.006% |
| 250 | 12.828 | 12.821 | 12.840 | VV | 632 | 6398 | 0.07% | 0.020% |
| 251 | 12.860 | 12.840 | 12.889 | VV | 1108 | 25866 | 0.28% | 0.082% |
| 252 | 12.919 | 12.889 | 12.959 | VV | 3809 | 70620 | 0.76% | 0.223% |
| 253 | 12.970 | 12.959 | 12.987 | VV | 897 | 13913 | 0.15% | 0.044% |
| 254 | 12.996 | 12.987 | 13.025 | VV | 821 | 15098 | 0.16% | 0.048% |
| 255 | 13.031 | 13.025 | 13.034 | VV | 600 | 2777 | 0.03% | 0.009% |
| 256 | 13.057 | 13.034 | 13.063 | VV | 998 | 14913 | 0.16% | 0.047% |
| 257 | 13.093 | 13.063 | 13.139 | VV | 4589 | 98890 | 1.06% | 0.312% |
| 258 | 13.147 | 13.139 | 13.176 | VV | 1535 | 22866 | 0.25% | 0.072% |
| 259 | 13.183 | 13.176 | 13.205 | VV | 811 | 11353 | 0.12% | 0.036% |
| 260 | 13.208 | 13.205 | 13.215 | VV | 658 | 3905 | 0.04% | 0.012% |
| 261 | 13.224 | 13.215 | 13.258 | VV | 799 | 16941 | 0.18% | 0.053% |
| 262 | 13.291 | 13.258 | 13.338 | VV | 3415 | 72552 | 0.78% | 0.229% |
| 263 | 13.361 | 13.338 | 13.367 | VV | 882 | 12712 | 0.14% | 0.040% |
| 264 | 13.395 | 13.367 | 13.425 | VV | 2386 | 45803 | 0.49% | 0.144% |
| 265 | 13.445 | 13.425 | 13.475 | VV | 2801 | 39676 | 0.43% | 0.125% |
| 266 | 13.481 | 13.475 | 13.525 | VV | 513 | 11162 | 0.12% | 0.035% |
| 267 | 13.548 | 13.525 | 13.554 | VV | 454 | 6213 | 0.07% | 0.020% |
| 268 | 13.558 | 13.554 | 13.567 | VV | 464 | 3208 | 0.03% | 0.010% |
| 269 | 13.570 | 13.567 | 13.592 | VV | 445 | 5245 | 0.06% | 0.017% |
| 270 | 13.599 | 13.592 | 13.614 | VV | 352 | 4271 | 0.05% | 0.013% |
| 271 | 13.621 | 13.614 | 13.652 | VV | 449 | 7357 | 0.08% | 0.023% |
| 272 | 13.661 | 13.652 | 13.667 | VV | 461 | 3384 | 0.04% | 0.011% |
| 273 | 13.675 | 13.667 | 13.697 | VV | 575 | 6835 | 0.07% | 0.022% |
| 274 | 13.735 | 13.697 | 13.762 | VV | 630 | 15559 | 0.17% | 0.049% |
| 275 | 13.780 | 13.762 | 13.790 | VV | 572 | 7196 | 0.08% | 0.023% |
| 276 | 13.804 | 13.790 | 13.826 | VV | 799 | 12147 | 0.13% | 0.038% |
| 277 | 13.876 | 13.826 | 13.904 | VV | 1526 | 44588 | 0.48% | 0.141% |
| 278 | 13.905 | 13.904 | 13.927 | VV | 884 | 9689 | 0.10% | 0.031% |
| 279 | 13.936 | 13.927 | 13.953 | VV | 718 | 9777 | 0.11% | 0.031% |
| 280 | 13.961 | 13.953 | 13.982 | VV | 685 | 11281 | 0.12% | 0.036% |
| 281 | 14.004 | 13.982 | 14.027 | VV | 1432 | 24710 | 0.27% | 0.078% |
| 282 | 14.033 | 14.027 | 14.035 | VV | 675 | 2853 | 0.03% | 0.009% |
| 283 | 14.042 | 14.035 | 14.055 | VV | 723 | 7710 | 0.08% | 0.024% |
| 284 | 14.072 | 14.055 | 14.077 | VV | 644 | 7843 | 0.08% | 0.025% |
| 285 | 14.098 | 14.077 | 14.120 | VV | 1390 | 26822 | 0.29% | 0.085% |
| 286 | 14.126 | 14.120 | 14.130 | VV | 901 | 5007 | 0.05% | 0.016% |
| 287 | 14.139 | 14.130 | 14.159 | VV | 1053 | 15404 | 0.17% | 0.049% |
| 288 | 14.174 | 14.159 | 14.192 | VV | 872 | 14142 | 0.15% | 0.045% |
| 289 | 14.217 | 14.192 | 14.239 | VV | 1052 | 23899 | 0.26% | 0.075% |
| 290 | 14.244 | 14.239 | 14.248 | VV | 924 | 4637 | 0.05% | 0.015% |
| 291 | 14.253 | 14.248 | 14.283 | VV | 1029 | 17615 | 0.19% | 0.056% |
| 292 | 14.304 | 14.283 | 14.320 | VV | 1225 | 20719 | 0.22% | 0.065% |
| 293 | 14.323 | 14.320 | 14.334 | VV | 1082 | 6929 | 0.07% | 0.022% |
| 294 | 14.347 | 14.334 | 14.372 | VV | 1064 | 17610 | 0.19% | 0.056% |
| 295 | 14.388 | 14.372 | 14.401 | VV | 747 | 10180 | 0.11% | 0.032% |
| 296 | 14.409 | 14.401 | 14.417 | VV | 612 | 5506 | 0.06% | 0.017% |
| 297 | 14.427 | 14.417 | 14.434 | VV | 713 | 6029 | 0.06% | 0.019% |
| 298 | 14.441 | 14.434 | 14.474 | VV | 840 | 16259 | 0.17% | 0.051% |
| 299 | 14.501 | 14.474 | 14.521 | VV | 2173 | 37351 | 0.40% | 0.118% |

rteres

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|---|---|---|---|---|---|---|---|---|
| 300 | 14.541 | 14.521 | 14.577 | VV | 3331 | 56767 | 0.61% | 0.179% |
| 301 | 14.586 | 14.577 | 14.612 | VV | 1151 | 16048 | 0.17% | 0.051% |
| 302 | 14.629 | 14.612 | 14.639 | VV | 539 | 7655 | 0.08% | 0.024% |
| 303 | 14.642 | 14.639 | 14.648 | VV | 641 | 3046 | 0.03% | 0.010% |
| 304 | 14.659 | 14.648 | 14.692 | VV | 595 | 12454 | 0.13% | 0.039% |
| 305 | 14.714 | 14.692 | 14.739 | VV | 709 | 15784 | 0.17% | 0.050% |
| 306 | 14.749 | 14.739 | 14.780 | VV | 708 | 11320 | 0.12% | 0.036% |
| 307 | 14.815 | 14.780 | 14.830 | VV | 497 | 9982 | 0.11% | 0.031% |
| 308 | 14.844 | 14.830 | 14.864 | VV | 542 | 7938 | 0.09% | 0.025% |
| 309 | 14.867 | 14.864 | 14.878 | VV | 405 | 2724 | 0.03% | 0.009% |
| 310 | 14.918 | 14.878 | 14.996 | VV | 15906 | 334367 | 3.59% | 1.054% |
| 311 | 15.001 | 14.996 | 15.012 | VV | 1260 | 11581 | 0.12% | 0.037% |
| 312 | 15.023 | 15.012 | 15.039 | VV | 1356 | 19277 | 0.21% | 0.061% |
| 313 | 15.069 | 15.039 | 15.097 | VV | 5781 | 96836 | 1.04% | 0.305% |
| 314 | 15.107 | 15.097 | 15.130 | VV | 853 | 12987 | 0.14% | 0.041% |
| 315 | 15.156 | 15.130 | 15.172 | VV | 805 | 14347 | 0.15% | 0.045% |
| 316 | 15.181 | 15.172 | 15.189 | VV | 748 | 6239 | 0.07% | 0.020% |
| 317 | 15.192 | 15.189 | 15.224 | VV | 739 | 11221 | 0.12% | 0.035% |
| 318 | 15.257 | 15.224 | 15.282 | VV | 1247 | 25450 | 0.27% | 0.080% |
| 319 | 15.302 | 15.282 | 15.329 | VV | 589 | 11329 | 0.12% | 0.036% |
| 320 | 15.386 | 15.329 | 15.392 | VV | 936 | 24252 | 0.26% | 0.076% |
| 321 | 15.405 | 15.392 | 15.430 | VV | 876 | 17195 | 0.18% | 0.054% |
| 322 | 15.449 | 15.430 | 15.471 | VV | 954 | 17833 | 0.19% | 0.056% |
| 323 | 15.478 | 15.471 | 15.497 | VV | 631 | 7357 | 0.08% | 0.023% |
| 324 | 15.518 | 15.497 | 15.535 | VV | 1269 | 20035 | 0.22% | 0.063% |
| 325 | 15.557 | 15.535 | 15.590 | VV | 3200 | 50899 | 0.55% | 0.160% |
| 326 | 15.604 | 15.590 | 15.613 | VV | 1037 | 9917 | 0.11% | 0.031% |
| 327 | 15.618 | 15.613 | 15.650 | VV | 930 | 8405 | 0.09% | 0.026% |
| 328 | 15.667 | 15.650 | 15.681 | VV | 290 | 2919 | 0.03% | 0.009% |
| 329 | 15.710 | 15.688 | 15.717 | VV | 409 | 3662 | 0.04% | 0.012% |
| 330 | 15.720 | 15.717 | 15.724 | VV | 332 | 1162 | 0.01% | 0.004% |
| 331 | 15.734 | 15.724 | 15.752 | VV | 320 | 3862 | 0.04% | 0.012% |
| 332 | 15.756 | 15.752 | 15.769 | VV | 181 | 1544 | 0.02% | 0.005% |
| 333 | 15.777 | 15.769 | 15.799 | VV | 252 | 2561 | 0.03% | 0.008% |
| 334 | 15.807 | 15.799 | 15.819 | VV | 345 | 2658 | 0.03% | 0.008% |
| 335 | 15.824 | 15.819 | 15.834 | VV | 275 | 1702 | 0.02% | 0.005% |
| 336 | 15.858 | 15.834 | 15.865 | VV | 322 | 3993 | 0.04% | 0.013% |
| 337 | 15.869 | 15.865 | 15.884 | VV | 378 | 2628 | 0.03% | 0.008% |
| 338 | 15.930 | 15.884 | 15.995 | PV | 4418 | 107403 | 1.15% | 0.339% |
| 339 | 16.006 | 15.995 | 16.017 | VV | 774 | 8519 | 0.09% | 0.027% |
| 340 | 16.038 | 16.017 | 16.084 | VV | 2340 | 41530 | 0.45% | 0.131% |
| 341 | 16.114 | 16.084 | 16.139 | VV | 3120 | 48287 | 0.52% | 0.152% |
| 342 | 16.143 | 16.139 | 16.148 | VV | 403 | 1856 | 0.02% | 0.006% |
| 343 | 16.179 | 16.148 | 16.212 | VV | 1075 | 27108 | 0.29% | 0.085% |
| 344 | 16.223 | 16.212 | 16.252 | VV | 1031 | 18250 | 0.20% | 0.058% |
| 345 | 16.256 | 16.252 | 16.262 | VV | 690 | 3646 | 0.04% | 0.011% |
| 346 | 16.268 | 16.262 | 16.294 | VV | 854 | 13190 | 0.14% | 0.042% |
| 347 | 16.318 | 16.294 | 16.335 | VV | 1666 | 27072 | 0.29% | 0.085% |
| 348 | 16.356 | 16.335 | 16.374 | VV | 1174 | 19817 | 0.21% | 0.062% |
| 349 | 16.393 | 16.374 | 16.396 | VV | 1215 | 13563 | 0.15% | 0.043% |
| 350 | 16.413 | 16.396 | 16.421 | VV | 1443 | 17952 | 0.19% | 0.057% |
| 351 | 16.428 | 16.421 | 16.444 | VV | 802 | 9347 | 0.10% | 0.029% |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 352 | 16.469 | 16.444 | 16.481 | VV | 1750 | 28535 | 0.31% | 0.090% |
| 353 | 16.502 | 16.481 | 16.522 | VV | 3358 | 53202 | 0.57% | 0.168% |
| 354 | 16.544 | 16.522 | 16.565 | VV | 10906 | 143598 | 1.54% | 0.453% |
| 355 | 16.576 | 16.565 | 16.685 | VV | 2603 | 54152 | 0.58% | 0.171% |
| 356 | 16.697 | 16.685 | 16.700 | VV | 288 | 1978 | 0.02% | 0.006% |
| 357 | 16.706 | 16.700 | 16.724 | VV | 325 | 3320 | 0.04% | 0.010% |
| 358 | 16.739 | 16.724 | 16.753 | PV | 207 | 1882 | 0.02% | 0.006% |
| 359 | 16.803 | 16.753 | 16.830 | VV | 1195 | 24596 | 0.26% | 0.078% |
| 360 | 16.869 | 16.830 | 16.915 | VV | 2062 | 47427 | 0.51% | 0.150% |
| 361 | 16.948 | 16.915 | 16.975 | VV | 3864 | 63300 | 0.68% | 0.200% |
| 362 | 16.988 | 16.975 | 17.000 | VV | 496 | 5517 | 0.06% | 0.017% |
| 363 | 17.029 | 17.000 | 17.050 | VV | 740 | 14438 | 0.16% | 0.046% |
| 364 | 17.052 | 17.050 | 17.065 | VV | 728 | 4965 | 0.05% | 0.016% |
| 365 | 17.075 | 17.065 | 17.119 | VV | 617 | 13154 | 0.14% | 0.041% |
| 366 | 17.128 | 17.119 | 17.150 | VV | 451 | 6526 | 0.07% | 0.021% |
| 367 | 17.152 | 17.150 | 17.159 | VV | 385 | 1020 | 0.01% | 0.003% |
| 368 | 17.188 | 17.159 | 17.212 | VV | 527 | 10637 | 0.11% | 0.034% |
| 369 | 17.241 | 17.212 | 17.265 | VV | 433 | 10079 | 0.11% | 0.032% |
| 370 | 17.272 | 17.265 | 17.301 | VV | 521 | 8213 | 0.09% | 0.026% |
| 371 | 17.383 | 17.301 | 17.413 | VV | 3898 | 88259 | 0.95% | 0.278% |
| 372 | 17.430 | 17.413 | 17.437 | VV | 459 | 5350 | 0.06% | 0.017% |
| 373 | 17.471 | 17.437 | 17.505 | VV | 4029 | 62768 | 0.67% | 0.198% |
| 374 | 17.551 | 17.505 | 17.635 | VV | 11931 | 247454 | 2.66% | 0.780% |
| 375 | 17.646 | 17.635 | 17.653 | VV | 594 | 4847 | 0.05% | 0.015% |
| 376 | 17.699 | 17.653 | 17.718 | VV | 15744 | 225546 | 2.42% | 0.711% |
| 377 | 17.737 | 17.718 | 17.785 | VV | 12686 | 277021 | 2.98% | 0.873% |
| 378 | 17.804 | 17.785 | 17.837 | VV | 5229 | 92226 | 0.99% | 0.291% |
| 379 | 17.846 | 17.837 | 17.864 | VV | 709 | 8695 | 0.09% | 0.027% |
| 380 | 17.889 | 17.864 | 17.911 | VV | 1502 | 27813 | 0.30% | 0.088% |
| 381 | 17.923 | 17.911 | 17.945 | VV | 942 | 14548 | 0.16% | 0.046% |
| 382 | 17.950 | 17.945 | 17.961 | VV | 429 | 2916 | 0.03% | 0.009% |
| 383 | 17.964 | 17.961 | 17.968 | VV | 284 | 1104 | 0.01% | 0.003% |
| 384 | 18.009 | 17.968 | 18.076 | VV | 1199 | 38567 | 0.41% | 0.122% |
| 385 | 18.096 | 18.076 | 18.100 | PV | 527 | 4912 | 0.05% | 0.015% |
| 386 | 18.113 | 18.100 | 18.134 | VV | 466 | 6643 | 0.07% | 0.021% |
| 387 | 18.160 | 18.134 | 18.184 | PV | 1663 | 23858 | 0.26% | 0.075% |

Sum of corrected areas: 31720572

Aromatic EPH 111424.M Tue Nov 19 06:18:23 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014869.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 13:43
Operator : YP\AJ
Sample : P4860-02
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

Integration File: autoint1.e
Quant Time: Nov 20 00:36:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 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... | 13.387 | 4711588 | 42.398 ug/mlm |
| Spiked Amount 50.000 | | Recovery = 84.80% | |
| Target Compounds | | | |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014869.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 13:43
Operator : YP\AJ
Sample : P4860-02
Misc :
ALS Vial : 27 Sample Multiplier: 1

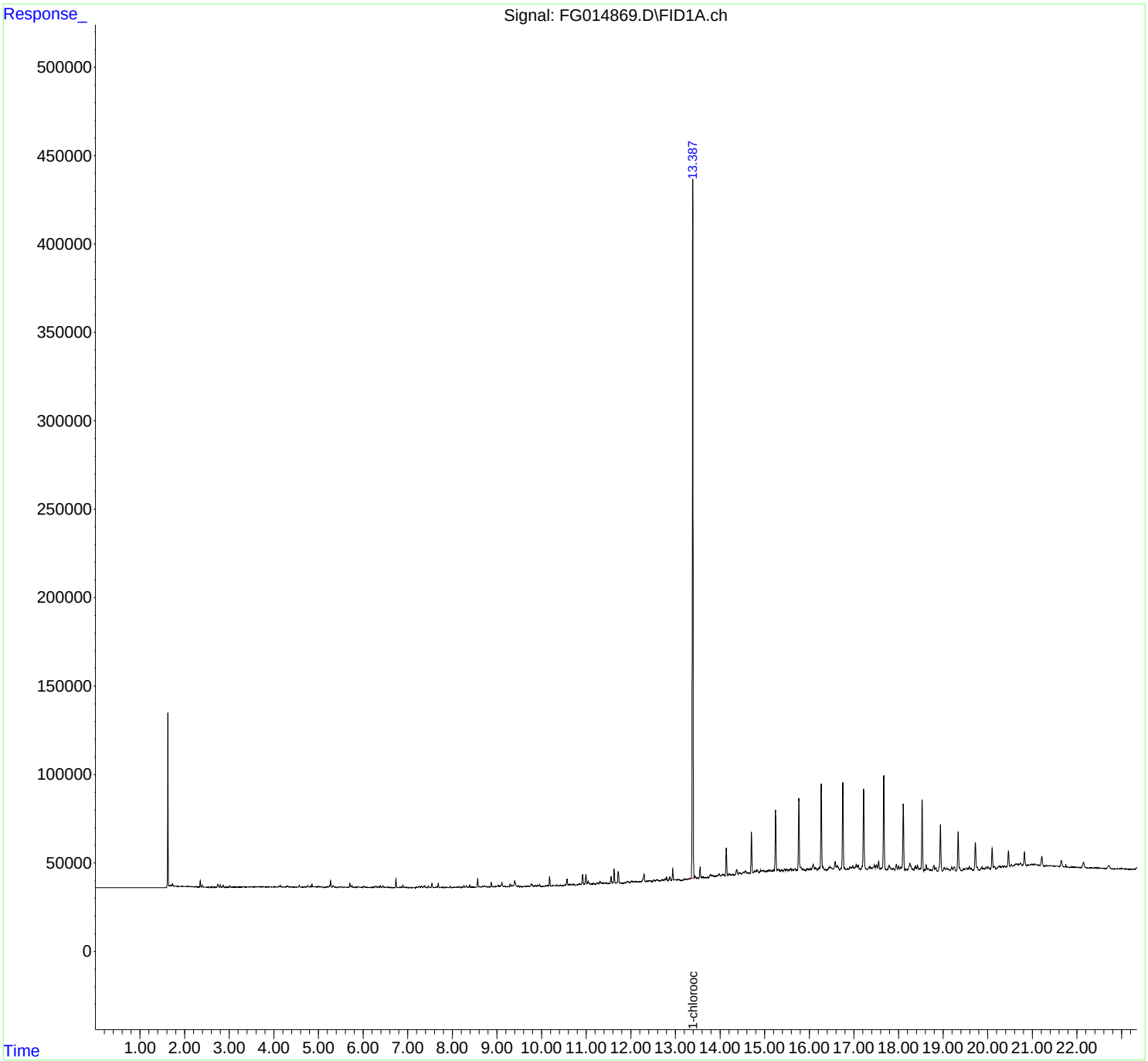
Integration File: autoint1.e
Quant Time: Nov 20 00:36:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

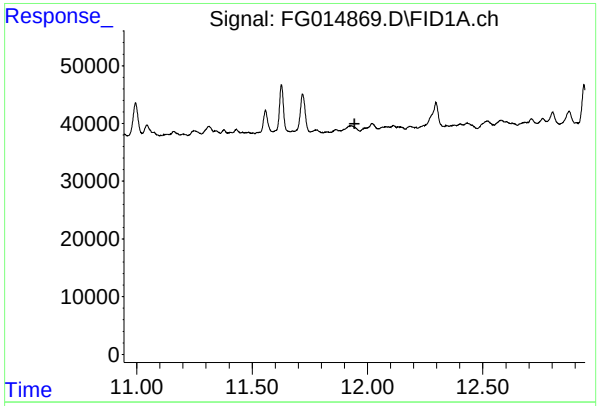
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024





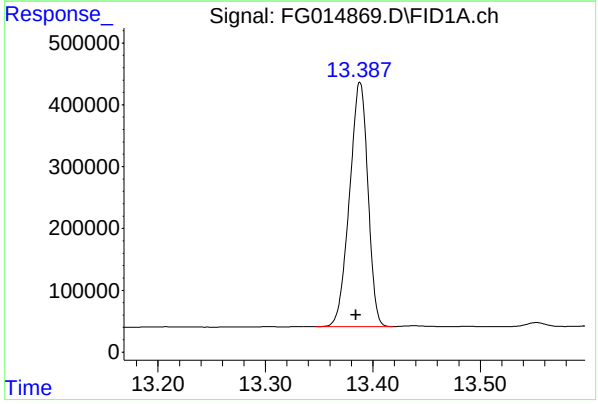

#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.944 min
Response: 0
Conc: N.D.

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024




#12 1-chlorooctadecane (SURR)

R.T.: 13.387 min
Delta R.T.: 0.003 min
Response: 4711588
Conc: 42.40 ug/ml m

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11192
Data File : FG014869.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 13:43
Sample : P4860-02
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\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 | 3.222 | 3.289 | BV | 53 | 613 | 0.01% | 0.002% |
| 2 | 3.296 | 3.289 | 3.302 | VV | 83 | 418 | 0.01% | 0.001% |
| 3 | 3.322 | 3.302 | 3.357 | VV | 329 | 4949 | 0.10% | 0.015% |
| 4 | 3.436 | 3.357 | 3.452 | PV | 124 | 4326 | 0.09% | 0.013% |
| 5 | 3.462 | 3.452 | 3.487 | VV | 164 | 2335 | 0.05% | 0.007% |
| 6 | 3.498 | 3.487 | 3.512 | VV | 129 | 1861 | 0.04% | 0.006% |
| 7 | 3.569 | 3.512 | 3.599 | VV | 266 | 8725 | 0.18% | 0.027% |
| 8 | 3.631 | 3.599 | 3.642 | VV | 264 | 5221 | 0.11% | 0.016% |
| 9 | 3.656 | 3.642 | 3.665 | VV | 275 | 3277 | 0.07% | 0.010% |
| 10 | 3.676 | 3.665 | 3.691 | VV | 250 | 3268 | 0.07% | 0.010% |
| 11 | 3.710 | 3.691 | 3.742 | VV | 390 | 7399 | 0.15% | 0.023% |
| 12 | 3.767 | 3.742 | 3.813 | VV | 422 | 8411 | 0.18% | 0.026% |
| 13 | 3.849 | 3.813 | 3.882 | VV | 250 | 6072 | 0.13% | 0.019% |
| 14 | 3.904 | 3.882 | 3.942 | VV | 364 | 7164 | 0.15% | 0.022% |
| 15 | 3.958 | 3.942 | 3.981 | VV | 172 | 2600 | 0.05% | 0.008% |
| 16 | 4.001 | 3.981 | 4.026 | VV | 278 | 5335 | 0.11% | 0.017% |
| 17 | 4.033 | 4.026 | 4.066 | VV | 227 | 3335 | 0.07% | 0.010% |
| 18 | 4.111 | 4.066 | 4.128 | VV | 794 | 11216 | 0.23% | 0.035% |
| 19 | 4.145 | 4.128 | 4.165 | VV | 982 | 11355 | 0.24% | 0.035% |
| 20 | 4.181 | 4.165 | 4.201 | VV | 226 | 3612 | 0.08% | 0.011% |
| 21 | 4.220 | 4.201 | 4.252 | VV | 365 | 5908 | 0.12% | 0.018% |
| 22 | 4.293 | 4.252 | 4.304 | VV | 755 | 10556 | 0.22% | 0.033% |
| 23 | 4.315 | 4.304 | 4.329 | VV | 813 | 8414 | 0.18% | 0.026% |
| 24 | 4.339 | 4.329 | 4.369 | VV | 362 | 5904 | 0.12% | 0.018% |
| 25 | 4.398 | 4.369 | 4.438 | VV | 458 | 8251 | 0.17% | 0.026% |
| 26 | 4.468 | 4.438 | 4.495 | VV | 302 | 5361 | 0.11% | 0.017% |
| 27 | 4.510 | 4.495 | 4.544 | VV | 259 | 5185 | 0.11% | 0.016% |
| 28 | 4.570 | 4.544 | 4.595 | VV | 1216 | 15297 | 0.32% | 0.047% |
| 29 | 4.607 | 4.595 | 4.624 | VV | 294 | 3470 | 0.07% | 0.011% |
| 30 | 4.644 | 4.624 | 4.668 | VV | 232 | 4202 | 0.09% | 0.013% |
| 31 | 4.696 | 4.668 | 4.712 | VV | 406 | 6314 | 0.13% | 0.020% |
| 32 | 4.758 | 4.712 | 4.785 | VV | 1076 | 18019 | 0.38% | 0.056% |
| 33 | 4.791 | 4.785 | 4.804 | VV | 334 | 3101 | 0.06% | 0.010% |
| 34 | 4.822 | 4.804 | 4.836 | VV | 908 | 10605 | 0.22% | 0.033% |
| 35 | 4.854 | 4.836 | 4.873 | VV | 2002 | 21909 | 0.46% | 0.068% |
| 36 | 4.891 | 4.873 | 4.903 | VV | 511 | 7811 | 0.16% | 0.024% |

Page 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

rteres

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|---|---|---|---|---|---|---|---|---|
| 37 | 4.914 | 4.903 | 4.948 | VV | 435 | 10013 | 0.21% | 0.031% |
| 38 | 4.991 | 4.948 | 5.016 | VV | 816 | 18993 | | |
| 39 | 5.029 | 5.016 | 5.048 | VV | 452 | 7182 | | |
| 40 | 5.081 | 5.048 | 5.116 | VV | 492 | 12112 | | |
| 41 | 5.145 | 5.116 | 5.165 | VV | 258 | 4314 | | |
| 42 | 5.183 | 5.165 | 5.199 | VV | 534 | 5936 | | |
| 43 | 5.214 | 5.199 | 5.229 | VV | 553 | 6866 | 0.14% | 0.021% |
| 44 | 5.272 | 5.229 | 5.302 | VV | 3921 | 56972 | 1.19% | 0.177% |
| 45 | 5.330 | 5.302 | 5.375 | VV | 1246 | 22654 | 0.47% | 0.070% |
| 46 | 5.388 | 5.375 | 5.427 | VV | 588 | 7645 | 0.16% | 0.024% |
| 47 | 5.458 | 5.427 | 5.468 | PV | 361 | 5053 | 0.11% | 0.016% |
| 48 | 5.486 | 5.468 | 5.500 | VV | 443 | 6976 | 0.15% | 0.022% |
| 49 | 5.515 | 5.500 | 5.538 | VV | 512 | 7866 | 0.16% | 0.024% |
| 50 | 5.549 | 5.538 | 5.565 | VV | 297 | 3994 | 0.08% | 0.012% |
| 51 | 5.582 | 5.565 | 5.599 | VV | 428 | 6260 | 0.13% | 0.019% |
| 52 | 5.611 | 5.599 | 5.633 | VV | 291 | 4415 | 0.09% | 0.014% |
| 53 | 5.649 | 5.633 | 5.682 | VV | 305 | 5572 | 0.12% | 0.017% |
| 54 | 5.706 | 5.682 | 5.732 | VV | 2374 | 30342 | 0.63% | 0.094% |
| 55 | 5.751 | 5.732 | 5.772 | VV | 1193 | 14388 | 0.30% | 0.045% |
| 56 | 5.785 | 5.772 | 5.795 | VV | 212 | 2362 | 0.05% | 0.007% |
| 57 | 5.811 | 5.795 | 5.845 | VV | 301 | 6889 | 0.14% | 0.021% |
| 58 | 5.859 | 5.845 | 5.867 | VV | 272 | 2869 | 0.06% | 0.009% |
| 59 | 5.895 | 5.867 | 5.942 | VV | 728 | 17393 | 0.36% | 0.054% |
| 60 | 5.970 | 5.942 | 5.985 | VV | 339 | 5793 | 0.12% | 0.018% |
| 61 | 6.009 | 5.985 | 6.052 | VV | 785 | 16970 | 0.35% | 0.053% |
| 62 | 6.075 | 6.052 | 6.109 | VV | 424 | 7979 | 0.17% | 0.025% |
| 63 | 6.139 | 6.109 | 6.160 | VV | 309 | 4905 | 0.10% | 0.015% |
| 64 | 6.188 | 6.160 | 6.204 | PV | 420 | 4714 | 0.10% | 0.015% |
| 65 | 6.239 | 6.204 | 6.258 | VV | 520 | 8934 | 0.19% | 0.028% |
| 66 | 6.294 | 6.258 | 6.317 | VV | 754 | 18324 | 0.38% | 0.057% |
| 67 | 6.339 | 6.317 | 6.362 | VV | 758 | 11690 | 0.24% | 0.036% |
| 68 | 6.383 | 6.362 | 6.411 | VV | 1192 | 16085 | 0.34% | 0.050% |
| 69 | 6.445 | 6.411 | 6.466 | VV | 1162 | 19181 | 0.40% | 0.059% |
| 70 | 6.475 | 6.466 | 6.499 | VV | 412 | 6080 | 0.13% | 0.019% |
| 71 | 6.529 | 6.499 | 6.547 | VV | 477 | 10246 | 0.21% | 0.032% |
| 72 | 6.561 | 6.547 | 6.595 | VV | 358 | 7117 | 0.15% | 0.022% |
| 73 | 6.613 | 6.595 | 6.648 | VV | 380 | 7237 | 0.15% | 0.022% |
| 74 | 6.659 | 6.648 | 6.714 | VV | 174 | 5199 | 0.11% | 0.016% |
| 75 | 6.738 | 6.714 | 6.808 | VV | 4939 | 55237 | 1.15% | 0.171% |
| 76 | 6.826 | 6.808 | 6.845 | VV | 648 | 7036 | 0.15% | 0.022% |
| 77 | 6.862 | 6.845 | 6.873 | VV | 434 | 4184 | 0.09% | 0.013% |
| 78 | 6.893 | 6.873 | 6.914 | VV | 1641 | 18774 | 0.39% | 0.058% |
| 79 | 6.929 | 6.914 | 6.948 | VV | 533 | 5907 | 0.12% | 0.018% |
| 80 | 6.967 | 6.948 | 7.004 | VV | 645 | 7891 | 0.16% | 0.024% |
| 81 | 7.022 | 7.004 | 7.042 | VV | 208 | 2707 | 0.06% | 0.008% |
| 82 | 7.070 | 7.042 | 7.095 | VV | 253 | 4269 | 0.09% | 0.013% |
| 83 | 7.142 | 7.095 | 7.165 | VV | 213 | 4308 | 0.09% | 0.013% |
| 84 | 7.195 | 7.165 | 7.224 | PV | 631 | 8813 | 0.18% | 0.027% |
| 85 | 7.249 | 7.224 | 7.264 | VV | 912 | 12224 | 0.26% | 0.038% |
| 86 | 7.271 | 7.264 | 7.286 | VV | 602 | 6565 | 0.14% | 0.020% |
| 87 | 7.311 | 7.286 | 7.340 | VV | 876 | 17058 | 0.36% | 0.053% |
| 88 | 7.378 | 7.340 | 7.402 | VV | 1158 | 21505 | 0.45% | 0.067% |
| 89 | 7.416 | 7.402 | 7.436 | VV | 501 | 5733 | 0.12% | 0.018% |

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**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

rteres

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.461 | 7.436 | 7.502 | VV | 1007 | 16139 | 0.34% | 0.050% |
| 91 | 7.544 | 7.502 | 7.592 | VV | 2439 | 32333 | | |
| 92 | 7.624 | 7.592 | 7.634 | VV | 276 | 5743 | | |
| 93 | 7.652 | 7.634 | 7.665 | VV | 535 | 6613 | | |
| 94 | 7.686 | 7.665 | 7.712 | VV | 2411 | 26515 | | |
| 95 | 7.751 | 7.712 | 7.763 | VV | 338 | 5600 | | |
| 96 | 7.780 | 7.763 | 7.805 | VV | 538 | 6785 | 0.14% | 0.021% |
| 97 | 7.813 | 7.805 | 7.835 | VV | 154 | 2246 | 0.05% | 0.007% |
| 98 | 7.863 | 7.835 | 7.888 | VV | 435 | 7499 | 0.16% | 0.023% |
| 99 | 7.900 | 7.888 | 7.925 | VV | 163 | 1549 | 0.03% | 0.005% |
| 100 | 7.952 | 7.925 | 7.990 | PV | 925 | 11648 | 0.24% | 0.036% |
| 101 | 8.032 | 7.990 | 8.043 | VV | 278 | 5697 | 0.12% | 0.018% |
| 102 | 8.055 | 8.043 | 8.067 | VV | 247 | 2651 | 0.06% | 0.008% |
| 103 | 8.088 | 8.067 | 8.099 | VV | 281 | 3769 | 0.08% | 0.012% |
| 104 | 8.119 | 8.099 | 8.135 | VV | 400 | 6264 | 0.13% | 0.019% |
| 105 | 8.149 | 8.135 | 8.160 | VV | 424 | 4986 | 0.10% | 0.015% |
| 106 | 8.172 | 8.160 | 8.191 | VV | 423 | 4627 | 0.10% | 0.014% |
| 107 | 8.217 | 8.191 | 8.236 | VV | 524 | 6329 | 0.13% | 0.020% |
| 108 | 8.262 | 8.236 | 8.283 | VV | 1166 | 13847 | 0.29% | 0.043% |
| 109 | 8.317 | 8.283 | 8.342 | VV | 1063 | 16545 | 0.35% | 0.051% |
| 110 | 8.360 | 8.342 | 8.369 | VV | 226 | 2662 | 0.06% | 0.008% |
| 111 | 8.389 | 8.369 | 8.413 | VV | 1479 | 16847 | 0.35% | 0.052% |
| 112 | 8.442 | 8.413 | 8.462 | VV | 266 | 5377 | 0.11% | 0.017% |
| 113 | 8.476 | 8.462 | 8.502 | VV | 514 | 6127 | 0.13% | 0.019% |
| 114 | 8.519 | 8.502 | 8.532 | VV | 222 | 2861 | 0.06% | 0.009% |
| 115 | 8.570 | 8.532 | 8.596 | VV | 5159 | 60519 | 1.26% | 0.188% |
| 116 | 8.621 | 8.596 | 8.646 | VV | 412 | 8656 | 0.18% | 0.027% |
| 117 | 8.688 | 8.646 | 8.703 | VV | 619 | 14940 | 0.31% | 0.046% |
| 118 | 8.727 | 8.703 | 8.748 | VV | 1025 | 16550 | 0.35% | 0.051% |
| 119 | 8.765 | 8.748 | 8.788 | VV | 515 | 7765 | 0.16% | 0.024% |
| 120 | 8.807 | 8.788 | 8.834 | VV | 477 | 7847 | 0.16% | 0.024% |
| 121 | 8.874 | 8.834 | 8.894 | VV | 2540 | 31375 | 0.65% | 0.097% |
| 122 | 8.926 | 8.894 | 8.950 | VV | 534 | 13383 | 0.28% | 0.041% |
| 123 | 8.994 | 8.950 | 9.005 | VV | 509 | 14293 | 0.30% | 0.044% |
| 124 | 9.030 | 9.005 | 9.049 | VV | 1130 | 20048 | 0.42% | 0.062% |
| 125 | 9.066 | 9.049 | 9.078 | VV | 862 | 10613 | 0.22% | 0.033% |
| 126 | 9.111 | 9.078 | 9.152 | VV | 2974 | 53879 | 1.12% | 0.167% |
| 127 | 9.163 | 9.152 | 9.213 | VV | 640 | 14174 | 0.30% | 0.044% |
| 128 | 9.232 | 9.213 | 9.246 | VV | 472 | 6503 | 0.14% | 0.020% |
| 129 | 9.259 | 9.246 | 9.275 | VV | 445 | 5777 | 0.12% | 0.018% |
| 130 | 9.297 | 9.275 | 9.316 | VV | 1876 | 23610 | 0.49% | 0.073% |
| 131 | 9.335 | 9.316 | 9.365 | VV | 1083 | 22662 | 0.47% | 0.070% |
| 132 | 9.399 | 9.365 | 9.462 | VV | 3745 | 82029 | 1.71% | 0.254% |
| 133 | 9.486 | 9.462 | 9.511 | VV | 938 | 13783 | 0.29% | 0.043% |
| 134 | 9.534 | 9.511 | 9.567 | VV | 472 | 7671 | 0.16% | 0.024% |
| 135 | 9.593 | 9.567 | 9.616 | PV | 447 | 8054 | 0.17% | 0.025% |
| 136 | 9.621 | 9.616 | 9.630 | VV | 344 | 2801 | 0.06% | 0.009% |
| 137 | 9.662 | 9.630 | 9.672 | VV | 394 | 7326 | 0.15% | 0.023% |
| 138 | 9.702 | 9.672 | 9.741 | VV | 663 | 15041 | 0.31% | 0.047% |
| 139 | 9.772 | 9.741 | 9.830 | VV | 1669 | 40758 | 0.85% | 0.126% |
| 140 | 9.860 | 9.830 | 9.884 | VV | 799 | 15624 | 0.33% | 0.048% |
| 141 | 9.906 | 9.884 | 9.925 | VV | 1011 | 13718 | 0.29% | 0.043% |

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**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

A B C D E F G H I J

rteres

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.959 | 9.925 | 9.984 | VV | 1010 | 18250 | 0.38% | 0.057% |
| 143 | 9.996 | 9.984 | 10.005 | PV | 98 | 904 | | |
| 144 | 10.022 | 10.005 | 10.033 | VV | 129 | 1446 | | |
| 145 | 10.048 | 10.033 | 10.067 | VV | 192 | 2073 | | |
| 146 | 10.099 | 10.067 | 10.117 | PV | 603 | 7879 | | |
| 147 | 10.137 | 10.117 | 10.157 | VV | 482 | 8383 | | |
| 148 | 10.181 | 10.157 | 10.225 | VV | 5462 | 63074 | 1.32% | 0.196% |
| 149 | 10.255 | 10.225 | 10.264 | VV | 441 | 7437 | 0.16% | 0.023% |
| 150 | 10.282 | 10.264 | 10.304 | VV | 450 | 8188 | 0.17% | 0.025% |
| 151 | 10.350 | 10.304 | 10.379 | VV | 706 | 13679 | 0.29% | 0.042% |
| 152 | 10.423 | 10.379 | 10.442 | VV | 578 | 8001 | 0.17% | 0.025% |
| 153 | 10.459 | 10.442 | 10.475 | VV | 296 | 3615 | 0.08% | 0.011% |
| 154 | 10.530 | 10.475 | 10.542 | VV | 628 | 11434 | 0.24% | 0.035% |
| 155 | 10.572 | 10.542 | 10.598 | VV | 3835 | 58887 | 1.23% | 0.183% |
| 156 | 10.618 | 10.598 | 10.636 | VV | 785 | 12271 | 0.26% | 0.038% |
| 157 | 10.660 | 10.636 | 10.685 | VV | 927 | 16577 | 0.35% | 0.051% |
| 158 | 10.718 | 10.685 | 10.748 | VV | 1037 | 16690 | 0.35% | 0.052% |
| 159 | 10.783 | 10.748 | 10.796 | VV | 397 | 7412 | 0.15% | 0.023% |
| 160 | 10.818 | 10.796 | 10.828 | VV | 491 | 7533 | 0.16% | 0.023% |
| 161 | 10.852 | 10.828 | 10.884 | VV | 963 | 20725 | 0.43% | 0.064% |
| 162 | 10.921 | 10.884 | 10.960 | VV | 5978 | 88684 | 1.85% | 0.275% |
| 163 | 10.995 | 10.960 | 11.023 | VV | 6100 | 100225 | 2.09% | 0.311% |
| 164 | 11.044 | 11.023 | 11.108 | VV | 2220 | 53107 | 1.11% | 0.165% |
| 165 | 11.160 | 11.108 | 11.188 | VV | 1011 | 28685 | 0.60% | 0.089% |
| 166 | 11.202 | 11.188 | 11.222 | VV | 505 | 8328 | 0.17% | 0.026% |
| 167 | 11.251 | 11.222 | 11.281 | VV | 1060 | 25722 | 0.54% | 0.080% |
| 168 | 11.312 | 11.281 | 11.332 | VV | 1751 | 36678 | 0.77% | 0.114% |
| 169 | 11.343 | 11.332 | 11.362 | VV | 954 | 14513 | 0.30% | 0.045% |
| 170 | 11.378 | 11.362 | 11.395 | VV | 1137 | 15669 | 0.33% | 0.049% |
| 171 | 11.431 | 11.395 | 11.465 | VV | 1116 | 28762 | 0.60% | 0.089% |
| 172 | 11.483 | 11.465 | 11.512 | VV | 549 | 13128 | 0.27% | 0.041% |
| 173 | 11.558 | 11.512 | 11.590 | VV | 4337 | 70878 | 1.48% | 0.220% |
| 174 | 11.627 | 11.590 | 11.666 | VV | 8733 | 121780 | 2.54% | 0.378% |
| 175 | 11.676 | 11.666 | 11.682 | VV | 659 | 5821 | 0.12% | 0.018% |
| 176 | 11.719 | 11.682 | 11.752 | VV | 6995 | 114038 | 2.38% | 0.354% |
| 177 | 11.779 | 11.752 | 11.807 | VV | 732 | 17080 | 0.36% | 0.053% |
| 178 | 11.827 | 11.807 | 11.835 | VV | 362 | 5236 | 0.11% | 0.016% |
| 179 | 11.863 | 11.835 | 11.875 | VV | 727 | 12251 | 0.26% | 0.038% |
| 180 | 11.929 | 11.875 | 11.967 | VV | 1345 | 48507 | 1.01% | 0.150% |
| 181 | 12.020 | 11.967 | 12.049 | VV | 1647 | 48109 | 1.00% | 0.149% |
| 182 | 12.078 | 12.049 | 12.097 | VV | 1064 | 27467 | 0.57% | 0.085% |
| 183 | 12.112 | 12.097 | 12.135 | VV | 1232 | 23495 | 0.49% | 0.073% |
| 184 | 12.141 | 12.135 | 12.164 | VV | 981 | 14100 | 0.29% | 0.044% |
| 185 | 12.185 | 12.164 | 12.218 | VV | 1017 | 27326 | 0.57% | 0.085% |
| 186 | 12.297 | 12.218 | 12.335 | VV | 5058 | 140284 | 2.93% | 0.435% |
| 187 | 12.343 | 12.335 | 12.355 | VV | 993 | 11151 | 0.23% | 0.035% |
| 188 | 12.402 | 12.355 | 12.419 | VV | 1269 | 40956 | 0.85% | 0.127% |
| 189 | 12.432 | 12.419 | 12.476 | VV | 1377 | 34116 | 0.71% | 0.106% |
| 190 | 12.520 | 12.476 | 12.548 | VV | 1669 | 50589 | 1.06% | 0.157% |
| 191 | 12.579 | 12.548 | 12.650 | VV | 1744 | 79399 | 1.66% | 0.246% |
| 192 | 12.682 | 12.650 | 12.691 | VV | 1296 | 27917 | 0.58% | 0.087% |
| 193 | 12.711 | 12.691 | 12.739 | VV | 1882 | 40332 | 0.84% | 0.125% |
| 194 | 12.760 | 12.739 | 12.777 | VV | 1912 | 35213 | 0.73% | 0.109% |

**Instrument :**
FID_G
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PH2-BOT-001

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

rteres

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|---|---|---|---|---|---|---|---|---|
| 195 | 12.802 | 12.777 | 12.833 | VV | 2959 | 59752 | 1.25% | 0.185% |
| 196 | 12.874 | 12.833 | 12.912 | VV | 3041 | 77724 | | |
| 197 | 12.939 | 12.912 | 12.964 | VV | 7627 | 107879 | | |
| 198 | 12.997 | 12.964 | 13.035 | VV | 1410 | 55331 | | |
| 199 | 13.055 | 13.035 | 13.073 | VV | 1494 | 30671 | | |
| 200 | 13.087 | 13.073 | 13.129 | VV | 1368 | 34860 | | |
| 201 | 13.208 | 13.129 | 13.252 | VV | 1681 | 87587 | 1.83% | 0.272% |
| 202 | 13.266 | 13.252 | 13.283 | VV | 1561 | 25006 | 0.52% | 0.078% |
| 203 | 13.303 | 13.283 | 13.318 | VV | 1775 | 30995 | 0.65% | 0.096% |
| 204 | 13.336 | 13.318 | 13.345 | VV | 2022 | 28932 | 0.60% | 0.090% |
| 205 | 13.388 | 13.345 | 13.420 | VV | 398618 | 4792081 | 100.00% | 14.860% |
| 206 | 13.438 | 13.420 | 13.469 | VV | 3136 | 69581 | 1.45% | 0.216% |
| 207 | 13.489 | 13.469 | 13.509 | VV | 2060 | 43642 | 0.91% | 0.135% |
| 208 | 13.552 | 13.509 | 13.578 | VV | 8209 | 151565 | 3.16% | 0.470% |
| 209 | 13.605 | 13.578 | 13.645 | VV | 2464 | 88176 | 1.84% | 0.273% |
| 210 | 13.661 | 13.645 | 13.675 | VV | 2063 | 35389 | 0.74% | 0.110% |
| 211 | 13.686 | 13.675 | 13.704 | VV | 2026 | 32726 | 0.68% | 0.101% |
| 212 | 13.721 | 13.704 | 13.740 | VV | 2332 | 42725 | 0.89% | 0.132% |
| 213 | 13.782 | 13.740 | 13.805 | VV | 3745 | 108518 | 2.26% | 0.336% |
| 214 | 13.828 | 13.805 | 13.885 | VV | 3202 | 132143 | 2.76% | 0.410% |
| 215 | 13.897 | 13.885 | 13.915 | VV | 2762 | 46450 | 0.97% | 0.144% |
| 216 | 13.934 | 13.915 | 13.948 | VV | 2881 | 53064 | 1.11% | 0.165% |
| 217 | 13.978 | 13.948 | 14.009 | VV | 3863 | 116417 | 2.43% | 0.361% |
| 218 | 14.052 | 14.009 | 14.071 | VV | 3428 | 113199 | 2.36% | 0.351% |
| 219 | 14.083 | 14.071 | 14.109 | VV | 3254 | 67725 | 1.41% | 0.210% |
| 220 | 14.139 | 14.109 | 14.172 | VV | 18145 | 289693 | 6.05% | 0.898% |
| 221 | 14.198 | 14.172 | 14.212 | VV | 3660 | 74190 | 1.55% | 0.230% |
| 222 | 14.225 | 14.212 | 14.245 | VV | 3586 | 64930 | 1.35% | 0.201% |
| 223 | 14.291 | 14.245 | 14.310 | VV | 3299 | 116222 | 2.43% | 0.360% |
| 224 | 14.374 | 14.310 | 14.405 | VV | 5878 | 229822 | 4.80% | 0.713% |
| 225 | 14.435 | 14.405 | 14.486 | VV | 4218 | 181773 | 3.79% | 0.564% |
| 226 | 14.530 | 14.486 | 14.544 | VV | 4476 | 138957 | 2.90% | 0.431% |
| 227 | 14.570 | 14.544 | 14.599 | VV | 5023 | 144982 | 3.03% | 0.450% |
| 228 | 14.615 | 14.599 | 14.637 | VV | 4064 | 88496 | 1.85% | 0.274% |
| 229 | 14.654 | 14.637 | 14.672 | VV | 3992 | 78150 | 1.63% | 0.242% |
| 230 | 14.702 | 14.672 | 14.744 | VV | 26949 | 440630 | 9.19% | 1.366% |
| 231 | 14.773 | 14.744 | 14.786 | VV | 4786 | 109517 | 2.29% | 0.340% |
| 232 | 14.830 | 14.786 | 14.880 | VV | 5476 | 259989 | 5.43% | 0.806% |
| 233 | 14.906 | 14.880 | 14.939 | VV | 4968 | 156679 | 3.27% | 0.486% |
| 234 | 14.958 | 14.939 | 14.982 | VV | 5112 | 124943 | 2.61% | 0.387% |
| 235 | 14.988 | 14.982 | 15.010 | VV | 4685 | 74822 | 1.56% | 0.232% |
| 236 | 15.020 | 15.010 | 15.038 | VV | 4480 | 70530 | 1.47% | 0.219% |
| 237 | 15.054 | 15.038 | 15.069 | VV | 4812 | 84122 | 1.76% | 0.261% |
| 238 | 15.096 | 15.069 | 15.115 | VV | 5056 | 127204 | 2.65% | 0.394% |
| 239 | 15.130 | 15.115 | 15.181 | VV | 4951 | 178327 | 3.72% | 0.553% |
| 240 | 15.198 | 15.181 | 15.213 | VV | 5061 | 88223 | 1.84% | 0.274% |
| 241 | 15.244 | 15.213 | 15.289 | VV | 38643 | 638739 | 13.33% | 1.981% |
| 242 | 15.303 | 15.289 | 15.344 | VV | 5226 | 160067 | 3.34% | 0.496% |
| 243 | 15.351 | 15.344 | 15.362 | VV | 4492 | 48989 | 1.02% | 0.152% |
| 244 | 15.388 | 15.362 | 15.412 | VV | 4869 | 134780 | 2.81% | 0.418% |
| 245 | 15.440 | 15.412 | 15.465 | VV | 5388 | 151425 | 3.16% | 0.470% |
| 246 | 15.487 | 15.465 | 15.535 | VV | 5208 | 201611 | 4.21% | 0.625% |

9

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 247 | 15.550 | 15.535 | 15.555 | VV | 4621 | 53728 | 1.12% | 0.167% |
| 248 | 15.581 | 15.555 | 15.606 | VV | 5566 | 151666 | 3 | |
| 249 | 15.627 | 15.606 | 15.645 | VV | 4825 | 111130 | 2 | |
| 250 | 15.683 | 15.645 | 15.728 | VV | 5235 | 235350 | 4 | |
| 251 | 15.765 | 15.728 | 15.799 | VV | 44914 | 734340 | 15 | |
| 252 | 15.810 | 15.799 | 15.844 | VV | 5993 | 149068 | 3 | |
| 253 | 15.854 | 15.844 | 15.881 | VV | 4914 | 100798 | 2.10% | 0.313% |
| 254 | 15.900 | 15.881 | 15.921 | VV | 4739 | 105417 | 2.20% | 0.327% |
| 255 | 15.947 | 15.921 | 15.964 | VV | 5048 | 118126 | 2.47% | 0.366% |
| 256 | 15.990 | 15.964 | 16.009 | VV | 5045 | 128984 | 2.69% | 0.400% |
| 257 | 16.031 | 16.009 | 16.044 | VV | 4968 | 96881 | 2.02% | 0.300% |
| 258 | 16.087 | 16.044 | 16.112 | VV | 7466 | 244161 | 5.10% | 0.757% |
| 259 | 16.132 | 16.112 | 16.180 | VV | 5265 | 203071 | 4.24% | 0.630% |
| 260 | 16.224 | 16.180 | 16.236 | VV | 5455 | 163139 | 3.40% | 0.506% |
| 261 | 16.267 | 16.236 | 16.343 | VV | 52753 | 928806 | 19.38% | 2.880% |
| 262 | 16.358 | 16.343 | 16.389 | VV | 4433 | 113076 | 2.36% | 0.351% |
| 263 | 16.461 | 16.389 | 16.490 | VV | 5576 | 292631 | 6.11% | 0.907% |
| 264 | 16.501 | 16.490 | 16.537 | VV | 4917 | 131870 | 2.75% | 0.409% |
| 265 | 16.578 | 16.537 | 16.611 | VV | 8365 | 270521 | 5.65% | 0.839% |
| 266 | 16.628 | 16.611 | 16.685 | VV | 6121 | 221289 | 4.62% | 0.686% |
| 267 | 16.750 | 16.685 | 16.782 | VV | 52827 | 898506 | 18.75% | 2.786% |
| 268 | 16.792 | 16.782 | 16.829 | VV | 4598 | 116842 | 2.44% | 0.362% |
| 269 | 16.847 | 16.829 | 16.865 | VV | 4350 | 90935 | 1.90% | 0.282% |
| 270 | 16.874 | 16.865 | 16.885 | VV | 4267 | 49876 | 1.04% | 0.155% |
| 271 | 16.915 | 16.885 | 16.941 | VV | 5204 | 156501 | 3.27% | 0.485% |
| 272 | 16.973 | 16.941 | 17.006 | VV | 5638 | 194915 | 4.07% | 0.604% |
| 273 | 17.052 | 17.006 | 17.072 | VV | 6649 | 211157 | 4.41% | 0.655% |
| 274 | 17.098 | 17.072 | 17.155 | VV | 6247 | 230012 | 4.80% | 0.713% |
| 275 | 17.217 | 17.155 | 17.265 | VV | 48906 | 908275 | 18.95% | 2.816% |
| 276 | 17.271 | 17.265 | 17.294 | VV | 4008 | 65643 | 1.37% | 0.204% |
| 277 | 17.345 | 17.294 | 17.362 | VV | 4833 | 170490 | 3.56% | 0.529% |
| 278 | 17.381 | 17.362 | 17.408 | VV | 4603 | 119140 | 2.49% | 0.369% |
| 279 | 17.460 | 17.408 | 17.477 | VV | 5958 | 199965 | 4.17% | 0.620% |
| 280 | 17.506 | 17.477 | 17.527 | VV | 5997 | 151461 | 3.16% | 0.470% |
| 281 | 17.553 | 17.527 | 17.582 | VV | 7878 | 176008 | 3.67% | 0.546% |
| 282 | 17.603 | 17.582 | 17.618 | VV | 4099 | 80448 | 1.68% | 0.249% |
| 283 | 17.668 | 17.618 | 17.735 | VV | 56156 | 942586 | 19.67% | 2.923% |
| 284 | 17.788 | 17.735 | 17.855 | VV | 5209 | 268116 | 5.59% | 0.831% |
| 285 | 17.876 | 17.855 | 17.912 | VV | 3756 | 110115 | 2.30% | 0.341% |
| 286 | 17.949 | 17.912 | 17.975 | VV | 5689 | 156229 | 3.26% | 0.484% |
| 287 | 17.999 | 17.975 | 18.022 | VV | 4887 | 108177 | 2.26% | 0.335% |
| 288 | 18.048 | 18.022 | 18.067 | VV | 4158 | 99450 | 2.08% | 0.308% |
| 289 | 18.106 | 18.067 | 18.140 | VV | 39900 | 645008 | 13.46% | 2.000% |
| 290 | 18.156 | 18.140 | 18.192 | VV | 3057 | 83224 | 1.74% | 0.258% |
| 291 | 18.253 | 18.192 | 18.345 | VV | 6136 | 336288 | 7.02% | 1.043% |
| 292 | 18.379 | 18.345 | 18.402 | VV | 4596 | 120406 | 2.51% | 0.373% |
| 293 | 18.425 | 18.402 | 18.466 | VV | 4948 | 134655 | 2.81% | 0.418% |
| 294 | 18.484 | 18.466 | 18.498 | VV | 3260 | 55261 | 1.15% | 0.171% |
| 295 | 18.528 | 18.498 | 18.562 | VV | 41826 | 603169 | 12.59% | 1.870% |
| 296 | 18.620 | 18.562 | 18.642 | VV | 4925 | 131913 | 2.75% | 0.409% |
| 297 | 18.660 | 18.642 | 18.713 | VV | 2894 | 98084 | 2.05% | 0.304% |
| 298 | 18.728 | 18.713 | 18.754 | VV | 2135 | 46886 | 0.98% | 0.145% |
| 299 | 18.793 | 18.754 | 18.817 | VV | 4512 | 117713 | 2.46% | 0.365% |

9

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

A B C D E F G H I J

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 300 | 18.839 | 18.817 | 18.881 | VV | 3186 | 79981 | 1.67% | 0.248% |
| 301 | 18.938 | 18.881 | 18.983 | VV | 27507 | 471890 | 9 | |
| 302 | 19.021 | 18.983 | 19.062 | VV | 3244 | 103076 | 2 | |
| 303 | 19.087 | 19.062 | 19.115 | VV | 2920 | 76239 | 1 | |
| 304 | 19.128 | 19.115 | 19.157 | VV | 2051 | 43406 | 0 | |
| 305 | 19.196 | 19.157 | 19.218 | VV | 3246 | 81921 | 1 | |
| 306 | 19.252 | 19.218 | 19.285 | VV | 3253 | 93252 | 1.95% | 0.289% |
| 307 | 19.336 | 19.285 | 19.399 | VV | 23143 | 413258 | 8.62% | 1.281% |
| 308 | 19.411 | 19.399 | 19.423 | VV | 1069 | 15086 | 0.31% | 0.047% |
| 309 | 19.472 | 19.423 | 19.494 | VV | 1892 | 67143 | 1.40% | 0.208% |
| 310 | 19.519 | 19.494 | 19.550 | VV | 2491 | 68441 | 1.43% | 0.212% |
| 311 | 19.584 | 19.550 | 19.605 | VV | 2887 | 73361 | 1.53% | 0.227% |
| 312 | 19.627 | 19.605 | 19.675 | VV | 2371 | 67004 | 1.40% | 0.208% |
| 313 | 19.722 | 19.675 | 19.795 | VV | 16763 | 353379 | 7.37% | 1.096% |
| 314 | 19.807 | 19.795 | 19.817 | VV | 1102 | 13751 | 0.29% | 0.043% |
| 315 | 19.869 | 19.817 | 19.888 | VV | 2381 | 73384 | 1.53% | 0.228% |
| 316 | 19.905 | 19.888 | 19.935 | VV | 2052 | 49386 | 1.03% | 0.153% |
| 317 | 19.963 | 19.935 | 19.982 | VV | 2483 | 56831 | 1.19% | 0.176% |
| 318 | 20.007 | 19.982 | 20.062 | VV | 2684 | 91727 | 1.91% | 0.284% |
| 319 | 20.098 | 20.062 | 20.127 | VV | 13043 | 230101 | 4.80% | 0.714% |
| 320 | 20.152 | 20.127 | 20.185 | VV | 2913 | 80053 | 1.67% | 0.248% |
| 321 | 20.251 | 20.185 | 20.301 | VV | 2874 | 154707 | 3.23% | 0.480% |
| 322 | 20.334 | 20.301 | 20.355 | VV | 2933 | 80252 | 1.67% | 0.249% |
| 323 | 20.377 | 20.355 | 20.425 | VV | 3044 | 105160 | 2.19% | 0.326% |
| 324 | 20.464 | 20.425 | 20.496 | VV | 11453 | 234831 | 4.90% | 0.728% |
| 325 | 20.531 | 20.496 | 20.552 | VV | 3570 | 99749 | 2.08% | 0.309% |
| 326 | 20.568 | 20.552 | 20.580 | VV | 2831 | 47084 | 0.98% | 0.146% |
| 327 | 20.620 | 20.580 | 20.628 | VV | 3643 | 93615 | 1.95% | 0.290% |
| 328 | 20.648 | 20.628 | 20.668 | VV | 3892 | 86358 | 1.80% | 0.268% |
| 329 | 20.679 | 20.668 | 20.715 | VV | 3587 | 99040 | 2.07% | 0.307% |
| 330 | 20.737 | 20.715 | 20.783 | VV | 4195 | 139301 | 2.91% | 0.432% |
| 331 | 20.822 | 20.783 | 20.861 | VV | 10067 | 243494 | 5.08% | 0.755% |
| 332 | 20.906 | 20.861 | 20.935 | VV | 3041 | 128831 | 2.69% | 0.399% |
| 333 | 20.991 | 20.935 | 21.025 | VV | 3253 | 167478 | 3.49% | 0.519% |
| 334 | 21.062 | 21.025 | 21.094 | VV | 3443 | 127613 | 2.66% | 0.396% |
| 335 | 21.111 | 21.094 | 21.162 | VV | 2926 | 110066 | 2.30% | 0.341% |
| 336 | 21.211 | 21.162 | 21.271 | VV | 7532 | 244327 | 5.10% | 0.758% |
| 337 | 21.315 | 21.271 | 21.344 | VV | 2308 | 92922 | 1.94% | 0.288% |
| 338 | 21.397 | 21.344 | 21.478 | VV | 2236 | 161261 | 3.37% | 0.500% |
| 339 | 21.488 | 21.478 | 21.510 | VV | 1906 | 34747 | 0.73% | 0.108% |
| 340 | 21.542 | 21.510 | 21.605 | VV | 1908 | 98208 | 2.05% | 0.305% |
| 341 | 21.647 | 21.605 | 21.702 | VV | 4904 | 151899 | 3.17% | 0.471% |
| 342 | 21.720 | 21.702 | 21.739 | VV | 1280 | 26794 | 0.56% | 0.083% |
| 343 | 21.751 | 21.739 | 21.837 | VV | 2210 | 62879 | 1.31% | 0.195% |
| 344 | 21.862 | 21.837 | 21.909 | VV | 1025 | 37923 | 0.79% | 0.118% |
| 345 | 21.939 | 21.909 | 21.999 | VV | 907 | 41537 | 0.87% | 0.129% |
| 346 | 22.033 | 21.999 | 22.055 | VV | 719 | 20936 | 0.44% | 0.065% |
| 347 | 22.065 | 22.055 | 22.077 | VV | 519 | 6656 | 0.14% | 0.021% |
| 348 | 22.145 | 22.077 | 22.197 | VV | 3397 | 103072 | 2.15% | 0.320% |
| 349 | 22.206 | 22.197 | 22.252 | VBA | 336 | 18060 | 0.38% | 0.056% |

Sum of corrected areas: 32249108

9

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-001

rteres
Aliphatic EPH 111424.M Wed Nov 20 01:28:43 2024

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/21/2024

A B C D E F G H I J

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048761.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 11:41
Operator : YP/AJ
Sample : P4860-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-001

Integration File: sample.E
Quant Time: Nov 19 05:55:10 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 | 10111530 | 57.433 ug/ml |
| Spiked Amount 50.000 | | Recovery = 114.87% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.215 | 6778668 | 58.858 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 117.72% | |
| 11) S ortho-Terphenyl (SURR) | 11.252 | 6471330 | 33.646 ug/ml |
| Spiked Amount 50.000 | | Recovery = 67.29% | |
| **Target Compounds** | | | |

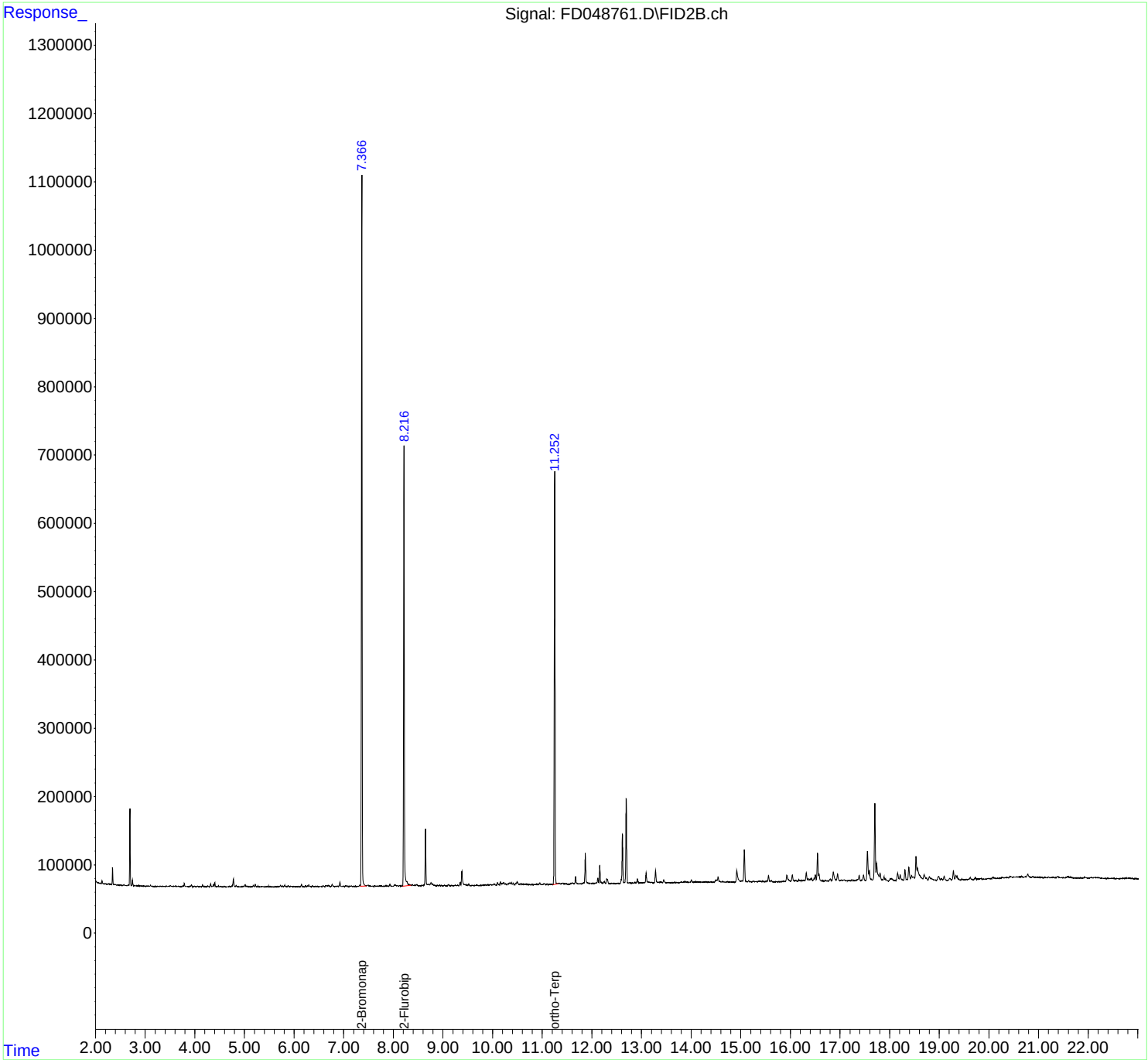
(f)=RT Delta > 1/2 Window (m)=manual int.

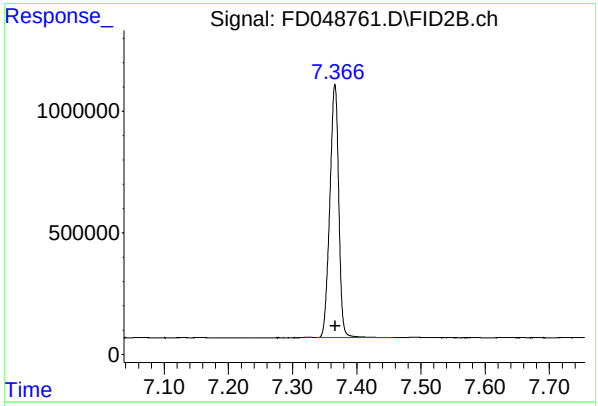
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048761.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 11:41
Operator : YP/AJ
Sample : P4860-02
Misc :
ALS Vial : 64 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-001

Integration File: sample.E
Quant Time: Nov 19 05:55:10 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

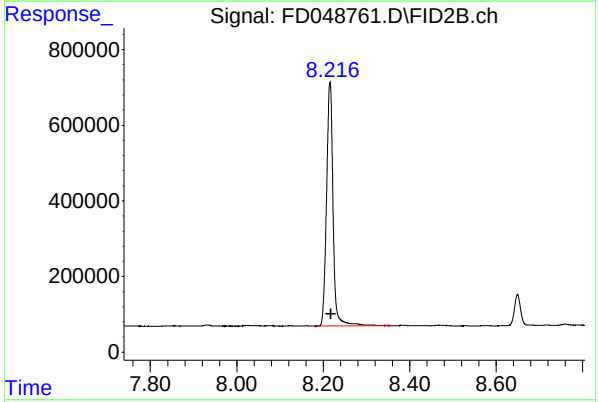





#4 2-Bromonaphthalene (SURR)

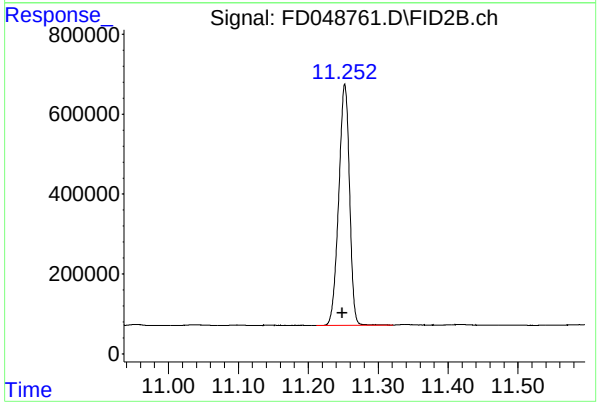
R.T.: 7.366 min
Delta R.T.: 0.000 min
Response: 10111530
Conc: 57.43 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-001




#6 2-Flurobiphenyl (SURR)

R.T.: 8.215 min
Delta R.T.: -0.003 min
Response: 6778668
Conc: 58.86 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.252 min
Delta R.T.: 0.004 min
Response: 6471330
Conc: 33.65 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048761.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 11:41
Sample : P4860-02
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 | 4.055 | 4.042 | 4.092 | PH | 544 | 7501 | 0.07% | 0.017% |
| 2 | 4.100 | 4.092 | 4.121 | PV | 334 | 2748 | 0.03% | 0.006% |
| 3 | 4.156 | 4.135 | 4.181 | VV | 2955 | 29999 | 0.30% | 0.066% |
| 4 | 4.196 | 4.181 | 4.220 | VV | 325 | 4587 | 0.05% | 0.010% |
| 5 | 4.224 | 4.220 | 4.237 | VV | 205 | 1167 | 0.01% | 0.003% |
| 6 | 4.264 | 4.237 | 4.288 | PV | 1282 | 15306 | 0.15% | 0.034% |
| 7 | 4.319 | 4.288 | 4.341 | VV | 4351 | 48270 | 0.47% | 0.107% |
| 8 | 4.350 | 4.341 | 4.358 | VV | 584 | 4669 | 0.05% | 0.010% |
| 9 | 4.374 | 4.358 | 4.388 | VV | 3292 | 32144 | 0.32% | 0.071% |
| 10 | 4.404 | 4.388 | 4.424 | VV | 6171 | 60105 | 0.59% | 0.133% |
| 11 | 4.432 | 4.424 | 4.441 | VV | 399 | 2746 | 0.03% | 0.006% |
| 12 | 4.475 | 4.441 | 4.492 | VV | 1679 | 17953 | 0.18% | 0.040% |
| 13 | 4.514 | 4.492 | 4.549 | VV | 897 | 16147 | 0.16% | 0.036% |
| 14 | 4.563 | 4.549 | 4.569 | PV | 265 | 1960 | 0.02% | 0.004% |
| 15 | 4.590 | 4.569 | 4.627 | VV | 746 | 12998 | 0.13% | 0.029% |
| 16 | 4.653 | 4.627 | 4.669 | VV | 335 | 5334 | 0.05% | 0.012% |
| 17 | 4.680 | 4.675 | 4.685 | VV | 388 | 1645 | 0.02% | 0.004% |
| 18 | 4.699 | 4.685 | 4.719 | VV | 858 | 11513 | 0.11% | 0.026% |
| 19 | 4.724 | 4.719 | 4.734 | VV | 477 | 2932 | 0.03% | 0.006% |
| 20 | 4.755 | 4.734 | 4.760 | VV | 2125 | 18180 | 0.18% | 0.040% |
| 21 | 4.777 | 4.760 | 4.810 | VV | 11780 | 139116 | 1.37% | 0.308% |
| 22 | 4.833 | 4.810 | 4.855 | VV | 2365 | 27040 | 0.27% | 0.060% |
| 23 | 4.861 | 4.855 | 4.869 | VV | 542 | 3355 | 0.03% | 0.007% |
| 24 | 4.874 | 4.869 | 4.881 | VV | 424 | 2629 | 0.03% | 0.006% |
| 25 | 4.889 | 4.881 | 4.913 | VV | 439 | 5437 | 0.05% | 0.012% |
| 26 | 4.921 | 4.913 | 4.931 | VV | 388 | 2151 | 0.02% | 0.005% |
| 27 | 4.947 | 4.931 | 4.954 | VV | 314 | 3092 | 0.03% | 0.007% |
| 28 | 4.967 | 4.954 | 4.986 | VV | 719 | 8236 | 0.08% | 0.018% |
| 29 | 5.011 | 4.986 | 5.046 | VV | 2899 | 43869 | 0.43% | 0.097% |
| 30 | 5.050 | 5.046 | 5.100 | VV | 742 | 13820 | 0.14% | 0.031% |
| 31 | 5.108 | 5.100 | 5.126 | VV | 311 | 3182 | 0.03% | 0.007% |
| 32 | 5.146 | 5.126 | 5.157 | VV | 659 | 6482 | 0.06% | 0.014% |
| 33 | 5.179 | 5.157 | 5.200 | VV | 2152 | 26319 | 0.26% | 0.058% |
| 34 | 5.218 | 5.200 | 5.242 | VV | 3936 | 42166 | 0.41% | 0.093% |
| 35 | 5.273 | 5.242 | 5.299 | VV | 1011 | 14254 | 0.14% | 0.032% |
| 36 | 5.320 | 5.299 | 5.325 | VV | 271 | 2228 | 0.02% | 0.005% |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 5.343 | 5.325 | 5.352 | VV | 503 | 5839 | 0.06% | 0.013% |
| 38 | 5.358 | 5.352 | 5.409 | VV | 546 | 9613 | 0.09% | 0.021% |
| 39 | 5.424 | 5.409 | 5.438 | VV | 304 | 3039 | 0.03% | 0.007% |
| 40 | 5.466 | 5.438 | 5.495 | VV | 719 | 13006 | 0.13% | 0.029% |
| 41 | 5.506 | 5.495 | 5.514 | VV | 382 | 2801 | 0.03% | 0.006% |
| 42 | 5.520 | 5.514 | 5.529 | VV | 348 | 2014 | 0.02% | 0.004% |
| 43 | 5.542 | 5.529 | 5.576 | VV | 375 | 4504 | 0.04% | 0.010% |
| 44 | 5.606 | 5.594 | 5.612 | VV | 211 | 1317 | 0.01% | 0.003% |
| 45 | 5.623 | 5.612 | 5.647 | VV | 374 | 3991 | 0.04% | 0.009% |
| 46 | 5.669 | 5.647 | 5.684 | VV | 380 | 5233 | 0.05% | 0.012% |
| 47 | 5.724 | 5.684 | 5.749 | VV | 1923 | 31523 | 0.31% | 0.070% |
| 48 | 5.754 | 5.749 | 5.758 | VV | 803 | 3787 | 0.04% | 0.008% |
| 49 | 5.768 | 5.758 | 5.792 | VV | 1139 | 14232 | 0.14% | 0.032% |
| 50 | 5.812 | 5.792 | 5.844 | VV | 2448 | 28347 | 0.28% | 0.063% |
| 51 | 5.849 | 5.844 | 5.853 | VV | 245 | 1034 | 0.01% | 0.002% |
| 52 | 5.881 | 5.853 | 5.914 | VV | 1968 | 28413 | 0.28% | 0.063% |
| 53 | 5.939 | 5.914 | 5.957 | VV | 995 | 16340 | 0.16% | 0.036% |
| 54 | 5.964 | 5.957 | 5.971 | VV | 373 | 2478 | 0.02% | 0.005% |
| 55 | 5.978 | 5.971 | 6.001 | VV | 393 | 4552 | 0.04% | 0.010% |
| 56 | 6.019 | 6.001 | 6.024 | VV | 447 | 4819 | 0.05% | 0.011% |
| 57 | 6.027 | 6.024 | 6.062 | VV | 446 | 5350 | 0.05% | 0.012% |
| 58 | 6.081 | 6.062 | 6.107 | VV | 287 | 4405 | 0.04% | 0.010% |
| 59 | 6.118 | 6.107 | 6.124 | VV | 281 | 1516 | 0.01% | 0.003% |
| 60 | 6.150 | 6.124 | 6.177 | VV | 3887 | 40054 | 0.39% | 0.089% |
| 61 | 6.193 | 6.177 | 6.207 | VV | 283 | 2544 | 0.03% | 0.006% |
| 62 | 6.231 | 6.207 | 6.254 | PV | 1658 | 18738 | 0.18% | 0.042% |
| 63 | 6.269 | 6.254 | 6.281 | VV | 1106 | 11389 | 0.11% | 0.025% |
| 64 | 6.298 | 6.281 | 6.317 | VV | 3108 | 32351 | 0.32% | 0.072% |
| 65 | 6.328 | 6.317 | 6.349 | VV | 821 | 8211 | 0.08% | 0.018% |
| 66 | 6.370 | 6.349 | 6.402 | VV | 1786 | 22301 | 0.22% | 0.049% |
| 67 | 6.427 | 6.402 | 6.444 | VV | 481 | 7922 | 0.08% | 0.018% |
| 68 | 6.464 | 6.444 | 6.497 | VV | 612 | 10715 | 0.11% | 0.024% |
| 69 | 6.522 | 6.497 | 6.532 | VV | 499 | 7276 | 0.07% | 0.016% |
| 70 | 6.544 | 6.532 | 6.553 | VV | 517 | 4926 | 0.05% | 0.011% |
| 71 | 6.586 | 6.553 | 6.619 | VV | 1952 | 28035 | 0.28% | 0.062% |
| 72 | 6.641 | 6.619 | 6.657 | VV | 1855 | 28894 | 0.28% | 0.064% |
| 73 | 6.661 | 6.657 | 6.675 | VV | 1239 | 11706 | 0.12% | 0.026% |
| 74 | 6.688 | 6.675 | 6.694 | VV | 1753 | 16245 | 0.16% | 0.036% |
| 75 | 6.700 | 6.694 | 6.734 | VV | 1723 | 23223 | 0.23% | 0.051% |
| 76 | 6.767 | 6.734 | 6.819 | VV | 3401 | 57229 | 0.56% | 0.127% |
| 77 | 6.845 | 6.819 | 6.858 | VV | 726 | 10825 | 0.11% | 0.024% |
| 78 | 6.870 | 6.858 | 6.886 | VV | 850 | 8797 | 0.09% | 0.019% |
| 79 | 6.925 | 6.886 | 6.962 | VV | 6797 | 83500 | 0.82% | 0.185% |
| 80 | 6.969 | 6.962 | 6.973 | VV | 354 | 1946 | 0.02% | 0.004% |
| 81 | 6.987 | 6.973 | 6.994 | VV | 836 | 7283 | 0.07% | 0.016% |
| 82 | 7.001 | 6.994 | 7.017 | VV | 677 | 5961 | 0.06% | 0.013% |
| 83 | 7.033 | 7.017 | 7.047 | PV | 1159 | 10639 | 0.10% | 0.024% |
| 84 | 7.066 | 7.047 | 7.086 | VV | 1551 | 21052 | 0.21% | 0.047% |
| 85 | 7.101 | 7.086 | 7.111 | VV | 528 | 4336 | 0.04% | 0.010% |
| 86 | 7.127 | 7.111 | 7.140 | VV | 904 | 10656 | 0.10% | 0.024% |
| 87 | 7.157 | 7.140 | 7.176 | VV | 1363 | 15293 | 0.15% | 0.034% |
| 88 | 7.207 | 7.190 | 7.220 | VV | 388 | 4398 | 0.04% | 0.010% |
| 89 | 7.227 | 7.220 | 7.234 | VV | 501 | 3043 | 0.03% | 0.007% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.238 | 7.234 | 7.249 | VV | 417 | 3146 | 0.03% | 0.007% |
| 91 | 7.259 | 7.249 | 7.264 | VV | 340 | 2338 | 0.02% | 0.005% |
| 92 | 7.278 | 7.264 | 7.292 | VV | 569 | 7432 | 0.07% | 0.016% |
| 93 | 7.301 | 7.292 | 7.308 | VV | 531 | 4598 | 0.05% | 0.010% |
| 94 | 7.325 | 7.308 | 7.338 | VV | 2417 | 27180 | 0.27% | 0.060% |
| 95 | 7.366 | 7.338 | 7.456 | VV | 1041263 | 10166708 | 100.00% | 22.528% |
| 96 | 7.488 | 7.456 | 7.540 | VV | 2176 | 60425 | 0.59% | 0.134% |
| 97 | 7.546 | 7.540 | 7.560 | VV | 626 | 5647 | 0.06% | 0.013% |
| 98 | 7.584 | 7.560 | 7.610 | VV | 656 | 11283 | 0.11% | 0.025% |
| 99 | 7.629 | 7.610 | 7.649 | VV | 1396 | 16716 | 0.16% | 0.037% |
| 100 | 7.657 | 7.649 | 7.667 | VV | 516 | 4847 | 0.05% | 0.011% |
| 101 | 7.683 | 7.667 | 7.706 | VV | 678 | 8644 | 0.09% | 0.019% |
| 102 | 7.723 | 7.706 | 7.736 | VV | 600 | 7334 | 0.07% | 0.016% |
| 103 | 7.753 | 7.736 | 7.784 | VV | 907 | 16495 | 0.16% | 0.037% |
| 104 | 7.795 | 7.784 | 7.806 | VV | 294 | 2542 | 0.03% | 0.006% |
| 105 | 7.832 | 7.806 | 7.840 | VV | 860 | 7220 | 0.07% | 0.016% |
| 106 | 7.855 | 7.840 | 7.870 | VV | 1178 | 15419 | 0.15% | 0.034% |
| 107 | 7.882 | 7.870 | 7.895 | VV | 859 | 9741 | 0.10% | 0.022% |
| 108 | 7.904 | 7.895 | 7.913 | VV | 622 | 5672 | 0.06% | 0.013% |
| 109 | 7.931 | 7.913 | 7.954 | VV | 3447 | 38580 | 0.38% | 0.085% |
| 110 | 7.957 | 7.954 | 7.990 | VV | 543 | 6930 | 0.07% | 0.015% |
| 111 | 7.994 | 7.990 | 8.000 | VV | 310 | 1602 | 0.02% | 0.004% |
| 112 | 8.024 | 8.000 | 8.061 | VV | 2063 | 46925 | 0.46% | 0.104% |
| 113 | 8.079 | 8.061 | 8.101 | VV | 1309 | 21121 | 0.21% | 0.047% |
| 114 | 8.123 | 8.101 | 8.145 | VV | 1162 | 16675 | 0.16% | 0.037% |
| 115 | 8.162 | 8.145 | 8.184 | VV | 1086 | 13298 | 0.13% | 0.029% |
| 116 | 8.216 | 8.184 | 8.268 | VV | 644804 | 6682172 | 65.73% | 14.807% |
| 117 | 8.275 | 8.268 | 8.305 | VV | 6781 | 102995 | 1.01% | 0.228% |
| 118 | 8.313 | 8.305 | 8.369 | VV | 2994 | 77885 | 0.77% | 0.173% |
| 119 | 8.387 | 8.369 | 8.407 | VV | 2029 | 36782 | 0.36% | 0.082% |
| 120 | 8.421 | 8.407 | 8.450 | VV | 1389 | 31440 | 0.31% | 0.070% |
| 121 | 8.468 | 8.450 | 8.508 | VV | 2502 | 50681 | 0.50% | 0.112% |
| 122 | 8.529 | 8.508 | 8.547 | VV | 1030 | 14529 | 0.14% | 0.032% |
| 123 | 8.576 | 8.547 | 8.599 | VV | 1487 | 25962 | 0.26% | 0.058% |
| 124 | 8.616 | 8.599 | 8.624 | VV | 1403 | 16501 | 0.16% | 0.037% |
| 125 | 8.649 | 8.624 | 8.675 | VV | 83774 | 840551 | 8.27% | 1.863% |
| 126 | 8.681 | 8.675 | 8.700 | VV | 2647 | 34044 | 0.33% | 0.075% |
| 127 | 8.718 | 8.700 | 8.735 | VV | 2978 | 48542 | 0.48% | 0.108% |
| 128 | 8.760 | 8.735 | 8.782 | VV | 5181 | 92016 | 0.91% | 0.204% |
| 129 | 8.793 | 8.782 | 8.819 | VV | 2825 | 45132 | 0.44% | 0.100% |
| 130 | 8.833 | 8.819 | 8.862 | VV | 1479 | 20483 | 0.20% | 0.045% |
| 131 | 8.884 | 8.862 | 8.907 | VV | 1164 | 16642 | 0.16% | 0.037% |
| 132 | 8.932 | 8.907 | 8.955 | VV | 1253 | 22983 | 0.23% | 0.051% |
| 133 | 8.969 | 8.955 | 8.990 | VV | 820 | 11184 | 0.11% | 0.025% |
| 134 | 9.009 | 8.990 | 9.015 | VV | 643 | 5530 | 0.05% | 0.012% |
| 135 | 9.029 | 9.015 | 9.062 | VV | 1138 | 20293 | 0.20% | 0.045% |
| 136 | 9.065 | 9.062 | 9.078 | VV | 327 | 2265 | 0.02% | 0.005% |
| 137 | 9.082 | 9.078 | 9.087 | VV | 223 | 1279 | 0.01% | 0.003% |
| 138 | 9.110 | 9.087 | 9.153 | VV | 2132 | 37099 | 0.36% | 0.082% |
| 139 | 9.180 | 9.153 | 9.210 | PV | 1149 | 20088 | 0.20% | 0.045% |
| 140 | 9.215 | 9.210 | 9.229 | VV | 539 | 4248 | 0.04% | 0.009% |
| 141 | 9.251 | 9.229 | 9.274 | VV | 1118 | 15929 | 0.16% | 0.035% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.305 | 9.274 | 9.325 | VV | 822 | 18626 | 0.18% | 0.041% |
| 143 | 9.346 | 9.325 | 9.363 | VV | 5155 | 59700 | 0.59% | 0.132% |
| 144 | 9.382 | 9.363 | 9.432 | VV | 21598 | 322207 | 3.17% | 0.714% |
| 145 | 9.438 | 9.432 | 9.452 | VV | 1792 | 19817 | 0.19% | 0.044% |
| 146 | 9.461 | 9.452 | 9.492 | VV | 1784 | 29011 | 0.29% | 0.064% |
| 147 | 9.521 | 9.492 | 9.565 | VV | 3024 | 54327 | 0.53% | 0.120% |
| 148 | 9.592 | 9.565 | 9.600 | VV | 858 | 11253 | 0.11% | 0.025% |
| 149 | 9.606 | 9.600 | 9.641 | VV | 841 | 10898 | 0.11% | 0.024% |
| 150 | 9.682 | 9.641 | 9.716 | PV | 1220 | 22837 | 0.22% | 0.051% |
| 151 | 9.726 | 9.716 | 9.742 | VV | 426 | 3498 | 0.03% | 0.008% |
| 152 | 9.760 | 9.742 | 9.779 | VV | 806 | 10413 | 0.10% | 0.023% |
| 153 | 9.791 | 9.779 | 9.810 | VV | 805 | 11364 | 0.11% | 0.025% |
| 154 | 9.839 | 9.810 | 9.857 | VV | 1075 | 21700 | 0.21% | 0.048% |
| 155 | 9.888 | 9.857 | 9.895 | VV | 1158 | 19339 | 0.19% | 0.043% |
| 156 | 9.908 | 9.895 | 9.929 | VV | 1610 | 23472 | 0.23% | 0.052% |
| 157 | 9.951 | 9.929 | 9.972 | VV | 1582 | 29697 | 0.29% | 0.066% |
| 158 | 9.978 | 9.972 | 9.987 | VV | 1185 | 9224 | 0.09% | 0.020% |
| 159 | 9.989 | 9.987 | 9.997 | VV | 1075 | 6084 | 0.06% | 0.013% |
| 160 | 10.000 | 9.997 | 10.009 | VV | 1099 | 6900 | 0.07% | 0.015% |
| 161 | 10.038 | 10.009 | 10.070 | VV | 2323 | 48958 | 0.48% | 0.108% |
| 162 | 10.098 | 10.070 | 10.130 | VV | 4400 | 75499 | 0.74% | 0.167% |
| 163 | 10.160 | 10.130 | 10.174 | VV | 5494 | 77440 | 0.76% | 0.172% |
| 164 | 10.185 | 10.174 | 10.199 | VV | 3288 | 38760 | 0.38% | 0.086% |
| 165 | 10.213 | 10.199 | 10.242 | VV | 3918 | 81309 | 0.80% | 0.180% |
| 166 | 10.254 | 10.242 | 10.284 | VV | 2390 | 44391 | 0.44% | 0.098% |
| 167 | 10.313 | 10.284 | 10.326 | VV | 2848 | 51977 | 0.51% | 0.115% |
| 168 | 10.337 | 10.326 | 10.357 | VV | 3131 | 53481 | 0.53% | 0.119% |
| 169 | 10.373 | 10.357 | 10.398 | VV | 4214 | 73471 | 0.72% | 0.163% |
| 170 | 10.416 | 10.398 | 10.439 | VV | 3059 | 47625 | 0.47% | 0.106% |
| 171 | 10.471 | 10.439 | 10.479 | VV | 2811 | 42564 | 0.42% | 0.094% |
| 172 | 10.497 | 10.479 | 10.543 | VV | 5367 | 108310 | 1.07% | 0.240% |
| 173 | 10.560 | 10.543 | 10.568 | VV | 1651 | 21607 | 0.21% | 0.048% |
| 174 | 10.587 | 10.568 | 10.607 | VV | 2148 | 38879 | 0.38% | 0.086% |
| 175 | 10.631 | 10.607 | 10.637 | VV | 1628 | 24729 | 0.24% | 0.055% |
| 176 | 10.642 | 10.637 | 10.657 | VV | 1735 | 17940 | 0.18% | 0.040% |
| 177 | 10.677 | 10.657 | 10.694 | VV | 2034 | 30597 | 0.30% | 0.068% |
| 178 | 10.705 | 10.694 | 10.727 | VV | 1342 | 18302 | 0.18% | 0.041% |
| 179 | 10.734 | 10.727 | 10.745 | VV | 882 | 7907 | 0.08% | 0.018% |
| 180 | 10.763 | 10.745 | 10.775 | VV | 935 | 13392 | 0.13% | 0.030% |
| 181 | 10.780 | 10.775 | 10.787 | VV | 688 | 4353 | 0.04% | 0.010% |
| 182 | 10.806 | 10.787 | 10.814 | VV | 1015 | 12864 | 0.13% | 0.029% |
| 183 | 10.818 | 10.814 | 10.835 | VV | 819 | 7961 | 0.08% | 0.018% |
| 184 | 10.890 | 10.835 | 10.908 | VV | 1720 | 40767 | 0.40% | 0.090% |
| 185 | 10.924 | 10.908 | 10.939 | VV | 1416 | 20648 | 0.20% | 0.046% |
| 186 | 10.953 | 10.939 | 10.977 | VV | 3287 | 43328 | 0.43% | 0.096% |
| 187 | 10.980 | 10.977 | 10.990 | VV | 561 | 4062 | 0.04% | 0.009% |
| 188 | 11.001 | 10.990 | 11.006 | VV | 586 | 4498 | 0.04% | 0.010% |
| 189 | 11.038 | 11.006 | 11.078 | VV | 2205 | 50520 | 0.50% | 0.112% |
| 190 | 11.099 | 11.078 | 11.126 | VV | 1679 | 27223 | 0.27% | 0.060% |
| 191 | 11.144 | 11.126 | 11.170 | VV | 1312 | 23086 | 0.23% | 0.051% |
| 192 | 11.191 | 11.170 | 11.210 | VV | 947 | 16483 | 0.16% | 0.037% |
| 193 | 11.252 | 11.210 | 11.289 | VV | 604776 | 6487978 | 63.82% | 14.377% |
| 194 | 11.297 | 11.289 | 11.321 | VV | 2354 | 38638 | 0.38% | 0.086% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 11.338 | 11.321 | 11.387 | VV | 2706 | 72318 | 0.71% | 0.160% |
| 196 | 11.419 | 11.387 | 11.458 | VV | 2582 | 74450 | 0.73% | 0.165% |
| 197 | 11.475 | 11.458 | 11.482 | VV | 1315 | 17114 | 0.17% | 0.038% |
| 198 | 11.486 | 11.482 | 11.492 | VV | 1196 | 6310 | 0.06% | 0.014% |
| 199 | 11.501 | 11.492 | 11.526 | VV | 1280 | 16465 | 0.16% | 0.036% |
| 200 | 11.539 | 11.526 | 11.558 | VV | 923 | 15081 | 0.15% | 0.033% |
| 201 | 11.606 | 11.558 | 11.649 | VV | 2886 | 94207 | 0.93% | 0.209% |
| 202 | 11.671 | 11.649 | 11.697 | VV | 11692 | 145436 | 1.43% | 0.322% |
| 203 | 11.705 | 11.697 | 11.735 | VV | 1766 | 29146 | 0.29% | 0.065% |
| 204 | 11.749 | 11.735 | 11.763 | VV | 1376 | 19541 | 0.19% | 0.043% |
| 205 | 11.776 | 11.763 | 11.793 | VV | 1289 | 20859 | 0.21% | 0.046% |
| 206 | 11.830 | 11.793 | 11.844 | VV | 2652 | 55392 | 0.54% | 0.123% |
| 207 | 11.869 | 11.844 | 11.935 | VV | 46059 | 623684 | 6.13% | 1.382% |
| 208 | 11.939 | 11.935 | 11.943 | VV | 1611 | 7059 | 0.07% | 0.016% |
| 209 | 11.945 | 11.943 | 11.957 | VV | 1602 | 12513 | 0.12% | 0.028% |
| 210 | 11.963 | 11.957 | 11.984 | VV | 1446 | 21695 | 0.21% | 0.048% |
| 211 | 11.992 | 11.984 | 12.010 | VV | 1664 | 22554 | 0.22% | 0.050% |
| 212 | 12.024 | 12.010 | 12.055 | VV | 1602 | 37642 | 0.37% | 0.083% |
| 213 | 12.086 | 12.055 | 12.100 | VV | 2338 | 51679 | 0.51% | 0.115% |
| 214 | 12.121 | 12.100 | 12.138 | VV | 9174 | 124126 | 1.22% | 0.275% |
| 215 | 12.159 | 12.138 | 12.181 | VV | 27590 | 326428 | 3.21% | 0.723% |
| 216 | 12.192 | 12.181 | 12.210 | VV | 3259 | 45568 | 0.45% | 0.101% |
| 217 | 12.232 | 12.210 | 12.238 | VV | 2367 | 31624 | 0.31% | 0.070% |
| 218 | 12.254 | 12.238 | 12.275 | VV | 4279 | 61871 | 0.61% | 0.137% |
| 219 | 12.300 | 12.275 | 12.362 | VV | 8003 | 188173 | 1.85% | 0.417% |
| 220 | 12.395 | 12.362 | 12.410 | VV | 1155 | 26035 | 0.26% | 0.058% |
| 221 | 12.418 | 12.410 | 12.432 | VV | 1178 | 12221 | 0.12% | 0.027% |
| 222 | 12.439 | 12.432 | 12.450 | VV | 767 | 7127 | 0.07% | 0.016% |
| 223 | 12.456 | 12.450 | 12.462 | VV | 676 | 4511 | 0.04% | 0.010% |
| 224 | 12.471 | 12.462 | 12.475 | VV | 793 | 5763 | 0.06% | 0.013% |
| 225 | 12.493 | 12.475 | 12.502 | VV | 1089 | 14398 | 0.14% | 0.032% |
| 226 | 12.521 | 12.502 | 12.530 | VV | 1248 | 18206 | 0.18% | 0.040% |
| 227 | 12.534 | 12.530 | 12.545 | VV | 1142 | 9083 | 0.09% | 0.020% |
| 228 | 12.548 | 12.545 | 12.562 | VV | 914 | 8374 | 0.08% | 0.019% |
| 229 | 12.617 | 12.562 | 12.645 | VV | 72642 | 901941 | 8.87% | 1.999% |
| 230 | 12.692 | 12.645 | 12.724 | VV | 124977 | 1515663 | 14.91% | 3.359% |
| 231 | 12.741 | 12.724 | 12.795 | VV | 1919 | 65801 | 0.65% | 0.146% |
| 232 | 12.803 | 12.795 | 12.835 | VV | 1297 | 26300 | 0.26% | 0.058% |
| 233 | 12.863 | 12.835 | 12.885 | VV | 2377 | 52955 | 0.52% | 0.117% |
| 234 | 12.917 | 12.885 | 12.959 | VV | 7368 | 138467 | 1.36% | 0.307% |
| 235 | 12.985 | 12.959 | 13.012 | VV | 1736 | 45887 | 0.45% | 0.102% |
| 236 | 13.018 | 13.012 | 13.030 | VV | 1460 | 13977 | 0.14% | 0.031% |
| 237 | 13.053 | 13.030 | 13.061 | VV | 1962 | 30589 | 0.30% | 0.068% |
| 238 | 13.092 | 13.061 | 13.155 | VV | 16409 | 287360 | 2.83% | 0.637% |
| 239 | 13.167 | 13.155 | 13.182 | VV | 2467 | 33871 | 0.33% | 0.075% |
| 240 | 13.200 | 13.182 | 13.209 | VV | 2161 | 31399 | 0.31% | 0.070% |
| 241 | 13.212 | 13.209 | 13.232 | VV | 2028 | 22933 | 0.23% | 0.051% |
| 242 | 13.239 | 13.232 | 13.249 | VV | 1309 | 12920 | 0.13% | 0.029% |
| 243 | 13.281 | 13.249 | 13.335 | VV | 19499 | 303634 | 2.99% | 0.673% |
| 244 | 13.353 | 13.335 | 13.359 | VV | 2103 | 27401 | 0.27% | 0.061% |
| 245 | 13.362 | 13.359 | 13.375 | VV | 2209 | 19712 | 0.19% | 0.044% |
| 246 | 13.398 | 13.375 | 13.421 | VV | 2685 | 54068 | 0.53% | 0.120% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 13.445 | 13.421 | 13.495 | VV | 5480 | 112652 | 1.11% | 0.250% |
| 248 | 13.506 | 13.495 | 13.515 | VV | 1462 | 15935 | 0.16% | 0.035% |
| 249 | 13.519 | 13.515 | 13.534 | VV | 1366 | 13064 | 0.13% | 0.029% |
| 250 | 13.540 | 13.534 | 13.546 | VV | 1263 | 8782 | 0.09% | 0.019% |
| 251 | 13.549 | 13.546 | 13.554 | VV | 1225 | 5661 | 0.06% | 0.013% |
| 252 | 13.569 | 13.554 | 13.603 | VV | 1306 | 30983 | 0.30% | 0.069% |
| 253 | 13.632 | 13.603 | 13.645 | VV | 1435 | 29893 | 0.29% | 0.066% |
| 254 | 13.673 | 13.645 | 13.689 | VV | 1618 | 35669 | 0.35% | 0.079% |
| 255 | 13.703 | 13.689 | 13.725 | VV | 1386 | 26035 | 0.26% | 0.058% |
| 256 | 13.735 | 13.725 | 13.755 | VV | 1405 | 21527 | 0.21% | 0.048% |
| 257 | 13.806 | 13.755 | 13.834 | VV | 2134 | 74530 | 0.73% | 0.165% |
| 258 | 13.879 | 13.834 | 13.905 | VV | 2999 | 85444 | 0.84% | 0.189% |
| 259 | 13.925 | 13.905 | 13.949 | VV | 1867 | 43071 | 0.42% | 0.095% |
| 260 | 13.955 | 13.949 | 13.969 | VV | 1539 | 17121 | 0.17% | 0.038% |
| 261 | 14.005 | 13.969 | 14.028 | VV | 5117 | 95124 | 0.94% | 0.211% |
| 262 | 14.038 | 14.028 | 14.055 | VV | 1705 | 24589 | 0.24% | 0.054% |
| 263 | 14.095 | 14.055 | 14.109 | VV | 2270 | 58829 | 0.58% | 0.130% |
| 264 | 14.135 | 14.109 | 14.151 | VV | 2057 | 43156 | 0.42% | 0.096% |
| 265 | 14.172 | 14.151 | 14.192 | VV | 2098 | 42420 | 0.42% | 0.094% |
| 266 | 14.220 | 14.192 | 14.234 | VV | 1998 | 40471 | 0.40% | 0.090% |
| 267 | 14.240 | 14.234 | 14.246 | VV | 1606 | 11059 | 0.11% | 0.025% |
| 268 | 14.256 | 14.246 | 14.262 | VV | 1640 | 13757 | 0.14% | 0.030% |
| 269 | 14.266 | 14.262 | 14.274 | VV | 1709 | 10929 | 0.11% | 0.024% |
| 270 | 14.279 | 14.274 | 14.282 | VV | 1558 | 7115 | 0.07% | 0.016% |
| 271 | 14.304 | 14.282 | 14.342 | VV | 2194 | 59107 | 0.58% | 0.131% |
| 272 | 14.348 | 14.342 | 14.372 | VV | 1451 | 22484 | 0.22% | 0.050% |
| 273 | 14.396 | 14.372 | 14.414 | VV | 1647 | 35938 | 0.35% | 0.080% |
| 274 | 14.418 | 14.414 | 14.438 | VV | 1356 | 17898 | 0.18% | 0.040% |
| 275 | 14.503 | 14.438 | 14.522 | VV | 4445 | 130368 | 1.28% | 0.289% |
| 276 | 14.542 | 14.522 | 14.571 | VV | 8939 | 146777 | 1.44% | 0.325% |
| 277 | 14.585 | 14.571 | 14.610 | VV | 2214 | 41238 | 0.41% | 0.091% |
| 278 | 14.635 | 14.610 | 14.665 | VV | 2081 | 56000 | 0.55% | 0.124% |
| 279 | 14.674 | 14.665 | 14.684 | VV | 1376 | 14478 | 0.14% | 0.032% |
| 280 | 14.688 | 14.684 | 14.700 | VV | 1281 | 11231 | 0.11% | 0.025% |
| 281 | 14.719 | 14.700 | 14.739 | VV | 1984 | 35436 | 0.35% | 0.079% |
| 282 | 14.746 | 14.739 | 14.768 | VV | 1382 | 20567 | 0.20% | 0.046% |
| 283 | 14.790 | 14.768 | 14.821 | VV | 1620 | 37279 | 0.37% | 0.083% |
| 284 | 14.838 | 14.821 | 14.862 | VV | 1456 | 27367 | 0.27% | 0.061% |
| 285 | 14.877 | 14.862 | 14.892 | VV | 1185 | 18152 | 0.18% | 0.040% |
| 286 | 14.918 | 14.892 | 14.991 | VV | 18012 | 407545 | 4.01% | 0.903% |
| 287 | 15.003 | 14.991 | 15.012 | VV | 2765 | 32163 | 0.32% | 0.071% |
| 288 | 15.027 | 15.012 | 15.039 | VV | 3182 | 43240 | 0.43% | 0.096% |
| 289 | 15.071 | 15.039 | 15.099 | VV | 48088 | 686610 | 6.75% | 1.521% |
| 290 | 15.110 | 15.099 | 15.130 | VV | 2203 | 31421 | 0.31% | 0.070% |
| 291 | 15.156 | 15.130 | 15.183 | VV | 2931 | 56457 | 0.56% | 0.125% |
| 292 | 15.192 | 15.183 | 15.200 | VV | 1323 | 12557 | 0.12% | 0.028% |
| 293 | 15.207 | 15.200 | 15.217 | VV | 1264 | 11385 | 0.11% | 0.025% |
| 294 | 15.259 | 15.217 | 15.280 | VV | 2214 | 59809 | 0.59% | 0.133% |
| 295 | 15.291 | 15.280 | 15.299 | VV | 1540 | 16263 | 0.16% | 0.036% |
| 296 | 15.305 | 15.299 | 15.329 | VV | 1512 | 24567 | 0.24% | 0.054% |
| 297 | 15.331 | 15.329 | 15.342 | VV | 1284 | 10125 | 0.10% | 0.022% |
| 298 | 15.383 | 15.342 | 15.410 | VV | 2074 | 65064 | 0.64% | 0.144% |
| 299 | 15.445 | 15.410 | 15.454 | VV | 1669 | 36900 | 0.36% | 0.082% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 15.458 | 15.454 | 15.502 | VV | 1543 | 34649 | 0.34% | 0.077% |
| 301 | 15.522 | 15.502 | 15.532 | VV | 2143 | 32338 | 0.32% | 0.072% |
| 302 | 15.557 | 15.532 | 15.588 | VV | 9972 | 154035 | 1.52% | 0.341% |
| 303 | 15.616 | 15.588 | 15.654 | VV | 2681 | 61325 | 0.60% | 0.136% |
| 304 | 15.658 | 15.654 | 15.663 | VV | 837 | 4183 | 0.04% | 0.009% |
| 305 | 15.668 | 15.663 | 15.685 | VV | 839 | 7749 | 0.08% | 0.017% |
| 306 | 15.717 | 15.685 | 15.724 | VV | 1131 | 19735 | 0.19% | 0.044% |
| 307 | 15.729 | 15.724 | 15.755 | VV | 1063 | 15483 | 0.15% | 0.034% |
| 308 | 15.764 | 15.755 | 15.777 | VV | 887 | 10121 | 0.10% | 0.022% |
| 309 | 15.795 | 15.777 | 15.817 | VV | 994 | 18800 | 0.18% | 0.042% |
| 310 | 15.849 | 15.817 | 15.855 | VV | 1308 | 22340 | 0.22% | 0.050% |
| 311 | 15.872 | 15.855 | 15.890 | VV | 1615 | 26772 | 0.26% | 0.059% |
| 312 | 15.928 | 15.890 | 16.009 | VV | 10183 | 272290 | 2.68% | 0.603% |
| 313 | 16.038 | 16.009 | 16.087 | VV | 10734 | 198687 | 1.95% | 0.440% |
| 314 | 16.112 | 16.087 | 16.145 | VV | 3058 | 70584 | 0.69% | 0.156% |
| 315 | 16.169 | 16.145 | 16.187 | VV | 3522 | 57062 | 0.56% | 0.126% |
| 316 | 16.198 | 16.187 | 16.214 | VV | 2308 | 33122 | 0.33% | 0.073% |
| 317 | 16.228 | 16.214 | 16.245 | VV | 2298 | 38782 | 0.38% | 0.086% |
| 318 | 16.261 | 16.245 | 16.265 | VV | 2412 | 26035 | 0.26% | 0.058% |
| 319 | 16.270 | 16.265 | 16.290 | VV | 2480 | 33693 | 0.33% | 0.075% |
| 320 | 16.319 | 16.290 | 16.341 | VV | 13568 | 211892 | 2.08% | 0.470% |
| 321 | 16.356 | 16.341 | 16.375 | VV | 4925 | 80327 | 0.79% | 0.178% |
| 322 | 16.390 | 16.375 | 16.399 | VV | 3751 | 45742 | 0.45% | 0.101% |
| 323 | 16.416 | 16.399 | 16.451 | VV | 4789 | 116158 | 1.14% | 0.257% |
| 324 | 16.476 | 16.451 | 16.484 | VV | 4794 | 69393 | 0.68% | 0.154% |
| 325 | 16.503 | 16.484 | 16.522 | VV | 10168 | 153002 | 1.50% | 0.339% |
| 326 | 16.546 | 16.522 | 16.567 | VV | 42586 | 583572 | 5.74% | 1.293% |
| 327 | 16.576 | 16.567 | 16.625 | VV | 11692 | 173268 | 1.70% | 0.384% |
| 328 | 16.636 | 16.625 | 16.641 | VV | 1617 | 13078 | 0.13% | 0.029% |
| 329 | 16.649 | 16.641 | 16.657 | VV | 1544 | 13167 | 0.13% | 0.029% |
| 330 | 16.661 | 16.657 | 16.677 | VV | 1317 | 13701 | 0.13% | 0.030% |
| 331 | 16.706 | 16.677 | 16.741 | VV | 1861 | 49990 | 0.49% | 0.111% |
| 332 | 16.747 | 16.741 | 16.755 | VV | 1209 | 8701 | 0.09% | 0.019% |
| 333 | 16.759 | 16.755 | 16.763 | VV | 1065 | 4719 | 0.05% | 0.010% |
| 334 | 16.804 | 16.763 | 16.837 | VV | 4215 | 111762 | 1.10% | 0.248% |
| 335 | 16.864 | 16.837 | 16.922 | VV | 13805 | 318109 | 3.13% | 0.705% |
| 336 | 16.950 | 16.922 | 16.999 | VV | 11200 | 208574 | 2.05% | 0.462% |
| 337 | 17.032 | 16.999 | 17.045 | VV | 2178 | 49882 | 0.49% | 0.111% |
| 338 | 17.068 | 17.045 | 17.074 | VV | 2139 | 30606 | 0.30% | 0.068% |
| 339 | 17.087 | 17.074 | 17.127 | VV | 2273 | 53609 | 0.53% | 0.119% |
| 340 | 17.135 | 17.127 | 17.149 | VV | 1112 | 13424 | 0.13% | 0.030% |
| 341 | 17.179 | 17.149 | 17.214 | VV | 1548 | 44300 | 0.44% | 0.098% |
| 342 | 17.242 | 17.214 | 17.262 | VV | 2255 | 45501 | 0.45% | 0.101% |
| 343 | 17.274 | 17.262 | 17.297 | VV | 1717 | 29340 | 0.29% | 0.065% |
| 344 | 17.316 | 17.297 | 17.334 | VV | 1805 | 34405 | 0.34% | 0.076% |
| 345 | 17.354 | 17.334 | 17.364 | VV | 2981 | 44718 | 0.44% | 0.099% |
| 346 | 17.385 | 17.364 | 17.417 | VV | 8584 | 136468 | 1.34% | 0.302% |
| 347 | 17.433 | 17.417 | 17.446 | VV | 1532 | 23226 | 0.23% | 0.051% |
| 348 | 17.472 | 17.446 | 17.504 | VV | 8899 | 149658 | 1.47% | 0.332% |
| 349 | 17.516 | 17.504 | 17.521 | VV | 1430 | 14285 | 0.14% | 0.032% |
| 350 | 17.551 | 17.521 | 17.576 | VV | 44155 | 676208 | 6.65% | 1.498% |
| 351 | 17.590 | 17.576 | 17.617 | VV | 15422 | 240190 | 2.36% | 0.532% |

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|---|---|---|---|---|---|---|---|---|
| 352 | 17.626 | 17.617 | 17.649 | VV | 3236 | 47094 | 0.46% | 0.104% |
| 353 | 17.702 | 17.649 | 17.723 | VV | 113580 | 1578831 | 15.53% | 3.499% |
| 354 | 17.737 | 17.723 | 17.787 | VV | 26226 | 544771 | 5.36% | 1.207% |
| 355 | 17.807 | 17.787 | 17.867 | VV | 11751 | 243830 | 2.40% | 0.540% |
| 356 | 17.885 | 17.867 | 17.909 | VV | 6504 | 101235 | 1.00% | 0.224% |
| 357 | 17.917 | 17.909 | 17.977 | VV | 3258 | 46918 | 0.46% | 0.104% |
| 358 | 18.018 | 17.977 | 18.027 | PV | 3290 | 55694 | 0.55% | 0.123% |
| 359 | 18.043 | 18.027 | 18.099 | VV | 3363 | 72286 | 0.71% | 0.160% |
| 360 | 18.159 | 18.099 | 18.192 | PV | 9229 | 136466 | 1.34% | 0.302% |

Sum of corrected areas: 45128264

Aromatic EPH 111424.M Tue Nov 19 06:18:56 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067813.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 00:53
Operator : YP/AJ
Sample : P4860-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-002

Integration File: sample.E
Quant Time: Nov 19 10:45:04 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... | 12.929 | 5545169 | 38.200 ug/ml |
| Spiked Amount 50.000 | | Recovery = 76.40% | |
| Target Compounds | | | |

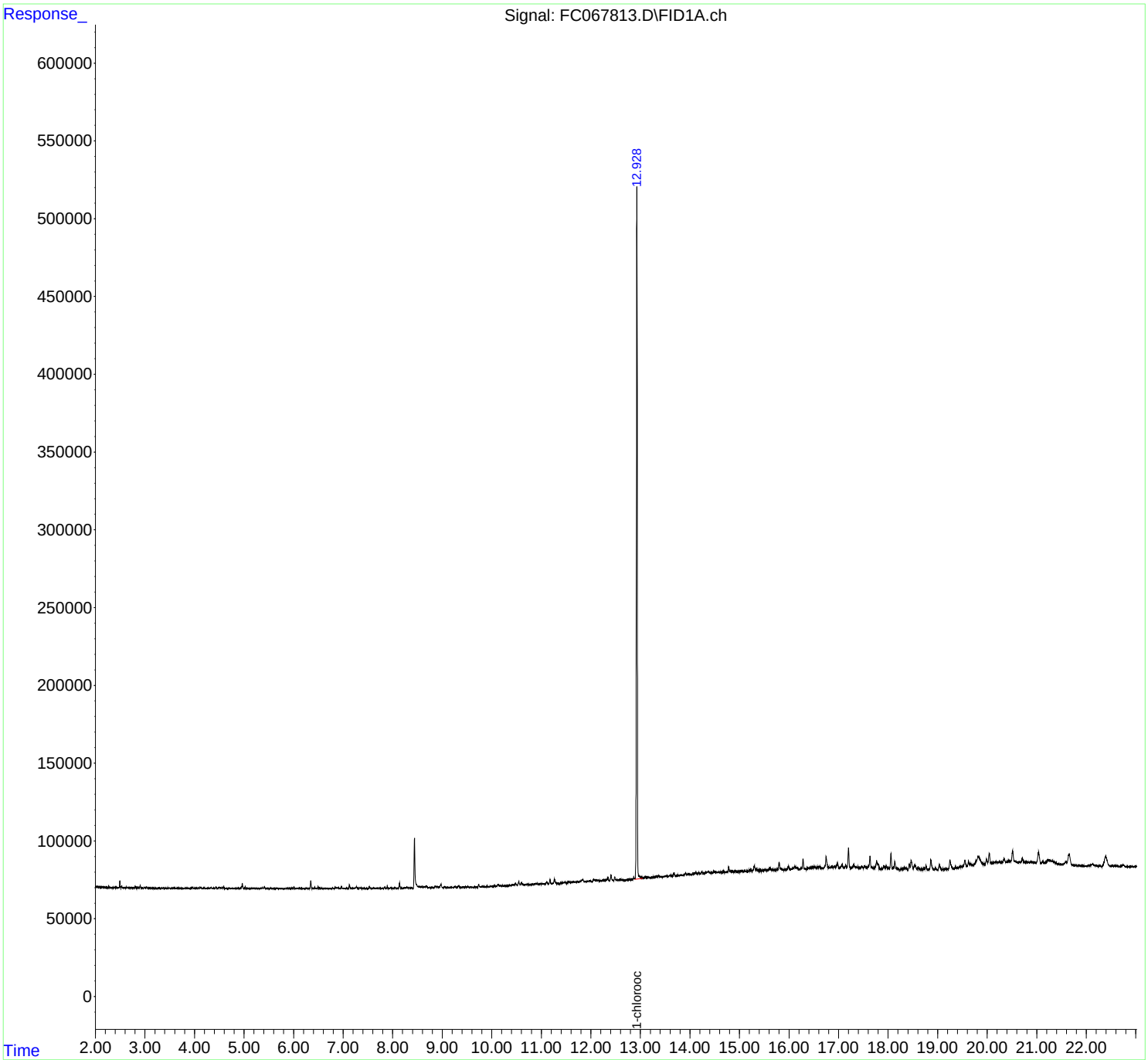
(f)=RT Delta > 1/2 Window (m)=manual int.

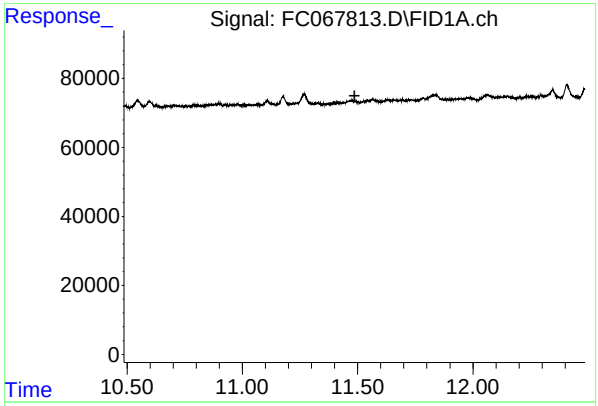
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067813.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 00:53
Operator : YP/AJ
Sample : P4860-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-002

Integration File: sample.E
Quant Time: Nov 19 10:45:04 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

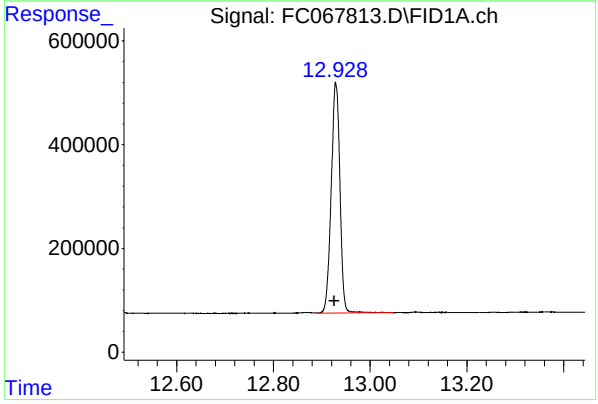





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-002




#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: 0.003 min
Response: 5545169
Conc: 38.20 ug/ml

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067813.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 00:53
Sample : P4860-03
Misc :
ALS Vial : 23 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 | 3.275 | 3.225 | 3.301 | BV | 365 | 3379 | 0.06% | 0.011% |
| 2 | 3.310 | 3.301 | 3.329 | PV | 134 | 1051 | 0.02% | 0.003% |
| 3 | 3.337 | 3.329 | 3.348 | VV | 104 | 559 | 0.01% | 0.002% |
| 4 | 3.369 | 3.348 | 3.382 | VV | 85 | 961 | 0.02% | 0.003% |
| 5 | 3.396 | 3.382 | 3.407 | PV | 93 | 929 | 0.02% | 0.003% |
| 6 | 3.419 | 3.407 | 3.438 | VV | 69 | 1105 | 0.02% | 0.004% |
| 7 | 3.442 | 3.438 | 3.461 | VV | 95 | 1092 | 0.02% | 0.003% |
| 8 | 3.467 | 3.461 | 3.511 | VV | 147 | 2139 | 0.04% | 0.007% |
| 9 | 3.521 | 3.511 | 3.565 | VV | 166 | 2861 | 0.05% | 0.009% |
| 10 | 3.594 | 3.565 | 3.633 | VV | 201 | 5249 | 0.09% | 0.017% |
| 11 | 3.645 | 3.633 | 3.661 | VV | 187 | 2250 | 0.04% | 0.007% |
| 12 | 3.670 | 3.661 | 3.678 | VV | 161 | 1225 | 0.02% | 0.004% |
| 13 | 3.688 | 3.678 | 3.718 | VV | 220 | 2906 | 0.05% | 0.009% |
| 14 | 3.735 | 3.718 | 3.744 | VV | 160 | 1238 | 0.02% | 0.004% |
| 15 | 3.762 | 3.744 | 3.775 | PV | 161 | 1804 | 0.03% | 0.006% |
| 16 | 3.797 | 3.775 | 3.831 | VV | 160 | 3889 | 0.07% | 0.012% |
| 17 | 3.844 | 3.831 | 3.894 | VV | 180 | 4389 | 0.08% | 0.014% |
| 18 | 3.938 | 3.894 | 3.950 | VV | 360 | 7172 | 0.13% | 0.023% |
| 19 | 3.965 | 3.950 | 3.995 | VV | 884 | 9375 | 0.16% | 0.030% |
| 20 | 4.035 | 3.995 | 4.055 | VV | 237 | 5807 | 0.10% | 0.019% |
| 21 | 4.113 | 4.055 | 4.129 | VV | 739 | 13476 | 0.24% | 0.043% |
| 22 | 4.142 | 4.129 | 4.169 | VV | 353 | 5233 | 0.09% | 0.017% |
| 23 | 4.196 | 4.169 | 4.247 | VV | 546 | 11044 | 0.19% | 0.035% |
| 24 | 4.265 | 4.247 | 4.275 | VV | 234 | 2887 | 0.05% | 0.009% |
| 25 | 4.287 | 4.275 | 4.308 | VV | 187 | 2666 | 0.05% | 0.009% |
| 26 | 4.335 | 4.308 | 4.360 | VV | 803 | 11092 | 0.19% | 0.035% |
| 27 | 4.379 | 4.360 | 4.401 | VV | 254 | 4747 | 0.08% | 0.015% |
| 28 | 4.433 | 4.401 | 4.465 | VV | 1008 | 17089 | 0.30% | 0.055% |
| 29 | 4.502 | 4.465 | 4.522 | VV | 1002 | 15294 | 0.27% | 0.049% |
| 30 | 4.558 | 4.522 | 4.571 | VV | 1025 | 14027 | 0.24% | 0.045% |
| 31 | 4.587 | 4.571 | 4.670 | VV | 1398 | 20220 | 0.35% | 0.065% |
| 32 | 4.702 | 4.670 | 4.727 | VV | 293 | 5660 | 0.10% | 0.018% |
| 33 | 4.743 | 4.727 | 4.755 | VV | 156 | 1867 | 0.03% | 0.006% |
| 34 | 4.777 | 4.755 | 4.821 | VV | 216 | 4190 | 0.07% | 0.013% |
| 35 | 4.838 | 4.821 | 4.866 | VV | 155 | 2334 | 0.04% | 0.007% |
| 36 | 4.888 | 4.866 | 4.921 | PV | 304 | 5358 | 0.09% | 0.017% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 4.965 | 4.921 | 5.001 | VV | 3494 | 46001 | 0.80% | 0.147% |
| 38 | 5.021 | 5.001 | 5.055 | VV | 816 | 10666 | 0.19% | 0.034% |
| 39 | 5.074 | 5.055 | 5.112 | VV | 187 | 3995 | 0.07% | 0.013% |
| 40 | 5.158 | 5.112 | 5.174 | VV | 327 | 5809 | 0.10% | 0.019% |
| 41 | 5.190 | 5.174 | 5.301 | VV | 245 | 9085 | 0.16% | 0.029% |
| 42 | 5.309 | 5.301 | 5.320 | VV | 145 | 1066 | 0.02% | 0.003% |
| 43 | 5.334 | 5.320 | 5.347 | VV | 228 | 2304 | 0.04% | 0.007% |
| 44 | 5.368 | 5.347 | 5.387 | VV | 633 | 8679 | 0.15% | 0.028% |
| 45 | 5.409 | 5.387 | 5.448 | VV | 1350 | 17073 | 0.30% | 0.054% |
| 46 | 5.464 | 5.448 | 5.505 | VV | 385 | 5369 | 0.09% | 0.017% |
| 47 | 5.548 | 5.505 | 5.615 | VV | 281 | 8957 | 0.16% | 0.029% |
| 48 | 5.655 | 5.615 | 5.689 | VV | 261 | 5657 | 0.10% | 0.018% |
| 49 | 5.711 | 5.689 | 5.758 | PV | 252 | 4653 | 0.08% | 0.015% |
| 50 | 5.764 | 5.758 | 5.775 | VV | 133 | 944 | 0.02% | 0.003% |
| 51 | 5.785 | 5.775 | 5.811 | VV | 87 | 1266 | 0.02% | 0.004% |
| 52 | 5.822 | 5.811 | 5.832 | VV | 127 | 955 | 0.02% | 0.003% |
| 53 | 5.839 | 5.832 | 5.858 | VV | 102 | 1378 | 0.02% | 0.004% |
| 54 | 5.914 | 5.858 | 5.940 | VV | 329 | 8988 | 0.16% | 0.029% |
| 55 | 5.965 | 5.940 | 5.987 | VV | 435 | 7086 | 0.12% | 0.023% |
| 56 | 6.007 | 5.987 | 6.042 | VV | 691 | 9892 | 0.17% | 0.032% |
| 57 | 6.069 | 6.042 | 6.107 | VV | 457 | 8729 | 0.15% | 0.028% |
| 58 | 6.139 | 6.107 | 6.210 | VV | 375 | 9997 | 0.17% | 0.032% |
| 59 | 6.240 | 6.210 | 6.259 | VV | 233 | 3979 | 0.07% | 0.013% |
| 60 | 6.280 | 6.259 | 6.307 | VV | 135 | 2558 | 0.04% | 0.008% |
| 61 | 6.348 | 6.307 | 6.407 | VV | 5076 | 60506 | 1.06% | 0.193% |
| 62 | 6.431 | 6.407 | 6.455 | VV | 648 | 8266 | 0.14% | 0.026% |
| 63 | 6.466 | 6.455 | 6.477 | VV | 254 | 2528 | 0.04% | 0.008% |
| 64 | 6.497 | 6.477 | 6.515 | VV | 991 | 11250 | 0.20% | 0.036% |
| 65 | 6.530 | 6.515 | 6.549 | VV | 439 | 5165 | 0.09% | 0.016% |
| 66 | 6.568 | 6.549 | 6.641 | VV | 586 | 7932 | 0.14% | 0.025% |
| 67 | 6.663 | 6.641 | 6.700 | PV | 147 | 2052 | 0.04% | 0.007% |
| 68 | 6.741 | 6.700 | 6.762 | VV | 196 | 3007 | 0.05% | 0.010% |
| 69 | 6.788 | 6.762 | 6.817 | PV | 613 | 6910 | 0.12% | 0.022% |
| 70 | 6.841 | 6.817 | 6.858 | VV | 890 | 11910 | 0.21% | 0.038% |
| 71 | 6.891 | 6.858 | 6.934 | VV | 721 | 19651 | 0.34% | 0.063% |
| 72 | 6.967 | 6.934 | 6.989 | VV | 1166 | 17531 | 0.31% | 0.056% |
| 73 | 7.004 | 6.989 | 7.028 | VV | 175 | 2770 | 0.05% | 0.009% |
| 74 | 7.046 | 7.028 | 7.059 | VV | 235 | 2577 | 0.04% | 0.008% |
| 75 | 7.072 | 7.059 | 7.100 | VV | 331 | 3982 | 0.07% | 0.013% |
| 76 | 7.129 | 7.100 | 7.175 | VV | 2581 | 30071 | 0.52% | 0.096% |
| 77 | 7.187 | 7.175 | 7.218 | PV | 342 | 6474 | 0.11% | 0.021% |
| 78 | 7.236 | 7.218 | 7.251 | VV | 494 | 6194 | 0.11% | 0.020% |
| 79 | 7.269 | 7.251 | 7.301 | VV | 1214 | 16303 | 0.28% | 0.052% |
| 80 | 7.309 | 7.301 | 7.317 | VV | 201 | 1788 | 0.03% | 0.006% |
| 81 | 7.332 | 7.317 | 7.348 | VV | 429 | 5789 | 0.10% | 0.018% |
| 82 | 7.359 | 7.348 | 7.397 | VV | 576 | 7826 | 0.14% | 0.025% |
| 83 | 7.409 | 7.397 | 7.415 | VV | 128 | 1164 | 0.02% | 0.004% |
| 84 | 7.439 | 7.415 | 7.498 | VV | 231 | 4437 | 0.08% | 0.014% |
| 85 | 7.530 | 7.498 | 7.567 | VV | 1177 | 14878 | 0.26% | 0.047% |
| 86 | 7.583 | 7.567 | 7.599 | VV | 297 | 4299 | 0.07% | 0.014% |
| 87 | 7.613 | 7.599 | 7.660 | VV | 309 | 8016 | 0.14% | 0.026% |
| 88 | 7.691 | 7.660 | 7.708 | VV | 384 | 7141 | 0.12% | 0.023% |
| 89 | 7.723 | 7.708 | 7.735 | VV | 282 | 3163 | 0.06% | 0.010% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.743 | 7.735 | 7.773 | VV | 211 | 3316 | 0.06% | 0.011% |
| 91 | 7.789 | 7.773 | 7.814 | VV | 287 | 4452 | 0.08% | 0.014% |
| 92 | 7.835 | 7.814 | 7.860 | VV | 926 | 11183 | 0.20% | 0.036% |
| 93 | 7.891 | 7.860 | 7.915 | PV | 1189 | 15131 | 0.26% | 0.048% |
| 94 | 7.928 | 7.915 | 7.945 | VV | 165 | 2740 | 0.05% | 0.009% |
| 95 | 7.961 | 7.945 | 8.008 | VV | 346 | 6059 | 0.11% | 0.019% |
| 96 | 8.045 | 8.008 | 8.073 | VV | 504 | 9613 | 0.17% | 0.031% |
| 97 | 8.096 | 8.073 | 8.115 | VV | 220 | 3893 | 0.07% | 0.012% |
| 98 | 8.139 | 8.115 | 8.212 | VV | 3491 | 45996 | 0.80% | 0.147% |
| 99 | 8.253 | 8.212 | 8.271 | VV | 499 | 12380 | 0.22% | 0.040% |
| 100 | 8.290 | 8.271 | 8.312 | VV | 646 | 10176 | 0.18% | 0.032% |
| 101 | 8.332 | 8.312 | 8.351 | VV | 360 | 5029 | 0.09% | 0.016% |
| 102 | 8.372 | 8.351 | 8.415 | VV | 511 | 7856 | 0.14% | 0.025% |
| 103 | 8.441 | 8.415 | 8.574 | PV | 32123 | 474944 | 8.28% | 1.516% |
| 104 | 8.593 | 8.574 | 8.611 | VV | 1005 | 18990 | 0.33% | 0.061% |
| 105 | 8.628 | 8.611 | 8.640 | VV | 876 | 12264 | 0.21% | 0.039% |
| 106 | 8.651 | 8.640 | 8.660 | VV | 739 | 8849 | 0.15% | 0.028% |
| 107 | 8.677 | 8.660 | 8.721 | VV | 1271 | 26955 | 0.47% | 0.086% |
| 108 | 8.741 | 8.721 | 8.768 | VV | 530 | 9135 | 0.16% | 0.029% |
| 109 | 8.792 | 8.768 | 8.811 | VV | 404 | 7324 | 0.13% | 0.023% |
| 110 | 8.857 | 8.811 | 8.878 | VV | 1451 | 24539 | 0.43% | 0.078% |
| 111 | 8.896 | 8.878 | 8.911 | VV | 1081 | 14991 | 0.26% | 0.048% |
| 112 | 8.920 | 8.911 | 8.948 | VV | 752 | 15092 | 0.26% | 0.048% |
| 113 | 8.975 | 8.948 | 9.028 | VV | 2531 | 48643 | 0.85% | 0.155% |
| 114 | 9.048 | 9.028 | 9.071 | VV | 801 | 10160 | 0.18% | 0.032% |
| 115 | 9.096 | 9.071 | 9.122 | VV | 448 | 6381 | 0.11% | 0.020% |
| 116 | 9.150 | 9.122 | 9.195 | PV | 413 | 9550 | 0.17% | 0.030% |
| 117 | 9.202 | 9.195 | 9.226 | VV | 232 | 3023 | 0.05% | 0.010% |
| 118 | 9.260 | 9.226 | 9.305 | VV | 708 | 15399 | 0.27% | 0.049% |
| 119 | 9.326 | 9.305 | 9.368 | VV | 1284 | 22686 | 0.40% | 0.072% |
| 120 | 9.416 | 9.368 | 9.445 | VV | 398 | 10930 | 0.19% | 0.035% |
| 121 | 9.467 | 9.445 | 9.489 | VV | 538 | 9506 | 0.17% | 0.030% |
| 122 | 9.517 | 9.489 | 9.566 | VV | 705 | 12645 | 0.22% | 0.040% |
| 123 | 9.583 | 9.566 | 9.605 | VV | 173 | 2806 | 0.05% | 0.009% |
| 124 | 9.615 | 9.605 | 9.632 | VV | 142 | 1452 | 0.03% | 0.005% |
| 125 | 9.656 | 9.632 | 9.678 | PV | 465 | 6542 | 0.11% | 0.021% |
| 126 | 9.696 | 9.678 | 9.716 | VV | 303 | 4658 | 0.08% | 0.015% |
| 127 | 9.737 | 9.716 | 9.781 | VV | 1861 | 25941 | 0.45% | 0.083% |
| 128 | 9.819 | 9.781 | 9.862 | VV | 449 | 14755 | 0.26% | 0.047% |
| 129 | 9.904 | 9.862 | 9.945 | VV | 458 | 11286 | 0.20% | 0.036% |
| 130 | 9.977 | 9.945 | 9.998 | VV | 311 | 5733 | 0.10% | 0.018% |
| 131 | 10.015 | 9.998 | 10.035 | VV | 358 | 4739 | 0.08% | 0.015% |
| 132 | 10.057 | 10.035 | 10.071 | VV | 519 | 7529 | 0.13% | 0.024% |
| 133 | 10.085 | 10.071 | 10.101 | VV | 383 | 5711 | 0.10% | 0.018% |
| 134 | 10.127 | 10.101 | 10.150 | VV | 1477 | 25207 | 0.44% | 0.080% |
| 135 | 10.167 | 10.150 | 10.191 | VV | 570 | 11608 | 0.20% | 0.037% |
| 136 | 10.214 | 10.191 | 10.231 | VV | 659 | 12062 | 0.21% | 0.038% |
| 137 | 10.268 | 10.231 | 10.307 | VV | 642 | 18222 | 0.32% | 0.058% |
| 138 | 10.336 | 10.307 | 10.348 | VV | 596 | 10201 | 0.18% | 0.033% |
| 139 | 10.369 | 10.348 | 10.391 | VV | 658 | 13850 | 0.24% | 0.044% |
| 140 | 10.409 | 10.391 | 10.438 | VV | 868 | 19430 | 0.34% | 0.062% |
| 141 | 10.476 | 10.438 | 10.511 | VV | 1899 | 43945 | 0.77% | 0.140% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.546 | 10.511 | 10.573 | VV | 2530 | 52295 | 0.91% | 0.167% |
| 143 | 10.597 | 10.573 | 10.658 | VV | 2077 | 54916 | 0.96% | 0.175% |
| 144 | 10.706 | 10.658 | 10.745 | VV | 870 | 34965 | 0.61% | 0.112% |
| 145 | 10.755 | 10.745 | 10.775 | VV | 636 | 10113 | 0.18% | 0.032% |
| 146 | 10.794 | 10.775 | 10.822 | VV | 816 | 19673 | 0.34% | 0.063% |
| 147 | 10.896 | 10.822 | 10.915 | VV | 1173 | 47724 | 0.83% | 0.152% |
| 148 | 10.925 | 10.915 | 10.941 | VV | 827 | 11081 | 0.19% | 0.035% |
| 149 | 10.952 | 10.941 | 10.961 | VV | 726 | 8454 | 0.15% | 0.027% |
| 150 | 10.980 | 10.961 | 11.018 | VV | 898 | 23779 | 0.41% | 0.076% |
| 151 | 11.031 | 11.018 | 11.043 | VV | 731 | 9426 | 0.16% | 0.030% |
| 152 | 11.066 | 11.043 | 11.078 | VV | 702 | 13731 | 0.24% | 0.044% |
| 153 | 11.108 | 11.078 | 11.155 | VV | 1838 | 46128 | 0.80% | 0.147% |
| 154 | 11.176 | 11.155 | 11.208 | VV | 2931 | 50405 | 0.88% | 0.161% |
| 155 | 11.268 | 11.208 | 11.306 | VV | 3560 | 88827 | 1.55% | 0.284% |
| 156 | 11.328 | 11.306 | 11.356 | VV | 872 | 20396 | 0.36% | 0.065% |
| 157 | 11.413 | 11.356 | 11.431 | VV | 961 | 32473 | 0.57% | 0.104% |
| 158 | 11.473 | 11.431 | 11.508 | VV | 1442 | 51553 | 0.90% | 0.165% |
| 159 | 11.565 | 11.508 | 11.597 | VV | 1682 | 66248 | 1.16% | 0.211% |
| 160 | 11.630 | 11.597 | 11.650 | VV | 1583 | 39820 | 0.69% | 0.127% |
| 161 | 11.667 | 11.650 | 11.687 | VV | 1421 | 28320 | 0.49% | 0.090% |
| 162 | 11.694 | 11.687 | 11.711 | VV | 1322 | 17890 | 0.31% | 0.057% |
| 163 | 11.730 | 11.711 | 11.758 | VV | 1385 | 35290 | 0.62% | 0.113% |
| 164 | 11.784 | 11.758 | 11.795 | VV | 1794 | 32992 | 0.58% | 0.105% |
| 165 | 11.838 | 11.795 | 11.886 | VV | 2613 | 104154 | 1.82% | 0.332% |
| 166 | 11.979 | 11.886 | 12.025 | VV | 1773 | 114507 | 2.00% | 0.365% |
| 167 | 12.063 | 12.025 | 12.098 | VV | 2492 | 82587 | 1.44% | 0.264% |
| 168 | 12.117 | 12.098 | 12.128 | VV | 1800 | 30894 | 0.54% | 0.099% |
| 169 | 12.149 | 12.128 | 12.181 | VV | 1968 | 53365 | 0.93% | 0.170% |
| 170 | 12.203 | 12.181 | 12.215 | VV | 1588 | 28387 | 0.50% | 0.091% |
| 171 | 12.253 | 12.215 | 12.278 | VV | 1795 | 62840 | 1.10% | 0.201% |
| 172 | 12.296 | 12.278 | 12.309 | VV | 2034 | 33591 | 0.59% | 0.107% |
| 173 | 12.345 | 12.309 | 12.378 | VV | 3571 | 93202 | 1.63% | 0.297% |
| 174 | 12.408 | 12.378 | 12.465 | VV | 4985 | 122265 | 2.13% | 0.390% |
| 175 | 12.484 | 12.465 | 12.508 | VV | 3738 | 63886 | 1.11% | 0.204% |
| 176 | 12.519 | 12.508 | 12.538 | VV | 1729 | 29434 | 0.51% | 0.094% |
| 177 | 12.588 | 12.538 | 12.615 | VV | 1929 | 78380 | 1.37% | 0.250% |
| 178 | 12.630 | 12.615 | 12.665 | VV | 1703 | 42361 | 0.74% | 0.135% |
| 179 | 12.679 | 12.665 | 12.689 | VV | 1277 | 18008 | 0.31% | 0.057% |
| 180 | 12.747 | 12.689 | 12.763 | VV | 1836 | 65658 | 1.15% | 0.210% |
| 181 | 12.771 | 12.763 | 12.791 | VV | 1549 | 26085 | 0.46% | 0.083% |
| 182 | 12.805 | 12.791 | 12.831 | VV | 1678 | 37256 | 0.65% | 0.119% |
| 183 | 12.868 | 12.831 | 12.888 | VV | 2808 | 71850 | 1.25% | 0.229% |
| 184 | 12.929 | 12.888 | 13.050 | VV | 447080 | 5732812 | 100.00% | 18.298% |
| 185 | 13.061 | 13.050 | 13.074 | VV | 2447 | 33599 | 0.59% | 0.107% |
| 186 | 13.095 | 13.074 | 13.116 | VV | 3376 | 67496 | 1.18% | 0.215% |
| 187 | 13.142 | 13.116 | 13.195 | VV | 2701 | 118051 | 2.06% | 0.377% |
| 188 | 13.254 | 13.195 | 13.274 | VV | 2798 | 112745 | 1.97% | 0.360% |
| 189 | 13.323 | 13.274 | 13.338 | VV | 3067 | 104116 | 1.82% | 0.332% |
| 190 | 13.366 | 13.338 | 13.402 | VV | 3216 | 113535 | 1.98% | 0.362% |
| 191 | 13.411 | 13.402 | 13.435 | VV | 2778 | 54817 | 0.96% | 0.175% |
| 192 | 13.458 | 13.435 | 13.467 | VV | 2728 | 49302 | 0.86% | 0.157% |
| 193 | 13.530 | 13.467 | 13.568 | VV | 3503 | 175376 | 3.06% | 0.560% |
| 194 | 13.596 | 13.568 | 13.615 | VV | 3464 | 85115 | 1.48% | 0.272% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.627 | 13.615 | 13.645 | VV | 3315 | 58198 | 1.02% | 0.186% |
| 196 | 13.680 | 13.645 | 13.716 | VV | 5052 | 151443 | 2.64% | 0.483% |
| 197 | 13.731 | 13.716 | 13.752 | VV | 3226 | 66740 | 1.16% | 0.213% |
| 198 | 13.766 | 13.752 | 13.792 | VV | 3243 | 74060 | 1.29% | 0.236% |
| 199 | 13.819 | 13.792 | 13.861 | VV | 3595 | 134936 | 2.35% | 0.431% |
| 200 | 13.913 | 13.861 | 13.941 | VV | 4564 | 180565 | 3.15% | 0.576% |
| 201 | 13.972 | 13.941 | 14.034 | VV | 3899 | 203332 | 3.55% | 0.649% |
| 202 | 14.081 | 14.034 | 14.093 | VV | 4128 | 135141 | 2.36% | 0.431% |
| 203 | 14.116 | 14.093 | 14.145 | VV | 4746 | 131459 | 2.29% | 0.420% |
| 204 | 14.182 | 14.145 | 14.218 | VV | 4435 | 175650 | 3.06% | 0.561% |
| 205 | 14.241 | 14.218 | 14.275 | VV | 5555 | 146433 | 2.55% | 0.467% |
| 206 | 14.372 | 14.275 | 14.425 | VV | 5024 | 400612 | 6.99% | 1.279% |
| 207 | 14.442 | 14.425 | 14.466 | VV | 4422 | 104859 | 1.83% | 0.335% |
| 208 | 14.485 | 14.466 | 14.515 | VV | 5166 | 135180 | 2.36% | 0.431% |
| 209 | 14.549 | 14.515 | 14.654 | VV | 4452 | 363597 | 6.34% | 1.161% |
| 210 | 14.690 | 14.654 | 14.721 | VV | 4711 | 177697 | 3.10% | 0.567% |
| 211 | 14.781 | 14.721 | 14.845 | VV | 7759 | 370035 | 6.45% | 1.181% |
| 212 | 14.853 | 14.845 | 14.859 | VV | 4571 | 40374 | 0.70% | 0.129% |
| 213 | 14.863 | 14.859 | 14.885 | VV | 4682 | 66162 | 1.15% | 0.211% |
| 214 | 14.911 | 14.885 | 14.954 | VV | 4839 | 187574 | 3.27% | 0.599% |
| 215 | 15.032 | 14.954 | 15.051 | VV | 4849 | 259750 | 4.53% | 0.829% |
| 216 | 15.068 | 15.051 | 15.082 | VV | 4632 | 81760 | 1.43% | 0.261% |
| 217 | 15.108 | 15.082 | 15.128 | VV | 4873 | 125525 | 2.19% | 0.401% |
| 218 | 15.151 | 15.128 | 15.171 | VV | 4624 | 110155 | 1.92% | 0.352% |
| 219 | 15.207 | 15.171 | 15.228 | VV | 5166 | 163761 | 2.86% | 0.523% |
| 220 | 15.237 | 15.228 | 15.265 | VV | 4794 | 99964 | 1.74% | 0.319% |
| 221 | 15.301 | 15.265 | 15.339 | VV | 8044 | 261352 | 4.56% | 0.834% |
| 222 | 15.349 | 15.339 | 15.378 | VV | 5354 | 114601 | 2.00% | 0.366% |
| 223 | 15.385 | 15.378 | 15.407 | VV | 4947 | 77947 | 1.36% | 0.249% |
| 224 | 15.424 | 15.407 | 15.445 | VV | 5207 | 106430 | 1.86% | 0.340% |
| 225 | 15.519 | 15.445 | 15.531 | VV | 5013 | 235554 | 4.11% | 0.752% |
| 226 | 15.558 | 15.531 | 15.580 | VV | 5000 | 134966 | 2.35% | 0.431% |
| 227 | 15.613 | 15.580 | 15.652 | VV | 5982 | 227640 | 3.97% | 0.727% |
| 228 | 15.660 | 15.652 | 15.734 | VV | 5056 | 225702 | 3.94% | 0.720% |
| 229 | 15.759 | 15.734 | 15.773 | VV | 5136 | 113931 | 1.99% | 0.364% |
| 230 | 15.800 | 15.773 | 15.919 | VV | 9109 | 477231 | 8.32% | 1.523% |
| 231 | 15.938 | 15.919 | 15.947 | VV | 4566 | 74136 | 1.29% | 0.237% |
| 232 | 15.990 | 15.947 | 16.022 | VV | 6154 | 236870 | 4.13% | 0.756% |
| 233 | 16.031 | 16.022 | 16.061 | VV | 4903 | 112096 | 1.96% | 0.358% |
| 234 | 16.115 | 16.061 | 16.143 | VV | 5992 | 268576 | 4.68% | 0.857% |
| 235 | 16.157 | 16.143 | 16.210 | VV | 5861 | 200722 | 3.50% | 0.641% |
| 236 | 16.282 | 16.210 | 16.312 | VV | 10741 | 367806 | 6.42% | 1.174% |
| 237 | 16.324 | 16.312 | 16.348 | VV | 4934 | 96398 | 1.68% | 0.308% |
| 238 | 16.375 | 16.348 | 16.405 | VV | 4960 | 163335 | 2.85% | 0.521% |
| 239 | 16.427 | 16.405 | 16.437 | VV | 5265 | 99066 | 1.73% | 0.316% |
| 240 | 16.487 | 16.437 | 16.551 | VV | 5779 | 363282 | 6.34% | 1.159% |
| 241 | 16.620 | 16.551 | 16.681 | VV | 5609 | 397855 | 6.94% | 1.270% |
| 242 | 16.748 | 16.681 | 16.791 | VV | 11216 | 436444 | 7.61% | 1.393% |
| 243 | 16.861 | 16.791 | 16.891 | VV | 5846 | 305654 | 5.33% | 0.976% |
| 244 | 16.901 | 16.891 | 16.920 | VV | 5163 | 88000 | 1.54% | 0.281% |
| 245 | 16.978 | 16.920 | 17.016 | VV | 7615 | 324527 | 5.66% | 1.036% |
| 246 | 17.071 | 17.016 | 17.108 | VV | 6573 | 281269 | 4.91% | 0.898% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 17.151 | 17.108 | 17.171 | VV | 5682 | 188531 | 3.29% | 0.602% |
| 248 | 17.199 | 17.171 | 17.247 | VV | 16763 | 368570 | 6.43% | 1.176% |
| 249 | 17.268 | 17.247 | 17.278 | VV | 4572 | 77021 | 1.34% | 0.246% |
| 250 | 17.305 | 17.278 | 17.334 | VV | 6186 | 176658 | 3.08% | 0.564% |
| 251 | 17.349 | 17.334 | 17.368 | VV | 4778 | 90920 | 1.59% | 0.290% |
| 252 | 17.395 | 17.368 | 17.441 | VV | 4692 | 186307 | 3.25% | 0.595% |
| 253 | 17.479 | 17.441 | 17.501 | VV | 4799 | 156972 | 2.74% | 0.501% |
| 254 | 17.524 | 17.501 | 17.550 | VV | 5236 | 129923 | 2.27% | 0.415% |
| 255 | 17.566 | 17.550 | 17.588 | VV | 4531 | 96759 | 1.69% | 0.309% |
| 256 | 17.634 | 17.588 | 17.661 | VV | 11470 | 279043 | 4.87% | 0.891% |
| 257 | 17.670 | 17.661 | 17.708 | VV | 4264 | 100727 | 1.76% | 0.321% |
| 258 | 17.768 | 17.708 | 17.848 | VV | 8422 | 401994 | 7.01% | 1.283% |
| 259 | 17.871 | 17.848 | 17.885 | VV | 3107 | 63203 | 1.10% | 0.202% |
| 260 | 17.921 | 17.885 | 18.031 | VV | 4520 | 314222 | 5.48% | 1.003% |
| 261 | 18.056 | 18.031 | 18.100 | VV | 12585 | 246970 | 4.31% | 0.788% |
| 262 | 18.134 | 18.100 | 18.234 | VV | 7181 | 269315 | 4.70% | 0.860% |
| 263 | 18.263 | 18.234 | 18.275 | VV | 2199 | 51428 | 0.90% | 0.164% |
| 264 | 18.294 | 18.275 | 18.341 | VV | 2878 | 102954 | 1.80% | 0.329% |
| 265 | 18.355 | 18.341 | 18.405 | VV | 2605 | 82143 | 1.43% | 0.262% |
| 266 | 18.427 | 18.405 | 18.443 | VV | 5409 | 92703 | 1.62% | 0.296% |
| 267 | 18.466 | 18.443 | 18.508 | VV | 7725 | 189830 | 3.31% | 0.606% |
| 268 | 18.533 | 18.508 | 18.581 | VV | 4512 | 146522 | 2.56% | 0.468% |
| 269 | 18.603 | 18.581 | 18.651 | VV | 3239 | 96735 | 1.69% | 0.309% |
| 270 | 18.660 | 18.651 | 18.678 | VV | 2078 | 29898 | 0.52% | 0.095% |
| 271 | 18.695 | 18.678 | 18.708 | VV | 1645 | 28742 | 0.50% | 0.092% |
| 272 | 18.727 | 18.708 | 18.744 | VV | 2237 | 42683 | 0.74% | 0.136% |
| 273 | 18.767 | 18.744 | 18.802 | VV | 3650 | 78273 | 1.37% | 0.250% |
| 274 | 18.819 | 18.802 | 18.831 | VV | 1697 | 26487 | 0.46% | 0.085% |
| 275 | 18.863 | 18.831 | 18.928 | VV | 7296 | 188729 | 3.29% | 0.602% |
| 276 | 18.953 | 18.928 | 18.998 | VV | 2040 | 60882 | 1.06% | 0.194% |
| 277 | 19.033 | 18.998 | 19.091 | VV | 4099 | 122708 | 2.14% | 0.392% |
| 278 | 19.108 | 19.091 | 19.131 | VV | 1532 | 29406 | 0.51% | 0.094% |
| 279 | 19.152 | 19.131 | 19.178 | VV | 1410 | 33729 | 0.59% | 0.108% |
| 280 | 19.202 | 19.178 | 19.211 | VV | 1205 | 21492 | 0.37% | 0.069% |
| 281 | 19.248 | 19.211 | 19.335 | VV | 7026 | 221065 | 3.86% | 0.706% |
| 282 | 19.359 | 19.335 | 19.419 | VV | 2449 | 96611 | 1.69% | 0.308% |
| 283 | 19.550 | 19.419 | 19.593 | VV | 6636 | 330534 | 5.77% | 1.055% |
| 284 | 19.623 | 19.593 | 19.645 | VV | 6025 | 130254 | 2.27% | 0.416% |
| 285 | 19.663 | 19.645 | 19.711 | VV | 4234 | 146198 | 2.55% | 0.467% |
| 286 | 19.814 | 19.711 | 19.958 | VV | 8675 | 787018 | 13.73% | 2.512% |
| 287 | 19.985 | 19.958 | 20.009 | VV | 6617 | 158207 | 2.76% | 0.505% |
| 288 | 20.041 | 20.009 | 20.103 | VV | 10471 | 341894 | 5.96% | 1.091% |
| 289 | 20.140 | 20.103 | 20.163 | VV | 4654 | 157162 | 2.74% | 0.502% |
| 290 | 20.176 | 20.163 | 20.195 | VV | 4849 | 89532 | 1.56% | 0.286% |
| 291 | 20.206 | 20.195 | 20.213 | VV | 4483 | 48258 | 0.84% | 0.154% |
| 292 | 20.238 | 20.213 | 20.278 | VV | 4746 | 176332 | 3.08% | 0.563% |
| 293 | 20.341 | 20.278 | 20.393 | VV | 6960 | 347478 | 6.06% | 1.109% |
| 294 | 20.512 | 20.393 | 20.556 | VV | 11632 | 587293 | 10.24% | 1.874% |
| 295 | 20.565 | 20.556 | 20.621 | VV | 4790 | 168683 | 2.94% | 0.538% |
| 296 | 20.646 | 20.621 | 20.661 | VV | 4301 | 98019 | 1.71% | 0.313% |
| 297 | 20.709 | 20.661 | 20.747 | VV | 6120 | 247691 | 4.32% | 0.791% |
| 298 | 20.787 | 20.747 | 20.798 | VV | 4085 | 118460 | 2.07% | 0.378% |
| 299 | 20.806 | 20.798 | 20.815 | VV | 3953 | 38666 | 0.67% | 0.123% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 20.854 | 20.815 | 20.995 | VV | 3965 | 394856 | 6.89% | 1.260% |
| 301 | 21.038 | 20.995 | 21.091 | VV | 10472 | 344652 | 6.01% | 1.100% |
| 302 | 21.122 | 21.091 | 21.148 | VV | 4080 | 120179 | 2.10% | 0.384% |
| 303 | 21.250 | 21.148 | 21.455 | VV | 4945 | 649011 | 11.32% | 2.071% |
| 304 | 21.465 | 21.455 | 21.473 | VV | 2113 | 21177 | 0.37% | 0.068% |
| 305 | 21.485 | 21.473 | 21.515 | VV | 2096 | 49325 | 0.86% | 0.157% |
| 306 | 21.523 | 21.515 | 21.533 | VV | 1988 | 21668 | 0.38% | 0.069% |
| 307 | 21.594 | 21.533 | 21.607 | VV | 3378 | 113151 | 1.97% | 0.361% |
| 308 | 21.654 | 21.607 | 21.718 | VV | 8423 | 302540 | 5.28% | 0.966% |
| 309 | 21.739 | 21.718 | 21.749 | VV | 1209 | 21220 | 0.37% | 0.068% |
| 310 | 21.775 | 21.749 | 21.794 | VV | 1147 | 24810 | 0.43% | 0.079% |
| 311 | 21.840 | 21.794 | 21.885 | VV | 836 | 36365 | 0.63% | 0.116% |
| 312 | 21.895 | 21.885 | 21.916 | VV | 711 | 10731 | 0.19% | 0.034% |
| 313 | 21.923 | 21.916 | 21.975 | VV | 580 | 10255 | 0.18% | 0.033% |
| | | | Sum of corrected areas: | | | 31331045 | | |

Aliphatic EPH 111424.M Tue Nov 19 10:53:50 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048772.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 00:53
Operator : YP/AJ
Sample : P4860-03
Misc :
ALS Vial : 73 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-002

Integration File: sample.E
Quant Time: Nov 19 05:56:55 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 | 8231045 | 46.752 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 93.50% |
| 6) S 2-Flurobiphenyl (SURR) | 8.216 | 4676660 | 40.607 ug/ml |
| Spiked Amount 50.000 Range | 0 - 131 | Recovery = | 81.21% |
| 11) S ortho-Terphenyl (SURR) | 11.253 | 7416251 | 38.559 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 77.12% |
| **Target Compounds** | | | |

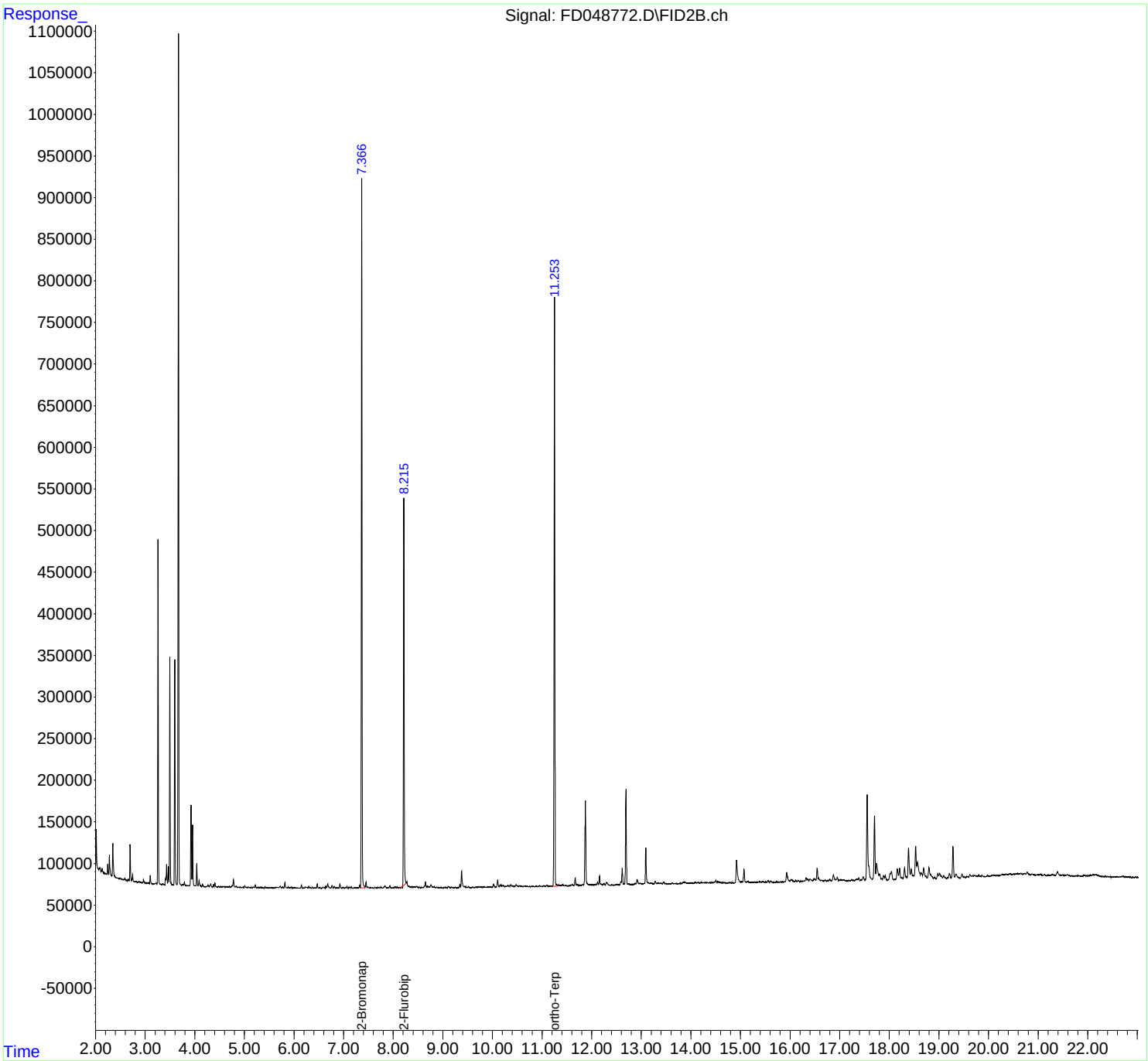
(f)=RT Delta > 1/2 Window (m)=manual int.

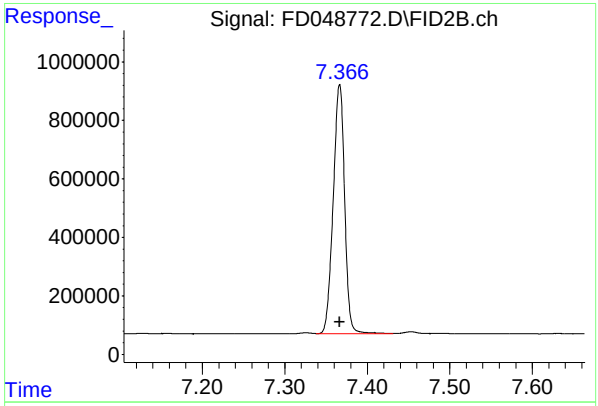
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048772.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 00:53
Operator : YP/AJ
Sample : P4860-03
Misc :
ALS Vial : 73 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-002

Integration File: sample.E
Quant Time: Nov 19 05:56:55 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

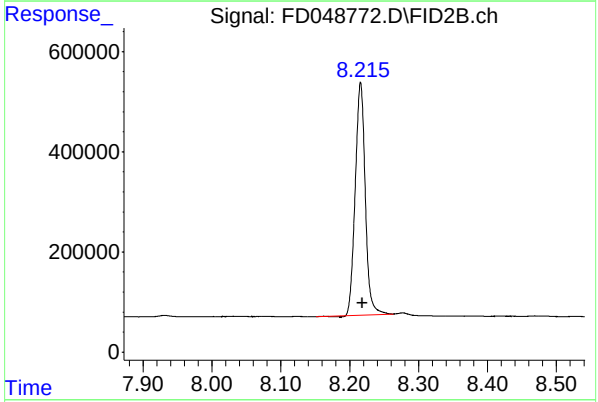





#4 2-Bromonaphthalene (SURR)

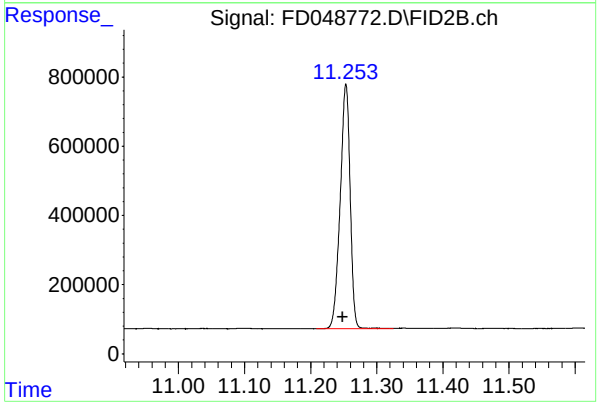
R.T.: 7.366 min
Delta R.T.: 0.000 min
Response: 8231045
Conc: 46.75 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-002




#6 2-Flurobiphenyl (SURR)

R.T.: 8.216 min
Delta R.T.: -0.003 min
Response: 4676660
Conc: 40.61 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.253 min
Delta R.T.: 0.005 min
Response: 7416251
Conc: 38.56 ug/ml

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048772.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 00:53
Sample : P4860-03
Misc :
ALS Vial : 73 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 | 4.158 | 4.142 | 4.208 | PV | 2928 | 31553 | 0.38% | 0.082% |
| 2 | 4.272 | 4.208 | 4.295 | PV | 1795 | 34289 | 0.42% | 0.089% |
| 3 | 4.322 | 4.295 | 4.344 | VV | 3646 | 51268 | 0.62% | 0.133% |
| 4 | 4.351 | 4.344 | 4.359 | VV | 461 | 3435 | 0.04% | 0.009% |
| 5 | 4.377 | 4.359 | 4.391 | VV | 3186 | 31766 | 0.38% | 0.082% |
| 6 | 4.408 | 4.391 | 4.463 | VV | 5064 | 62349 | 0.75% | 0.162% |
| 7 | 4.477 | 4.463 | 4.495 | VV | 1312 | 12373 | 0.15% | 0.032% |
| 8 | 4.498 | 4.495 | 4.509 | VV | 235 | 1941 | 0.02% | 0.005% |
| 9 | 4.522 | 4.509 | 4.535 | VV | 693 | 7406 | 0.09% | 0.019% |
| 10 | 4.544 | 4.535 | 4.548 | VV | 495 | 2689 | 0.03% | 0.007% |
| 11 | 4.567 | 4.548 | 4.579 | VV | 863 | 9732 | 0.12% | 0.025% |
| 12 | 4.593 | 4.579 | 4.612 | VV | 894 | 7680 | 0.09% | 0.020% |
| 13 | 4.629 | 4.612 | 4.681 | VV | 774 | 17996 | 0.22% | 0.047% |
| 14 | 4.703 | 4.681 | 4.709 | VV | 831 | 10355 | 0.13% | 0.027% |
| 15 | 4.712 | 4.709 | 4.717 | VV | 595 | 2235 | 0.03% | 0.006% |
| 16 | 4.723 | 4.717 | 4.732 | VV | 678 | 5532 | 0.07% | 0.014% |
| 17 | 4.757 | 4.732 | 4.765 | VV | 2638 | 31664 | 0.38% | 0.082% |
| 18 | 4.780 | 4.765 | 4.809 | VV | 9431 | 113236 | 1.37% | 0.294% |
| 19 | 4.815 | 4.809 | 4.822 | VV | 561 | 4266 | 0.05% | 0.011% |
| 20 | 4.837 | 4.822 | 4.857 | VV | 2014 | 21287 | 0.26% | 0.055% |
| 21 | 4.868 | 4.857 | 4.876 | VV | 397 | 2973 | 0.04% | 0.008% |
| 22 | 4.905 | 4.876 | 4.954 | VV | 542 | 13421 | 0.16% | 0.035% |
| 23 | 4.970 | 4.954 | 4.994 | PV | 658 | 7771 | 0.09% | 0.020% |
| 24 | 5.009 | 4.994 | 5.049 | VV | 1995 | 28386 | 0.34% | 0.074% |
| 25 | 5.068 | 5.049 | 5.073 | VV | 422 | 4312 | 0.05% | 0.011% |
| 26 | 5.077 | 5.073 | 5.095 | VV | 387 | 3694 | 0.04% | 0.010% |
| 27 | 5.099 | 5.095 | 5.112 | VV | 347 | 2237 | 0.03% | 0.006% |
| 28 | 5.147 | 5.112 | 5.168 | VV | 506 | 9531 | 0.12% | 0.025% |
| 29 | 5.181 | 5.168 | 5.202 | VV | 1229 | 14860 | 0.18% | 0.039% |
| 30 | 5.220 | 5.202 | 5.253 | VV | 3684 | 42091 | 0.51% | 0.109% |
| 31 | 5.277 | 5.253 | 5.304 | VV | 1098 | 17657 | 0.21% | 0.046% |
| 32 | 5.331 | 5.304 | 5.339 | VV | 629 | 9536 | 0.12% | 0.025% |
| 33 | 5.346 | 5.339 | 5.376 | VV | 554 | 8742 | 0.11% | 0.023% |
| 34 | 5.417 | 5.385 | 5.447 | VV | 745 | 14730 | 0.18% | 0.038% |
| 35 | 5.463 | 5.447 | 5.487 | VV | 568 | 9006 | 0.11% | 0.023% |
| 36 | 5.492 | 5.487 | 5.496 | VV | 225 | 1096 | 0.01% | 0.003% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.527 | 5.496 | 5.533 | VV | 444 | 6266 | 0.08% | 0.016% |
| 38 | 5.539 | 5.533 | 5.555 | VV | 585 | 4804 | 0.06% | 0.012% |
| 39 | 5.564 | 5.555 | 5.569 | VV | 274 | 1720 | 0.02% | 0.004% |
| 40 | 5.577 | 5.569 | 5.596 | VV | 309 | 3478 | 0.04% | 0.009% |
| 41 | 5.602 | 5.596 | 5.610 | VV | 345 | 1941 | 0.02% | 0.005% |
| 42 | 5.657 | 5.610 | 5.670 | VV | 1023 | 28123 | 0.34% | 0.073% |
| 43 | 5.675 | 5.670 | 5.690 | VV | 955 | 8551 | 0.10% | 0.022% |
| 44 | 5.696 | 5.690 | 5.703 | VV | 687 | 5006 | 0.06% | 0.013% |
| 45 | 5.721 | 5.703 | 5.754 | VV | 2362 | 38834 | 0.47% | 0.101% |
| 46 | 5.771 | 5.754 | 5.796 | VV | 1083 | 17816 | 0.22% | 0.046% |
| 47 | 5.817 | 5.796 | 5.867 | VV | 6999 | 85667 | 1.04% | 0.222% |
| 48 | 5.884 | 5.867 | 5.905 | VV | 1511 | 20777 | 0.25% | 0.054% |
| 49 | 5.944 | 5.905 | 5.974 | VV | 1062 | 25816 | 0.31% | 0.067% |
| 50 | 5.983 | 5.974 | 5.993 | VV | 416 | 3950 | 0.05% | 0.010% |
| 51 | 6.006 | 5.993 | 6.029 | VV | 695 | 9554 | 0.12% | 0.025% |
| 52 | 6.047 | 6.029 | 6.056 | VV | 434 | 4641 | 0.06% | 0.012% |
| 53 | 6.078 | 6.056 | 6.099 | VV | 408 | 7081 | 0.09% | 0.018% |
| 54 | 6.108 | 6.099 | 6.128 | VV | 503 | 4890 | 0.06% | 0.013% |
| 55 | 6.151 | 6.128 | 6.174 | PV | 4192 | 45202 | 0.55% | 0.117% |
| 56 | 6.187 | 6.174 | 6.214 | VV | 724 | 10673 | 0.13% | 0.028% |
| 57 | 6.235 | 6.214 | 6.254 | VV | 1694 | 25749 | 0.31% | 0.067% |
| 58 | 6.268 | 6.254 | 6.281 | VV | 1278 | 14837 | 0.18% | 0.039% |
| 59 | 6.299 | 6.281 | 6.319 | VV | 2752 | 29542 | 0.36% | 0.077% |
| 60 | 6.332 | 6.319 | 6.349 | VV | 860 | 9716 | 0.12% | 0.025% |
| 61 | 6.368 | 6.349 | 6.387 | PV | 1698 | 18019 | 0.22% | 0.047% |
| 62 | 6.399 | 6.387 | 6.415 | VV | 412 | 5982 | 0.07% | 0.016% |
| 63 | 6.420 | 6.415 | 6.438 | VV | 475 | 4153 | 0.05% | 0.011% |
| 64 | 6.469 | 6.438 | 6.495 | VV | 5313 | 57535 | 0.70% | 0.149% |
| 65 | 6.517 | 6.495 | 6.555 | VV | 828 | 16228 | 0.20% | 0.042% |
| 66 | 6.587 | 6.555 | 6.625 | VV | 1585 | 27561 | 0.33% | 0.072% |
| 67 | 6.640 | 6.625 | 6.656 | VV | 2032 | 25085 | 0.30% | 0.065% |
| 68 | 6.681 | 6.656 | 6.732 | VV | 5289 | 92873 | 1.12% | 0.241% |
| 69 | 6.767 | 6.732 | 6.792 | VV | 3561 | 51827 | 0.63% | 0.135% |
| 70 | 6.811 | 6.792 | 6.834 | VV | 2453 | 32598 | 0.39% | 0.085% |
| 71 | 6.839 | 6.834 | 6.859 | VV | 658 | 7895 | 0.10% | 0.021% |
| 72 | 6.873 | 6.859 | 6.889 | VV | 859 | 9881 | 0.12% | 0.026% |
| 73 | 6.927 | 6.889 | 6.961 | VV | 5170 | 64342 | 0.78% | 0.167% |
| 74 | 6.986 | 6.961 | 7.000 | VV | 952 | 12208 | 0.15% | 0.032% |
| 75 | 7.003 | 7.000 | 7.019 | VV | 706 | 4571 | 0.06% | 0.012% |
| 76 | 7.035 | 7.019 | 7.045 | VV | 1220 | 10481 | 0.13% | 0.027% |
| 77 | 7.068 | 7.045 | 7.089 | VV | 1720 | 24856 | 0.30% | 0.065% |
| 78 | 7.127 | 7.089 | 7.143 | VV | 1670 | 29699 | 0.36% | 0.077% |
| 79 | 7.158 | 7.143 | 7.177 | VV | 1400 | 17316 | 0.21% | 0.045% |
| 80 | 7.183 | 7.177 | 7.191 | VV | 289 | 1739 | 0.02% | 0.005% |
| 81 | 7.235 | 7.191 | 7.251 | VV | 909 | 19101 | 0.23% | 0.050% |
| 82 | 7.265 | 7.251 | 7.270 | VV | 547 | 5646 | 0.07% | 0.015% |
| 83 | 7.277 | 7.270 | 7.306 | VV | 558 | 8750 | 0.11% | 0.023% |
| 84 | 7.326 | 7.306 | 7.340 | VV | 3767 | 40645 | 0.49% | 0.106% |
| 85 | 7.367 | 7.340 | 7.430 | VV | 854734 | 8259041 | 100.00% | 21.447% |
| 86 | 7.453 | 7.430 | 7.476 | VV | 7443 | 95796 | 1.16% | 0.249% |
| 87 | 7.490 | 7.476 | 7.519 | VV | 1521 | 29348 | 0.36% | 0.076% |
| 88 | 7.523 | 7.519 | 7.542 | VV | 702 | 7841 | 0.09% | 0.020% |
| 89 | 7.549 | 7.542 | 7.570 | VV | 696 | 10049 | 0.12% | 0.026% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.575 | 7.570 | 7.609 | VV | 759 | 12016 | 0.15% | 0.031% |
| 91 | 7.631 | 7.609 | 7.674 | PV | 1352 | 22325 | 0.27% | 0.058% |
| 92 | 7.704 | 7.674 | 7.739 | VV | 971 | 27633 | 0.33% | 0.072% |
| 93 | 7.756 | 7.739 | 7.781 | VV | 1409 | 19380 | 0.23% | 0.050% |
| 94 | 7.834 | 7.781 | 7.868 | VV | 3224 | 68373 | 0.83% | 0.178% |
| 95 | 7.880 | 7.868 | 7.894 | VV | 473 | 5846 | 0.07% | 0.015% |
| 96 | 7.932 | 7.894 | 7.989 | VV | 3132 | 54014 | 0.65% | 0.140% |
| 97 | 8.031 | 7.989 | 8.036 | VV | 1315 | 21469 | 0.26% | 0.056% |
| 98 | 8.041 | 8.036 | 8.057 | VV | 1208 | 12643 | 0.15% | 0.033% |
| 99 | 8.080 | 8.057 | 8.100 | VV | 1193 | 21521 | 0.26% | 0.056% |
| 100 | 8.106 | 8.100 | 8.112 | VV | 465 | 2983 | 0.04% | 0.008% |
| 101 | 8.122 | 8.112 | 8.144 | VV | 944 | 13073 | 0.16% | 0.034% |
| 102 | 8.161 | 8.144 | 8.187 | VV | 1313 | 16432 | 0.20% | 0.043% |
| 103 | 8.216 | 8.187 | 8.263 | VV | 468793 | 4879563 | 59.08% | 12.671% |
| 104 | 8.277 | 8.263 | 8.347 | VV | 8159 | 179647 | 2.18% | 0.467% |
| 105 | 8.354 | 8.347 | 8.370 | VV | 1883 | 22296 | 0.27% | 0.058% |
| 106 | 8.387 | 8.370 | 8.400 | VV | 1756 | 27370 | 0.33% | 0.071% |
| 107 | 8.418 | 8.400 | 8.429 | VV | 1639 | 24940 | 0.30% | 0.065% |
| 108 | 8.435 | 8.429 | 8.452 | VV | 1421 | 16614 | 0.20% | 0.043% |
| 109 | 8.471 | 8.452 | 8.508 | VV | 1861 | 45198 | 0.55% | 0.117% |
| 110 | 8.530 | 8.508 | 8.549 | VV | 1074 | 16997 | 0.21% | 0.044% |
| 111 | 8.582 | 8.549 | 8.602 | VV | 1049 | 23330 | 0.28% | 0.061% |
| 112 | 8.651 | 8.602 | 8.670 | VV | 7347 | 119008 | 1.44% | 0.309% |
| 113 | 8.686 | 8.670 | 8.699 | VV | 2157 | 28471 | 0.34% | 0.074% |
| 114 | 8.713 | 8.699 | 8.734 | VV | 1986 | 32438 | 0.39% | 0.084% |
| 115 | 8.762 | 8.734 | 8.796 | VV | 4123 | 83332 | 1.01% | 0.216% |
| 116 | 8.802 | 8.796 | 8.821 | VV | 1308 | 18048 | 0.22% | 0.047% |
| 117 | 8.833 | 8.821 | 8.852 | VV | 1562 | 19098 | 0.23% | 0.050% |
| 118 | 8.882 | 8.852 | 8.918 | VV | 983 | 23121 | 0.28% | 0.060% |
| 119 | 8.941 | 8.918 | 8.950 | VV | 571 | 8646 | 0.10% | 0.022% |
| 120 | 8.964 | 8.950 | 8.998 | VV | 812 | 13221 | 0.16% | 0.034% |
| 121 | 9.028 | 8.998 | 9.040 | PV | 1013 | 12258 | 0.15% | 0.032% |
| 122 | 9.049 | 9.040 | 9.072 | VV | 967 | 11598 | 0.14% | 0.030% |
| 123 | 9.078 | 9.072 | 9.090 | VV | 412 | 3175 | 0.04% | 0.008% |
| 124 | 9.111 | 9.090 | 9.159 | VV | 1891 | 35198 | 0.43% | 0.091% |
| 125 | 9.180 | 9.159 | 9.200 | VV | 780 | 12594 | 0.15% | 0.033% |
| 126 | 9.215 | 9.200 | 9.224 | VV | 499 | 5035 | 0.06% | 0.013% |
| 127 | 9.227 | 9.224 | 9.231 | VV | 498 | 1710 | 0.02% | 0.004% |
| 128 | 9.248 | 9.231 | 9.271 | VV | 858 | 10587 | 0.13% | 0.027% |
| 129 | 9.281 | 9.271 | 9.285 | PV | 189 | 1173 | 0.01% | 0.003% |
| 130 | 9.306 | 9.285 | 9.324 | VV | 652 | 9119 | 0.11% | 0.024% |
| 131 | 9.346 | 9.324 | 9.362 | VV | 4323 | 49906 | 0.60% | 0.130% |
| 132 | 9.380 | 9.362 | 9.427 | VV | 19928 | 275920 | 3.34% | 0.717% |
| 133 | 9.435 | 9.427 | 9.450 | VV | 1565 | 19690 | 0.24% | 0.051% |
| 134 | 9.454 | 9.450 | 9.490 | VV | 1222 | 21021 | 0.25% | 0.055% |
| 135 | 9.495 | 9.490 | 9.500 | VV | 542 | 3280 | 0.04% | 0.009% |
| 136 | 9.521 | 9.500 | 9.546 | VV | 1655 | 22845 | 0.28% | 0.059% |
| 137 | 9.598 | 9.566 | 9.610 | VV | 550 | 9651 | 0.12% | 0.025% |
| 138 | 9.614 | 9.610 | 9.644 | VV | 580 | 6225 | 0.08% | 0.016% |
| 139 | 9.670 | 9.644 | 9.682 | VV | 677 | 10405 | 0.13% | 0.027% |
| 140 | 9.687 | 9.682 | 9.706 | VV | 563 | 5355 | 0.06% | 0.014% |
| 141 | 9.724 | 9.706 | 9.745 | PV | 1655 | 19473 | 0.24% | 0.051% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.757 | 9.745 | 9.774 | VV | 966 | 12008 | 0.15% | 0.031% |
| 143 | 9.780 | 9.774 | 9.808 | VV | 661 | 9588 | 0.12% | 0.025% |
| 144 | 9.840 | 9.808 | 9.861 | VV | 937 | 16663 | 0.20% | 0.043% |
| 145 | 9.886 | 9.861 | 9.895 | VV | 712 | 9052 | 0.11% | 0.024% |
| 146 | 9.898 | 9.895 | 9.902 | VV | 590 | 2046 | 0.02% | 0.005% |
| 147 | 9.912 | 9.902 | 9.931 | VV | 728 | 9993 | 0.12% | 0.026% |
| 148 | 9.944 | 9.931 | 9.972 | VV | 982 | 15431 | 0.19% | 0.040% |
| 149 | 9.982 | 9.972 | 9.987 | VV | 818 | 5666 | 0.07% | 0.015% |
| 150 | 9.993 | 9.987 | 10.002 | VV | 683 | 5263 | 0.06% | 0.014% |
| 151 | 10.024 | 10.002 | 10.074 | VV | 3899 | 62934 | 0.76% | 0.163% |
| 152 | 10.107 | 10.074 | 10.138 | PV | 9008 | 124192 | 1.50% | 0.322% |
| 153 | 10.158 | 10.138 | 10.173 | VV | 3381 | 44497 | 0.54% | 0.116% |
| 154 | 10.185 | 10.173 | 10.198 | VV | 2306 | 27355 | 0.33% | 0.071% |
| 155 | 10.211 | 10.198 | 10.244 | VV | 2438 | 52027 | 0.63% | 0.135% |
| 156 | 10.256 | 10.244 | 10.278 | VV | 1128 | 20041 | 0.24% | 0.052% |
| 157 | 10.289 | 10.278 | 10.296 | VV | 1418 | 12685 | 0.15% | 0.033% |
| 158 | 10.312 | 10.296 | 10.335 | VV | 2363 | 39999 | 0.48% | 0.104% |
| 159 | 10.348 | 10.335 | 10.359 | VV | 1991 | 24712 | 0.30% | 0.064% |
| 160 | 10.374 | 10.359 | 10.399 | VV | 3079 | 51182 | 0.62% | 0.133% |
| 161 | 10.413 | 10.399 | 10.435 | VV | 1940 | 27784 | 0.34% | 0.072% |
| 162 | 10.475 | 10.435 | 10.494 | VV | 2730 | 56444 | 0.68% | 0.147% |
| 163 | 10.501 | 10.494 | 10.523 | VV | 1655 | 20820 | 0.25% | 0.054% |
| 164 | 10.541 | 10.523 | 10.602 | VV | 1603 | 50334 | 0.61% | 0.131% |
| 165 | 10.631 | 10.602 | 10.637 | VV | 824 | 13591 | 0.16% | 0.035% |
| 166 | 10.648 | 10.637 | 10.654 | VV | 1055 | 8737 | 0.11% | 0.023% |
| 167 | 10.674 | 10.654 | 10.698 | VV | 1384 | 25150 | 0.30% | 0.065% |
| 168 | 10.704 | 10.698 | 10.727 | VV | 711 | 7704 | 0.09% | 0.020% |
| 169 | 10.751 | 10.727 | 10.775 | VV | 499 | 9389 | 0.11% | 0.024% |
| 170 | 10.806 | 10.775 | 10.822 | PV | 480 | 9615 | 0.12% | 0.025% |
| 171 | 10.829 | 10.822 | 10.849 | VV | 405 | 3447 | 0.04% | 0.009% |
| 172 | 10.887 | 10.849 | 10.910 | VV | 1012 | 15440 | 0.19% | 0.040% |
| 173 | 10.925 | 10.910 | 10.936 | VV | 604 | 6435 | 0.08% | 0.017% |
| 174 | 10.953 | 10.936 | 10.970 | VV | 1616 | 18359 | 0.22% | 0.048% |
| 175 | 10.977 | 10.970 | 10.996 | VV | 513 | 5238 | 0.06% | 0.014% |
| 176 | 11.003 | 10.996 | 11.012 | VV | 355 | 2773 | 0.03% | 0.007% |
| 177 | 11.037 | 11.012 | 11.075 | VV | 1158 | 23784 | 0.29% | 0.062% |
| 178 | 11.099 | 11.075 | 11.127 | VV | 1864 | 27235 | 0.33% | 0.071% |
| 179 | 11.144 | 11.127 | 11.162 | VV | 811 | 9280 | 0.11% | 0.024% |
| 180 | 11.194 | 11.162 | 11.207 | VV | 731 | 10422 | 0.13% | 0.027% |
| 181 | 11.253 | 11.207 | 11.290 | VV | 707732 | 7396770 | 89.56% | 19.208% |
| 182 | 11.297 | 11.290 | 11.325 | VV | 1937 | 31310 | 0.38% | 0.081% |
| 183 | 11.342 | 11.325 | 11.359 | VV | 1733 | 27351 | 0.33% | 0.071% |
| 184 | 11.376 | 11.359 | 11.389 | VV | 1190 | 18368 | 0.22% | 0.048% |
| 185 | 11.420 | 11.389 | 11.455 | VV | 2115 | 48509 | 0.59% | 0.126% |
| 186 | 11.470 | 11.455 | 11.494 | VV | 942 | 16947 | 0.21% | 0.044% |
| 187 | 11.502 | 11.494 | 11.530 | VV | 722 | 10606 | 0.13% | 0.028% |
| 188 | 11.547 | 11.530 | 11.565 | VV | 622 | 10833 | 0.13% | 0.028% |
| 189 | 11.586 | 11.565 | 11.592 | VV | 1209 | 16322 | 0.20% | 0.042% |
| 190 | 11.605 | 11.592 | 11.624 | VV | 1812 | 27089 | 0.33% | 0.070% |
| 191 | 11.633 | 11.624 | 11.647 | VV | 1265 | 14912 | 0.18% | 0.039% |
| 192 | 11.671 | 11.647 | 11.693 | VV | 9536 | 122113 | 1.48% | 0.317% |
| 193 | 11.703 | 11.693 | 11.737 | VV | 2153 | 37104 | 0.45% | 0.096% |
| 194 | 11.748 | 11.737 | 11.772 | VV | 973 | 17775 | 0.22% | 0.046% |

rteres

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|---|---|---|---|---|---|---|---|---|
| 195 | 11.780 | 11.772 | 11.790 | VV | 854 | 8286 | 0.10% | 0.022% |
| 196 | 11.831 | 11.790 | 11.844 | VV | 2274 | 45875 | 0.56% | 0.119% |
| 197 | 11.875 | 11.844 | 11.931 | VV | 102191 | 1263137 | 15.29% | 3.280% |
| 198 | 11.935 | 11.931 | 11.984 | VV | 1623 | 43060 | 0.52% | 0.112% |
| 199 | 11.993 | 11.984 | 12.010 | VV | 1314 | 17934 | 0.22% | 0.047% |
| 200 | 12.023 | 12.010 | 12.055 | VV | 1302 | 29500 | 0.36% | 0.077% |
| 201 | 12.089 | 12.055 | 12.100 | VV | 1643 | 36639 | 0.44% | 0.095% |
| 202 | 12.121 | 12.100 | 12.140 | VV | 5184 | 71212 | 0.86% | 0.185% |
| 203 | 12.160 | 12.140 | 12.184 | VV | 11326 | 142698 | 1.73% | 0.371% |
| 204 | 12.188 | 12.184 | 12.214 | VV | 1999 | 26128 | 0.32% | 0.068% |
| 205 | 12.231 | 12.214 | 12.237 | VV | 1839 | 18797 | 0.23% | 0.049% |
| 206 | 12.253 | 12.237 | 12.275 | VV | 2511 | 36054 | 0.44% | 0.094% |
| 207 | 12.299 | 12.275 | 12.387 | VV | 3809 | 102498 | 1.24% | 0.266% |
| 208 | 12.394 | 12.387 | 12.403 | VV | 663 | 4969 | 0.06% | 0.013% |
| 209 | 12.409 | 12.403 | 12.449 | VV | 554 | 11868 | 0.14% | 0.031% |
| 210 | 12.481 | 12.449 | 12.490 | VV | 827 | 13499 | 0.16% | 0.035% |
| 211 | 12.506 | 12.490 | 12.520 | VV | 1207 | 19367 | 0.23% | 0.050% |
| 212 | 12.527 | 12.520 | 12.567 | VV | 1070 | 20985 | 0.25% | 0.054% |
| 213 | 12.588 | 12.567 | 12.597 | VV | 4188 | 46278 | 0.56% | 0.120% |
| 214 | 12.617 | 12.597 | 12.643 | VV | 20163 | 251061 | 3.04% | 0.652% |
| 215 | 12.692 | 12.643 | 12.726 | VV | 115586 | 1387031 | 16.79% | 3.602% |
| 216 | 12.737 | 12.726 | 12.749 | VV | 1347 | 16456 | 0.20% | 0.043% |
| 217 | 12.753 | 12.749 | 12.794 | VV | 1334 | 25840 | 0.31% | 0.067% |
| 218 | 12.798 | 12.794 | 12.825 | VV | 797 | 11663 | 0.14% | 0.030% |
| 219 | 12.880 | 12.825 | 12.893 | VV | 1866 | 47220 | 0.57% | 0.123% |
| 220 | 12.917 | 12.893 | 12.959 | VV | 6370 | 128966 | 1.56% | 0.335% |
| 221 | 12.981 | 12.959 | 13.036 | VV | 2241 | 70555 | 0.85% | 0.183% |
| 222 | 13.093 | 13.036 | 13.166 | VV | 44543 | 651658 | 7.89% | 1.692% |
| 223 | 13.171 | 13.166 | 13.178 | VV | 1679 | 11050 | 0.13% | 0.029% |
| 224 | 13.194 | 13.178 | 13.211 | VV | 1914 | 34095 | 0.41% | 0.089% |
| 225 | 13.218 | 13.211 | 13.236 | VV | 1713 | 20201 | 0.24% | 0.052% |
| 226 | 13.241 | 13.236 | 13.260 | VV | 1262 | 17647 | 0.21% | 0.046% |
| 227 | 13.282 | 13.260 | 13.309 | VV | 4339 | 74843 | 0.91% | 0.194% |
| 228 | 13.327 | 13.309 | 13.336 | VV | 1621 | 23881 | 0.29% | 0.062% |
| 229 | 13.358 | 13.336 | 13.364 | VV | 1656 | 25944 | 0.31% | 0.067% |
| 230 | 13.368 | 13.364 | 13.375 | VV | 1485 | 8570 | 0.10% | 0.022% |
| 231 | 13.395 | 13.375 | 13.418 | VV | 1797 | 35493 | 0.43% | 0.092% |
| 232 | 13.448 | 13.418 | 13.518 | VV | 2920 | 87291 | 1.06% | 0.227% |
| 233 | 13.552 | 13.518 | 13.559 | VV | 774 | 16739 | 0.20% | 0.043% |
| 234 | 13.578 | 13.559 | 13.594 | VV | 865 | 14250 | 0.17% | 0.037% |
| 235 | 13.626 | 13.594 | 13.655 | VV | 1813 | 40439 | 0.49% | 0.105% |
| 236 | 13.663 | 13.655 | 13.669 | VV | 874 | 6826 | 0.08% | 0.018% |
| 237 | 13.695 | 13.669 | 13.738 | VV | 963 | 29426 | 0.36% | 0.076% |
| 238 | 13.743 | 13.738 | 13.754 | VV | 736 | 5259 | 0.06% | 0.014% |
| 239 | 13.777 | 13.754 | 13.814 | VV | 1201 | 33666 | 0.41% | 0.087% |
| 240 | 13.843 | 13.814 | 13.855 | VV | 2258 | 38800 | 0.47% | 0.101% |
| 241 | 13.876 | 13.855 | 13.893 | VV | 2421 | 46995 | 0.57% | 0.122% |
| 242 | 13.902 | 13.893 | 13.912 | VV | 1780 | 18184 | 0.22% | 0.047% |
| 243 | 13.918 | 13.912 | 13.941 | VV | 1638 | 21719 | 0.26% | 0.056% |
| 244 | 13.957 | 13.941 | 13.962 | VV | 1171 | 13157 | 0.16% | 0.034% |
| 245 | 13.980 | 13.962 | 13.990 | VV | 1312 | 19176 | 0.23% | 0.050% |
| 246 | 14.004 | 13.990 | 14.021 | VV | 1491 | 24030 | 0.29% | 0.062% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 14.032 | 14.021 | 14.051 | VV | 1350 | 19063 | 0.23% | 0.050% |
| 248 | 14.070 | 14.051 | 14.074 | VV | 1539 | 15529 | 0.19% | 0.040% |
| 249 | 14.095 | 14.074 | 14.122 | VV | 2119 | 47822 | 0.58% | 0.124% |
| 250 | 14.152 | 14.122 | 14.175 | VV | 1883 | 45216 | 0.55% | 0.117% |
| 251 | 14.184 | 14.175 | 14.192 | VV | 1244 | 11273 | 0.14% | 0.029% |
| 252 | 14.217 | 14.192 | 14.252 | VV | 1772 | 49977 | 0.61% | 0.130% |
| 253 | 14.259 | 14.252 | 14.265 | VV | 1405 | 9783 | 0.12% | 0.025% |
| 254 | 14.308 | 14.265 | 14.335 | VV | 1762 | 58371 | 0.71% | 0.152% |
| 255 | 14.355 | 14.335 | 14.364 | VV | 1270 | 18102 | 0.22% | 0.047% |
| 256 | 14.402 | 14.364 | 14.429 | VV | 1394 | 44323 | 0.54% | 0.115% |
| 257 | 14.436 | 14.429 | 14.455 | VV | 1408 | 19319 | 0.23% | 0.050% |
| 258 | 14.471 | 14.455 | 14.482 | VV | 1875 | 24901 | 0.30% | 0.065% |
| 259 | 14.504 | 14.482 | 14.529 | VV | 3693 | 70813 | 0.86% | 0.184% |
| 260 | 14.542 | 14.529 | 14.570 | VV | 2739 | 47303 | 0.57% | 0.123% |
| 261 | 14.584 | 14.570 | 14.614 | VV | 1707 | 32829 | 0.40% | 0.085% |
| 262 | 14.622 | 14.614 | 14.631 | VV | 1069 | 10053 | 0.12% | 0.026% |
| 263 | 14.642 | 14.631 | 14.665 | VV | 1386 | 22135 | 0.27% | 0.057% |
| 264 | 14.672 | 14.665 | 14.701 | VV | 1018 | 17162 | 0.21% | 0.045% |
| 265 | 14.715 | 14.701 | 14.732 | VV | 721 | 12227 | 0.15% | 0.032% |
| 266 | 14.737 | 14.732 | 14.744 | VV | 722 | 4055 | 0.05% | 0.011% |
| 267 | 14.759 | 14.744 | 14.765 | VV | 895 | 8645 | 0.10% | 0.022% |
| 268 | 14.770 | 14.765 | 14.777 | VV | 859 | 5962 | 0.07% | 0.015% |
| 269 | 14.790 | 14.777 | 14.805 | VV | 1028 | 14707 | 0.18% | 0.038% |
| 270 | 14.810 | 14.805 | 14.836 | VV | 860 | 13656 | 0.17% | 0.035% |
| 271 | 14.841 | 14.836 | 14.858 | VV | 814 | 7660 | 0.09% | 0.020% |
| 272 | 14.919 | 14.858 | 15.002 | VV | 28108 | 582954 | 7.06% | 1.514% |
| 273 | 15.022 | 15.002 | 15.039 | VV | 1790 | 35122 | 0.43% | 0.091% |
| 274 | 15.071 | 15.039 | 15.097 | VV | 16485 | 234263 | 2.84% | 0.608% |
| 275 | 15.106 | 15.097 | 15.122 | VV | 1400 | 18332 | 0.22% | 0.048% |
| 276 | 15.152 | 15.122 | 15.172 | VV | 2276 | 48267 | 0.58% | 0.125% |
| 277 | 15.186 | 15.172 | 15.205 | VV | 1111 | 19468 | 0.24% | 0.051% |
| 278 | 15.217 | 15.205 | 15.223 | VV | 749 | 7911 | 0.10% | 0.021% |
| 279 | 15.248 | 15.223 | 15.262 | VV | 982 | 20690 | 0.25% | 0.054% |
| 280 | 15.279 | 15.262 | 15.307 | VV | 1239 | 29285 | 0.35% | 0.076% |
| 281 | 15.317 | 15.307 | 15.331 | VV | 871 | 11308 | 0.14% | 0.029% |
| 282 | 15.361 | 15.331 | 15.368 | VV | 1031 | 17989 | 0.22% | 0.047% |
| 283 | 15.387 | 15.368 | 15.418 | VV | 1432 | 32327 | 0.39% | 0.084% |
| 284 | 15.439 | 15.418 | 15.485 | VV | 1723 | 47829 | 0.58% | 0.124% |
| 285 | 15.488 | 15.485 | 15.500 | VV | 718 | 5780 | 0.07% | 0.015% |
| 286 | 15.516 | 15.500 | 15.537 | VV | 1207 | 21803 | 0.26% | 0.057% |
| 287 | 15.559 | 15.537 | 15.582 | VV | 2504 | 41525 | 0.50% | 0.108% |
| 288 | 15.616 | 15.582 | 15.664 | VV | 1896 | 40255 | 0.49% | 0.105% |
| 289 | 15.671 | 15.664 | 15.685 | VV | 390 | 2616 | 0.03% | 0.007% |
| 290 | 15.727 | 15.685 | 15.766 | PV | 1164 | 26945 | 0.33% | 0.070% |
| 291 | 15.785 | 15.766 | 15.806 | VV | 598 | 10562 | 0.13% | 0.027% |
| 292 | 15.843 | 15.806 | 15.858 | VV | 650 | 17119 | 0.21% | 0.044% |
| 293 | 15.870 | 15.858 | 15.887 | VV | 898 | 11667 | 0.14% | 0.030% |
| 294 | 15.930 | 15.887 | 15.999 | VV | 11803 | 270396 | 3.27% | 0.702% |
| 295 | 16.016 | 15.999 | 16.087 | VV | 3410 | 103610 | 1.25% | 0.269% |
| 296 | 16.112 | 16.087 | 16.139 | VV | 2397 | 42100 | 0.51% | 0.109% |
| 297 | 16.165 | 16.139 | 16.192 | VV | 2072 | 41851 | 0.51% | 0.109% |
| 298 | 16.200 | 16.192 | 16.212 | VV | 905 | 10541 | 0.13% | 0.027% |
| 299 | 16.229 | 16.212 | 16.245 | VV | 1411 | 20143 | 0.24% | 0.052% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 16.261 | 16.245 | 16.270 | VV | 1173 | 15097 | 0.18% | 0.039% |
| 301 | 16.281 | 16.270 | 16.295 | VV | 1354 | 18454 | 0.22% | 0.048% |
| 302 | 16.323 | 16.295 | 16.344 | VV | 5088 | 92177 | 1.12% | 0.239% |
| 303 | 16.356 | 16.344 | 16.377 | VV | 3563 | 49375 | 0.60% | 0.128% |
| 304 | 16.404 | 16.377 | 16.452 | VV | 3520 | 103682 | 1.26% | 0.269% |
| 305 | 16.501 | 16.452 | 16.519 | VV | 3615 | 104940 | 1.27% | 0.273% |
| 306 | 16.544 | 16.519 | 16.619 | VV | 16094 | 314205 | 3.80% | 0.816% |
| 307 | 16.635 | 16.619 | 16.679 | VV | 1510 | 39079 | 0.47% | 0.101% |
| 308 | 16.705 | 16.679 | 16.737 | VV | 1717 | 38788 | 0.47% | 0.101% |
| 309 | 16.752 | 16.737 | 16.763 | VV | 1074 | 14076 | 0.17% | 0.037% |
| 310 | 16.797 | 16.763 | 16.839 | VV | 2149 | 63060 | 0.76% | 0.164% |
| 311 | 16.872 | 16.839 | 16.927 | VV | 7047 | 186833 | 2.26% | 0.485% |
| 312 | 16.950 | 16.927 | 17.002 | VV | 4694 | 102810 | 1.24% | 0.267% |
| 313 | 17.024 | 17.002 | 17.045 | VV | 1621 | 35215 | 0.43% | 0.091% |
| 314 | 17.085 | 17.045 | 17.124 | VV | 1605 | 52357 | 0.63% | 0.136% |
| 315 | 17.129 | 17.124 | 17.147 | VV | 631 | 6515 | 0.08% | 0.017% |
| 316 | 17.184 | 17.147 | 17.216 | VV | 669 | 18337 | 0.22% | 0.048% |
| 317 | 17.243 | 17.216 | 17.262 | PV | 1450 | 22767 | 0.28% | 0.059% |
| 318 | 17.274 | 17.262 | 17.294 | VV | 805 | 11308 | 0.14% | 0.029% |
| 319 | 17.357 | 17.294 | 17.370 | VV | 2129 | 65006 | 0.79% | 0.169% |
| 320 | 17.385 | 17.370 | 17.409 | VV | 3423 | 49952 | 0.60% | 0.130% |
| 321 | 17.473 | 17.409 | 17.504 | VV | 4863 | 108229 | 1.31% | 0.281% |
| 322 | 17.553 | 17.504 | 17.653 | VV | 102827 | 1860033 | 22.52% | 4.830% |
| 323 | 17.701 | 17.653 | 17.725 | VV | 77059 | 1086447 | 13.15% | 2.821% |
| 324 | 17.743 | 17.725 | 17.791 | VV | 20737 | 503598 | 6.10% | 1.308% |
| 325 | 17.805 | 17.791 | 17.837 | VV | 7497 | 135624 | 1.64% | 0.352% |
| 326 | 17.846 | 17.837 | 17.864 | VV | 1957 | 27111 | 0.33% | 0.070% |
| 327 | 17.884 | 17.864 | 17.902 | VV | 5688 | 86267 | 1.04% | 0.224% |
| 328 | 17.918 | 17.902 | 17.967 | VV | 5167 | 82096 | 0.99% | 0.213% |
| 329 | 18.042 | 17.967 | 18.103 | PV | 10068 | 300931 | 3.64% | 0.781% |
| 330 | 18.162 | 18.103 | 18.186 | PV | 9308 | 117169 | 1.42% | 0.304% |

Sum of corrected areas: 38509378

Aromatic EPH 111424.M Tue Nov 19 06:21:47 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067814.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 02:45
Operator : YP/AJ
Sample : P4860-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-003

Integration File: sample.E
Quant Time: Nov 19 10:46:54 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... | 12.930 | 4193020 | 28.885 ug/ml |
| Spiked Amount 50.000 | | Recovery = 57.77% | |
| Target Compounds | | | |

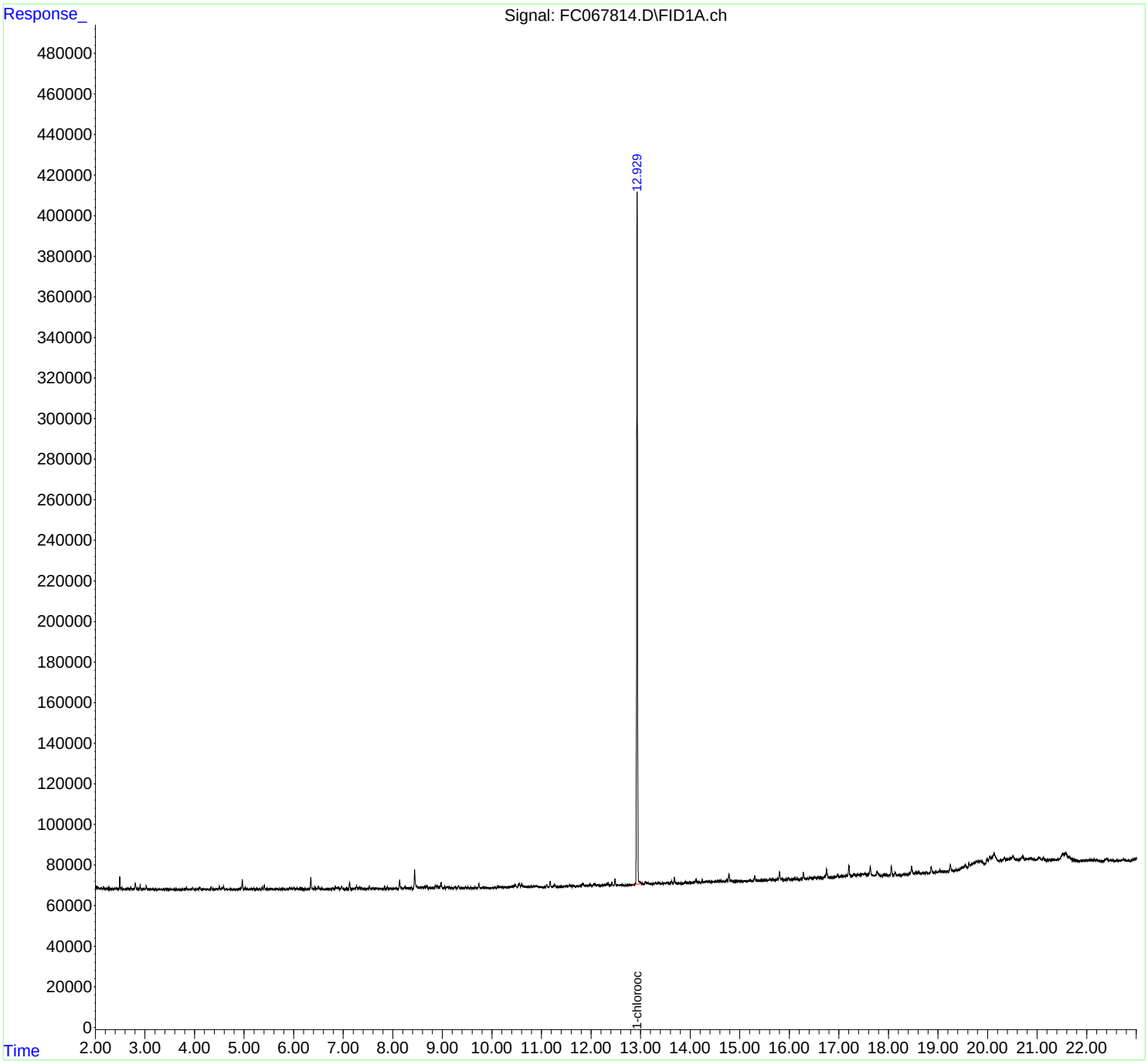
(f)=RT Delta > 1/2 Window (m)=manual int.

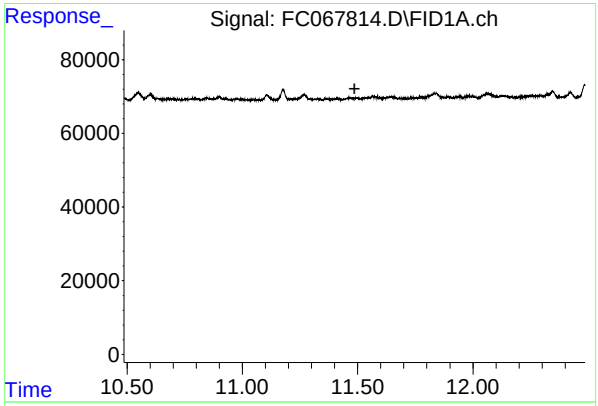
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067814.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 02:45
Operator : YP/AJ
Sample : P4860-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-003

Integration File: sample.E
Quant Time: Nov 19 10:46:54 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

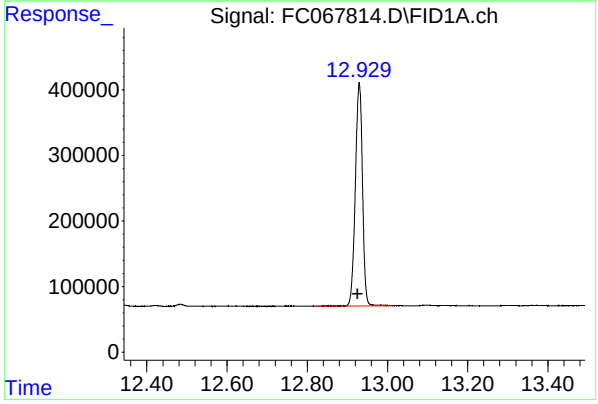





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-003




#12 1-chlorooctadecane (SURR)

R.T.: 12.930 min
Delta R.T.: 0.004 min
Response: 4193020
Conc: 28.89 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067814.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 02:45
Sample : P4860-04
Misc :
ALS Vial : 24 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 | 3.249 | 3.225 | 3.255 | BV | 58 | 66 | 0.00% | 0.000% |
| 2 | 3.273 | 3.255 | 3.348 | PV | 311 | 5012 | 0.12% | 0.024% |
| 3 | 3.370 | 3.348 | 3.388 | PV | 188 | 2267 | 0.05% | 0.011% |
| 4 | 3.394 | 3.388 | 3.404 | VV | 123 | 734 | 0.02% | 0.003% |
| 5 | 3.425 | 3.404 | 3.463 | VV | 472 | 5366 | 0.13% | 0.025% |
| 6 | 3.477 | 3.463 | 3.485 | VV | 124 | 876 | 0.02% | 0.004% |
| 7 | 3.527 | 3.485 | 3.537 | VV | 107 | 2207 | 0.05% | 0.010% |
| 8 | 3.548 | 3.537 | 3.561 | VV | 181 | 1636 | 0.04% | 0.008% |
| 9 | 3.571 | 3.561 | 3.581 | VV | 194 | 1692 | 0.04% | 0.008% |
| 10 | 3.594 | 3.581 | 3.624 | VV | 371 | 4255 | 0.10% | 0.020% |
| 11 | 3.639 | 3.624 | 3.651 | VV | 248 | 2470 | 0.06% | 0.012% |
| 12 | 3.660 | 3.651 | 3.721 | VV | 217 | 4143 | 0.10% | 0.020% |
| 13 | 3.761 | 3.721 | 3.813 | VV | 454 | 9120 | 0.21% | 0.043% |
| 14 | 3.836 | 3.813 | 3.921 | VV | 987 | 15276 | 0.36% | 0.072% |
| 15 | 3.936 | 3.921 | 3.948 | VV | 566 | 5668 | 0.13% | 0.027% |
| 16 | 3.963 | 3.948 | 3.998 | VV | 1094 | 11567 | 0.27% | 0.055% |
| 17 | 4.005 | 3.998 | 4.016 | VV | 127 | 740 | 0.02% | 0.004% |
| 18 | 4.030 | 4.016 | 4.046 | PV | 187 | 2107 | 0.05% | 0.010% |
| 19 | 4.110 | 4.046 | 4.162 | VV | 1020 | 21066 | 0.49% | 0.100% |
| 20 | 4.169 | 4.162 | 4.188 | VV | 174 | 2129 | 0.05% | 0.010% |
| 21 | 4.201 | 4.188 | 4.247 | VV | 163 | 4839 | 0.11% | 0.023% |
| 22 | 4.259 | 4.247 | 4.274 | VV | 222 | 2930 | 0.07% | 0.014% |
| 23 | 4.287 | 4.274 | 4.314 | VV | 212 | 3510 | 0.08% | 0.017% |
| 24 | 4.334 | 4.314 | 4.359 | VV | 858 | 11365 | 0.27% | 0.054% |
| 25 | 4.374 | 4.359 | 4.411 | VV | 361 | 6093 | 0.14% | 0.029% |
| 26 | 4.443 | 4.411 | 4.467 | VV | 495 | 9397 | 0.22% | 0.045% |
| 27 | 4.501 | 4.467 | 4.520 | VV | 1447 | 18700 | 0.44% | 0.089% |
| 28 | 4.556 | 4.520 | 4.570 | VV | 1295 | 16225 | 0.38% | 0.077% |
| 29 | 4.586 | 4.570 | 4.614 | VV | 1893 | 19727 | 0.46% | 0.094% |
| 30 | 4.624 | 4.614 | 4.634 | VV | 160 | 1971 | 0.05% | 0.009% |
| 31 | 4.706 | 4.634 | 4.760 | VV | 354 | 12901 | 0.30% | 0.061% |
| 32 | 4.778 | 4.760 | 4.871 | VV | 197 | 6293 | 0.15% | 0.030% |
| 33 | 4.886 | 4.871 | 4.902 | VV | 300 | 3567 | 0.08% | 0.017% |
| 34 | 4.964 | 4.902 | 4.998 | VV | 5022 | 65977 | 1.55% | 0.313% |
| 35 | 5.021 | 4.998 | 5.059 | VV | 1045 | 14257 | 0.33% | 0.068% |
| 36 | 5.071 | 5.059 | 5.108 | VV | 229 | 3672 | 0.09% | 0.017% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.122 | 5.108 | 5.137 | VV | 233 | 2565 | 0.06% | 0.012% |
| 38 | 5.155 | 5.137 | 5.171 | VV | 356 | 4455 | 0.10% | 0.021% |
| 39 | 5.189 | 5.171 | 5.220 | VV | 477 | 7877 | 0.18% | 0.037% |
| 40 | 5.257 | 5.220 | 5.305 | VV | 292 | 7761 | 0.18% | 0.037% |
| 41 | 5.334 | 5.305 | 5.345 | VV | 310 | 4300 | 0.10% | 0.020% |
| 42 | 5.367 | 5.345 | 5.383 | VV | 1114 | 12028 | 0.28% | 0.057% |
| 43 | 5.407 | 5.383 | 5.429 | VV | 2024 | 24306 | 0.57% | 0.115% |
| 44 | 5.464 | 5.429 | 5.485 | VV | 531 | 7469 | 0.18% | 0.035% |
| 45 | 5.549 | 5.485 | 5.580 | VV | 444 | 11743 | 0.28% | 0.056% |
| 46 | 5.614 | 5.580 | 5.631 | VV | 255 | 4263 | 0.10% | 0.020% |
| 47 | 5.658 | 5.631 | 5.685 | VV | 502 | 8350 | 0.20% | 0.040% |
| 48 | 5.711 | 5.685 | 5.762 | VV | 286 | 8090 | 0.19% | 0.038% |
| 49 | 5.771 | 5.762 | 5.802 | VV | 156 | 2501 | 0.06% | 0.012% |
| 50 | 5.818 | 5.802 | 5.851 | VV | 329 | 5197 | 0.12% | 0.025% |
| 51 | 5.868 | 5.851 | 5.885 | VV | 286 | 4373 | 0.10% | 0.021% |
| 52 | 5.916 | 5.885 | 5.943 | VV | 694 | 13368 | 0.31% | 0.063% |
| 53 | 5.964 | 5.943 | 5.985 | VV | 624 | 9335 | 0.22% | 0.044% |
| 54 | 6.006 | 5.985 | 6.037 | VV | 1181 | 14713 | 0.35% | 0.070% |
| 55 | 6.068 | 6.037 | 6.102 | VV | 709 | 11263 | 0.26% | 0.053% |
| 56 | 6.140 | 6.102 | 6.168 | VV | 453 | 10371 | 0.24% | 0.049% |
| 57 | 6.177 | 6.168 | 6.208 | VV | 130 | 3179 | 0.07% | 0.015% |
| 58 | 6.237 | 6.208 | 6.255 | VV | 258 | 4053 | 0.10% | 0.019% |
| 59 | 6.271 | 6.255 | 6.298 | VV | 208 | 2722 | 0.06% | 0.013% |
| 60 | 6.347 | 6.298 | 6.378 | VV | 6012 | 65928 | 1.55% | 0.313% |
| 61 | 6.390 | 6.378 | 6.408 | VV | 263 | 3902 | 0.09% | 0.019% |
| 62 | 6.431 | 6.408 | 6.451 | VV | 925 | 10300 | 0.24% | 0.049% |
| 63 | 6.465 | 6.451 | 6.478 | VV | 547 | 5665 | 0.13% | 0.027% |
| 64 | 6.496 | 6.478 | 6.515 | VV | 1557 | 16635 | 0.39% | 0.079% |
| 65 | 6.529 | 6.515 | 6.551 | VV | 556 | 7087 | 0.17% | 0.034% |
| 66 | 6.568 | 6.551 | 6.598 | VV | 810 | 9342 | 0.22% | 0.044% |
| 67 | 6.616 | 6.598 | 6.693 | VV | 164 | 7256 | 0.17% | 0.034% |
| 68 | 6.742 | 6.693 | 6.761 | VV | 264 | 5989 | 0.14% | 0.028% |
| 69 | 6.788 | 6.761 | 6.815 | VV | 855 | 11492 | 0.27% | 0.055% |
| 70 | 6.842 | 6.815 | 6.878 | VV | 1280 | 24125 | 0.57% | 0.114% |
| 71 | 6.901 | 6.878 | 6.933 | VV | 907 | 19612 | 0.46% | 0.093% |
| 72 | 6.967 | 6.933 | 6.990 | VV | 1514 | 22581 | 0.53% | 0.107% |
| 73 | 7.004 | 6.990 | 7.030 | VV | 247 | 3364 | 0.08% | 0.016% |
| 74 | 7.073 | 7.030 | 7.098 | VV | 384 | 7683 | 0.18% | 0.036% |
| 75 | 7.129 | 7.098 | 7.156 | PV | 3496 | 38735 | 0.91% | 0.184% |
| 76 | 7.189 | 7.156 | 7.198 | VV | 444 | 5631 | 0.13% | 0.027% |
| 77 | 7.206 | 7.198 | 7.219 | VV | 501 | 4184 | 0.10% | 0.020% |
| 78 | 7.236 | 7.219 | 7.248 | VV | 628 | 6854 | 0.16% | 0.033% |
| 79 | 7.268 | 7.248 | 7.292 | VV | 1495 | 20797 | 0.49% | 0.099% |
| 80 | 7.333 | 7.292 | 7.348 | VV | 744 | 16010 | 0.38% | 0.076% |
| 81 | 7.360 | 7.348 | 7.385 | VV | 857 | 11563 | 0.27% | 0.055% |
| 82 | 7.400 | 7.385 | 7.412 | VV | 292 | 4033 | 0.09% | 0.019% |
| 83 | 7.428 | 7.412 | 7.455 | VV | 375 | 6660 | 0.16% | 0.032% |
| 84 | 7.481 | 7.455 | 7.491 | VV | 305 | 4395 | 0.10% | 0.021% |
| 85 | 7.530 | 7.491 | 7.559 | VV | 1519 | 21302 | 0.50% | 0.101% |
| 86 | 7.615 | 7.559 | 7.648 | VV | 432 | 14824 | 0.35% | 0.070% |
| 87 | 7.674 | 7.648 | 7.687 | VV | 390 | 6882 | 0.16% | 0.033% |
| 88 | 7.697 | 7.687 | 7.713 | VV | 390 | 4811 | 0.11% | 0.023% |
| 89 | 7.724 | 7.713 | 7.735 | VV | 317 | 3064 | 0.07% | 0.015% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.744 | 7.735 | 7.761 | VV | 302 | 3292 | 0.08% | 0.016% |
| 91 | 7.793 | 7.761 | 7.813 | VV | 311 | 5332 | 0.13% | 0.025% |
| 92 | 7.834 | 7.813 | 7.861 | VV | 1112 | 12594 | 0.30% | 0.060% |
| 93 | 7.891 | 7.861 | 7.915 | VV | 1065 | 13494 | 0.32% | 0.064% |
| 94 | 7.925 | 7.915 | 7.941 | VV | 282 | 3493 | 0.08% | 0.017% |
| 95 | 7.959 | 7.941 | 7.978 | VV | 416 | 5584 | 0.13% | 0.026% |
| 96 | 7.992 | 7.978 | 8.020 | VV | 201 | 4276 | 0.10% | 0.020% |
| 97 | 8.046 | 8.020 | 8.074 | VV | 529 | 8625 | 0.20% | 0.041% |
| 98 | 8.085 | 8.074 | 8.101 | VV | 188 | 2811 | 0.07% | 0.013% |
| 99 | 8.139 | 8.101 | 8.208 | VV | 4477 | 68196 | 1.60% | 0.323% |
| 100 | 8.237 | 8.208 | 8.270 | VV | 847 | 21731 | 0.51% | 0.103% |
| 101 | 8.289 | 8.270 | 8.314 | VV | 687 | 11262 | 0.26% | 0.053% |
| 102 | 8.332 | 8.314 | 8.352 | VV | 556 | 8235 | 0.19% | 0.039% |
| 103 | 8.371 | 8.352 | 8.408 | VV | 794 | 9995 | 0.23% | 0.047% |
| 104 | 8.442 | 8.408 | 8.524 | PV | 9507 | 153542 | 3.61% | 0.728% |
| 105 | 8.557 | 8.524 | 8.575 | VV | 700 | 17594 | 0.41% | 0.083% |
| 106 | 8.598 | 8.575 | 8.612 | VV | 921 | 16303 | 0.38% | 0.077% |
| 107 | 8.628 | 8.612 | 8.638 | VV | 874 | 11237 | 0.26% | 0.053% |
| 108 | 8.649 | 8.638 | 8.659 | VV | 948 | 10210 | 0.24% | 0.048% |
| 109 | 8.677 | 8.659 | 8.725 | VV | 1383 | 33007 | 0.78% | 0.157% |
| 110 | 8.742 | 8.725 | 8.778 | VV | 860 | 15923 | 0.37% | 0.076% |
| 111 | 8.793 | 8.778 | 8.811 | VV | 652 | 8899 | 0.21% | 0.042% |
| 112 | 8.859 | 8.811 | 8.875 | VV | 1857 | 30167 | 0.71% | 0.143% |
| 113 | 8.895 | 8.875 | 8.940 | VV | 1380 | 36953 | 0.87% | 0.175% |
| 114 | 8.975 | 8.940 | 9.025 | VV | 3153 | 62764 | 1.47% | 0.298% |
| 115 | 9.046 | 9.025 | 9.066 | VV | 1020 | 13371 | 0.31% | 0.063% |
| 116 | 9.097 | 9.066 | 9.126 | VV | 998 | 23383 | 0.55% | 0.111% |
| 117 | 9.140 | 9.126 | 9.166 | VV | 708 | 12808 | 0.30% | 0.061% |
| 118 | 9.177 | 9.166 | 9.224 | VV | 471 | 10665 | 0.25% | 0.051% |
| 119 | 9.261 | 9.224 | 9.300 | VV | 755 | 20359 | 0.48% | 0.097% |
| 120 | 9.324 | 9.300 | 9.364 | VV | 1534 | 26431 | 0.62% | 0.125% |
| 121 | 9.397 | 9.364 | 9.438 | VV | 459 | 13394 | 0.31% | 0.064% |
| 122 | 9.465 | 9.438 | 9.501 | VV | 827 | 15075 | 0.35% | 0.071% |
| 123 | 9.516 | 9.501 | 9.542 | VV | 698 | 9429 | 0.22% | 0.045% |
| 124 | 9.570 | 9.542 | 9.631 | PV | 568 | 13422 | 0.32% | 0.064% |
| 125 | 9.656 | 9.631 | 9.711 | VV | 606 | 13084 | 0.31% | 0.062% |
| 126 | 9.738 | 9.711 | 9.788 | VV | 2305 | 33274 | 0.78% | 0.158% |
| 127 | 9.809 | 9.788 | 9.864 | VV | 487 | 14905 | 0.35% | 0.071% |
| 128 | 9.885 | 9.864 | 9.897 | VV | 342 | 4393 | 0.10% | 0.021% |
| 129 | 9.910 | 9.897 | 9.957 | VV | 348 | 4965 | 0.12% | 0.024% |
| 130 | 9.979 | 9.957 | 9.998 | VV | 152 | 2690 | 0.06% | 0.013% |
| 131 | 10.011 | 9.998 | 10.031 | VV | 295 | 4388 | 0.10% | 0.021% |
| 132 | 10.059 | 10.031 | 10.072 | VV | 512 | 8820 | 0.21% | 0.042% |
| 133 | 10.087 | 10.072 | 10.097 | VV | 345 | 4330 | 0.10% | 0.021% |
| 134 | 10.127 | 10.097 | 10.150 | VV | 1146 | 21223 | 0.50% | 0.101% |
| 135 | 10.168 | 10.150 | 10.189 | VV | 713 | 11995 | 0.28% | 0.057% |
| 136 | 10.211 | 10.189 | 10.237 | VV | 565 | 12155 | 0.29% | 0.058% |
| 137 | 10.249 | 10.237 | 10.255 | VV | 328 | 3148 | 0.07% | 0.015% |
| 138 | 10.287 | 10.255 | 10.313 | VV | 362 | 10584 | 0.25% | 0.050% |
| 139 | 10.339 | 10.313 | 10.351 | VV | 698 | 10426 | 0.24% | 0.049% |
| 140 | 10.370 | 10.351 | 10.386 | VV | 674 | 11787 | 0.28% | 0.056% |
| 141 | 10.413 | 10.386 | 10.435 | VV | 940 | 21005 | 0.49% | 0.100% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.473 | 10.435 | 10.511 | VV | 1394 | 41326 | 0.97% | 0.196% |
| 143 | 10.547 | 10.511 | 10.578 | VV | 2264 | 51656 | 1.21% | 0.245% |
| 144 | 10.602 | 10.578 | 10.659 | VV | 1814 | 45171 | 1.06% | 0.214% |
| 145 | 10.682 | 10.659 | 10.715 | VV | 541 | 14362 | 0.34% | 0.068% |
| 146 | 10.721 | 10.715 | 10.743 | VV | 349 | 5907 | 0.14% | 0.028% |
| 147 | 10.789 | 10.743 | 10.824 | VV | 623 | 20919 | 0.49% | 0.099% |
| 148 | 10.845 | 10.824 | 10.871 | VV | 726 | 14933 | 0.35% | 0.071% |
| 149 | 10.900 | 10.871 | 10.916 | VV | 1006 | 17640 | 0.41% | 0.084% |
| 150 | 10.927 | 10.916 | 10.945 | VV | 512 | 6660 | 0.16% | 0.032% |
| 151 | 10.973 | 10.945 | 11.038 | VV | 414 | 13331 | 0.31% | 0.063% |
| 152 | 11.065 | 11.038 | 11.078 | VV | 199 | 2920 | 0.07% | 0.014% |
| 153 | 11.106 | 11.078 | 11.147 | VV | 1410 | 21800 | 0.51% | 0.103% |
| 154 | 11.177 | 11.147 | 11.214 | VV | 2891 | 39376 | 0.92% | 0.187% |
| 155 | 11.226 | 11.214 | 11.238 | VV | 308 | 3777 | 0.09% | 0.018% |
| 156 | 11.268 | 11.238 | 11.305 | VV | 1491 | 26794 | 0.63% | 0.127% |
| 157 | 11.328 | 11.305 | 11.345 | VV | 330 | 3985 | 0.09% | 0.019% |
| 158 | 11.368 | 11.345 | 11.388 | PV | 240 | 3497 | 0.08% | 0.017% |
| 159 | 11.410 | 11.388 | 11.430 | VV | 341 | 4468 | 0.10% | 0.021% |
| 160 | 11.466 | 11.430 | 11.481 | VV | 498 | 8388 | 0.20% | 0.040% |
| 161 | 11.494 | 11.481 | 11.515 | VV | 378 | 5840 | 0.14% | 0.028% |
| 162 | 11.568 | 11.515 | 11.611 | VV | 851 | 27868 | 0.65% | 0.132% |
| 163 | 11.650 | 11.611 | 11.675 | VV | 597 | 16402 | 0.39% | 0.078% |
| 164 | 11.686 | 11.675 | 11.715 | VV | 231 | 3643 | 0.09% | 0.017% |
| 165 | 11.773 | 11.715 | 11.787 | VV | 373 | 11725 | 0.28% | 0.056% |
| 166 | 11.839 | 11.787 | 11.878 | VV | 1483 | 43822 | 1.03% | 0.208% |
| 167 | 11.890 | 11.878 | 11.908 | VV | 426 | 6759 | 0.16% | 0.032% |
| 168 | 11.940 | 11.908 | 11.959 | VV | 538 | 11752 | 0.28% | 0.056% |
| 169 | 11.979 | 11.959 | 12.028 | VV | 623 | 17540 | 0.41% | 0.083% |
| 170 | 12.064 | 12.028 | 12.105 | VV | 1296 | 37199 | 0.87% | 0.176% |
| 171 | 12.130 | 12.105 | 12.192 | VV | 581 | 19846 | 0.47% | 0.094% |
| 172 | 12.254 | 12.192 | 12.272 | VV | 676 | 18953 | 0.45% | 0.090% |
| 173 | 12.346 | 12.272 | 12.381 | VV | 1794 | 46151 | 1.08% | 0.219% |
| 174 | 12.422 | 12.381 | 12.447 | VV | 1439 | 21840 | 0.51% | 0.104% |
| 175 | 12.484 | 12.447 | 12.511 | VV | 3409 | 43210 | 1.01% | 0.205% |
| 176 | 12.521 | 12.511 | 12.564 | VV | 362 | 7862 | 0.18% | 0.037% |
| 177 | 12.604 | 12.564 | 12.615 | VV | 455 | 9269 | 0.22% | 0.044% |
| 178 | 12.625 | 12.615 | 12.665 | VV | 483 | 6564 | 0.15% | 0.031% |
| 179 | 12.685 | 12.665 | 12.711 | PV | 82 | 1084 | 0.03% | 0.005% |
| 180 | 12.758 | 12.711 | 12.796 | PV | 381 | 12262 | 0.29% | 0.058% |
| 181 | 12.848 | 12.796 | 12.864 | VV | 398 | 9923 | 0.23% | 0.047% |
| 182 | 12.930 | 12.864 | 13.073 | VV | 340154 | 4258230 | 100.00% | 20.196% |
| 183 | 13.097 | 13.073 | 13.129 | VV | 1530 | 32339 | 0.76% | 0.153% |
| 184 | 13.148 | 13.129 | 13.188 | VV | 836 | 22306 | 0.52% | 0.106% |
| 185 | 13.211 | 13.188 | 13.236 | VV | 494 | 10865 | 0.26% | 0.052% |
| 186 | 13.249 | 13.236 | 13.268 | VV | 468 | 6704 | 0.16% | 0.032% |
| 187 | 13.295 | 13.268 | 13.306 | VV | 867 | 14027 | 0.33% | 0.067% |
| 188 | 13.312 | 13.306 | 13.337 | VV | 845 | 11488 | 0.27% | 0.054% |
| 189 | 13.372 | 13.337 | 13.411 | VV | 828 | 27475 | 0.65% | 0.130% |
| 190 | 13.448 | 13.411 | 13.465 | VV | 509 | 12223 | 0.29% | 0.058% |
| 191 | 13.529 | 13.465 | 13.570 | VV | 712 | 33984 | 0.80% | 0.161% |
| 192 | 13.627 | 13.570 | 13.654 | VV | 1377 | 32849 | 0.77% | 0.156% |
| 193 | 13.680 | 13.654 | 13.718 | VV | 3289 | 47000 | 1.10% | 0.223% |
| 194 | 13.742 | 13.718 | 13.755 | VV | 326 | 4887 | 0.11% | 0.023% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.778 | 13.755 | 13.788 | VV | 360 | 4190 | 0.10% | 0.020% |
| 196 | 13.828 | 13.788 | 13.848 | VV | 251 | 5699 | 0.13% | 0.027% |
| 197 | 13.862 | 13.848 | 13.870 | VV | 164 | 1391 | 0.03% | 0.007% |
| 198 | 13.915 | 13.870 | 13.945 | VV | 704 | 18514 | 0.43% | 0.088% |
| 199 | 13.980 | 13.945 | 14.001 | VV | 434 | 11499 | 0.27% | 0.055% |
| 200 | 14.014 | 14.001 | 14.048 | VV | 520 | 9402 | 0.22% | 0.045% |
| 201 | 14.078 | 14.048 | 14.091 | VV | 624 | 11318 | 0.27% | 0.054% |
| 202 | 14.117 | 14.091 | 14.161 | VV | 2037 | 38804 | 0.91% | 0.184% |
| 203 | 14.178 | 14.161 | 14.218 | VV | 512 | 13901 | 0.33% | 0.066% |
| 204 | 14.241 | 14.218 | 14.277 | VV | 1609 | 26736 | 0.63% | 0.127% |
| 205 | 14.318 | 14.277 | 14.351 | VV | 793 | 25637 | 0.60% | 0.122% |
| 206 | 14.379 | 14.351 | 14.425 | VV | 937 | 30343 | 0.71% | 0.144% |
| 207 | 14.431 | 14.425 | 14.463 | VV | 602 | 10516 | 0.25% | 0.050% |
| 208 | 14.495 | 14.463 | 14.515 | VV | 791 | 18548 | 0.44% | 0.088% |
| 209 | 14.527 | 14.515 | 14.539 | VV | 626 | 7892 | 0.19% | 0.037% |
| 210 | 14.566 | 14.539 | 14.606 | VV | 958 | 27576 | 0.65% | 0.131% |
| 211 | 14.627 | 14.606 | 14.660 | VV | 682 | 17214 | 0.40% | 0.082% |
| 212 | 14.673 | 14.660 | 14.697 | VV | 666 | 10181 | 0.24% | 0.048% |
| 213 | 14.739 | 14.697 | 14.756 | VV | 1147 | 26036 | 0.61% | 0.123% |
| 214 | 14.783 | 14.756 | 14.812 | VV | 4082 | 64708 | 1.52% | 0.307% |
| 215 | 14.829 | 14.812 | 14.871 | VV | 774 | 20690 | 0.49% | 0.098% |
| 216 | 14.885 | 14.871 | 14.897 | VV | 434 | 6092 | 0.14% | 0.029% |
| 217 | 14.916 | 14.897 | 14.939 | VV | 424 | 9083 | 0.21% | 0.043% |
| 218 | 14.978 | 14.939 | 15.002 | VV | 538 | 13262 | 0.31% | 0.063% |
| 219 | 15.025 | 15.002 | 15.063 | VV | 396 | 11564 | 0.27% | 0.055% |
| 220 | 15.097 | 15.063 | 15.151 | VV | 329 | 13945 | 0.33% | 0.066% |
| 221 | 15.202 | 15.151 | 15.242 | VV | 700 | 19921 | 0.47% | 0.094% |
| 222 | 15.256 | 15.242 | 15.271 | VV | 393 | 5189 | 0.12% | 0.025% |
| 223 | 15.302 | 15.271 | 15.332 | VV | 2905 | 45314 | 1.06% | 0.215% |
| 224 | 15.343 | 15.332 | 15.348 | VV | 571 | 4915 | 0.12% | 0.023% |
| 225 | 15.354 | 15.348 | 15.395 | VV | 478 | 9946 | 0.23% | 0.047% |
| 226 | 15.422 | 15.395 | 15.471 | VV | 368 | 14394 | 0.34% | 0.068% |
| 227 | 15.484 | 15.471 | 15.497 | VV | 509 | 5936 | 0.14% | 0.028% |
| 228 | 15.517 | 15.497 | 15.565 | VV | 598 | 15400 | 0.36% | 0.073% |
| 229 | 15.620 | 15.565 | 15.640 | VV | 846 | 26394 | 0.62% | 0.125% |
| 230 | 15.663 | 15.640 | 15.695 | VV | 759 | 18460 | 0.43% | 0.088% |
| 231 | 15.703 | 15.695 | 15.728 | VV | 536 | 7318 | 0.17% | 0.035% |
| 232 | 15.762 | 15.728 | 15.776 | VV | 936 | 17995 | 0.42% | 0.085% |
| 233 | 15.802 | 15.776 | 15.832 | VV | 4187 | 69333 | 1.63% | 0.329% |
| 234 | 15.842 | 15.832 | 15.894 | VV | 858 | 20710 | 0.49% | 0.098% |
| 235 | 15.944 | 15.894 | 15.961 | VV | 534 | 15092 | 0.35% | 0.072% |
| 236 | 15.986 | 15.961 | 16.035 | VV | 1037 | 29051 | 0.68% | 0.138% |
| 237 | 16.048 | 16.035 | 16.067 | VV | 460 | 7220 | 0.17% | 0.034% |
| 238 | 16.114 | 16.067 | 16.139 | VV | 913 | 26937 | 0.63% | 0.128% |
| 239 | 16.162 | 16.139 | 16.215 | VV | 724 | 20724 | 0.49% | 0.098% |
| 240 | 16.251 | 16.215 | 16.260 | VV | 571 | 11460 | 0.27% | 0.054% |
| 241 | 16.284 | 16.260 | 16.313 | VV | 3584 | 54807 | 1.29% | 0.260% |
| 242 | 16.325 | 16.313 | 16.358 | VV | 722 | 14874 | 0.35% | 0.071% |
| 243 | 16.372 | 16.358 | 16.383 | VV | 611 | 7959 | 0.19% | 0.038% |
| 244 | 16.436 | 16.383 | 16.481 | VV | 990 | 45029 | 1.06% | 0.214% |
| 245 | 16.510 | 16.481 | 16.561 | VV | 1070 | 39263 | 0.92% | 0.186% |
| 246 | 16.593 | 16.561 | 16.688 | VV | 1071 | 62211 | 1.46% | 0.295% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 16.716 | 16.688 | 16.725 | VV | 1501 | 25309 | 0.59% | 0.120% |
| 248 | 16.750 | 16.725 | 16.795 | VV | 4780 | 98610 | 2.32% | 0.468% |
| 249 | 16.802 | 16.795 | 16.821 | VV | 923 | 13363 | 0.31% | 0.063% |
| 250 | 16.868 | 16.821 | 16.889 | VV | 1003 | 33416 | 0.78% | 0.158% |
| 251 | 16.939 | 16.889 | 16.955 | VV | 1147 | 35630 | 0.84% | 0.169% |
| 252 | 16.983 | 16.955 | 17.020 | VV | 1780 | 47225 | 1.11% | 0.224% |
| 253 | 17.042 | 17.020 | 17.065 | VV | 1332 | 31569 | 0.74% | 0.150% |
| 254 | 17.077 | 17.065 | 17.107 | VV | 1381 | 31355 | 0.74% | 0.149% |
| 255 | 17.146 | 17.107 | 17.170 | VV | 1514 | 50619 | 1.19% | 0.240% |
| 256 | 17.201 | 17.170 | 17.244 | VV | 6255 | 123386 | 2.90% | 0.585% |
| 257 | 17.261 | 17.244 | 17.274 | VV | 1258 | 21484 | 0.50% | 0.102% |
| 258 | 17.304 | 17.274 | 17.341 | VV | 1984 | 66371 | 1.56% | 0.315% |
| 259 | 17.363 | 17.341 | 17.371 | VV | 1692 | 28496 | 0.67% | 0.135% |
| 260 | 17.392 | 17.371 | 17.415 | VV | 1912 | 45590 | 1.07% | 0.216% |
| 261 | 17.424 | 17.415 | 17.446 | VV | 1776 | 29891 | 0.70% | 0.142% |
| 262 | 17.482 | 17.446 | 17.503 | VV | 2030 | 61077 | 1.43% | 0.290% |
| 263 | 17.528 | 17.503 | 17.561 | VV | 2117 | 64022 | 1.50% | 0.304% |
| 264 | 17.573 | 17.561 | 17.588 | VV | 1562 | 23959 | 0.56% | 0.114% |
| 265 | 17.633 | 17.588 | 17.728 | VV | 5597 | 172597 | 4.05% | 0.819% |
| 266 | 17.770 | 17.728 | 17.861 | VV | 2822 | 121891 | 2.86% | 0.578% |
| 267 | 17.879 | 17.861 | 17.888 | VV | 848 | 12584 | 0.30% | 0.060% |
| 268 | 17.913 | 17.888 | 17.951 | VV | 1402 | 44744 | 1.05% | 0.212% |
| 269 | 17.970 | 17.951 | 17.994 | VV | 1424 | 29565 | 0.69% | 0.140% |
| 270 | 18.014 | 17.994 | 18.031 | VV | 1157 | 22506 | 0.53% | 0.107% |
| 271 | 18.057 | 18.031 | 18.095 | VV | 5279 | 98807 | 2.32% | 0.469% |
| 272 | 18.136 | 18.095 | 18.190 | VV | 2513 | 70911 | 1.67% | 0.336% |
| 273 | 18.203 | 18.190 | 18.229 | VV | 1003 | 17687 | 0.42% | 0.084% |
| 274 | 18.318 | 18.229 | 18.404 | VV | 1349 | 107071 | 2.51% | 0.508% |
| 275 | 18.468 | 18.404 | 18.514 | VV | 4903 | 144233 | 3.39% | 0.684% |
| 276 | 18.558 | 18.514 | 18.579 | VV | 2076 | 65197 | 1.53% | 0.309% |
| 277 | 18.608 | 18.579 | 18.662 | VV | 1830 | 78435 | 1.84% | 0.372% |
| 278 | 18.669 | 18.662 | 18.701 | VV | 1440 | 32678 | 0.77% | 0.155% |
| 279 | 18.729 | 18.701 | 18.739 | VV | 1581 | 33982 | 0.80% | 0.161% |
| 280 | 18.768 | 18.739 | 18.821 | VV | 1819 | 71305 | 1.67% | 0.338% |
| 281 | 18.863 | 18.821 | 18.925 | VV | 4428 | 139519 | 3.28% | 0.662% |
| 282 | 18.956 | 18.925 | 18.978 | VV | 2040 | 55378 | 1.30% | 0.263% |
| 283 | 19.038 | 18.978 | 19.105 | VV | 2636 | 148797 | 3.49% | 0.706% |
| 284 | 19.133 | 19.105 | 19.155 | VV | 2054 | 54594 | 1.28% | 0.259% |
| 285 | 19.168 | 19.155 | 19.179 | VV | 1888 | 26855 | 0.63% | 0.127% |
| 286 | 19.194 | 19.179 | 19.206 | VV | 1977 | 30495 | 0.72% | 0.145% |
| 287 | 19.249 | 19.206 | 19.319 | VV | 5258 | 194286 | 4.56% | 0.921% |
| 288 | 19.369 | 19.319 | 19.405 | VV | 2559 | 120447 | 2.83% | 0.571% |
| 289 | 19.412 | 19.405 | 19.417 | VV | 2565 | 18654 | 0.44% | 0.088% |
| 290 | 19.513 | 19.417 | 19.522 | VV | 3867 | 205292 | 4.82% | 0.974% |
| 291 | 19.552 | 19.522 | 19.597 | VV | 4681 | 184977 | 4.34% | 0.877% |
| 292 | 19.625 | 19.597 | 19.648 | VV | 5545 | 144219 | 3.39% | 0.684% |
| 293 | 19.814 | 19.648 | 19.878 | VV | 6569 | 807067 | 18.95% | 3.828% |
| 294 | 19.886 | 19.878 | 19.939 | VV | 6297 | 209182 | 4.91% | 0.992% |
| 295 | 19.990 | 19.939 | 20.014 | VV | 7935 | 280158 | 6.58% | 1.329% |
| 296 | 20.044 | 20.014 | 20.069 | VV | 8842 | 261482 | 6.14% | 1.240% |
| 297 | 20.134 | 20.069 | 20.231 | VV | 10302 | 780380 | 18.33% | 3.701% |
| 298 | 20.261 | 20.231 | 20.288 | VV | 6866 | 221079 | 5.19% | 1.049% |
| 299 | 20.340 | 20.288 | 20.368 | VV | 7844 | 340215 | 7.99% | 1.614% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 20.379 | 20.368 | 20.401 | VV | 6806 | 132936 | 3.12% | 0.630% |
| 301 | 20.515 | 20.401 | 20.598 | VV | 8650 | 861028 | 20.22% | 4.084% |
| 302 | 20.631 | 20.598 | 20.645 | VV | 6662 | 184192 | 4.33% | 0.874% |
| 303 | 20.711 | 20.645 | 20.801 | VV | 8404 | 674016 | 15.83% | 3.197% |
| 304 | 20.813 | 20.801 | 20.845 | VV | 6924 | 177422 | 4.17% | 0.841% |
| 305 | 20.872 | 20.845 | 20.933 | VV | 7011 | 361792 | 8.50% | 1.716% |
| 306 | 20.945 | 20.933 | 20.978 | VV | 6540 | 173441 | 4.07% | 0.823% |
| 307 | 21.041 | 20.978 | 21.098 | VV | 7551 | 487210 | 11.44% | 2.311% |
| 308 | 21.124 | 21.098 | 21.198 | VV | 6895 | 383208 | 9.00% | 1.818% |
| 309 | 21.250 | 21.198 | 21.276 | VV | 6154 | 278672 | 6.54% | 1.322% |
| 310 | 21.325 | 21.276 | 21.335 | VV | 6172 | 216128 | 5.08% | 1.025% |
| 311 | 21.343 | 21.335 | 21.364 | VV | 6160 | 102630 | 2.41% | 0.487% |
| 312 | 21.371 | 21.364 | 21.379 | VV | 6003 | 53518 | 1.26% | 0.254% |
| 313 | 21.422 | 21.379 | 21.433 | VV | 6206 | 197147 | 4.63% | 0.935% |
| 314 | 21.519 | 21.433 | 21.633 | VV | 8823 | 951927 | 22.35% | 4.515% |
| 315 | 21.650 | 21.633 | 21.729 | VV | 7123 | 365659 | 8.59% | 1.734% |
| 316 | 21.749 | 21.729 | 21.773 | VV | 5683 | 146663 | 3.44% | 0.696% |
| 317 | 21.786 | 21.773 | 21.871 | VV | 5578 | 311423 | 7.31% | 1.477% |
| 318 | 21.951 | 21.871 | 21.961 | VV | 5231 | 275432 | 6.47% | 1.306% |
| 319 | 21.972 | 21.961 | 21.995 | VV | 5198 | 103695 | 2.44% | 0.492% |
| 320 | 22.066 | 21.995 | 22.083 | VV | 5534 | 282260 | 6.63% | 1.339% |
| 321 | 22.095 | 22.083 | 22.101 | VBA | 5426 | 71964 | 1.69% | 0.341% |

Sum of corrected areas: 21084235

Aliphatic EPH 111424.M Tue Nov 19 10:54:13 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048773.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 02:45
Operator : YP/AJ
Sample : P4860-04
Misc :
ALS Vial : 74 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-003

Integration File: sample.E
Quant Time: Nov 19 05:57:03 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... | 7.364 | 8633724 | 49.039 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 98.08% |
| 6) S 2-Flurobiphenyl (SURR) | 8.214 | 5678166 | 49.302 ug/ml |
| Spiked Amount 50.000 Range | 0 - 131 | Recovery = | 98.60% |
| 11) S ortho-Terphenyl (SURR) | 11.248 | 4231467 | 22.000 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 44.00% |
| **Target Compounds** | | | |

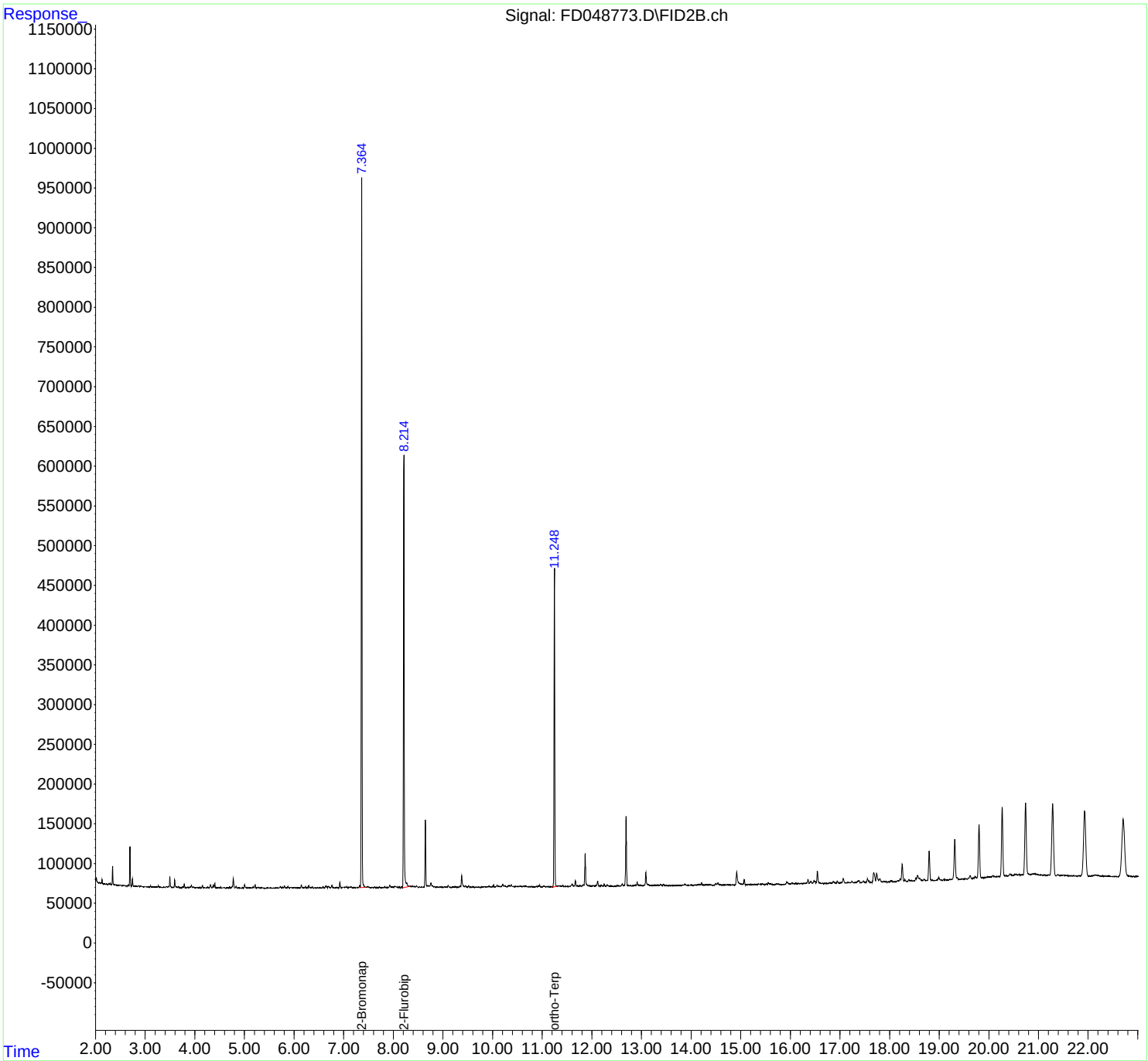
(f)=RT Delta > 1/2 Window (m)=manual int.

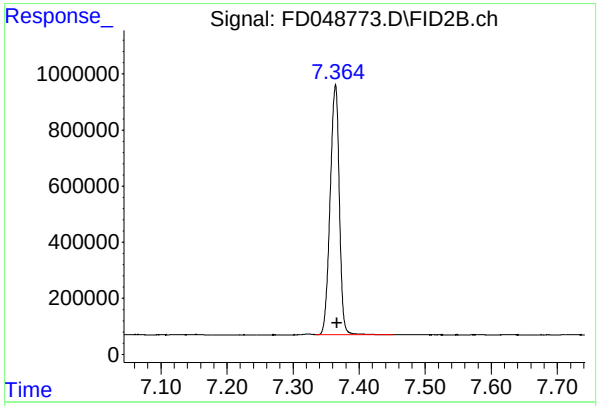
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048773.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 02:45
Operator : YP/AJ
Sample : P4860-04
Misc :
ALS Vial : 74 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-003

Integration File: sample.E
Quant Time: Nov 19 05:57:03 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

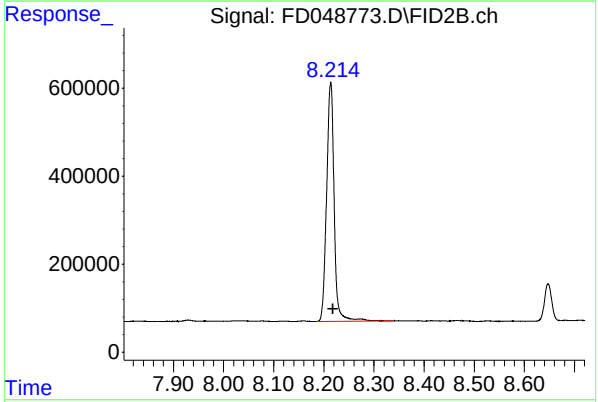





#4 2-Bromonaphthalene (SURR)

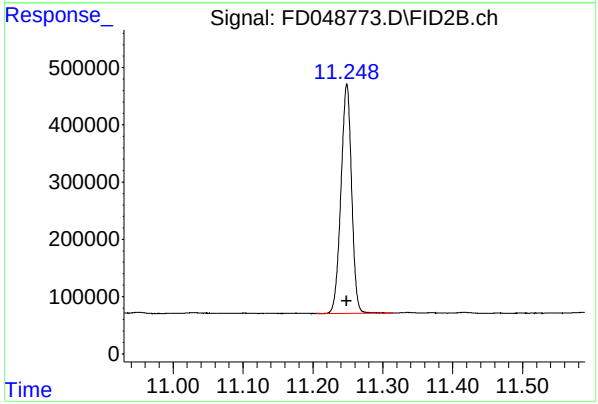
R.T.: 7.364 min
Delta R.T.: -0.003 min
Response: 8633724
Conc: 49.04 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-003




#6 2-Flurobiphenyl (SURR)

R.T.: 8.214 min
Delta R.T.: -0.005 min
Response: 5678166
Conc: 49.30 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.248 min
Delta R.T.: 0.000 min
Response: 4231467
Conc: 22.00 ug/ml

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048773.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 02:45
Sample : P4860-04
Misc :
ALS Vial : 74 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 | 4.104 | 4.062 | 4.123 | BV | 375 | 2564 | 0.03% | 0.009% |
| 2 | 4.154 | 4.123 | 4.178 | PV | 3154 | 31520 | 0.36% | 0.105% |
| 3 | 4.189 | 4.178 | 4.207 | VV | 502 | 4284 | 0.05% | 0.014% |
| 4 | 4.224 | 4.207 | 4.229 | VV | 289 | 2459 | 0.03% | 0.008% |
| 5 | 4.263 | 4.229 | 4.283 | VV | 1282 | 17106 | 0.20% | 0.057% |
| 6 | 4.317 | 4.283 | 4.338 | PV | 4262 | 55805 | 0.64% | 0.187% |
| 7 | 4.348 | 4.338 | 4.357 | VV | 701 | 6830 | 0.08% | 0.023% |
| 8 | 4.373 | 4.357 | 4.387 | VV | 4006 | 39523 | 0.45% | 0.132% |
| 9 | 4.403 | 4.387 | 4.425 | VV | 5962 | 59324 | 0.68% | 0.198% |
| 10 | 4.431 | 4.425 | 4.459 | VV | 518 | 6966 | 0.08% | 0.023% |
| 11 | 4.473 | 4.459 | 4.488 | VV | 910 | 11052 | 0.13% | 0.037% |
| 12 | 4.517 | 4.488 | 4.548 | VV | 1077 | 20434 | 0.24% | 0.068% |
| 13 | 4.562 | 4.548 | 4.575 | VV | 436 | 6382 | 0.07% | 0.021% |
| 14 | 4.591 | 4.575 | 4.622 | VV | 1087 | 13319 | 0.15% | 0.045% |
| 15 | 4.646 | 4.622 | 4.668 | PV | 289 | 6421 | 0.07% | 0.021% |
| 16 | 4.697 | 4.668 | 4.726 | VV | 990 | 18219 | 0.21% | 0.061% |
| 17 | 4.754 | 4.726 | 4.760 | VV | 2678 | 26148 | 0.30% | 0.087% |
| 18 | 4.776 | 4.760 | 4.809 | VV | 12256 | 139273 | 1.60% | 0.466% |
| 19 | 4.832 | 4.809 | 4.867 | VV | 2617 | 31026 | 0.36% | 0.104% |
| 20 | 4.883 | 4.867 | 4.894 | VV | 494 | 4600 | 0.05% | 0.015% |
| 21 | 4.908 | 4.901 | 4.914 | VV | 353 | 1715 | 0.02% | 0.006% |
| 22 | 4.920 | 4.914 | 4.925 | VV | 251 | 1280 | 0.01% | 0.004% |
| 23 | 4.939 | 4.925 | 4.952 | VV | 386 | 4279 | 0.05% | 0.014% |
| 24 | 4.964 | 4.952 | 4.985 | VV | 860 | 9563 | 0.11% | 0.032% |
| 25 | 5.002 | 4.985 | 5.064 | VV | 4414 | 64287 | 0.74% | 0.215% |
| 26 | 5.074 | 5.064 | 5.085 | VV | 529 | 5036 | 0.06% | 0.017% |
| 27 | 5.101 | 5.085 | 5.107 | VV | 415 | 4323 | 0.05% | 0.014% |
| 28 | 5.109 | 5.107 | 5.129 | VV | 426 | 4358 | 0.05% | 0.015% |
| 29 | 5.141 | 5.129 | 5.159 | VV | 738 | 7453 | 0.09% | 0.025% |
| 30 | 5.176 | 5.159 | 5.194 | VV | 1754 | 18597 | 0.21% | 0.062% |
| 31 | 5.216 | 5.194 | 5.242 | VV | 4505 | 49361 | 0.57% | 0.165% |
| 32 | 5.272 | 5.242 | 5.299 | VV | 1344 | 20858 | 0.24% | 0.070% |
| 33 | 5.311 | 5.299 | 5.323 | VV | 437 | 5316 | 0.06% | 0.018% |
| 34 | 5.338 | 5.323 | 5.345 | VV | 767 | 7414 | 0.09% | 0.025% |
| 35 | 5.352 | 5.345 | 5.401 | VV | 687 | 11152 | 0.13% | 0.037% |
| 36 | 5.422 | 5.401 | 5.439 | PV | 283 | 2847 | 0.03% | 0.010% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.464 | 5.439 | 5.494 | VV | 647 | 9442 | 0.11% | 0.032% |
| 38 | 5.502 | 5.494 | 5.514 | VV | 369 | 3099 | 0.04% | 0.010% |
| 39 | 5.522 | 5.514 | 5.531 | VV | 436 | 3439 | 0.04% | 0.011% |
| 40 | 5.542 | 5.531 | 5.550 | VV | 394 | 2691 | 0.03% | 0.009% |
| 41 | 5.555 | 5.550 | 5.598 | VV | 238 | 3781 | 0.04% | 0.013% |
| 42 | 5.634 | 5.598 | 5.647 | PV | 640 | 9227 | 0.11% | 0.031% |
| 43 | 5.663 | 5.647 | 5.669 | VV | 630 | 5715 | 0.07% | 0.019% |
| 44 | 5.673 | 5.669 | 5.682 | VV | 401 | 2019 | 0.02% | 0.007% |
| 45 | 5.721 | 5.682 | 5.754 | VV | 1699 | 37697 | 0.43% | 0.126% |
| 46 | 5.768 | 5.754 | 5.784 | VV | 1402 | 16629 | 0.19% | 0.056% |
| 47 | 5.789 | 5.784 | 5.794 | VV | 580 | 3092 | 0.04% | 0.010% |
| 48 | 5.809 | 5.794 | 5.844 | VV | 3013 | 35797 | 0.41% | 0.120% |
| 49 | 5.847 | 5.844 | 5.855 | VV | 356 | 2350 | 0.03% | 0.008% |
| 50 | 5.878 | 5.855 | 5.910 | VV | 1654 | 28167 | 0.32% | 0.094% |
| 51 | 5.938 | 5.910 | 5.968 | VV | 1086 | 23314 | 0.27% | 0.078% |
| 52 | 5.984 | 5.968 | 5.990 | VV | 416 | 4223 | 0.05% | 0.014% |
| 53 | 6.006 | 5.990 | 6.028 | VV | 809 | 13388 | 0.15% | 0.045% |
| 54 | 6.033 | 6.028 | 6.069 | VV | 548 | 9666 | 0.11% | 0.032% |
| 55 | 6.074 | 6.069 | 6.079 | VV | 321 | 1519 | 0.02% | 0.005% |
| 56 | 6.084 | 6.079 | 6.089 | VV | 430 | 1794 | 0.02% | 0.006% |
| 57 | 6.095 | 6.089 | 6.109 | VV | 365 | 3946 | 0.05% | 0.013% |
| 58 | 6.113 | 6.109 | 6.127 | VV | 409 | 3769 | 0.04% | 0.013% |
| 59 | 6.148 | 6.127 | 6.175 | VV | 4218 | 48632 | 0.56% | 0.163% |
| 60 | 6.190 | 6.175 | 6.212 | VV | 808 | 12101 | 0.14% | 0.040% |
| 61 | 6.230 | 6.212 | 6.250 | VV | 2093 | 24462 | 0.28% | 0.082% |
| 62 | 6.265 | 6.250 | 6.278 | VV | 1353 | 14682 | 0.17% | 0.049% |
| 63 | 6.296 | 6.278 | 6.317 | VV | 3433 | 39849 | 0.46% | 0.133% |
| 64 | 6.328 | 6.317 | 6.349 | VV | 1189 | 14581 | 0.17% | 0.049% |
| 65 | 6.368 | 6.349 | 6.390 | VV | 1990 | 21593 | 0.25% | 0.072% |
| 66 | 6.415 | 6.390 | 6.428 | VV | 579 | 8683 | 0.10% | 0.029% |
| 67 | 6.430 | 6.428 | 6.440 | VV | 436 | 2655 | 0.03% | 0.009% |
| 68 | 6.469 | 6.440 | 6.493 | VV | 537 | 12708 | 0.15% | 0.042% |
| 69 | 6.514 | 6.493 | 6.544 | VV | 558 | 11809 | 0.14% | 0.039% |
| 70 | 6.548 | 6.544 | 6.557 | VV | 269 | 1381 | 0.02% | 0.005% |
| 71 | 6.586 | 6.557 | 6.617 | PV | 2110 | 27397 | 0.32% | 0.092% |
| 72 | 6.639 | 6.617 | 6.674 | VV | 2661 | 49998 | 0.58% | 0.167% |
| 73 | 6.687 | 6.674 | 6.694 | VV | 1894 | 18892 | 0.22% | 0.063% |
| 74 | 6.702 | 6.694 | 6.733 | VV | 2060 | 25440 | 0.29% | 0.085% |
| 75 | 6.764 | 6.733 | 6.794 | VV | 3595 | 50941 | 0.59% | 0.170% |
| 76 | 6.803 | 6.794 | 6.814 | VV | 581 | 5509 | 0.06% | 0.018% |
| 77 | 6.839 | 6.814 | 6.855 | VV | 614 | 9839 | 0.11% | 0.033% |
| 78 | 6.867 | 6.855 | 6.886 | VV | 948 | 10209 | 0.12% | 0.034% |
| 79 | 6.891 | 6.886 | 6.895 | VV | 413 | 1572 | 0.02% | 0.005% |
| 80 | 6.923 | 6.895 | 6.961 | VV | 7497 | 87411 | 1.01% | 0.292% |
| 81 | 6.964 | 6.961 | 6.967 | VV | 409 | 1297 | 0.01% | 0.004% |
| 82 | 6.986 | 6.967 | 6.995 | VV | 1199 | 15040 | 0.17% | 0.050% |
| 83 | 7.001 | 6.995 | 7.016 | VV | 947 | 8894 | 0.10% | 0.030% |
| 84 | 7.031 | 7.016 | 7.044 | VV | 1321 | 15581 | 0.18% | 0.052% |
| 85 | 7.063 | 7.044 | 7.085 | VV | 1752 | 26928 | 0.31% | 0.090% |
| 86 | 7.101 | 7.085 | 7.110 | VV | 853 | 9620 | 0.11% | 0.032% |
| 87 | 7.126 | 7.110 | 7.141 | VV | 1447 | 18705 | 0.22% | 0.063% |
| 88 | 7.154 | 7.141 | 7.184 | VV | 1819 | 22939 | 0.26% | 0.077% |
| 89 | 7.225 | 7.184 | 7.246 | VV | 588 | 13499 | 0.16% | 0.045% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.272 | 7.246 | 7.290 | VV | 596 | 10566 | 0.12% | 0.035% |
| 91 | 7.323 | 7.290 | 7.335 | VV | 3243 | 39821 | 0.46% | 0.133% |
| 92 | 7.364 | 7.335 | 7.457 | VV | 889215 | 8688565 | 100.00% | 29.041% |
| 93 | 7.486 | 7.457 | 7.535 | VV | 1511 | 45170 | 0.52% | 0.151% |
| 94 | 7.546 | 7.535 | 7.559 | VV | 518 | 6158 | 0.07% | 0.021% |
| 95 | 7.585 | 7.559 | 7.609 | VV | 796 | 14036 | 0.16% | 0.047% |
| 96 | 7.627 | 7.609 | 7.654 | VV | 1535 | 19228 | 0.22% | 0.064% |
| 97 | 7.685 | 7.654 | 7.696 | VV | 578 | 9201 | 0.11% | 0.031% |
| 98 | 7.719 | 7.696 | 7.773 | VV | 860 | 22059 | 0.25% | 0.074% |
| 99 | 7.829 | 7.773 | 7.860 | VV | 1048 | 28061 | 0.32% | 0.094% |
| 100 | 7.930 | 7.860 | 7.952 | VV | 3513 | 62744 | 0.72% | 0.210% |
| 101 | 7.961 | 7.952 | 8.000 | VV | 1312 | 26564 | 0.31% | 0.089% |
| 102 | 8.037 | 8.000 | 8.060 | VV | 1649 | 46216 | 0.53% | 0.154% |
| 103 | 8.077 | 8.060 | 8.102 | VV | 1481 | 21517 | 0.25% | 0.072% |
| 104 | 8.121 | 8.102 | 8.140 | VV | 1008 | 14400 | 0.17% | 0.048% |
| 105 | 8.159 | 8.140 | 8.184 | VV | 1562 | 17937 | 0.21% | 0.060% |
| 106 | 8.214 | 8.184 | 8.262 | PV | 544882 | 5618965 | 64.67% | 18.781% |
| 107 | 8.273 | 8.262 | 8.337 | VV | 5711 | 140135 | 1.61% | 0.468% |
| 108 | 8.349 | 8.337 | 8.366 | VV | 1952 | 30226 | 0.35% | 0.101% |
| 109 | 8.386 | 8.366 | 8.402 | VV | 1844 | 33991 | 0.39% | 0.114% |
| 110 | 8.415 | 8.402 | 8.432 | VV | 1935 | 27122 | 0.31% | 0.091% |
| 111 | 8.439 | 8.432 | 8.449 | VV | 1330 | 13073 | 0.15% | 0.044% |
| 112 | 8.467 | 8.449 | 8.507 | VV | 2080 | 49023 | 0.56% | 0.164% |
| 113 | 8.527 | 8.507 | 8.557 | VV | 1375 | 22558 | 0.26% | 0.075% |
| 114 | 8.577 | 8.557 | 8.602 | VV | 1194 | 20040 | 0.23% | 0.067% |
| 115 | 8.648 | 8.602 | 8.672 | VV | 85638 | 885741 | 10.19% | 2.961% |
| 116 | 8.681 | 8.672 | 8.695 | VV | 2665 | 33657 | 0.39% | 0.112% |
| 117 | 8.712 | 8.695 | 8.730 | VV | 2949 | 48751 | 0.56% | 0.163% |
| 118 | 8.759 | 8.730 | 8.819 | VV | 5991 | 144320 | 1.66% | 0.482% |
| 119 | 8.830 | 8.819 | 8.855 | VV | 1716 | 24064 | 0.28% | 0.080% |
| 120 | 8.879 | 8.855 | 8.910 | VV | 1298 | 25642 | 0.30% | 0.086% |
| 121 | 8.926 | 8.910 | 8.947 | VV | 799 | 13631 | 0.16% | 0.046% |
| 122 | 8.962 | 8.947 | 9.007 | VV | 887 | 18830 | 0.22% | 0.063% |
| 123 | 9.028 | 9.007 | 9.039 | VV | 1101 | 14525 | 0.17% | 0.049% |
| 124 | 9.045 | 9.039 | 9.082 | VV | 1047 | 16668 | 0.19% | 0.056% |
| 125 | 9.106 | 9.082 | 9.155 | VV | 2747 | 45594 | 0.52% | 0.152% |
| 126 | 9.181 | 9.155 | 9.190 | VV | 706 | 8715 | 0.10% | 0.029% |
| 127 | 9.209 | 9.190 | 9.224 | VV | 706 | 11344 | 0.13% | 0.038% |
| 128 | 9.248 | 9.224 | 9.289 | VV | 1186 | 24964 | 0.29% | 0.083% |
| 129 | 9.348 | 9.289 | 9.362 | VV | 2099 | 39095 | 0.45% | 0.131% |
| 130 | 9.379 | 9.362 | 9.430 | VV | 14868 | 221635 | 2.55% | 0.741% |
| 131 | 9.456 | 9.430 | 9.500 | VV | 2333 | 50997 | 0.59% | 0.170% |
| 132 | 9.519 | 9.500 | 9.565 | VV | 2173 | 34481 | 0.40% | 0.115% |
| 133 | 9.591 | 9.565 | 9.650 | VV | 801 | 25282 | 0.29% | 0.085% |
| 134 | 9.667 | 9.650 | 9.677 | VV | 584 | 6681 | 0.08% | 0.022% |
| 135 | 9.687 | 9.677 | 9.710 | VV | 710 | 8019 | 0.09% | 0.027% |
| 136 | 9.726 | 9.710 | 9.755 | VV | 424 | 5123 | 0.06% | 0.017% |
| 137 | 9.792 | 9.755 | 9.810 | PV | 683 | 13345 | 0.15% | 0.045% |
| 138 | 9.837 | 9.810 | 9.854 | VV | 1108 | 19907 | 0.23% | 0.067% |
| 139 | 9.862 | 9.854 | 9.874 | VV | 761 | 6721 | 0.08% | 0.022% |
| 140 | 9.909 | 9.874 | 9.929 | VV | 1162 | 25802 | 0.30% | 0.086% |
| 141 | 9.941 | 9.929 | 9.965 | VV | 1020 | 19656 | 0.23% | 0.066% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 142 | 9.991 | 9.965 | 10.000 | VV | 886 | 15430 | 0.18% | 0.052% |
| 143 | 10.021 | 10.000 | 10.046 | VV | 3374 | 42601 | 0.49% | 0.142% |
| 144 | 10.090 | 10.046 | 10.129 | VV | 2221 | 63012 | 0.73% | 0.211% |
| 145 | 10.141 | 10.129 | 10.166 | VV | 1286 | 25035 | 0.29% | 0.084% |
| 146 | 10.206 | 10.166 | 10.236 | VV | 4002 | 88890 | 1.02% | 0.297% |
| 147 | 10.248 | 10.236 | 10.289 | VV | 1869 | 40518 | 0.47% | 0.135% |
| 148 | 10.307 | 10.289 | 10.319 | VV | 1393 | 19058 | 0.22% | 0.064% |
| 149 | 10.334 | 10.319 | 10.353 | VV | 2660 | 36903 | 0.42% | 0.123% |
| 150 | 10.376 | 10.353 | 10.410 | VV | 3243 | 61237 | 0.70% | 0.205% |
| 151 | 10.425 | 10.410 | 10.450 | VV | 1068 | 18653 | 0.21% | 0.062% |
| 152 | 10.471 | 10.450 | 10.490 | VV | 1170 | 20404 | 0.23% | 0.068% |
| 153 | 10.510 | 10.490 | 10.522 | VV | 1063 | 16537 | 0.19% | 0.055% |
| 154 | 10.544 | 10.522 | 10.604 | VV | 1466 | 52501 | 0.60% | 0.175% |
| 155 | 10.616 | 10.604 | 10.625 | VV | 938 | 11010 | 0.13% | 0.037% |
| 156 | 10.643 | 10.625 | 10.657 | VV | 1767 | 25817 | 0.30% | 0.086% |
| 157 | 10.673 | 10.657 | 10.694 | VV | 1896 | 28696 | 0.33% | 0.096% |
| 158 | 10.703 | 10.694 | 10.721 | VV | 832 | 9873 | 0.11% | 0.033% |
| 159 | 10.752 | 10.721 | 10.779 | VV | 893 | 19072 | 0.22% | 0.064% |
| 160 | 10.805 | 10.779 | 10.847 | VV | 596 | 14550 | 0.17% | 0.049% |
| 161 | 10.883 | 10.847 | 10.907 | VV | 1194 | 20738 | 0.24% | 0.069% |
| 162 | 10.922 | 10.907 | 10.936 | VV | 1720 | 21240 | 0.24% | 0.071% |
| 163 | 10.951 | 10.936 | 10.984 | VV | 2206 | 29043 | 0.33% | 0.097% |
| 164 | 11.029 | 10.984 | 11.079 | VV | 1608 | 39988 | 0.46% | 0.134% |
| 165 | 11.102 | 11.079 | 11.129 | VV | 862 | 13637 | 0.16% | 0.046% |
| 166 | 11.142 | 11.129 | 11.157 | VV | 506 | 5509 | 0.06% | 0.018% |
| 167 | 11.177 | 11.157 | 11.213 | VV | 726 | 11567 | 0.13% | 0.039% |
| 168 | 11.248 | 11.213 | 11.317 | PV | 401779 | 4266758 | 49.11% | 14.261% |
| 169 | 11.337 | 11.317 | 11.355 | VV | 1745 | 30143 | 0.35% | 0.101% |
| 170 | 11.370 | 11.355 | 11.394 | VV | 1431 | 22458 | 0.26% | 0.075% |
| 171 | 11.417 | 11.394 | 11.442 | VV | 1939 | 30923 | 0.36% | 0.103% |
| 172 | 11.465 | 11.442 | 11.485 | VV | 695 | 12044 | 0.14% | 0.040% |
| 173 | 11.497 | 11.485 | 11.508 | VV | 669 | 7756 | 0.09% | 0.026% |
| 174 | 11.541 | 11.508 | 11.550 | VV | 734 | 15276 | 0.18% | 0.051% |
| 175 | 11.603 | 11.550 | 11.630 | VV | 3508 | 79818 | 0.92% | 0.267% |
| 176 | 11.670 | 11.630 | 11.692 | VV | 7773 | 106724 | 1.23% | 0.357% |
| 177 | 11.704 | 11.692 | 11.734 | VV | 1273 | 24782 | 0.29% | 0.083% |
| 178 | 11.751 | 11.734 | 11.759 | VV | 1269 | 15984 | 0.18% | 0.053% |
| 179 | 11.769 | 11.759 | 11.794 | VV | 1197 | 20154 | 0.23% | 0.067% |
| 180 | 11.831 | 11.794 | 11.844 | VV | 2495 | 48063 | 0.55% | 0.161% |
| 181 | 11.867 | 11.844 | 11.933 | VV | 42068 | 537275 | 6.18% | 1.796% |
| 182 | 11.944 | 11.933 | 11.990 | VV | 1233 | 32924 | 0.38% | 0.110% |
| 183 | 12.022 | 11.990 | 12.062 | VV | 1199 | 41369 | 0.48% | 0.138% |
| 184 | 12.120 | 12.062 | 12.144 | VV | 6947 | 124555 | 1.43% | 0.416% |
| 185 | 12.157 | 12.144 | 12.172 | VV | 1035 | 12989 | 0.15% | 0.043% |
| 186 | 12.193 | 12.172 | 12.215 | VV | 2107 | 29150 | 0.34% | 0.097% |
| 187 | 12.252 | 12.215 | 12.282 | VV | 3048 | 46613 | 0.54% | 0.156% |
| 188 | 12.312 | 12.282 | 12.360 | VV | 2443 | 49656 | 0.57% | 0.166% |
| 189 | 12.383 | 12.360 | 12.407 | VV | 870 | 13670 | 0.16% | 0.046% |
| 190 | 12.419 | 12.407 | 12.445 | VV | 326 | 3791 | 0.04% | 0.013% |
| 191 | 12.510 | 12.445 | 12.560 | PV | 856 | 29830 | 0.34% | 0.100% |
| 192 | 12.615 | 12.560 | 12.637 | VV | 3333 | 57230 | 0.66% | 0.191% |
| 193 | 12.691 | 12.637 | 12.724 | VV | 87580 | 1043583 | 12.01% | 3.488% |
| 194 | 12.736 | 12.724 | 12.774 | VV | 950 | 25064 | 0.29% | 0.084% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 12.781 | 12.774 | 12.802 | VV | 754 | 10700 | 0.12% | 0.036% |
| 196 | 12.825 | 12.802 | 12.835 | VV | 651 | 11149 | 0.13% | 0.037% |
| 197 | 12.857 | 12.835 | 12.870 | VV | 1068 | 15867 | 0.18% | 0.053% |
| 198 | 12.915 | 12.870 | 12.954 | VV | 4975 | 98424 | 1.13% | 0.329% |
| 199 | 12.974 | 12.954 | 13.035 | VV | 1078 | 38387 | 0.44% | 0.128% |
| 200 | 13.090 | 13.035 | 13.180 | VV | 16956 | 294355 | 3.39% | 0.984% |
| 201 | 13.193 | 13.180 | 13.227 | VV | 1038 | 22185 | 0.26% | 0.074% |
| 202 | 13.235 | 13.227 | 13.244 | VV | 655 | 6579 | 0.08% | 0.022% |
| 203 | 13.270 | 13.244 | 13.302 | VV | 1060 | 30702 | 0.35% | 0.103% |
| 204 | 13.318 | 13.302 | 13.341 | VV | 1366 | 22995 | 0.26% | 0.077% |
| 205 | 13.356 | 13.341 | 13.370 | VV | 957 | 14160 | 0.16% | 0.047% |
| 206 | 13.391 | 13.370 | 13.422 | VV | 1940 | 35098 | 0.40% | 0.117% |
| 207 | 13.444 | 13.422 | 13.491 | VV | 2550 | 42336 | 0.49% | 0.142% |
| 208 | 13.501 | 13.491 | 13.519 | VV | 466 | 6685 | 0.08% | 0.022% |
| 209 | 13.535 | 13.519 | 13.555 | VV | 403 | 5494 | 0.06% | 0.018% |
| 210 | 13.573 | 13.555 | 13.587 | PV | 317 | 3419 | 0.04% | 0.011% |
| 211 | 13.620 | 13.587 | 13.639 | VV | 394 | 8525 | 0.10% | 0.028% |
| 212 | 13.661 | 13.639 | 13.672 | VV | 484 | 7118 | 0.08% | 0.024% |
| 213 | 13.687 | 13.672 | 13.708 | VV | 544 | 8891 | 0.10% | 0.030% |
| 214 | 13.733 | 13.708 | 13.766 | VV | 452 | 11837 | 0.14% | 0.040% |
| 215 | 13.776 | 13.766 | 13.794 | VV | 435 | 5132 | 0.06% | 0.017% |
| 216 | 13.803 | 13.794 | 13.816 | VV | 479 | 4925 | 0.06% | 0.016% |
| 217 | 13.837 | 13.816 | 13.852 | VV | 810 | 13760 | 0.16% | 0.046% |
| 218 | 13.876 | 13.852 | 13.957 | VV | 2159 | 55822 | 0.64% | 0.187% |
| 219 | 14.002 | 13.957 | 14.030 | VV | 831 | 24052 | 0.28% | 0.080% |
| 220 | 14.035 | 14.030 | 14.057 | VV | 491 | 5719 | 0.07% | 0.019% |
| 221 | 14.085 | 14.057 | 14.119 | VV | 955 | 26575 | 0.31% | 0.089% |
| 222 | 14.169 | 14.119 | 14.190 | VV | 1289 | 41101 | 0.47% | 0.137% |
| 223 | 14.212 | 14.190 | 14.249 | VV | 3695 | 54778 | 0.63% | 0.183% |
| 224 | 14.256 | 14.249 | 14.277 | VV | 720 | 10620 | 0.12% | 0.035% |
| 225 | 14.302 | 14.277 | 14.330 | VV | 1019 | 23929 | 0.28% | 0.080% |
| 226 | 14.346 | 14.330 | 14.366 | VV | 955 | 14416 | 0.17% | 0.048% |
| 227 | 14.386 | 14.366 | 14.434 | VV | 1001 | 23132 | 0.27% | 0.077% |
| 228 | 14.500 | 14.434 | 14.520 | VV | 2446 | 49049 | 0.56% | 0.164% |
| 229 | 14.541 | 14.520 | 14.616 | VV | 3339 | 74474 | 0.86% | 0.249% |
| 230 | 14.637 | 14.616 | 14.665 | VV | 493 | 10062 | 0.12% | 0.034% |
| 231 | 14.715 | 14.665 | 14.764 | VV | 750 | 23320 | 0.27% | 0.078% |
| 232 | 14.777 | 14.764 | 14.815 | VV | 306 | 7051 | 0.08% | 0.024% |
| 233 | 14.843 | 14.815 | 14.852 | VV | 319 | 3966 | 0.05% | 0.013% |
| 234 | 14.918 | 14.852 | 15.010 | VV | 16464 | 353821 | 4.07% | 1.183% |
| 235 | 15.023 | 15.010 | 15.039 | VV | 1188 | 17694 | 0.20% | 0.059% |
| 236 | 15.070 | 15.039 | 15.098 | VV | 6994 | 101638 | 1.17% | 0.340% |
| 237 | 15.109 | 15.098 | 15.129 | VV | 653 | 9501 | 0.11% | 0.032% |
| 238 | 15.153 | 15.129 | 15.172 | VV | 869 | 14973 | 0.17% | 0.050% |
| 239 | 15.200 | 15.172 | 15.218 | VV | 675 | 15252 | 0.18% | 0.051% |
| 240 | 15.234 | 15.218 | 15.242 | VV | 601 | 7880 | 0.09% | 0.026% |
| 241 | 15.254 | 15.242 | 15.319 | VV | 857 | 24221 | 0.28% | 0.081% |
| 242 | 15.373 | 15.319 | 15.423 | VV | 1077 | 50073 | 0.58% | 0.167% |
| 243 | 15.436 | 15.423 | 15.479 | VV | 1050 | 26019 | 0.30% | 0.087% |
| 244 | 15.517 | 15.479 | 15.535 | VV | 1307 | 24590 | 0.28% | 0.082% |
| 245 | 15.557 | 15.535 | 15.585 | VV | 2744 | 45179 | 0.52% | 0.151% |
| 246 | 15.608 | 15.585 | 15.680 | VV | 1193 | 30544 | 0.35% | 0.102% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 15.711 | 15.680 | 15.740 | PV | 905 | 18019 | 0.21% | 0.060% |
| 248 | 15.767 | 15.740 | 15.808 | VV | 671 | 16675 | 0.19% | 0.056% |
| 249 | 15.847 | 15.808 | 15.862 | VV | 354 | 5785 | 0.07% | 0.019% |
| 250 | 15.875 | 15.862 | 15.884 | PV | 303 | 2047 | 0.02% | 0.007% |
| 251 | 15.927 | 15.884 | 15.997 | VV | 3389 | 88588 | 1.02% | 0.296% |
| 252 | 16.036 | 15.997 | 16.075 | VV | 1980 | 49322 | 0.57% | 0.165% |
| 253 | 16.110 | 16.075 | 16.137 | VV | 1896 | 35874 | 0.41% | 0.120% |
| 254 | 16.168 | 16.137 | 16.190 | VV | 1451 | 27518 | 0.32% | 0.092% |
| 255 | 16.240 | 16.190 | 16.277 | VV | 879 | 36599 | 0.42% | 0.122% |
| 256 | 16.286 | 16.277 | 16.295 | VV | 691 | 6833 | 0.08% | 0.023% |
| 257 | 16.318 | 16.295 | 16.330 | VV | 1314 | 20029 | 0.23% | 0.067% |
| 258 | 16.355 | 16.330 | 16.379 | VV | 5660 | 84743 | 0.98% | 0.283% |
| 259 | 16.413 | 16.379 | 16.445 | VV | 3496 | 79083 | 0.91% | 0.264% |
| 260 | 16.475 | 16.445 | 16.492 | VV | 4192 | 72018 | 0.83% | 0.241% |
| 261 | 16.500 | 16.492 | 16.519 | VV | 2925 | 35381 | 0.41% | 0.118% |
| 262 | 16.544 | 16.519 | 16.624 | VV | 15877 | 250284 | 2.88% | 0.837% |
| 263 | 16.632 | 16.624 | 16.675 | VV | 531 | 10016 | 0.12% | 0.033% |
| 264 | 16.704 | 16.675 | 16.743 | VV | 433 | 8523 | 0.10% | 0.028% |
| 265 | 16.805 | 16.743 | 16.837 | PV | 1068 | 27122 | 0.31% | 0.091% |
| 266 | 16.869 | 16.837 | 16.919 | VV | 2408 | 59314 | 0.68% | 0.198% |
| 267 | 16.948 | 16.919 | 16.997 | VV | 2469 | 49727 | 0.57% | 0.166% |
| 268 | 17.066 | 16.997 | 17.109 | VV | 5947 | 118040 | 1.36% | 0.395% |
| 269 | 17.127 | 17.109 | 17.140 | VV | 437 | 6150 | 0.07% | 0.021% |
| 270 | 17.172 | 17.140 | 17.211 | VV | 705 | 22750 | 0.26% | 0.076% |
| 271 | 17.241 | 17.211 | 17.291 | VV | 2084 | 43264 | 0.50% | 0.145% |
| 272 | 17.316 | 17.291 | 17.329 | VV | 779 | 12708 | 0.15% | 0.042% |
| 273 | 17.357 | 17.329 | 17.366 | VV | 1951 | 30453 | 0.35% | 0.102% |
| 274 | 17.382 | 17.366 | 17.412 | VV | 3009 | 45967 | 0.53% | 0.154% |
| 275 | 17.472 | 17.412 | 17.500 | VV | 2205 | 46076 | 0.53% | 0.154% |
| 276 | 17.510 | 17.500 | 17.524 | VV | 659 | 7823 | 0.09% | 0.026% |
| 277 | 17.553 | 17.524 | 17.633 | VV | 4735 | 103714 | 1.19% | 0.347% |
| 278 | 17.679 | 17.633 | 17.717 | VV | 12314 | 288882 | 3.32% | 0.966% |
| 279 | 17.739 | 17.717 | 17.780 | VV | 11083 | 231247 | 2.66% | 0.773% |
| 280 | 17.804 | 17.780 | 17.869 | VV | 4730 | 108463 | 1.25% | 0.363% |
| 281 | 17.886 | 17.869 | 17.967 | VV | 1252 | 28085 | 0.32% | 0.094% |
| 282 | 18.043 | 17.967 | 18.072 | VV | 1725 | 43575 | 0.50% | 0.146% |
| 283 | 18.087 | 18.072 | 18.105 | VV | 418 | 7160 | 0.08% | 0.024% |
| 284 | 18.115 | 18.105 | 18.129 | VV | 277 | 2866 | 0.03% | 0.010% |
| 285 | 18.159 | 18.129 | 18.190 | PV | 1089 | 19762 | 0.23% | 0.066% |

Sum of corrected areas: 29918028

Aromatic EPH 111424.M Tue Nov 19 11:06:38 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067816.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 08:37
Operator : YP/AJ
Sample : P4860-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-004

Integration File: sample.E
Quant Time: Nov 19 10:47:33 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... | 12.940 | 3785982 | 26.081 ug/ml |
| Spiked Amount 50.000 | | Recovery = 52.16% | |
| Target Compounds | | | |

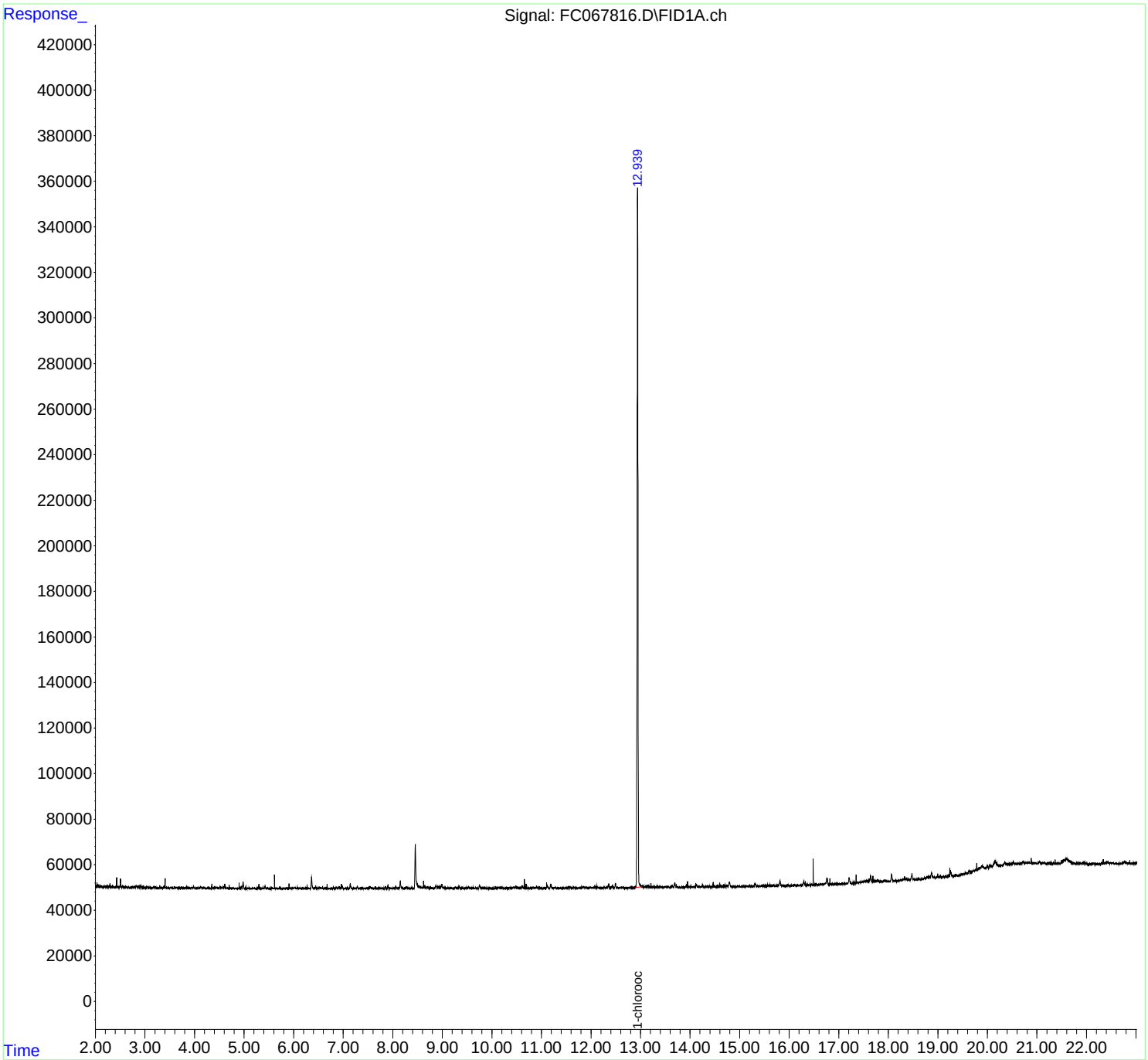
(f)=RT Delta > 1/2 Window (m)=manual int.

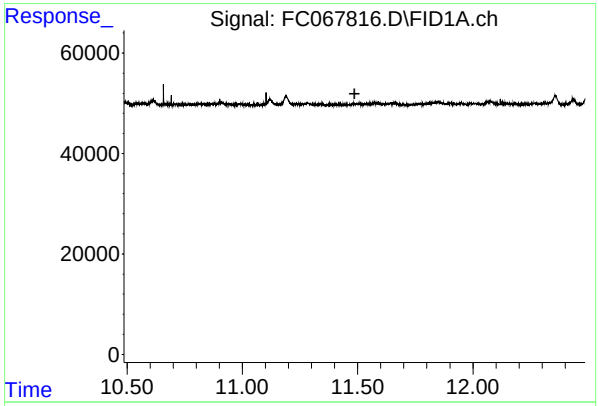
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067816.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 08:37
Operator : YP/AJ
Sample : P4860-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-004

Integration File: sample.E
Quant Time: Nov 19 10:47:33 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

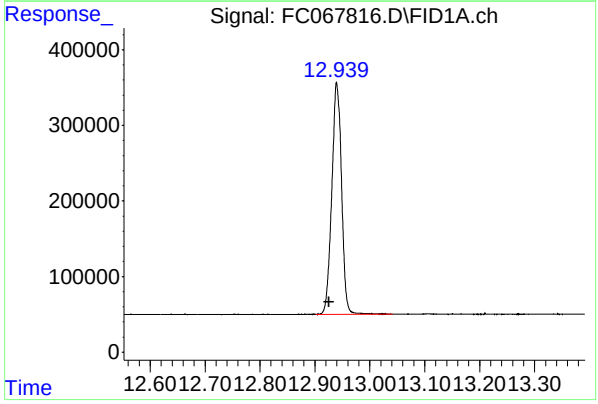





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-004




#12 1-chlorooctadecane (SURR)

R.T.: 12.940 min
Delta R.T.: 0.014 min
Response: 3785982
Conc: 26.08 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067816.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 08:37
Sample : P4860-05
Misc :
ALS Vial : 26 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 | 3.262 | 3.225 | 3.275 | BV | 53 | 263 | 0.01% | 0.003% |
| 2 | 3.298 | 3.275 | 3.312 | PV | 253 | 2803 | 0.07% | 0.027% |
| 3 | 3.329 | 3.312 | 3.341 | PV | 94 | 1335 | 0.03% | 0.013% |
| 4 | 3.351 | 3.341 | 3.365 | VV | 63 | 763 | 0.02% | 0.007% |
| 5 | 3.371 | 3.365 | 3.396 | VV | 93 | 1843 | 0.05% | 0.018% |
| 6 | 3.408 | 3.396 | 3.462 | VV | 1414 | 4807 | 0.13% | 0.047% |
| 7 | 3.489 | 3.462 | 3.525 | VV | 125 | 2640 | 0.07% | 0.026% |
| 8 | 3.532 | 3.525 | 3.545 | VV | 97 | 1052 | 0.03% | 0.010% |
| 9 | 3.561 | 3.545 | 3.576 | VV | 162 | 1771 | 0.05% | 0.017% |
| 10 | 3.608 | 3.576 | 3.631 | VV | 247 | 3944 | 0.10% | 0.038% |
| 11 | 3.661 | 3.631 | 3.732 | VV | 301 | 4666 | 0.12% | 0.045% |
| 12 | 3.741 | 3.732 | 3.801 | VV | 109 | 3116 | 0.08% | 0.030% |
| 13 | 3.810 | 3.801 | 3.825 | VV | 126 | 1138 | 0.03% | 0.011% |
| 14 | 3.833 | 3.825 | 3.855 | VV | 125 | 1600 | 0.04% | 0.015% |
| 15 | 3.868 | 3.855 | 3.918 | VV | 123 | 2457 | 0.06% | 0.024% |
| 16 | 3.952 | 3.918 | 3.964 | VV | 330 | 4749 | 0.12% | 0.046% |
| 17 | 3.980 | 3.964 | 4.027 | VV | 668 | 7958 | 0.21% | 0.077% |
| 18 | 4.048 | 4.027 | 4.061 | VV | 156 | 1598 | 0.04% | 0.015% |
| 19 | 4.064 | 4.061 | 4.085 | VV | 95 | 905 | 0.02% | 0.009% |
| 20 | 4.099 | 4.085 | 4.107 | VV | 152 | 1701 | 0.04% | 0.016% |
| 21 | 4.128 | 4.107 | 4.167 | VV | 608 | 8783 | 0.23% | 0.085% |
| 22 | 4.274 | 4.167 | 4.313 | VV | 432 | 12867 | 0.34% | 0.125% |
| 23 | 4.351 | 4.313 | 4.381 | VV | 1043 | 11379 | 0.30% | 0.110% |
| 24 | 4.393 | 4.381 | 4.431 | VV | 299 | 5992 | 0.16% | 0.058% |
| 25 | 4.461 | 4.431 | 4.489 | VV | 362 | 8883 | 0.23% | 0.086% |
| 26 | 4.517 | 4.489 | 4.541 | VV | 888 | 12625 | 0.33% | 0.122% |
| 27 | 4.549 | 4.541 | 4.557 | VV | 246 | 2200 | 0.06% | 0.021% |
| 28 | 4.573 | 4.557 | 4.587 | VV | 613 | 7177 | 0.19% | 0.069% |
| 29 | 4.604 | 4.587 | 4.648 | VV | 1097 | 16197 | 0.42% | 0.157% |
| 30 | 4.656 | 4.648 | 4.681 | VV | 198 | 3288 | 0.09% | 0.032% |
| 31 | 4.698 | 4.681 | 4.709 | VV | 597 | 3565 | 0.09% | 0.035% |
| 32 | 4.721 | 4.709 | 4.782 | VV | 254 | 7066 | 0.18% | 0.068% |
| 33 | 4.795 | 4.782 | 4.865 | VV | 171 | 5027 | 0.13% | 0.049% |
| 34 | 4.900 | 4.865 | 4.930 | PV | 523 | 6138 | 0.16% | 0.059% |
| 35 | 4.981 | 4.930 | 5.014 | VV | 3008 | 38391 | 1.00% | 0.372% |
| 36 | 5.038 | 5.014 | 5.081 | VV | 645 | 8986 | 0.23% | 0.087% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.104 | 5.081 | 5.121 | VV | 146 | 2363 | 0.06% | 0.023% |
| 38 | 5.129 | 5.121 | 5.134 | VV | 71 | 468 | 0.01% | 0.005% |
| 39 | 5.172 | 5.134 | 5.243 | VV | 200 | 7637 | 0.20% | 0.074% |
| 40 | 5.271 | 5.243 | 5.287 | VV | 308 | 3377 | 0.09% | 0.033% |
| 41 | 5.300 | 5.287 | 5.368 | VV | 1033 | 7916 | 0.21% | 0.077% |
| 42 | 5.384 | 5.368 | 5.405 | VV | 585 | 6618 | 0.17% | 0.064% |
| 43 | 5.424 | 5.405 | 5.464 | VV | 907 | 11333 | 0.30% | 0.110% |
| 44 | 5.481 | 5.464 | 5.529 | VV | 229 | 5821 | 0.15% | 0.056% |
| 45 | 5.547 | 5.529 | 5.637 | VV | 351 | 12264 | 0.32% | 0.119% |
| 46 | 5.672 | 5.637 | 5.705 | VV | 229 | 5764 | 0.15% | 0.056% |
| 47 | 5.715 | 5.705 | 5.765 | VV | 313 | 3477 | 0.09% | 0.034% |
| 48 | 5.805 | 5.765 | 5.817 | PV | 102 | 1908 | 0.05% | 0.018% |
| 49 | 5.847 | 5.817 | 5.883 | VV | 344 | 4819 | 0.13% | 0.047% |
| 50 | 5.907 | 5.883 | 5.961 | VV | 869 | 10000 | 0.26% | 0.097% |
| 51 | 5.978 | 5.961 | 6.006 | VV | 302 | 6050 | 0.16% | 0.059% |
| 52 | 6.022 | 6.006 | 6.051 | VV | 540 | 8864 | 0.23% | 0.086% |
| 53 | 6.071 | 6.051 | 6.115 | VV | 385 | 7969 | 0.21% | 0.077% |
| 54 | 6.157 | 6.115 | 6.176 | VV | 282 | 6283 | 0.16% | 0.061% |
| 55 | 6.199 | 6.176 | 6.225 | VV | 174 | 3172 | 0.08% | 0.031% |
| 56 | 6.248 | 6.225 | 6.268 | VV | 177 | 2758 | 0.07% | 0.027% |
| 57 | 6.273 | 6.268 | 6.337 | VV | 396 | 5920 | 0.15% | 0.057% |
| 58 | 6.363 | 6.337 | 6.418 | VV | 4987 | 58487 | 1.53% | 0.566% |
| 59 | 6.445 | 6.418 | 6.466 | VV | 633 | 9422 | 0.25% | 0.091% |
| 60 | 6.481 | 6.466 | 6.492 | VV | 307 | 3493 | 0.09% | 0.034% |
| 61 | 6.512 | 6.492 | 6.535 | VV | 863 | 10785 | 0.28% | 0.104% |
| 62 | 6.544 | 6.535 | 6.569 | VV | 336 | 4586 | 0.12% | 0.044% |
| 63 | 6.583 | 6.569 | 6.608 | VV | 516 | 6025 | 0.16% | 0.058% |
| 64 | 6.639 | 6.608 | 6.651 | VV | 171 | 3170 | 0.08% | 0.031% |
| 65 | 6.679 | 6.651 | 6.706 | VV | 732 | 6167 | 0.16% | 0.060% |
| 66 | 6.718 | 6.706 | 6.765 | VV | 194 | 3007 | 0.08% | 0.029% |
| 67 | 6.768 | 6.765 | 6.785 | VV | 97 | 714 | 0.02% | 0.007% |
| 68 | 6.803 | 6.785 | 6.837 | VV | 514 | 7293 | 0.19% | 0.071% |
| 69 | 6.856 | 6.837 | 6.885 | VV | 620 | 10549 | 0.28% | 0.102% |
| 70 | 6.905 | 6.885 | 6.950 | VV | 621 | 13389 | 0.35% | 0.130% |
| 71 | 6.983 | 6.950 | 7.004 | VV | 963 | 16415 | 0.43% | 0.159% |
| 72 | 7.021 | 7.004 | 7.043 | VV | 188 | 3079 | 0.08% | 0.030% |
| 73 | 7.061 | 7.043 | 7.070 | PV | 124 | 1839 | 0.05% | 0.018% |
| 74 | 7.089 | 7.070 | 7.113 | VV | 281 | 3938 | 0.10% | 0.038% |
| 75 | 7.144 | 7.113 | 7.168 | VV | 2264 | 25902 | 0.68% | 0.251% |
| 76 | 7.224 | 7.168 | 7.235 | VV | 306 | 8191 | 0.21% | 0.079% |
| 77 | 7.250 | 7.235 | 7.262 | VV | 354 | 4070 | 0.11% | 0.039% |
| 78 | 7.284 | 7.262 | 7.332 | VV | 1050 | 15352 | 0.40% | 0.149% |
| 79 | 7.346 | 7.332 | 7.362 | VV | 327 | 4137 | 0.11% | 0.040% |
| 80 | 7.375 | 7.362 | 7.424 | VV | 417 | 6114 | 0.16% | 0.059% |
| 81 | 7.439 | 7.424 | 7.475 | VV | 196 | 3407 | 0.09% | 0.033% |
| 82 | 7.545 | 7.475 | 7.588 | VV | 878 | 15903 | 0.41% | 0.154% |
| 83 | 7.595 | 7.588 | 7.611 | VV | 174 | 2466 | 0.06% | 0.024% |
| 84 | 7.648 | 7.611 | 7.661 | VV | 506 | 6123 | 0.16% | 0.059% |
| 85 | 7.666 | 7.661 | 7.675 | VV | 184 | 1167 | 0.03% | 0.011% |
| 86 | 7.704 | 7.675 | 7.738 | VV | 294 | 8623 | 0.22% | 0.083% |
| 87 | 7.740 | 7.738 | 7.791 | VV | 261 | 4571 | 0.12% | 0.044% |
| 88 | 7.808 | 7.791 | 7.824 | VV | 262 | 3141 | 0.08% | 0.030% |
| 89 | 7.849 | 7.824 | 7.877 | VV | 852 | 9292 | 0.24% | 0.090% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.905 | 7.877 | 7.928 | VV | 1147 | 13271 | 0.35% | 0.128% |
| 91 | 7.940 | 7.928 | 7.959 | VV | 174 | 2183 | 0.06% | 0.021% |
| 92 | 7.977 | 7.959 | 7.994 | VV | 192 | 2651 | 0.07% | 0.026% |
| 93 | 8.003 | 7.994 | 8.037 | VV | 126 | 2684 | 0.07% | 0.026% |
| 94 | 8.058 | 8.037 | 8.085 | VV | 481 | 6682 | 0.17% | 0.065% |
| 95 | 8.097 | 8.085 | 8.128 | VV | 263 | 3534 | 0.09% | 0.034% |
| 96 | 8.153 | 8.128 | 8.222 | VV | 3396 | 43824 | 1.14% | 0.424% |
| 97 | 8.261 | 8.222 | 8.283 | VV | 432 | 10849 | 0.28% | 0.105% |
| 98 | 8.300 | 8.283 | 8.324 | VV | 399 | 5840 | 0.15% | 0.057% |
| 99 | 8.345 | 8.324 | 8.364 | VV | 284 | 4354 | 0.11% | 0.042% |
| 100 | 8.383 | 8.364 | 8.431 | VV | 474 | 6225 | 0.16% | 0.060% |
| 101 | 8.456 | 8.431 | 8.591 | VV | 19424 | 298314 | 7.78% | 2.887% |
| 102 | 8.623 | 8.591 | 8.670 | VV | 1144 | 26576 | 0.69% | 0.257% |
| 103 | 8.691 | 8.670 | 8.736 | VV | 814 | 19921 | 0.52% | 0.193% |
| 104 | 8.754 | 8.736 | 8.784 | VV | 379 | 6393 | 0.17% | 0.062% |
| 105 | 8.803 | 8.784 | 8.829 | VV | 337 | 5486 | 0.14% | 0.053% |
| 106 | 8.871 | 8.829 | 8.891 | VV | 1553 | 23208 | 0.61% | 0.225% |
| 107 | 8.909 | 8.891 | 8.923 | VV | 803 | 12149 | 0.32% | 0.118% |
| 108 | 8.949 | 8.923 | 8.961 | VV | 609 | 12265 | 0.32% | 0.119% |
| 109 | 8.989 | 8.961 | 9.019 | VV | 1840 | 32633 | 0.85% | 0.316% |
| 110 | 9.027 | 9.019 | 9.043 | VV | 281 | 3591 | 0.09% | 0.035% |
| 111 | 9.059 | 9.043 | 9.087 | VV | 497 | 7196 | 0.19% | 0.070% |
| 112 | 9.110 | 9.087 | 9.130 | VV | 419 | 5778 | 0.15% | 0.056% |
| 113 | 9.160 | 9.130 | 9.177 | VV | 365 | 6141 | 0.16% | 0.059% |
| 114 | 9.191 | 9.177 | 9.201 | VV | 197 | 2532 | 0.07% | 0.025% |
| 115 | 9.274 | 9.201 | 9.314 | VV | 395 | 15910 | 0.42% | 0.154% |
| 116 | 9.338 | 9.314 | 9.374 | VV | 920 | 14046 | 0.37% | 0.136% |
| 117 | 9.391 | 9.374 | 9.426 | VV | 285 | 4889 | 0.13% | 0.047% |
| 118 | 9.436 | 9.426 | 9.452 | VV | 136 | 1721 | 0.04% | 0.017% |
| 119 | 9.479 | 9.452 | 9.510 | VV | 449 | 8223 | 0.21% | 0.080% |
| 120 | 9.532 | 9.510 | 9.581 | VV | 664 | 11633 | 0.30% | 0.113% |
| 121 | 9.587 | 9.581 | 9.599 | VV | 210 | 1509 | 0.04% | 0.015% |
| 122 | 9.622 | 9.599 | 9.648 | VV | 202 | 2746 | 0.07% | 0.027% |
| 123 | 9.672 | 9.648 | 9.725 | PV | 380 | 7075 | 0.18% | 0.068% |
| 124 | 9.751 | 9.725 | 9.776 | VV | 1356 | 17813 | 0.46% | 0.172% |
| 125 | 9.784 | 9.776 | 9.805 | VV | 232 | 2870 | 0.07% | 0.028% |
| 126 | 9.825 | 9.805 | 9.884 | VV | 336 | 10262 | 0.27% | 0.099% |
| 127 | 9.897 | 9.884 | 9.955 | VV | 199 | 5425 | 0.14% | 0.053% |
| 128 | 9.958 | 9.955 | 9.975 | PV | 175 | 454 | 0.01% | 0.004% |
| 129 | 10.005 | 9.975 | 10.013 | VV | 129 | 1515 | 0.04% | 0.015% |
| 130 | 10.030 | 10.013 | 10.043 | VV | 216 | 2496 | 0.07% | 0.024% |
| 131 | 10.062 | 10.043 | 10.105 | VV | 464 | 7281 | 0.19% | 0.070% |
| 132 | 10.144 | 10.105 | 10.165 | VV | 435 | 10206 | 0.27% | 0.099% |
| 133 | 10.183 | 10.165 | 10.203 | VV | 340 | 5688 | 0.15% | 0.055% |
| 134 | 10.226 | 10.203 | 10.248 | VV | 288 | 5243 | 0.14% | 0.051% |
| 135 | 10.264 | 10.248 | 10.289 | VV | 222 | 3387 | 0.09% | 0.033% |
| 136 | 10.311 | 10.289 | 10.324 | VV | 126 | 1822 | 0.05% | 0.018% |
| 137 | 10.348 | 10.324 | 10.365 | VV | 361 | 5305 | 0.14% | 0.051% |
| 138 | 10.381 | 10.365 | 10.401 | VV | 301 | 4748 | 0.12% | 0.046% |
| 139 | 10.428 | 10.401 | 10.454 | VV | 416 | 9499 | 0.25% | 0.092% |
| 140 | 10.489 | 10.454 | 10.528 | VV | 637 | 16092 | 0.42% | 0.156% |
| 141 | 10.544 | 10.528 | 10.554 | VV | 408 | 4598 | 0.12% | 0.045% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.568 | 10.554 | 10.588 | VV | 436 | 6463 | 0.17% | 0.063% |
| 143 | 10.614 | 10.588 | 10.655 | VV | 961 | 17674 | 0.46% | 0.171% |
| 144 | 10.658 | 10.655 | 10.666 | VV | 1570 | 3805 | 0.10% | 0.037% |
| 145 | 10.691 | 10.666 | 10.726 | VV | 833 | 7160 | 0.19% | 0.069% |
| 146 | 10.739 | 10.726 | 10.754 | VV | 132 | 1939 | 0.05% | 0.019% |
| 147 | 10.770 | 10.754 | 10.791 | VV | 193 | 2632 | 0.07% | 0.025% |
| 148 | 10.812 | 10.791 | 10.840 | VV | 304 | 6146 | 0.16% | 0.059% |
| 149 | 10.858 | 10.840 | 10.872 | VV | 338 | 4878 | 0.13% | 0.047% |
| 150 | 10.903 | 10.872 | 10.935 | VV | 612 | 12635 | 0.33% | 0.122% |
| 151 | 10.940 | 10.935 | 10.958 | VV | 267 | 2602 | 0.07% | 0.025% |
| 152 | 10.988 | 10.958 | 11.015 | VV | 239 | 5614 | 0.15% | 0.054% |
| 153 | 11.026 | 11.015 | 11.057 | VV | 189 | 2470 | 0.06% | 0.024% |
| 154 | 11.067 | 11.057 | 11.076 | VV | 259 | 977 | 0.03% | 0.009% |
| 155 | 11.119 | 11.076 | 11.155 | PV | 1206 | 19916 | 0.52% | 0.193% |
| 156 | 11.190 | 11.155 | 11.260 | VV | 1796 | 31205 | 0.81% | 0.302% |
| 157 | 11.282 | 11.260 | 11.325 | VV | 417 | 7928 | 0.21% | 0.077% |
| 158 | 11.344 | 11.325 | 11.370 | VV | 194 | 2981 | 0.08% | 0.029% |
| 159 | 11.404 | 11.370 | 11.442 | VV | 181 | 4060 | 0.11% | 0.039% |
| 160 | 11.482 | 11.442 | 11.492 | PV | 232 | 3580 | 0.09% | 0.035% |
| 161 | 11.505 | 11.492 | 11.522 | VV | 221 | 3504 | 0.09% | 0.034% |
| 162 | 11.575 | 11.522 | 11.620 | VV | 411 | 13339 | 0.35% | 0.129% |
| 163 | 11.645 | 11.620 | 11.698 | VV | 361 | 9786 | 0.26% | 0.095% |
| 164 | 11.850 | 11.698 | 11.888 | VV | 564 | 24200 | 0.63% | 0.234% |
| 165 | 11.904 | 11.888 | 11.930 | VV | 295 | 5272 | 0.14% | 0.051% |
| 166 | 11.946 | 11.930 | 11.972 | VV | 323 | 4635 | 0.12% | 0.045% |
| 167 | 11.991 | 11.972 | 12.035 | VV | 312 | 7689 | 0.20% | 0.074% |
| 168 | 12.075 | 12.035 | 12.125 | VV | 675 | 18194 | 0.47% | 0.176% |
| 169 | 12.138 | 12.125 | 12.165 | VV | 329 | 5317 | 0.14% | 0.051% |
| 170 | 12.181 | 12.165 | 12.215 | VV | 221 | 3751 | 0.10% | 0.036% |
| 171 | 12.226 | 12.215 | 12.244 | VV | 176 | 1861 | 0.05% | 0.018% |
| 172 | 12.267 | 12.244 | 12.284 | VV | 309 | 4597 | 0.12% | 0.044% |
| 173 | 12.308 | 12.284 | 12.321 | VV | 356 | 5316 | 0.14% | 0.051% |
| 174 | 12.358 | 12.321 | 12.387 | VV | 1825 | 26961 | 0.70% | 0.261% |
| 175 | 12.434 | 12.387 | 12.464 | VV | 1020 | 15956 | 0.42% | 0.154% |
| 176 | 12.495 | 12.464 | 12.541 | VV | 2108 | 28344 | 0.74% | 0.274% |
| 177 | 12.552 | 12.541 | 12.557 | VV | 143 | 1074 | 0.03% | 0.010% |
| 178 | 12.566 | 12.557 | 12.604 | VV | 171 | 3069 | 0.08% | 0.030% |
| 179 | 12.638 | 12.604 | 12.684 | VV | 186 | 4267 | 0.11% | 0.041% |
| 180 | 12.711 | 12.684 | 12.730 | VV | 118 | 1491 | 0.04% | 0.014% |
| 181 | 12.780 | 12.730 | 12.801 | PV | 226 | 5572 | 0.15% | 0.054% |
| 182 | 12.811 | 12.801 | 12.829 | VV | 152 | 1834 | 0.05% | 0.018% |
| 183 | 12.940 | 12.829 | 13.081 | VV | 300269 | 3832855 | 100.00% | 37.099% |
| 184 | 13.107 | 13.081 | 13.141 | VV | 695 | 18700 | 0.49% | 0.181% |
| 185 | 13.152 | 13.141 | 13.161 | VV | 682 | 5531 | 0.14% | 0.054% |
| 186 | 13.164 | 13.161 | 13.199 | VV | 520 | 7639 | 0.20% | 0.074% |
| 187 | 13.211 | 13.199 | 13.288 | VV | 842 | 14364 | 0.37% | 0.139% |
| 188 | 13.313 | 13.288 | 13.338 | VV | 442 | 10101 | 0.26% | 0.098% |
| 189 | 13.341 | 13.338 | 13.386 | VV | 522 | 9809 | 0.26% | 0.095% |
| 190 | 13.394 | 13.386 | 13.428 | VV | 439 | 6587 | 0.17% | 0.064% |
| 191 | 13.454 | 13.428 | 13.473 | VV | 208 | 4332 | 0.11% | 0.042% |
| 192 | 13.509 | 13.473 | 13.525 | VV | 264 | 6294 | 0.16% | 0.061% |
| 193 | 13.547 | 13.525 | 13.580 | VV | 339 | 7092 | 0.19% | 0.069% |
| 194 | 13.639 | 13.580 | 13.665 | VV | 886 | 16857 | 0.44% | 0.163% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.692 | 13.665 | 13.763 | VV | 2027 | 31869 | 0.83% | 0.308% |
| 196 | 13.780 | 13.763 | 13.792 | VV | 89 | 1377 | 0.04% | 0.013% |
| 197 | 13.798 | 13.792 | 13.805 | VV | 69 | 209 | 0.01% | 0.002% |
| 198 | 13.820 | 13.805 | 13.851 | PV | 80 | 1389 | 0.04% | 0.013% |
| 199 | 13.872 | 13.851 | 13.882 | VV | 108 | 1391 | 0.04% | 0.013% |
| 200 | 13.925 | 13.882 | 13.945 | VV | 616 | 6684 | 0.17% | 0.065% |
| 201 | 13.949 | 13.945 | 13.977 | VV | 739 | 4516 | 0.12% | 0.044% |
| 202 | 14.006 | 13.977 | 14.051 | VV | 213 | 5765 | 0.15% | 0.056% |
| 203 | 14.070 | 14.051 | 14.095 | VV | 179 | 3225 | 0.08% | 0.031% |
| 204 | 14.127 | 14.095 | 14.165 | VV | 1089 | 19390 | 0.51% | 0.188% |
| 205 | 14.182 | 14.165 | 14.203 | VV | 222 | 4226 | 0.11% | 0.041% |
| 206 | 14.218 | 14.203 | 14.227 | VV | 175 | 2262 | 0.06% | 0.022% |
| 207 | 14.253 | 14.227 | 14.294 | VV | 731 | 13791 | 0.36% | 0.133% |
| 208 | 14.316 | 14.294 | 14.325 | VV | 215 | 2664 | 0.07% | 0.026% |
| 209 | 14.391 | 14.325 | 14.438 | VV | 298 | 13778 | 0.36% | 0.133% |
| 210 | 14.466 | 14.438 | 14.511 | VV | 824 | 9993 | 0.26% | 0.097% |
| 211 | 14.520 | 14.511 | 14.533 | VV | 246 | 2903 | 0.08% | 0.028% |
| 212 | 14.598 | 14.533 | 14.675 | VV | 862 | 19790 | 0.52% | 0.192% |
| 213 | 14.679 | 14.675 | 14.728 | VV | 283 | 5147 | 0.13% | 0.050% |
| 214 | 14.748 | 14.728 | 14.768 | VV | 759 | 11358 | 0.30% | 0.110% |
| 215 | 14.793 | 14.768 | 14.888 | VV | 2124 | 40137 | 1.05% | 0.388% |
| 216 | 14.895 | 14.888 | 14.915 | VV | 135 | 1341 | 0.03% | 0.013% |
| 217 | 14.923 | 14.915 | 14.937 | PV | 83 | 887 | 0.02% | 0.009% |
| 218 | 14.965 | 14.937 | 14.988 | VV | 278 | 4647 | 0.12% | 0.045% |
| 219 | 14.994 | 14.988 | 15.019 | VV | 256 | 2407 | 0.06% | 0.023% |
| 220 | 15.061 | 15.019 | 15.095 | VV | 202 | 3496 | 0.09% | 0.034% |
| 221 | 15.107 | 15.095 | 15.175 | VV | 136 | 3246 | 0.08% | 0.031% |
| 222 | 15.225 | 15.175 | 15.255 | VV | 219 | 6507 | 0.17% | 0.063% |
| 223 | 15.262 | 15.255 | 15.282 | VV | 81 | 1359 | 0.04% | 0.013% |
| 224 | 15.312 | 15.282 | 15.385 | VV | 1289 | 21254 | 0.55% | 0.206% |
| 225 | 15.464 | 15.385 | 15.535 | PV | 268 | 7143 | 0.19% | 0.069% |
| 226 | 15.567 | 15.535 | 15.660 | VV | 327 | 9120 | 0.24% | 0.088% |
| 227 | 15.684 | 15.660 | 15.721 | VV | 382 | 4493 | 0.12% | 0.043% |
| 228 | 15.812 | 15.721 | 15.931 | VV | 2248 | 45603 | 1.19% | 0.441% |
| 229 | 15.972 | 15.931 | 16.058 | PV | 251 | 6215 | 0.16% | 0.060% |
| 230 | 16.122 | 16.058 | 16.147 | PV | 140 | 5404 | 0.14% | 0.052% |
| 231 | 16.165 | 16.147 | 16.221 | VV | 141 | 3721 | 0.10% | 0.036% |
| 232 | 16.294 | 16.221 | 16.355 | PV | 1713 | 30564 | 0.80% | 0.296% |
| 233 | 16.372 | 16.355 | 16.391 | VV | 126 | 2606 | 0.07% | 0.025% |
| 234 | 16.485 | 16.391 | 16.535 | VV | 3871 | 20730 | 0.54% | 0.201% |
| 235 | 16.551 | 16.535 | 16.570 | VV | 204 | 3520 | 0.09% | 0.034% |
| 236 | 16.644 | 16.570 | 16.671 | VV | 292 | 12963 | 0.34% | 0.125% |
| 237 | 16.760 | 16.671 | 16.841 | VV | 2465 | 59645 | 1.56% | 0.577% |
| 238 | 16.871 | 16.841 | 16.891 | VV | 259 | 4666 | 0.12% | 0.045% |
| 239 | 16.914 | 16.891 | 16.951 | PV | 113 | 4163 | 0.11% | 0.040% |
| 240 | 16.989 | 16.951 | 17.016 | VV | 217 | 4861 | 0.13% | 0.047% |
| 241 | 17.058 | 17.016 | 17.126 | VV | 159 | 8635 | 0.23% | 0.084% |
| 242 | 17.155 | 17.126 | 17.181 | PV | 245 | 4569 | 0.12% | 0.044% |
| 243 | 17.209 | 17.181 | 17.268 | VV | 2699 | 40348 | 1.05% | 0.391% |
| 244 | 17.312 | 17.268 | 17.335 | VV | 327 | 8573 | 0.22% | 0.083% |
| 245 | 17.352 | 17.335 | 17.578 | VV | 1280 | 69857 | 1.82% | 0.676% |
| 246 | 17.644 | 17.578 | 17.736 | VV | 2990 | 93197 | 2.43% | 0.902% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 17.778 | 17.736 | 17.891 | VV | 743 | 40632 | 1.06% | 0.393% |
| 248 | 17.928 | 17.891 | 18.031 | VV | 449 | 24877 | 0.65% | 0.241% |
| 249 | 18.066 | 18.031 | 18.121 | VV | 3115 | 49755 | 1.30% | 0.482% |
| 250 | 18.146 | 18.121 | 18.178 | VV | 354 | 5934 | 0.15% | 0.057% |
| 251 | 18.331 | 18.178 | 18.424 | PV | 1088 | 50052 | 1.31% | 0.484% |
| 252 | 18.476 | 18.424 | 18.551 | VV | 2464 | 49282 | 1.29% | 0.477% |
| 253 | 18.566 | 18.551 | 18.586 | VV | 166 | 2370 | 0.06% | 0.023% |
| 254 | 18.616 | 18.586 | 18.646 | PV | 217 | 4077 | 0.11% | 0.039% |
| 255 | 18.781 | 18.646 | 18.801 | VV | 639 | 28017 | 0.73% | 0.271% |
| 256 | 18.872 | 18.801 | 18.940 | VV | 2246 | 69577 | 1.82% | 0.673% |
| 257 | 19.045 | 18.940 | 19.095 | VV | 612 | 30712 | 0.80% | 0.297% |
| 258 | 19.114 | 19.095 | 19.145 | VV | 206 | 3901 | 0.10% | 0.038% |
| 259 | 19.258 | 19.145 | 19.320 | PV | 1998 | 52329 | 1.37% | 0.506% |
| 260 | 19.359 | 19.320 | 19.381 | VV | 517 | 7769 | 0.20% | 0.075% |
| 261 | 19.560 | 19.381 | 19.598 | VV | 1060 | 71595 | 1.87% | 0.693% |
| 262 | 19.633 | 19.598 | 19.658 | VV | 1920 | 46953 | 1.23% | 0.454% |
| 263 | 19.896 | 19.658 | 19.965 | VV | 3444 | 402922 | 10.51% | 3.900% |
| 264 | 19.997 | 19.965 | 20.021 | VV | 3287 | 93685 | 2.44% | 0.907% |
| 265 | 20.055 | 20.021 | 20.078 | VV | 3148 | 98890 | 2.58% | 0.957% |
| 266 | 20.154 | 20.078 | 20.235 | VV | 4816 | 343674 | 8.97% | 3.326% |
| 267 | 20.352 | 20.235 | 20.418 | VV | 3969 | 363972 | 9.50% | 3.523% |
| 268 | 20.524 | 20.418 | 20.576 | VV | 3823 | 314460 | 8.20% | 3.044% |
| 269 | 20.607 | 20.576 | 20.638 | VV | 3147 | 114555 | 2.99% | 1.109% |
| 270 | 20.720 | 20.638 | 20.771 | VV | 3830 | 259083 | 6.76% | 2.508% |
| 271 | 20.806 | 20.771 | 20.875 | VV | 3150 | 184906 | 4.82% | 1.790% |
| 272 | 20.885 | 20.875 | 20.991 | VV | 3441 | 186710 | 4.87% | 1.807% |
| 273 | 21.048 | 20.991 | 21.091 | VV | 2885 | 155766 | 4.06% | 1.508% |
| 274 | 21.133 | 21.091 | 21.211 | VV | 2639 | 162204 | 4.23% | 1.570% |
| 275 | 21.255 | 21.211 | 21.281 | VV | 2032 | 83083 | 2.17% | 0.804% |
| 276 | 21.284 | 21.281 | 21.342 | VV | 2282 | 65692 | 1.71% | 0.636% |
| 277 | 21.368 | 21.342 | 21.405 | VV | 2022 | 63567 | 1.66% | 0.615% |
| 278 | 21.599 | 21.405 | 21.765 | VV | 3285 | 436121 | 11.38% | 4.221% |
| 279 | 21.785 | 21.765 | 21.803 | VV | 999 | 22152 | 0.58% | 0.214% |
| 280 | 21.838 | 21.803 | 21.918 | VV | 950 | 60029 | 1.57% | 0.581% |
| 281 | 21.959 | 21.918 | 22.058 | VV | 757 | 41763 | 1.09% | 0.404% |

Sum of corrected areas: 10331535

Aliphatic EPH 111424.M Tue Nov 19 10:55:00 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048775.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 08:37
Operator : YP/AJ
Sample : P4860-05
Misc :
ALS Vial : 76 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-004

Integration File: sample.E
Quant Time: Nov 19 10:59:50 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 | 10224205 | 58.073 ug/ml |
| Spiked Amount 50.000 | | Recovery = 116.15% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.216 | 6451850 | 56.020 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 112.04% | |
| 11) S ortho-Terphenyl (SURR) | 11.251 | 6203268 | 32.252 ug/ml |
| Spiked Amount 50.000 | | Recovery = 64.50% | |
| **Target Compounds** | | | |

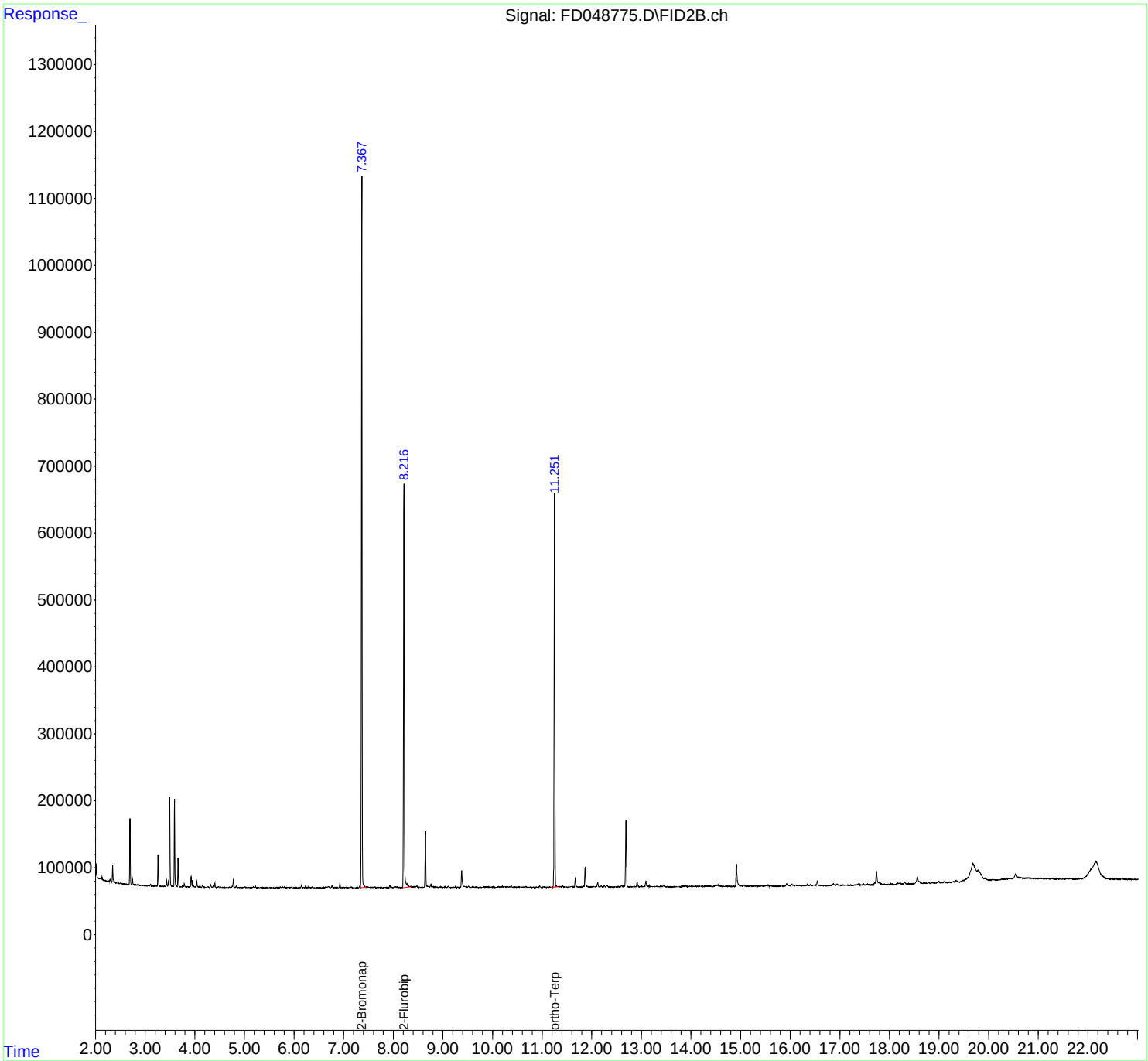
(f)=RT Delta > 1/2 Window (m)=manual int.

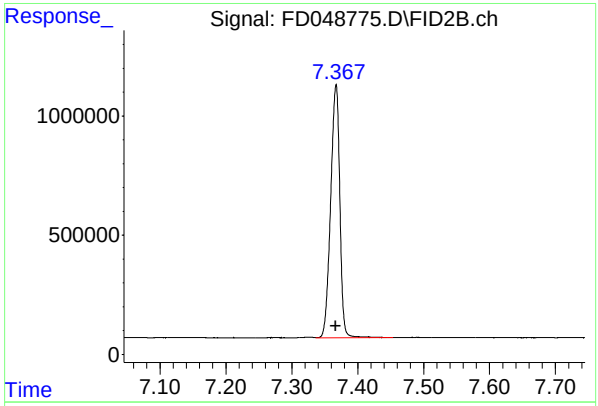
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048775.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 08:37
Operator : YP/AJ
Sample : P4860-05
Misc :
ALS Vial : 76 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-004

Integration File: sample.E
Quant Time: Nov 19 10:59:50 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

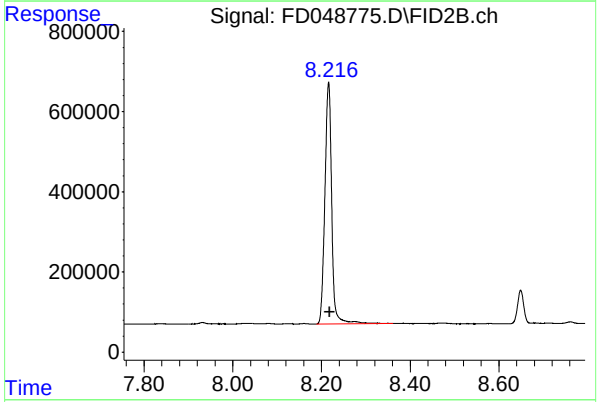





#4 2-Bromonaphthalene (SURR)

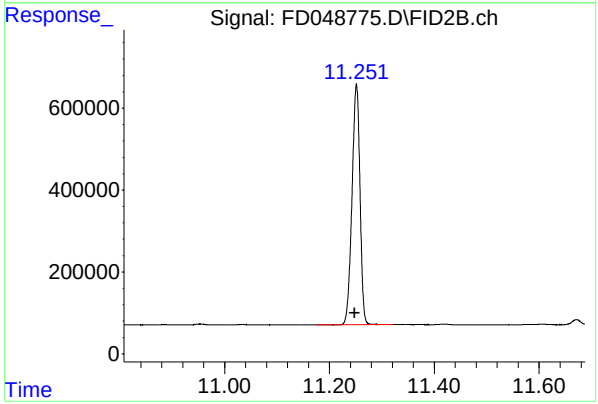
R.T.: 7.367 min
Delta R.T.: 0.000 min
Response: 10224205
Conc: 58.07 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-004




#6 2-Flurobiphenyl (SURR)

R.T.: 8.216 min
Delta R.T.: -0.002 min
Response: 6451850
Conc: 56.02 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.251 min
Delta R.T.: 0.003 min
Response: 6203268
Conc: 32.25 ug/ml

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048775.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 08:37
Sample : P4860-05
Misc :
ALS Vial : 76 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 | 4.110 | 4.095 | 4.138 | PV | 528 | 3771 | 0.04% | 0.011% |
| 2 | 4.157 | 4.138 | 4.182 | PV | 3020 | 28656 | 0.28% | 0.086% |
| 3 | 4.186 | 4.182 | 4.223 | VV | 275 | 1989 | 0.02% | 0.006% |
| 4 | 4.267 | 4.244 | 4.289 | VV | 1313 | 14258 | 0.14% | 0.043% |
| 5 | 4.320 | 4.289 | 4.341 | PV | 4213 | 46256 | 0.45% | 0.140% |
| 6 | 4.351 | 4.341 | 4.358 | VV | 562 | 4536 | 0.04% | 0.014% |
| 7 | 4.376 | 4.358 | 4.390 | VV | 3069 | 30363 | 0.30% | 0.092% |
| 8 | 4.405 | 4.390 | 4.445 | VV | 5979 | 57746 | 0.56% | 0.174% |
| 9 | 4.476 | 4.445 | 4.508 | VV | 1435 | 20050 | 0.20% | 0.060% |
| 10 | 4.520 | 4.508 | 4.545 | VV | 619 | 6802 | 0.07% | 0.021% |
| 11 | 4.561 | 4.556 | 4.575 | VV | 183 | 1268 | 0.01% | 0.004% |
| 12 | 4.591 | 4.575 | 4.624 | PV | 885 | 10893 | 0.11% | 0.033% |
| 13 | 4.636 | 4.624 | 4.646 | VV | 416 | 2366 | 0.02% | 0.007% |
| 14 | 4.655 | 4.646 | 4.670 | VV | 200 | 2074 | 0.02% | 0.006% |
| 15 | 4.699 | 4.670 | 4.715 | VV | 918 | 11539 | 0.11% | 0.035% |
| 16 | 4.719 | 4.715 | 4.734 | VV | 530 | 4478 | 0.04% | 0.014% |
| 17 | 4.756 | 4.734 | 4.762 | VV | 2241 | 21766 | 0.21% | 0.066% |
| 18 | 4.778 | 4.762 | 4.811 | VV | 11824 | 133798 | 1.30% | 0.404% |
| 19 | 4.834 | 4.811 | 4.867 | VV | 2343 | 28332 | 0.28% | 0.085% |
| 20 | 4.872 | 4.867 | 4.877 | VV | 235 | 1423 | 0.01% | 0.004% |
| 21 | 4.882 | 4.877 | 4.901 | VV | 393 | 3870 | 0.04% | 0.012% |
| 22 | 4.913 | 4.901 | 4.927 | VV | 328 | 3672 | 0.04% | 0.011% |
| 23 | 4.929 | 4.927 | 4.935 | VV | 347 | 1510 | 0.01% | 0.005% |
| 24 | 4.937 | 4.935 | 4.941 | VV | 389 | 1087 | 0.01% | 0.003% |
| 25 | 4.945 | 4.941 | 4.957 | VV | 395 | 2686 | 0.03% | 0.008% |
| 26 | 4.967 | 4.957 | 4.986 | VV | 704 | 6993 | 0.07% | 0.021% |
| 27 | 5.011 | 4.986 | 5.043 | PV | 1584 | 22945 | 0.22% | 0.069% |
| 28 | 5.060 | 5.043 | 5.081 | VV | 526 | 8555 | 0.08% | 0.026% |
| 29 | 5.102 | 5.081 | 5.116 | VV | 560 | 6966 | 0.07% | 0.021% |
| 30 | 5.145 | 5.116 | 5.155 | VV | 753 | 10516 | 0.10% | 0.032% |
| 31 | 5.180 | 5.155 | 5.198 | VV | 1863 | 22362 | 0.22% | 0.067% |
| 32 | 5.219 | 5.198 | 5.244 | VV | 3594 | 38337 | 0.37% | 0.116% |
| 33 | 5.253 | 5.244 | 5.260 | VV | 396 | 2904 | 0.03% | 0.009% |
| 34 | 5.275 | 5.260 | 5.303 | VV | 847 | 11502 | 0.11% | 0.035% |
| 35 | 5.322 | 5.303 | 5.339 | VV | 496 | 8332 | 0.08% | 0.025% |
| 36 | 5.343 | 5.339 | 5.362 | VV | 542 | 6149 | 0.06% | 0.019% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.365 | 5.362 | 5.398 | VV | 507 | 6999 | 0.07% | 0.021% |
| 38 | 5.422 | 5.398 | 5.435 | PV | 520 | 6499 | 0.06% | 0.020% |
| 39 | 5.448 | 5.435 | 5.454 | VV | 583 | 4676 | 0.05% | 0.014% |
| 40 | 5.467 | 5.454 | 5.487 | VV | 619 | 7816 | 0.08% | 0.024% |
| 41 | 5.534 | 5.487 | 5.559 | VV | 586 | 14304 | 0.14% | 0.043% |
| 42 | 5.569 | 5.559 | 5.573 | VV | 327 | 2015 | 0.02% | 0.006% |
| 43 | 5.582 | 5.573 | 5.593 | VV | 346 | 2627 | 0.03% | 0.008% |
| 44 | 5.603 | 5.593 | 5.619 | VV | 300 | 3029 | 0.03% | 0.009% |
| 45 | 5.626 | 5.619 | 5.650 | VV | 359 | 5035 | 0.05% | 0.015% |
| 46 | 5.664 | 5.650 | 5.684 | VV | 506 | 6330 | 0.06% | 0.019% |
| 47 | 5.694 | 5.684 | 5.702 | VV | 513 | 4132 | 0.04% | 0.012% |
| 48 | 5.726 | 5.702 | 5.749 | VV | 1376 | 24732 | 0.24% | 0.075% |
| 49 | 5.772 | 5.749 | 5.797 | VV | 1188 | 22250 | 0.22% | 0.067% |
| 50 | 5.812 | 5.797 | 5.833 | VV | 2263 | 26557 | 0.26% | 0.080% |
| 51 | 5.839 | 5.833 | 5.859 | VV | 470 | 6171 | 0.06% | 0.019% |
| 52 | 5.883 | 5.859 | 5.907 | VV | 1118 | 18480 | 0.18% | 0.056% |
| 53 | 5.945 | 5.907 | 5.972 | VV | 1110 | 23354 | 0.23% | 0.070% |
| 54 | 5.987 | 5.972 | 5.994 | VV | 467 | 3451 | 0.03% | 0.010% |
| 55 | 6.016 | 5.994 | 6.032 | VV | 495 | 6472 | 0.06% | 0.020% |
| 56 | 6.048 | 6.032 | 6.062 | VV | 337 | 3458 | 0.03% | 0.010% |
| 57 | 6.066 | 6.062 | 6.092 | PV | 264 | 2845 | 0.03% | 0.009% |
| 58 | 6.111 | 6.092 | 6.127 | VV | 534 | 6620 | 0.06% | 0.020% |
| 59 | 6.151 | 6.127 | 6.174 | VV | 4752 | 51098 | 0.50% | 0.154% |
| 60 | 6.194 | 6.174 | 6.215 | VV | 663 | 12414 | 0.12% | 0.037% |
| 61 | 6.231 | 6.215 | 6.250 | VV | 1916 | 20613 | 0.20% | 0.062% |
| 62 | 6.267 | 6.250 | 6.284 | VV | 1209 | 12811 | 0.12% | 0.039% |
| 63 | 6.298 | 6.284 | 6.318 | VV | 2952 | 29930 | 0.29% | 0.090% |
| 64 | 6.328 | 6.318 | 6.349 | VV | 917 | 9916 | 0.10% | 0.030% |
| 65 | 6.370 | 6.349 | 6.388 | VV | 1725 | 17640 | 0.17% | 0.053% |
| 66 | 6.396 | 6.388 | 6.411 | VV | 262 | 2574 | 0.03% | 0.008% |
| 67 | 6.431 | 6.411 | 6.437 | VV | 272 | 3356 | 0.03% | 0.010% |
| 68 | 6.444 | 6.437 | 6.449 | VV | 333 | 1775 | 0.02% | 0.005% |
| 69 | 6.465 | 6.449 | 6.487 | VV | 771 | 9113 | 0.09% | 0.027% |
| 70 | 6.517 | 6.502 | 6.559 | VV | 442 | 6904 | 0.07% | 0.021% |
| 71 | 6.588 | 6.559 | 6.609 | VV | 1941 | 21195 | 0.21% | 0.064% |
| 72 | 6.617 | 6.609 | 6.624 | VV | 338 | 2689 | 0.03% | 0.008% |
| 73 | 6.641 | 6.624 | 6.661 | VV | 1933 | 28326 | 0.28% | 0.085% |
| 74 | 6.667 | 6.661 | 6.673 | VV | 1069 | 7043 | 0.07% | 0.021% |
| 75 | 6.688 | 6.673 | 6.702 | VV | 2009 | 27634 | 0.27% | 0.083% |
| 76 | 6.705 | 6.702 | 6.735 | VV | 1584 | 15960 | 0.16% | 0.048% |
| 77 | 6.766 | 6.735 | 6.803 | VV | 3337 | 48925 | 0.48% | 0.148% |
| 78 | 6.808 | 6.803 | 6.823 | VV | 407 | 2795 | 0.03% | 0.008% |
| 79 | 6.836 | 6.823 | 6.855 | VV | 497 | 7324 | 0.07% | 0.022% |
| 80 | 6.870 | 6.855 | 6.886 | VV | 797 | 8455 | 0.08% | 0.026% |
| 81 | 6.891 | 6.886 | 6.899 | VV | 251 | 1130 | 0.01% | 0.003% |
| 82 | 6.926 | 6.899 | 6.965 | VV | 7259 | 77009 | 0.75% | 0.232% |
| 83 | 6.986 | 6.965 | 7.020 | VV | 893 | 18190 | 0.18% | 0.055% |
| 84 | 7.034 | 7.020 | 7.045 | VV | 1025 | 9565 | 0.09% | 0.029% |
| 85 | 7.066 | 7.045 | 7.085 | VV | 1506 | 21712 | 0.21% | 0.065% |
| 86 | 7.100 | 7.085 | 7.109 | VV | 562 | 5447 | 0.05% | 0.016% |
| 87 | 7.129 | 7.109 | 7.142 | VV | 1058 | 15196 | 0.15% | 0.046% |
| 88 | 7.156 | 7.142 | 7.196 | VV | 1468 | 19356 | 0.19% | 0.058% |
| 89 | 7.204 | 7.196 | 7.210 | VV | 248 | 1571 | 0.02% | 0.005% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.220 | 7.210 | 7.243 | VV | 276 | 2857 | 0.03% | 0.009% |
| 91 | 7.274 | 7.256 | 7.305 | VV | 702 | 8664 | 0.08% | 0.026% |
| 92 | 7.326 | 7.305 | 7.339 | VV | 2594 | 27749 | 0.27% | 0.084% |
| 93 | 7.367 | 7.339 | 7.454 | VV | 1060504 | 10268954 | 100.00% | 30.975% |
| 94 | 7.491 | 7.454 | 7.512 | VV | 1765 | 43943 | 0.43% | 0.133% |
| 95 | 7.520 | 7.512 | 7.529 | VV | 942 | 8409 | 0.08% | 0.025% |
| 96 | 7.534 | 7.529 | 7.552 | VV | 749 | 8958 | 0.09% | 0.027% |
| 97 | 7.557 | 7.552 | 7.572 | VV | 617 | 6748 | 0.07% | 0.020% |
| 98 | 7.586 | 7.572 | 7.607 | VV | 981 | 13541 | 0.13% | 0.041% |
| 99 | 7.630 | 7.607 | 7.656 | VV | 1521 | 22142 | 0.22% | 0.067% |
| 100 | 7.659 | 7.656 | 7.669 | VV | 380 | 2497 | 0.02% | 0.008% |
| 101 | 7.684 | 7.669 | 7.702 | VV | 577 | 8044 | 0.08% | 0.024% |
| 102 | 7.721 | 7.702 | 7.776 | VV | 922 | 18512 | 0.18% | 0.056% |
| 103 | 7.802 | 7.776 | 7.814 | VV | 273 | 4059 | 0.04% | 0.012% |
| 104 | 7.835 | 7.814 | 7.863 | VV | 875 | 13858 | 0.13% | 0.042% |
| 105 | 7.873 | 7.863 | 7.892 | VV | 329 | 3479 | 0.03% | 0.010% |
| 106 | 7.932 | 7.892 | 7.957 | VV | 3881 | 48048 | 0.47% | 0.145% |
| 107 | 7.960 | 7.957 | 7.975 | VV | 682 | 6030 | 0.06% | 0.018% |
| 108 | 7.978 | 7.975 | 7.989 | VV | 635 | 3655 | 0.04% | 0.011% |
| 109 | 7.991 | 7.989 | 7.999 | VV | 419 | 2104 | 0.02% | 0.006% |
| 110 | 8.029 | 7.999 | 8.062 | VV | 1827 | 42947 | 0.42% | 0.130% |
| 111 | 8.080 | 8.062 | 8.105 | VV | 1422 | 21973 | 0.21% | 0.066% |
| 112 | 8.124 | 8.105 | 8.147 | VV | 1024 | 14427 | 0.14% | 0.044% |
| 113 | 8.161 | 8.147 | 8.187 | VV | 1346 | 15513 | 0.15% | 0.047% |
| 114 | 8.216 | 8.187 | 8.267 | VV | 602671 | 6368503 | 62.02% | 19.210% |
| 115 | 8.275 | 8.267 | 8.345 | VV | 6243 | 153143 | 1.49% | 0.462% |
| 116 | 8.350 | 8.345 | 8.369 | VV | 1971 | 23998 | 0.23% | 0.072% |
| 117 | 8.383 | 8.369 | 8.405 | VV | 1924 | 35092 | 0.34% | 0.106% |
| 118 | 8.417 | 8.405 | 8.430 | VV | 1671 | 22138 | 0.22% | 0.067% |
| 119 | 8.436 | 8.430 | 8.454 | VV | 1612 | 18872 | 0.18% | 0.057% |
| 120 | 8.470 | 8.454 | 8.513 | VV | 2327 | 52571 | 0.51% | 0.159% |
| 121 | 8.530 | 8.513 | 8.545 | VV | 1129 | 15426 | 0.15% | 0.047% |
| 122 | 8.576 | 8.545 | 8.598 | VV | 1304 | 25570 | 0.25% | 0.077% |
| 123 | 8.649 | 8.598 | 8.672 | VV | 84331 | 839599 | 8.18% | 2.533% |
| 124 | 8.681 | 8.672 | 8.697 | VV | 2733 | 34524 | 0.34% | 0.104% |
| 125 | 8.716 | 8.697 | 8.734 | VV | 2322 | 41341 | 0.40% | 0.125% |
| 126 | 8.761 | 8.734 | 8.784 | VV | 5280 | 86883 | 0.85% | 0.262% |
| 127 | 8.793 | 8.784 | 8.816 | VV | 1574 | 25216 | 0.25% | 0.076% |
| 128 | 8.833 | 8.816 | 8.857 | VV | 1582 | 23788 | 0.23% | 0.072% |
| 129 | 8.861 | 8.857 | 8.865 | VV | 594 | 2573 | 0.03% | 0.008% |
| 130 | 8.881 | 8.865 | 8.917 | VV | 1232 | 20076 | 0.20% | 0.061% |
| 131 | 8.942 | 8.917 | 8.952 | VV | 855 | 12105 | 0.12% | 0.037% |
| 132 | 8.957 | 8.952 | 9.010 | VV | 1221 | 23270 | 0.23% | 0.070% |
| 133 | 9.030 | 9.010 | 9.036 | VV | 1098 | 12537 | 0.12% | 0.038% |
| 134 | 9.048 | 9.036 | 9.064 | VV | 1113 | 15302 | 0.15% | 0.046% |
| 135 | 9.070 | 9.064 | 9.083 | VV | 584 | 6054 | 0.06% | 0.018% |
| 136 | 9.108 | 9.083 | 9.148 | VV | 2149 | 39087 | 0.38% | 0.118% |
| 137 | 9.157 | 9.148 | 9.164 | VV | 578 | 4287 | 0.04% | 0.013% |
| 138 | 9.171 | 9.164 | 9.177 | VV | 635 | 3955 | 0.04% | 0.012% |
| 139 | 9.189 | 9.177 | 9.197 | VV | 659 | 6946 | 0.07% | 0.021% |
| 140 | 9.203 | 9.197 | 9.230 | VV | 590 | 8703 | 0.08% | 0.026% |
| 141 | 9.248 | 9.230 | 9.272 | VV | 1174 | 16392 | 0.16% | 0.049% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.301 | 9.272 | 9.306 | VV | 955 | 10197 | 0.10% | 0.031% |
| 143 | 9.308 | 9.306 | 9.318 | VV | 680 | 3773 | 0.04% | 0.011% |
| 144 | 9.346 | 9.318 | 9.358 | VV | 1057 | 16545 | 0.16% | 0.050% |
| 145 | 9.380 | 9.358 | 9.430 | VV | 25568 | 352584 | 3.43% | 1.064% |
| 146 | 9.438 | 9.430 | 9.456 | VV | 1782 | 23567 | 0.23% | 0.071% |
| 147 | 9.462 | 9.456 | 9.490 | VV | 1393 | 21713 | 0.21% | 0.065% |
| 148 | 9.496 | 9.490 | 9.501 | VV | 844 | 4666 | 0.05% | 0.014% |
| 149 | 9.522 | 9.501 | 9.555 | VV | 2326 | 37298 | 0.36% | 0.113% |
| 150 | 9.593 | 9.555 | 9.600 | VV | 1105 | 19189 | 0.19% | 0.058% |
| 151 | 9.605 | 9.600 | 9.609 | VV | 940 | 4622 | 0.05% | 0.014% |
| 152 | 9.617 | 9.609 | 9.640 | VV | 1089 | 12596 | 0.12% | 0.038% |
| 153 | 9.648 | 9.640 | 9.650 | VV | 527 | 2744 | 0.03% | 0.008% |
| 154 | 9.667 | 9.650 | 9.679 | VV | 773 | 10929 | 0.11% | 0.033% |
| 155 | 9.694 | 9.679 | 9.709 | VV | 735 | 8654 | 0.08% | 0.026% |
| 156 | 9.724 | 9.709 | 9.730 | VV | 416 | 3884 | 0.04% | 0.012% |
| 157 | 9.737 | 9.730 | 9.755 | VV | 589 | 4116 | 0.04% | 0.012% |
| 158 | 9.766 | 9.755 | 9.777 | VV | 484 | 3346 | 0.03% | 0.010% |
| 159 | 9.788 | 9.777 | 9.808 | VV | 617 | 8532 | 0.08% | 0.026% |
| 160 | 9.835 | 9.808 | 9.853 | VV | 1198 | 21184 | 0.21% | 0.064% |
| 161 | 9.858 | 9.853 | 9.879 | VV | 692 | 9676 | 0.09% | 0.029% |
| 162 | 9.887 | 9.879 | 9.895 | VV | 647 | 5896 | 0.06% | 0.018% |
| 163 | 9.916 | 9.895 | 9.930 | VV | 1091 | 16035 | 0.16% | 0.048% |
| 164 | 9.942 | 9.930 | 9.969 | VV | 1038 | 17134 | 0.17% | 0.052% |
| 165 | 9.973 | 9.969 | 9.990 | VV | 696 | 7141 | 0.07% | 0.022% |
| 166 | 10.023 | 9.990 | 10.050 | VV | 2151 | 31636 | 0.31% | 0.095% |
| 167 | 10.071 | 10.050 | 10.078 | VV | 468 | 5798 | 0.06% | 0.017% |
| 168 | 10.117 | 10.078 | 10.129 | VV | 1429 | 26967 | 0.26% | 0.081% |
| 169 | 10.139 | 10.129 | 10.143 | VV | 976 | 7546 | 0.07% | 0.023% |
| 170 | 10.148 | 10.143 | 10.167 | VV | 1037 | 10938 | 0.11% | 0.033% |
| 171 | 10.205 | 10.167 | 10.237 | VV | 1373 | 36380 | 0.35% | 0.110% |
| 172 | 10.248 | 10.237 | 10.288 | VV | 1163 | 25292 | 0.25% | 0.076% |
| 173 | 10.308 | 10.288 | 10.323 | VV | 1275 | 16297 | 0.16% | 0.049% |
| 174 | 10.339 | 10.323 | 10.352 | VV | 938 | 13264 | 0.13% | 0.040% |
| 175 | 10.379 | 10.352 | 10.406 | VV | 3145 | 50093 | 0.49% | 0.151% |
| 176 | 10.426 | 10.406 | 10.457 | VV | 799 | 16986 | 0.17% | 0.051% |
| 177 | 10.463 | 10.457 | 10.490 | VV | 705 | 10758 | 0.10% | 0.032% |
| 178 | 10.510 | 10.490 | 10.524 | VV | 1110 | 14933 | 0.15% | 0.045% |
| 179 | 10.532 | 10.524 | 10.540 | VV | 889 | 7238 | 0.07% | 0.022% |
| 180 | 10.547 | 10.540 | 10.569 | VV | 833 | 12654 | 0.12% | 0.038% |
| 181 | 10.578 | 10.569 | 10.598 | VV | 1012 | 12027 | 0.12% | 0.036% |
| 182 | 10.612 | 10.598 | 10.635 | VV | 688 | 10984 | 0.11% | 0.033% |
| 183 | 10.645 | 10.635 | 10.656 | VV | 747 | 7516 | 0.07% | 0.023% |
| 184 | 10.675 | 10.656 | 10.693 | VV | 1293 | 20335 | 0.20% | 0.061% |
| 185 | 10.707 | 10.693 | 10.728 | VV | 736 | 10198 | 0.10% | 0.031% |
| 186 | 10.752 | 10.728 | 10.797 | VV | 468 | 12632 | 0.12% | 0.038% |
| 187 | 10.816 | 10.797 | 10.844 | VV | 448 | 8312 | 0.08% | 0.025% |
| 188 | 10.850 | 10.844 | 10.865 | VV | 235 | 2292 | 0.02% | 0.007% |
| 189 | 10.884 | 10.865 | 10.908 | VV | 1081 | 12873 | 0.13% | 0.039% |
| 190 | 10.931 | 10.908 | 10.935 | VV | 551 | 6797 | 0.07% | 0.021% |
| 191 | 10.953 | 10.935 | 10.986 | VV | 2399 | 30854 | 0.30% | 0.093% |
| 192 | 11.002 | 10.986 | 11.010 | VV | 543 | 5103 | 0.05% | 0.015% |
| 193 | 11.035 | 11.010 | 11.060 | VV | 1080 | 18640 | 0.18% | 0.056% |
| 194 | 11.064 | 11.060 | 11.085 | VV | 405 | 3760 | 0.04% | 0.011% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 11.105 | 11.085 | 11.129 | VV | 667 | 8574 | 0.08% | 0.026% |
| 196 | 11.139 | 11.129 | 11.156 | VV | 518 | 5546 | 0.05% | 0.017% |
| 197 | 11.164 | 11.156 | 11.209 | VV | 350 | 7403 | 0.07% | 0.022% |
| 198 | 11.252 | 11.209 | 11.304 | PV | 588084 | 6241693 | 60.78% | 18.827% |
| 199 | 11.305 | 11.304 | 11.322 | VV | 1391 | 13597 | 0.13% | 0.041% |
| 200 | 11.336 | 11.322 | 11.360 | VV | 1410 | 26135 | 0.25% | 0.079% |
| 201 | 11.366 | 11.360 | 11.369 | VV | 960 | 4351 | 0.04% | 0.013% |
| 202 | 11.378 | 11.369 | 11.394 | VV | 1010 | 12625 | 0.12% | 0.038% |
| 203 | 11.419 | 11.394 | 11.455 | VV | 2108 | 36182 | 0.35% | 0.109% |
| 204 | 11.459 | 11.455 | 11.462 | VV | 490 | 1924 | 0.02% | 0.006% |
| 205 | 11.467 | 11.462 | 11.475 | VV | 599 | 4212 | 0.04% | 0.013% |
| 206 | 11.477 | 11.475 | 11.484 | VV | 570 | 2506 | 0.02% | 0.008% |
| 207 | 11.491 | 11.484 | 11.503 | VV | 597 | 6116 | 0.06% | 0.018% |
| 208 | 11.509 | 11.503 | 11.516 | VV | 575 | 4307 | 0.04% | 0.013% |
| 209 | 11.543 | 11.516 | 11.555 | VV | 669 | 12429 | 0.12% | 0.037% |
| 210 | 11.582 | 11.555 | 11.588 | VV | 1214 | 16014 | 0.16% | 0.048% |
| 211 | 11.607 | 11.588 | 11.631 | VV | 1856 | 32522 | 0.32% | 0.098% |
| 212 | 11.671 | 11.631 | 11.697 | VV | 13004 | 165742 | 1.61% | 0.500% |
| 213 | 11.707 | 11.697 | 11.734 | VV | 1138 | 16012 | 0.16% | 0.048% |
| 214 | 11.753 | 11.734 | 11.760 | VV | 802 | 10087 | 0.10% | 0.030% |
| 215 | 11.775 | 11.760 | 11.785 | VV | 952 | 11190 | 0.11% | 0.034% |
| 216 | 11.833 | 11.785 | 11.846 | VV | 2091 | 43760 | 0.43% | 0.132% |
| 217 | 11.868 | 11.846 | 11.941 | VV | 30852 | 389123 | 3.79% | 1.174% |
| 218 | 11.946 | 11.941 | 11.989 | VV | 1031 | 18708 | 0.18% | 0.056% |
| 219 | 11.997 | 11.989 | 12.006 | VV | 654 | 5247 | 0.05% | 0.016% |
| 220 | 12.024 | 12.006 | 12.027 | VV | 900 | 9524 | 0.09% | 0.029% |
| 221 | 12.032 | 12.027 | 12.058 | VV | 1012 | 14269 | 0.14% | 0.043% |
| 222 | 12.069 | 12.058 | 12.074 | VV | 842 | 7026 | 0.07% | 0.021% |
| 223 | 12.091 | 12.074 | 12.098 | VV | 1325 | 15527 | 0.15% | 0.047% |
| 224 | 12.122 | 12.098 | 12.169 | VV | 7397 | 107110 | 1.04% | 0.323% |
| 225 | 12.194 | 12.169 | 12.223 | VV | 2405 | 37279 | 0.36% | 0.112% |
| 226 | 12.227 | 12.223 | 12.233 | VV | 464 | 2588 | 0.03% | 0.008% |
| 227 | 12.254 | 12.233 | 12.279 | VV | 3051 | 39801 | 0.39% | 0.120% |
| 228 | 12.304 | 12.279 | 12.379 | VV | 2819 | 65701 | 0.64% | 0.198% |
| 229 | 12.395 | 12.379 | 12.437 | VV | 716 | 12538 | 0.12% | 0.038% |
| 230 | 12.450 | 12.437 | 12.461 | PV | 307 | 3265 | 0.03% | 0.010% |
| 231 | 12.487 | 12.461 | 12.493 | VV | 756 | 10455 | 0.10% | 0.032% |
| 232 | 12.527 | 12.493 | 12.565 | VV | 812 | 23400 | 0.23% | 0.071% |
| 233 | 12.598 | 12.565 | 12.635 | VV | 2184 | 51880 | 0.51% | 0.156% |
| 234 | 12.654 | 12.635 | 12.661 | VV | 1573 | 19528 | 0.19% | 0.059% |
| 235 | 12.692 | 12.661 | 12.724 | VV | 100807 | 1213375 | 11.82% | 3.660% |
| 236 | 12.739 | 12.724 | 12.749 | VV | 1030 | 12148 | 0.12% | 0.037% |
| 237 | 12.754 | 12.749 | 12.782 | VV | 907 | 14649 | 0.14% | 0.044% |
| 238 | 12.793 | 12.782 | 12.808 | VV | 721 | 9451 | 0.09% | 0.029% |
| 239 | 12.823 | 12.808 | 12.840 | VV | 719 | 10451 | 0.10% | 0.032% |
| 240 | 12.861 | 12.840 | 12.869 | VV | 1067 | 13207 | 0.13% | 0.040% |
| 241 | 12.872 | 12.869 | 12.894 | VV | 885 | 12575 | 0.12% | 0.038% |
| 242 | 12.917 | 12.894 | 12.951 | VV | 7573 | 106517 | 1.04% | 0.321% |
| 243 | 12.990 | 12.951 | 13.017 | VV | 975 | 28109 | 0.27% | 0.085% |
| 244 | 13.023 | 13.017 | 13.035 | VV | 611 | 5891 | 0.06% | 0.018% |
| 245 | 13.061 | 13.035 | 13.070 | VV | 1293 | 18760 | 0.18% | 0.057% |
| 246 | 13.092 | 13.070 | 13.133 | VV | 9102 | 137582 | 1.34% | 0.415% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 13.140 | 13.133 | 13.170 | VV | 1395 | 25817 | 0.25% | 0.078% |
| 248 | 13.191 | 13.170 | 13.196 | VV | 948 | 12298 | 0.12% | 0.037% |
| 249 | 13.203 | 13.196 | 13.230 | VV | 937 | 16024 | 0.16% | 0.048% |
| 250 | 13.264 | 13.230 | 13.280 | VV | 1061 | 24776 | 0.24% | 0.075% |
| 251 | 13.287 | 13.280 | 13.308 | VV | 852 | 13235 | 0.13% | 0.040% |
| 252 | 13.314 | 13.308 | 13.332 | VV | 906 | 10890 | 0.11% | 0.033% |
| 253 | 13.349 | 13.332 | 13.370 | VV | 851 | 16972 | 0.17% | 0.051% |
| 254 | 13.394 | 13.370 | 13.421 | VV | 2171 | 38363 | 0.37% | 0.116% |
| 255 | 13.447 | 13.421 | 13.495 | VV | 2797 | 53153 | 0.52% | 0.160% |
| 256 | 13.501 | 13.495 | 13.555 | VV | 740 | 13742 | 0.13% | 0.041% |
| 257 | 13.560 | 13.555 | 13.572 | VV | 269 | 2167 | 0.02% | 0.007% |
| 258 | 13.576 | 13.572 | 13.599 | VV | 381 | 2735 | 0.03% | 0.008% |
| 259 | 13.630 | 13.599 | 13.636 | PV | 246 | 3147 | 0.03% | 0.009% |
| 260 | 13.657 | 13.636 | 13.687 | VV | 483 | 10323 | 0.10% | 0.031% |
| 261 | 13.692 | 13.687 | 13.743 | VV | 471 | 9272 | 0.09% | 0.028% |
| 262 | 13.779 | 13.743 | 13.801 | VV | 581 | 11784 | 0.11% | 0.036% |
| 263 | 13.805 | 13.801 | 13.807 | VV | 477 | 1485 | 0.01% | 0.004% |
| 264 | 13.815 | 13.807 | 13.820 | VV | 529 | 3540 | 0.03% | 0.011% |
| 265 | 13.839 | 13.820 | 13.845 | VV | 1369 | 15693 | 0.15% | 0.047% |
| 266 | 13.851 | 13.845 | 13.864 | VV | 1317 | 13126 | 0.13% | 0.040% |
| 267 | 13.878 | 13.864 | 13.902 | VV | 2552 | 36505 | 0.36% | 0.110% |
| 268 | 13.906 | 13.902 | 13.919 | VV | 856 | 7917 | 0.08% | 0.024% |
| 269 | 13.923 | 13.919 | 13.949 | VV | 867 | 12583 | 0.12% | 0.038% |
| 270 | 13.954 | 13.949 | 13.976 | VV | 616 | 9150 | 0.09% | 0.028% |
| 271 | 13.981 | 13.976 | 13.989 | VV | 656 | 4702 | 0.05% | 0.014% |
| 272 | 14.004 | 13.989 | 14.030 | VV | 988 | 17442 | 0.17% | 0.053% |
| 273 | 14.037 | 14.030 | 14.070 | VV | 807 | 12708 | 0.12% | 0.038% |
| 274 | 14.099 | 14.070 | 14.122 | VV | 934 | 22172 | 0.22% | 0.067% |
| 275 | 14.128 | 14.122 | 14.137 | VV | 804 | 5905 | 0.06% | 0.018% |
| 276 | 14.165 | 14.137 | 14.184 | VV | 1118 | 24147 | 0.24% | 0.073% |
| 277 | 14.191 | 14.184 | 14.199 | VV | 857 | 6677 | 0.07% | 0.020% |
| 278 | 14.218 | 14.199 | 14.234 | VV | 1039 | 16932 | 0.16% | 0.051% |
| 279 | 14.237 | 14.234 | 14.240 | VV | 601 | 2150 | 0.02% | 0.006% |
| 280 | 14.254 | 14.240 | 14.278 | VV | 847 | 14000 | 0.14% | 0.042% |
| 281 | 14.316 | 14.278 | 14.334 | VV | 1226 | 28199 | 0.27% | 0.085% |
| 282 | 14.351 | 14.334 | 14.373 | VV | 973 | 18475 | 0.18% | 0.056% |
| 283 | 14.387 | 14.373 | 14.422 | VV | 1075 | 19779 | 0.19% | 0.060% |
| 284 | 14.426 | 14.422 | 14.435 | VV | 426 | 2439 | 0.02% | 0.007% |
| 285 | 14.502 | 14.435 | 14.526 | VV | 2693 | 76289 | 0.74% | 0.230% |
| 286 | 14.541 | 14.526 | 14.567 | VV | 2916 | 45213 | 0.44% | 0.136% |
| 287 | 14.584 | 14.567 | 14.614 | VV | 1560 | 24291 | 0.24% | 0.073% |
| 288 | 14.624 | 14.614 | 14.648 | VV | 536 | 5922 | 0.06% | 0.018% |
| 289 | 14.654 | 14.648 | 14.661 | VV | 312 | 1405 | 0.01% | 0.004% |
| 290 | 14.668 | 14.661 | 14.688 | VV | 549 | 4102 | 0.04% | 0.012% |
| 291 | 14.717 | 14.688 | 14.755 | PV | 881 | 19357 | 0.19% | 0.058% |
| 292 | 14.776 | 14.755 | 14.788 | VV | 297 | 3741 | 0.04% | 0.011% |
| 293 | 14.800 | 14.788 | 14.806 | VV | 452 | 3338 | 0.03% | 0.010% |
| 294 | 14.811 | 14.806 | 14.820 | VV | 454 | 2692 | 0.03% | 0.008% |
| 295 | 14.824 | 14.820 | 14.830 | VV | 401 | 2280 | 0.02% | 0.007% |
| 296 | 14.835 | 14.830 | 14.868 | VV | 450 | 6959 | 0.07% | 0.021% |
| 297 | 14.916 | 14.868 | 15.042 | VV | 33829 | 583703 | 5.68% | 1.761% |
| 298 | 15.070 | 15.042 | 15.092 | VV | 2647 | 43931 | 0.43% | 0.133% |
| 299 | 15.109 | 15.092 | 15.137 | VV | 905 | 15020 | 0.15% | 0.045% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 15.155 | 15.137 | 15.174 | VV | 815 | 13409 | 0.13% | 0.040% |
| 301 | 15.191 | 15.174 | 15.204 | VV | 716 | 10179 | 0.10% | 0.031% |
| 302 | 15.210 | 15.204 | 15.238 | VV | 619 | 10436 | 0.10% | 0.031% |
| 303 | 15.251 | 15.238 | 15.260 | VV | 612 | 7461 | 0.07% | 0.023% |
| 304 | 15.265 | 15.260 | 15.278 | VV | 633 | 5825 | 0.06% | 0.018% |
| 305 | 15.285 | 15.278 | 15.310 | VV | 510 | 8756 | 0.09% | 0.026% |
| 306 | 15.323 | 15.310 | 15.341 | VV | 740 | 9319 | 0.09% | 0.028% |
| 307 | 15.366 | 15.341 | 15.389 | VV | 682 | 14129 | 0.14% | 0.043% |
| 308 | 15.442 | 15.389 | 15.487 | VV | 1218 | 40700 | 0.40% | 0.123% |
| 309 | 15.491 | 15.487 | 15.497 | VV | 376 | 2177 | 0.02% | 0.007% |
| 310 | 15.519 | 15.497 | 15.537 | VV | 1227 | 17267 | 0.17% | 0.052% |
| 311 | 15.559 | 15.537 | 15.580 | VV | 2104 | 26712 | 0.26% | 0.081% |
| 312 | 15.614 | 15.580 | 15.688 | VV | 908 | 23885 | 0.23% | 0.072% |
| 313 | 15.725 | 15.688 | 15.749 | PV | 399 | 5440 | 0.05% | 0.016% |
| 314 | 15.754 | 15.749 | 15.764 | VV | 236 | 1289 | 0.01% | 0.004% |
| 315 | 15.780 | 15.764 | 15.787 | VV | 130 | 1311 | 0.01% | 0.004% |
| 316 | 15.805 | 15.796 | 15.815 | VV | 201 | 1184 | 0.01% | 0.004% |
| 317 | 15.823 | 15.815 | 15.830 | PV | 259 | 1252 | 0.01% | 0.004% |
| 318 | 15.832 | 15.830 | 15.862 | VV | 197 | 2433 | 0.02% | 0.007% |
| 319 | 15.926 | 15.862 | 15.989 | VV | 3824 | 92395 | 0.90% | 0.279% |
| 320 | 15.990 | 15.989 | 15.994 | VV | 778 | 2290 | 0.02% | 0.007% |
| 321 | 16.025 | 15.994 | 16.092 | VV | 2799 | 82996 | 0.81% | 0.250% |
| 322 | 16.113 | 16.092 | 16.138 | VV | 1467 | 25115 | 0.24% | 0.076% |
| 323 | 16.167 | 16.138 | 16.224 | VV | 1429 | 36892 | 0.36% | 0.111% |
| 324 | 16.228 | 16.224 | 16.244 | VV | 611 | 5416 | 0.05% | 0.016% |
| 325 | 16.250 | 16.244 | 16.258 | VV | 442 | 3042 | 0.03% | 0.009% |
| 326 | 16.261 | 16.258 | 16.269 | VV | 378 | 2274 | 0.02% | 0.007% |
| 327 | 16.295 | 16.269 | 16.318 | VV | 1226 | 19211 | 0.19% | 0.058% |
| 328 | 16.340 | 16.318 | 16.379 | VV | 1829 | 37438 | 0.36% | 0.113% |
| 329 | 16.412 | 16.379 | 16.448 | VV | 1945 | 45631 | 0.44% | 0.138% |
| 330 | 16.469 | 16.448 | 16.484 | VV | 1349 | 21219 | 0.21% | 0.064% |
| 331 | 16.502 | 16.484 | 16.522 | VV | 2494 | 36756 | 0.36% | 0.111% |
| 332 | 16.546 | 16.522 | 16.569 | VV | 7524 | 105714 | 1.03% | 0.319% |
| 333 | 16.575 | 16.569 | 16.604 | VV | 1163 | 16372 | 0.16% | 0.049% |
| 334 | 16.614 | 16.604 | 16.619 | VV | 444 | 3613 | 0.04% | 0.011% |
| 335 | 16.630 | 16.619 | 16.641 | VV | 526 | 5155 | 0.05% | 0.016% |
| 336 | 16.647 | 16.641 | 16.682 | VV | 435 | 7001 | 0.07% | 0.021% |
| 337 | 16.703 | 16.682 | 16.740 | VV | 397 | 8398 | 0.08% | 0.025% |
| 338 | 16.766 | 16.740 | 16.787 | PV | 392 | 6360 | 0.06% | 0.019% |
| 339 | 16.800 | 16.787 | 16.821 | VV | 576 | 8856 | 0.09% | 0.027% |
| 340 | 16.833 | 16.821 | 16.839 | VV | 308 | 2761 | 0.03% | 0.008% |
| 341 | 16.865 | 16.839 | 16.915 | VV | 2631 | 64593 | 0.63% | 0.195% |
| 342 | 16.948 | 16.915 | 16.977 | VV | 2528 | 48181 | 0.47% | 0.145% |
| 343 | 16.997 | 16.977 | 17.014 | VV | 465 | 7439 | 0.07% | 0.022% |
| 344 | 17.031 | 17.014 | 17.048 | VV | 640 | 9790 | 0.10% | 0.030% |
| 345 | 17.063 | 17.048 | 17.073 | VV | 775 | 8488 | 0.08% | 0.026% |
| 346 | 17.085 | 17.073 | 17.108 | VV | 584 | 7639 | 0.07% | 0.023% |
| 347 | 17.124 | 17.108 | 17.134 | VV | 282 | 3391 | 0.03% | 0.010% |
| 348 | 17.186 | 17.134 | 17.212 | VV | 511 | 14370 | 0.14% | 0.043% |
| 349 | 17.239 | 17.212 | 17.247 | VV | 425 | 5591 | 0.05% | 0.017% |
| 350 | 17.250 | 17.247 | 17.260 | VV | 266 | 1342 | 0.01% | 0.004% |
| 351 | 17.354 | 17.260 | 17.364 | PV | 1134 | 37241 | 0.36% | 0.112% |

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|---|---|---|---|---|---|---|---|---|
| 352 | 17.384 | 17.364 | 17.410 | VV | 2852 | 43181 | 0.42% | 0.130% |
| 353 | 17.425 | 17.410 | 17.430 | VV | 485 | 4029 | 0.04% | 0.012% |
| 354 | 17.436 | 17.430 | 17.441 | VV | 364 | 2060 | 0.02% | 0.006% |
| 355 | 17.471 | 17.441 | 17.498 | VV | 2200 | 36567 | 0.36% | 0.110% |
| 356 | 17.503 | 17.498 | 17.515 | VV | 458 | 3356 | 0.03% | 0.010% |
| 357 | 17.551 | 17.515 | 17.618 | VV | 1542 | 35829 | 0.35% | 0.108% |
| 358 | 17.644 | 17.630 | 17.650 | PV | 209 | 1317 | 0.01% | 0.004% |
| 359 | 17.654 | 17.650 | 17.665 | VV | 256 | 1720 | 0.02% | 0.005% |
| 360 | 17.702 | 17.665 | 17.713 | VV | 3660 | 54566 | 0.53% | 0.165% |
| 361 | 17.736 | 17.713 | 17.788 | VV | 20233 | 375741 | 3.66% | 1.133% |
| 362 | 17.805 | 17.788 | 17.867 | VV | 4396 | 91763 | 0.89% | 0.277% |
| 363 | 17.886 | 17.867 | 17.925 | VV | 970 | 21902 | 0.21% | 0.066% |
| 364 | 17.931 | 17.925 | 17.949 | VV | 541 | 5680 | 0.06% | 0.017% |
| 365 | 17.957 | 17.949 | 17.976 | VV | 465 | 4211 | 0.04% | 0.013% |
| 366 | 18.021 | 17.976 | 18.082 | PV | 1452 | 33903 | 0.33% | 0.102% |
| 367 | 18.157 | 18.103 | 18.175 | PV | 815 | 4997 | 0.05% | 0.015% |
| 368 | 18.182 | 18.175 | 18.192 | VV | 310 | 1568 | 0.02% | 0.005% |

Sum of corrected areas: 33152245

Aromatic EPH 111424.M Tue Nov 19 11:05:47 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067815.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 07:59
Operator : YP/AJ
Sample : P4860-06
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-009

Integration File: sample.E
Quant Time: Nov 19 10:47:14 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... | 12.941 | 3966575 | 27.325 ug/ml |
| Spiked Amount 50.000 | | Recovery = 54.65% | |
| Target Compounds | | | |

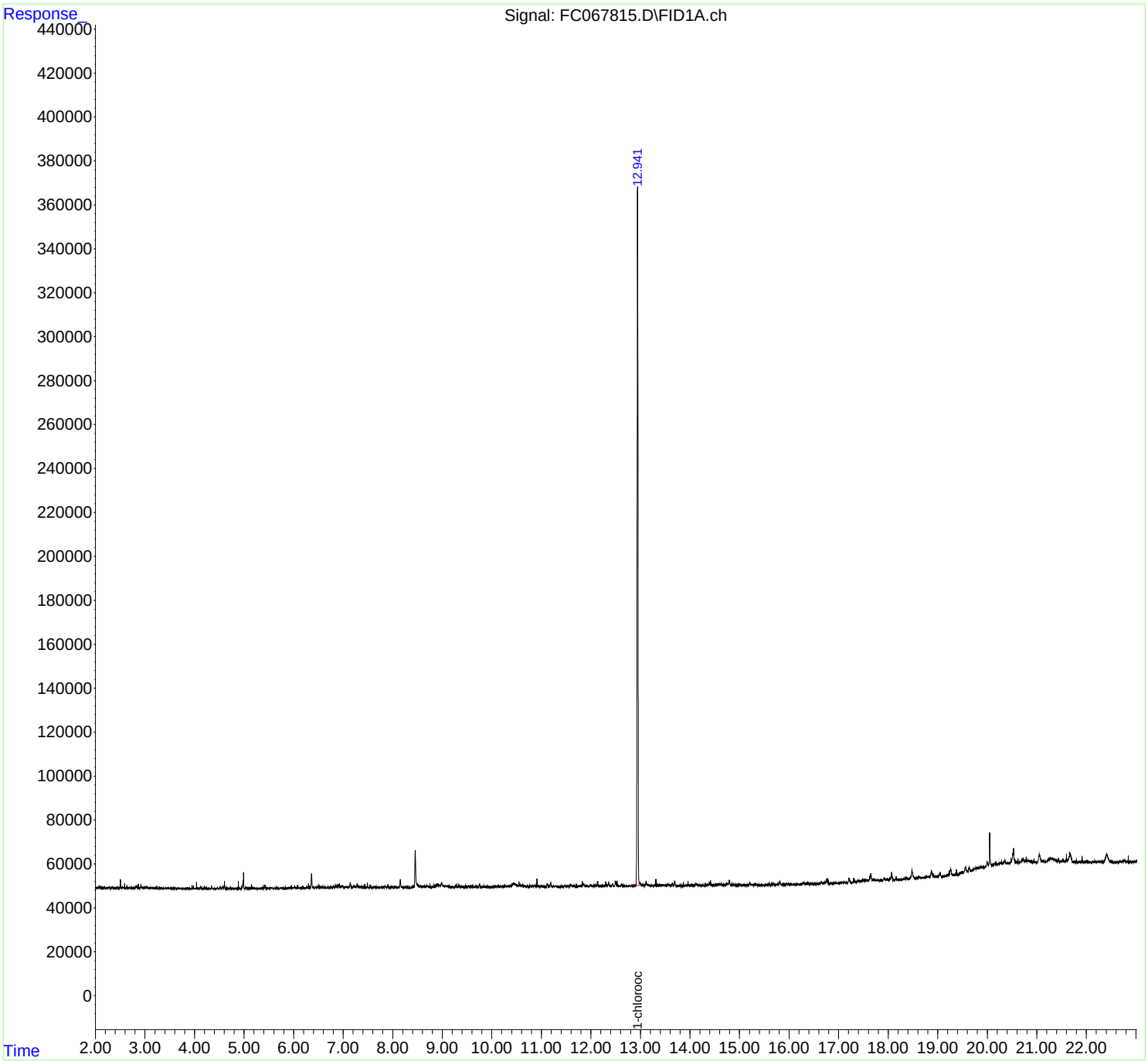
(f)=RT Delta > 1/2 Window (m)=manual int.

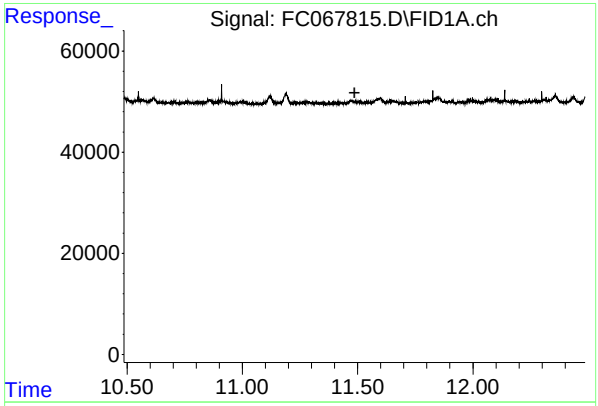
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067815.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 07:59
Operator : YP/AJ
Sample : P4860-06
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-009

Integration File: sample.E
Quant Time: Nov 19 10:47:14 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

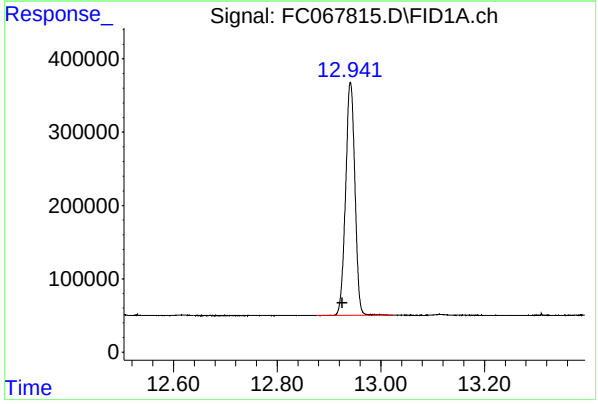





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
PH2-BOT-009




#12 1-chlorooctadecane (SURR)

R.T.: 12.941 min
Delta R.T.: 0.016 min
Response: 3966575
Conc: 27.33 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067815.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 07:59
Sample : P4860-06
Misc :
ALS Vial : 25 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 | 3.238 | 3.224 | 3.258 | BV | 344 | 692 | 0.02% | 0.003% |
| 2 | 3.288 | 3.258 | 3.355 | PV | 260 | 5120 | 0.13% | 0.025% |
| 3 | 3.438 | 3.355 | 3.469 | VV | 197 | 7384 | 0.18% | 0.036% |
| 4 | 3.480 | 3.469 | 3.551 | VV | 191 | 5685 | 0.14% | 0.028% |
| 5 | 3.564 | 3.551 | 3.582 | VV | 162 | 2163 | 0.05% | 0.011% |
| 6 | 3.594 | 3.582 | 3.625 | VV | 261 | 3132 | 0.08% | 0.015% |
| 7 | 3.648 | 3.625 | 3.668 | PV | 110 | 1488 | 0.04% | 0.007% |
| 8 | 3.678 | 3.668 | 3.691 | VV | 173 | 842 | 0.02% | 0.004% |
| 9 | 3.724 | 3.691 | 3.754 | VV | 72 | 1575 | 0.04% | 0.008% |
| 10 | 3.777 | 3.754 | 3.793 | VV | 176 | 2127 | 0.05% | 0.010% |
| 11 | 3.814 | 3.793 | 3.838 | VV | 143 | 1989 | 0.05% | 0.010% |
| 12 | 3.861 | 3.838 | 3.911 | PV | 189 | 3145 | 0.08% | 0.015% |
| 13 | 3.922 | 3.911 | 3.937 | VV | 54 | 627 | 0.02% | 0.003% |
| 14 | 3.953 | 3.937 | 3.964 | VV | 480 | 3408 | 0.08% | 0.017% |
| 15 | 3.980 | 3.964 | 4.026 | VV | 705 | 8167 | 0.20% | 0.040% |
| 16 | 4.041 | 4.026 | 4.072 | VV | 1119 | 4587 | 0.11% | 0.022% |
| 17 | 4.127 | 4.072 | 4.172 | VV | 626 | 13470 | 0.33% | 0.066% |
| 18 | 4.204 | 4.172 | 4.238 | VV | 556 | 4718 | 0.12% | 0.023% |
| 19 | 4.248 | 4.238 | 4.294 | VV | 409 | 3377 | 0.08% | 0.016% |
| 20 | 4.300 | 4.294 | 4.318 | VV | 95 | 897 | 0.02% | 0.004% |
| 21 | 4.350 | 4.318 | 4.426 | PV | 617 | 12838 | 0.32% | 0.062% |
| 22 | 4.457 | 4.426 | 4.486 | VV | 320 | 6948 | 0.17% | 0.034% |
| 23 | 4.517 | 4.486 | 4.540 | VV | 965 | 12843 | 0.32% | 0.062% |
| 24 | 4.573 | 4.540 | 4.587 | VV | 841 | 11797 | 0.29% | 0.057% |
| 25 | 4.604 | 4.587 | 4.636 | VV | 2131 | 15697 | 0.39% | 0.076% |
| 26 | 4.647 | 4.636 | 4.677 | VV | 208 | 3141 | 0.08% | 0.015% |
| 27 | 4.718 | 4.677 | 4.728 | VV | 214 | 4500 | 0.11% | 0.022% |
| 28 | 4.736 | 4.728 | 4.805 | VV | 147 | 3918 | 0.10% | 0.019% |
| 29 | 4.823 | 4.805 | 4.855 | VV | 141 | 1709 | 0.04% | 0.008% |
| 30 | 4.869 | 4.855 | 4.881 | PV | 85 | 760 | 0.02% | 0.004% |
| 31 | 4.885 | 4.881 | 4.925 | PV | 1465 | 6732 | 0.17% | 0.033% |
| 32 | 4.989 | 4.925 | 5.010 | VV | 5002 | 47996 | 1.19% | 0.233% |
| 33 | 5.037 | 5.010 | 5.098 | VV | 666 | 10799 | 0.27% | 0.053% |
| 34 | 5.108 | 5.098 | 5.119 | VV | 482 | 1919 | 0.05% | 0.009% |
| 35 | 5.151 | 5.119 | 5.194 | VV | 748 | 8102 | 0.20% | 0.039% |
| 36 | 5.204 | 5.194 | 5.215 | VV | 226 | 1744 | 0.04% | 0.008% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.221 | 5.215 | 5.241 | VV | 149 | 1141 | 0.03% | 0.006% |
| 38 | 5.256 | 5.241 | 5.305 | VV | 195 | 3369 | 0.08% | 0.016% |
| 39 | 5.351 | 5.305 | 5.365 | VV | 167 | 3911 | 0.10% | 0.019% |
| 40 | 5.383 | 5.365 | 5.404 | VV | 678 | 7318 | 0.18% | 0.036% |
| 41 | 5.424 | 5.404 | 5.463 | VV | 1322 | 16955 | 0.42% | 0.082% |
| 42 | 5.475 | 5.463 | 5.521 | VV | 398 | 7285 | 0.18% | 0.035% |
| 43 | 5.563 | 5.521 | 5.582 | VV | 346 | 7509 | 0.19% | 0.037% |
| 44 | 5.587 | 5.582 | 5.597 | VV | 179 | 1429 | 0.04% | 0.007% |
| 45 | 5.607 | 5.597 | 5.651 | VV | 236 | 4711 | 0.12% | 0.023% |
| 46 | 5.669 | 5.651 | 5.696 | VV | 323 | 5932 | 0.15% | 0.029% |
| 47 | 5.751 | 5.696 | 5.805 | VV | 263 | 10449 | 0.26% | 0.051% |
| 48 | 5.831 | 5.805 | 5.854 | VV | 185 | 2544 | 0.06% | 0.012% |
| 49 | 5.887 | 5.854 | 5.902 | VV | 193 | 3686 | 0.09% | 0.018% |
| 50 | 5.934 | 5.902 | 5.964 | VV | 406 | 10038 | 0.25% | 0.049% |
| 51 | 5.978 | 5.964 | 6.003 | VV | 376 | 5632 | 0.14% | 0.027% |
| 52 | 6.022 | 6.003 | 6.051 | VV | 676 | 9881 | 0.25% | 0.048% |
| 53 | 6.079 | 6.051 | 6.127 | VV | 773 | 11587 | 0.29% | 0.056% |
| 54 | 6.151 | 6.127 | 6.214 | VV | 509 | 11271 | 0.28% | 0.055% |
| 55 | 6.222 | 6.214 | 6.231 | VV | 183 | 1507 | 0.04% | 0.007% |
| 56 | 6.254 | 6.231 | 6.281 | VV | 325 | 7678 | 0.19% | 0.037% |
| 57 | 6.301 | 6.281 | 6.310 | VV | 884 | 5021 | 0.12% | 0.024% |
| 58 | 6.322 | 6.310 | 6.333 | VV | 699 | 4495 | 0.11% | 0.022% |
| 59 | 6.362 | 6.333 | 6.425 | VV | 6554 | 78959 | 1.96% | 0.384% |
| 60 | 6.447 | 6.425 | 6.464 | VV | 796 | 11390 | 0.28% | 0.055% |
| 61 | 6.482 | 6.464 | 6.493 | VV | 605 | 7729 | 0.19% | 0.038% |
| 62 | 6.511 | 6.493 | 6.530 | VV | 1241 | 16220 | 0.40% | 0.079% |
| 63 | 6.545 | 6.530 | 6.561 | VV | 530 | 8101 | 0.20% | 0.039% |
| 64 | 6.583 | 6.561 | 6.619 | VV | 714 | 15440 | 0.38% | 0.075% |
| 65 | 6.640 | 6.619 | 6.651 | VV | 465 | 7208 | 0.18% | 0.035% |
| 66 | 6.664 | 6.651 | 6.674 | VV | 372 | 5053 | 0.13% | 0.025% |
| 67 | 6.685 | 6.674 | 6.717 | VV | 448 | 9807 | 0.24% | 0.048% |
| 68 | 6.726 | 6.717 | 6.776 | VV | 454 | 13556 | 0.34% | 0.066% |
| 69 | 6.804 | 6.776 | 6.830 | VV | 825 | 16326 | 0.41% | 0.079% |
| 70 | 6.855 | 6.830 | 6.884 | VV | 1120 | 24117 | 0.60% | 0.117% |
| 71 | 6.888 | 6.884 | 6.894 | VV | 1040 | 4713 | 0.12% | 0.023% |
| 72 | 6.906 | 6.894 | 6.943 | VV | 880 | 22615 | 0.56% | 0.110% |
| 73 | 6.982 | 6.943 | 7.008 | VV | 1353 | 30897 | 0.77% | 0.150% |
| 74 | 7.035 | 7.008 | 7.048 | VV | 526 | 10749 | 0.27% | 0.052% |
| 75 | 7.079 | 7.048 | 7.120 | VV | 577 | 21299 | 0.53% | 0.104% |
| 76 | 7.144 | 7.120 | 7.174 | VV | 2528 | 36852 | 0.92% | 0.179% |
| 77 | 7.220 | 7.174 | 7.233 | VV | 1051 | 20202 | 0.50% | 0.098% |
| 78 | 7.250 | 7.233 | 7.263 | VV | 805 | 11598 | 0.29% | 0.056% |
| 79 | 7.283 | 7.263 | 7.331 | VV | 1556 | 31752 | 0.79% | 0.154% |
| 80 | 7.348 | 7.331 | 7.360 | VV | 697 | 9888 | 0.25% | 0.048% |
| 81 | 7.374 | 7.360 | 7.424 | VV | 791 | 16340 | 0.41% | 0.079% |
| 82 | 7.437 | 7.424 | 7.476 | VV | 537 | 9214 | 0.23% | 0.045% |
| 83 | 7.489 | 7.476 | 7.520 | VV | 922 | 7460 | 0.19% | 0.036% |
| 84 | 7.545 | 7.520 | 7.570 | VV | 1205 | 15334 | 0.38% | 0.075% |
| 85 | 7.635 | 7.570 | 7.664 | VV | 395 | 16098 | 0.40% | 0.078% |
| 86 | 7.676 | 7.664 | 7.692 | VV | 320 | 3839 | 0.10% | 0.019% |
| 87 | 7.705 | 7.692 | 7.728 | VV | 344 | 6212 | 0.15% | 0.030% |
| 88 | 7.736 | 7.728 | 7.751 | VV | 298 | 3319 | 0.08% | 0.016% |
| 89 | 7.762 | 7.751 | 7.784 | VV | 265 | 3959 | 0.10% | 0.019% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.803 | 7.784 | 7.824 | VV | 404 | 5657 | 0.14% | 0.028% |
| 91 | 7.849 | 7.824 | 7.882 | VV | 1070 | 15799 | 0.39% | 0.077% |
| 92 | 7.906 | 7.882 | 7.928 | VV | 1590 | 19524 | 0.49% | 0.095% |
| 93 | 7.942 | 7.928 | 7.963 | VV | 330 | 5477 | 0.14% | 0.027% |
| 94 | 7.974 | 7.963 | 8.041 | VV | 321 | 11498 | 0.29% | 0.056% |
| 95 | 8.059 | 8.041 | 8.131 | VV | 591 | 15689 | 0.39% | 0.076% |
| 96 | 8.153 | 8.131 | 8.224 | VV | 3823 | 49231 | 1.22% | 0.239% |
| 97 | 8.263 | 8.224 | 8.286 | VV | 504 | 12318 | 0.31% | 0.060% |
| 98 | 8.301 | 8.286 | 8.328 | VV | 399 | 5246 | 0.13% | 0.026% |
| 99 | 8.346 | 8.328 | 8.365 | VV | 314 | 3653 | 0.09% | 0.018% |
| 100 | 8.387 | 8.365 | 8.398 | VV | 479 | 5877 | 0.15% | 0.029% |
| 101 | 8.411 | 8.398 | 8.430 | VV | 537 | 8178 | 0.20% | 0.040% |
| 102 | 8.456 | 8.430 | 8.554 | VV | 17103 | 245392 | 6.10% | 1.193% |
| 103 | 8.563 | 8.554 | 8.586 | VV | 651 | 11702 | 0.29% | 0.057% |
| 104 | 8.611 | 8.586 | 8.626 | VV | 760 | 14417 | 0.36% | 0.070% |
| 105 | 8.641 | 8.626 | 8.673 | VV | 706 | 16003 | 0.40% | 0.078% |
| 106 | 8.692 | 8.673 | 8.733 | VV | 929 | 22428 | 0.56% | 0.109% |
| 107 | 8.754 | 8.733 | 8.780 | VV | 1141 | 10043 | 0.25% | 0.049% |
| 108 | 8.806 | 8.780 | 8.821 | VV | 492 | 7935 | 0.20% | 0.039% |
| 109 | 8.830 | 8.821 | 8.845 | VV | 1030 | 6243 | 0.16% | 0.030% |
| 110 | 8.873 | 8.845 | 8.890 | VV | 1429 | 22116 | 0.55% | 0.108% |
| 111 | 8.909 | 8.890 | 8.961 | VV | 1310 | 41873 | 1.04% | 0.204% |
| 112 | 8.990 | 8.961 | 9.040 | VV | 2377 | 54825 | 1.36% | 0.267% |
| 113 | 9.060 | 9.040 | 9.083 | VV | 923 | 17457 | 0.43% | 0.085% |
| 114 | 9.107 | 9.083 | 9.134 | VV | 713 | 18139 | 0.45% | 0.088% |
| 115 | 9.150 | 9.134 | 9.174 | VV | 576 | 10152 | 0.25% | 0.049% |
| 116 | 9.220 | 9.174 | 9.238 | VV | 313 | 9719 | 0.24% | 0.047% |
| 117 | 9.273 | 9.238 | 9.317 | VV | 584 | 18083 | 0.45% | 0.088% |
| 118 | 9.339 | 9.317 | 9.371 | VV | 1077 | 16383 | 0.41% | 0.080% |
| 119 | 9.376 | 9.371 | 9.458 | VV | 365 | 11866 | 0.30% | 0.058% |
| 120 | 9.480 | 9.458 | 9.503 | VV | 520 | 9003 | 0.22% | 0.044% |
| 121 | 9.531 | 9.503 | 9.644 | VV | 868 | 27471 | 0.68% | 0.134% |
| 122 | 9.670 | 9.644 | 9.714 | VV | 479 | 10464 | 0.26% | 0.051% |
| 123 | 9.751 | 9.714 | 9.804 | VV | 1604 | 25415 | 0.63% | 0.124% |
| 124 | 9.840 | 9.804 | 9.865 | VV | 470 | 8321 | 0.21% | 0.040% |
| 125 | 9.901 | 9.865 | 9.911 | VV | 397 | 6310 | 0.16% | 0.031% |
| 126 | 9.919 | 9.911 | 9.978 | VV | 271 | 4637 | 0.12% | 0.023% |
| 127 | 10.003 | 9.978 | 10.014 | PV | 188 | 1681 | 0.04% | 0.008% |
| 128 | 10.030 | 10.014 | 10.043 | VV | 215 | 2688 | 0.07% | 0.013% |
| 129 | 10.072 | 10.043 | 10.107 | VV | 394 | 10742 | 0.27% | 0.052% |
| 130 | 10.142 | 10.107 | 10.159 | VV | 670 | 13093 | 0.33% | 0.064% |
| 131 | 10.179 | 10.159 | 10.200 | VV | 557 | 9656 | 0.24% | 0.047% |
| 132 | 10.231 | 10.200 | 10.250 | VV | 461 | 10931 | 0.27% | 0.053% |
| 133 | 10.265 | 10.250 | 10.273 | VV | 624 | 5405 | 0.13% | 0.026% |
| 134 | 10.295 | 10.273 | 10.321 | VV | 476 | 11891 | 0.30% | 0.058% |
| 135 | 10.350 | 10.321 | 10.362 | VV | 593 | 11363 | 0.28% | 0.055% |
| 136 | 10.435 | 10.362 | 10.476 | VV | 1833 | 76539 | 1.90% | 0.372% |
| 137 | 10.486 | 10.476 | 10.524 | VV | 1235 | 26845 | 0.67% | 0.131% |
| 138 | 10.550 | 10.524 | 10.589 | VV | 1427 | 29313 | 0.73% | 0.143% |
| 139 | 10.615 | 10.589 | 10.644 | VV | 1208 | 23523 | 0.58% | 0.114% |
| 140 | 10.663 | 10.644 | 10.674 | VV | 401 | 6398 | 0.16% | 0.031% |
| 141 | 10.706 | 10.674 | 10.731 | VV | 435 | 11117 | 0.28% | 0.054% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.763 | 10.731 | 10.787 | VV | 386 | 11056 | 0.27% | 0.054% |
| 143 | 10.807 | 10.787 | 10.838 | VV | 403 | 9645 | 0.24% | 0.047% |
| 144 | 10.857 | 10.838 | 10.890 | VV | 776 | 15991 | 0.40% | 0.078% |
| 145 | 10.911 | 10.890 | 10.968 | VV | 1717 | 19150 | 0.48% | 0.093% |
| 146 | 11.004 | 10.968 | 11.078 | VV | 466 | 12711 | 0.32% | 0.062% |
| 147 | 11.120 | 11.078 | 11.154 | VV | 1518 | 23899 | 0.59% | 0.116% |
| 148 | 11.189 | 11.154 | 11.217 | VV | 1993 | 28506 | 0.71% | 0.139% |
| 149 | 11.238 | 11.217 | 11.248 | VV | 191 | 3155 | 0.08% | 0.015% |
| 150 | 11.280 | 11.248 | 11.331 | VV | 399 | 9965 | 0.25% | 0.048% |
| 151 | 11.340 | 11.331 | 11.390 | VV | 117 | 2165 | 0.05% | 0.011% |
| 152 | 11.404 | 11.390 | 11.427 | VV | 189 | 2775 | 0.07% | 0.013% |
| 153 | 11.472 | 11.427 | 11.498 | VV | 572 | 11390 | 0.28% | 0.055% |
| 154 | 11.510 | 11.498 | 11.561 | VV | 497 | 9948 | 0.25% | 0.048% |
| 155 | 11.596 | 11.561 | 11.620 | VV | 1082 | 22204 | 0.55% | 0.108% |
| 156 | 11.641 | 11.620 | 11.691 | VV | 634 | 13531 | 0.34% | 0.066% |
| 157 | 11.708 | 11.691 | 11.724 | VV | 567 | 2327 | 0.06% | 0.011% |
| 158 | 11.756 | 11.724 | 11.771 | VV | 239 | 4724 | 0.12% | 0.023% |
| 159 | 11.785 | 11.771 | 11.804 | VV | 370 | 6021 | 0.15% | 0.029% |
| 160 | 11.849 | 11.804 | 11.884 | VV | 1111 | 30928 | 0.77% | 0.150% |
| 161 | 11.899 | 11.884 | 11.924 | VV | 479 | 6912 | 0.17% | 0.034% |
| 162 | 11.951 | 11.924 | 11.964 | VV | 266 | 4922 | 0.12% | 0.024% |
| 163 | 11.995 | 11.964 | 12.038 | VV | 522 | 15437 | 0.38% | 0.075% |
| 164 | 12.074 | 12.038 | 12.088 | VV | 731 | 15627 | 0.39% | 0.076% |
| 165 | 12.098 | 12.088 | 12.123 | VV | 688 | 11757 | 0.29% | 0.057% |
| 166 | 12.137 | 12.123 | 12.171 | VV | 1598 | 11817 | 0.29% | 0.057% |
| 167 | 12.183 | 12.171 | 12.204 | VV | 375 | 5655 | 0.14% | 0.028% |
| 168 | 12.229 | 12.204 | 12.237 | VV | 316 | 4939 | 0.12% | 0.024% |
| 169 | 12.245 | 12.237 | 12.253 | VV | 433 | 2759 | 0.07% | 0.013% |
| 170 | 12.266 | 12.253 | 12.284 | VV | 439 | 6466 | 0.16% | 0.031% |
| 171 | 12.358 | 12.284 | 12.391 | VV | 1509 | 38738 | 0.96% | 0.188% |
| 172 | 12.436 | 12.391 | 12.465 | VV | 1157 | 19155 | 0.48% | 0.093% |
| 173 | 12.495 | 12.465 | 12.518 | VV | 2252 | 32247 | 0.80% | 0.157% |
| 174 | 12.531 | 12.518 | 12.578 | VV | 1214 | 13334 | 0.33% | 0.065% |
| 175 | 12.615 | 12.578 | 12.698 | VV | 821 | 21615 | 0.54% | 0.105% |
| 176 | 12.714 | 12.698 | 12.727 | VV | 182 | 2056 | 0.05% | 0.010% |
| 177 | 12.774 | 12.727 | 12.795 | VV | 319 | 8314 | 0.21% | 0.040% |
| 178 | 12.817 | 12.795 | 12.838 | VV | 281 | 5334 | 0.13% | 0.026% |
| 179 | 12.850 | 12.838 | 12.894 | VV | 363 | 9549 | 0.24% | 0.046% |
| 180 | 12.941 | 12.894 | 13.081 | VV | 318861 | 4022257 | 100.00% | 19.560% |
| 181 | 13.114 | 13.081 | 13.207 | VV | 1858 | 52311 | 1.30% | 0.254% |
| 182 | 13.224 | 13.207 | 13.242 | VV | 342 | 5916 | 0.15% | 0.029% |
| 183 | 13.251 | 13.242 | 13.271 | VV | 304 | 4784 | 0.12% | 0.023% |
| 184 | 13.311 | 13.271 | 13.344 | VV | 1427 | 17383 | 0.43% | 0.085% |
| 185 | 13.391 | 13.344 | 13.476 | VV | 548 | 26311 | 0.65% | 0.128% |
| 186 | 13.501 | 13.476 | 13.525 | VV | 564 | 11716 | 0.29% | 0.057% |
| 187 | 13.556 | 13.525 | 13.585 | VV | 854 | 18195 | 0.45% | 0.088% |
| 188 | 13.639 | 13.585 | 13.664 | VV | 1111 | 22754 | 0.57% | 0.111% |
| 189 | 13.692 | 13.664 | 13.760 | VV | 2235 | 33767 | 0.84% | 0.164% |
| 190 | 13.782 | 13.760 | 13.816 | VV | 195 | 3495 | 0.09% | 0.017% |
| 191 | 13.826 | 13.816 | 13.846 | VV | 63 | 935 | 0.02% | 0.005% |
| 192 | 13.867 | 13.846 | 14.018 | PV | 563 | 22249 | 0.55% | 0.108% |
| 193 | 14.032 | 14.018 | 14.051 | VV | 360 | 5085 | 0.13% | 0.025% |
| 194 | 14.128 | 14.051 | 14.231 | VV | 1085 | 37202 | 0.92% | 0.181% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 14.252 | 14.231 | 14.298 | VV | 600 | 11104 | 0.28% | 0.054% |
| 196 | 14.411 | 14.298 | 14.491 | VV | 851 | 46645 | 1.16% | 0.227% |
| 197 | 14.586 | 14.491 | 14.661 | VV | 608 | 42675 | 1.06% | 0.208% |
| 198 | 14.750 | 14.661 | 14.771 | VV | 1012 | 31310 | 0.78% | 0.152% |
| 199 | 14.793 | 14.771 | 14.841 | VV | 2368 | 41734 | 1.04% | 0.203% |
| 200 | 14.847 | 14.841 | 14.864 | VV | 567 | 4354 | 0.11% | 0.021% |
| 201 | 14.884 | 14.864 | 14.941 | VV | 365 | 9928 | 0.25% | 0.048% |
| 202 | 15.012 | 14.941 | 15.054 | VV | 310 | 11294 | 0.28% | 0.055% |
| 203 | 15.148 | 15.128 | 15.162 | VV | 127 | 1963 | 0.05% | 0.010% |
| 204 | 15.210 | 15.162 | 15.248 | VV | 840 | 19070 | 0.47% | 0.093% |
| 205 | 15.313 | 15.248 | 15.398 | VV | 683 | 19035 | 0.47% | 0.093% |
| 206 | 15.494 | 15.398 | 15.531 | PV | 117 | 5789 | 0.14% | 0.028% |
| 207 | 15.594 | 15.531 | 15.651 | VV | 478 | 13019 | 0.32% | 0.063% |
| 208 | 15.665 | 15.651 | 15.740 | VV | 222 | 9983 | 0.25% | 0.049% |
| 209 | 15.772 | 15.740 | 15.791 | PV | 558 | 8190 | 0.20% | 0.040% |
| 210 | 15.813 | 15.791 | 15.892 | VV | 1813 | 29489 | 0.73% | 0.143% |
| 211 | 15.952 | 15.892 | 15.973 | VV | 628 | 12332 | 0.31% | 0.060% |
| 212 | 15.989 | 15.973 | 16.090 | VV | 537 | 12134 | 0.30% | 0.059% |
| 213 | 16.171 | 16.090 | 16.213 | VV | 194 | 7147 | 0.18% | 0.035% |
| 214 | 16.295 | 16.213 | 16.324 | PV | 1063 | 22982 | 0.57% | 0.112% |
| 215 | 16.339 | 16.324 | 16.391 | VV | 508 | 13038 | 0.32% | 0.063% |
| 216 | 16.421 | 16.391 | 16.561 | VV | 303 | 19094 | 0.47% | 0.093% |
| 217 | 16.584 | 16.561 | 16.610 | VV | 147 | 3630 | 0.09% | 0.018% |
| 218 | 16.655 | 16.610 | 16.681 | VV | 780 | 17322 | 0.43% | 0.084% |
| 219 | 16.761 | 16.681 | 16.854 | VV | 2153 | 58771 | 1.46% | 0.286% |
| 220 | 16.870 | 16.854 | 16.901 | VV | 192 | 3419 | 0.09% | 0.017% |
| 221 | 17.040 | 16.901 | 17.074 | VV | 534 | 23794 | 0.59% | 0.116% |
| 222 | 17.116 | 17.074 | 17.178 | VV | 411 | 17166 | 0.43% | 0.083% |
| 223 | 17.210 | 17.178 | 17.261 | VV | 2303 | 39862 | 0.99% | 0.194% |
| 224 | 17.307 | 17.261 | 17.348 | VV | 1097 | 29801 | 0.74% | 0.145% |
| 225 | 17.393 | 17.348 | 17.418 | VV | 910 | 29811 | 0.74% | 0.145% |
| 226 | 17.485 | 17.418 | 17.564 | VV | 1344 | 87279 | 2.17% | 0.424% |
| 227 | 17.647 | 17.564 | 17.680 | VV | 4088 | 117700 | 2.93% | 0.572% |
| 228 | 17.702 | 17.680 | 17.737 | VV | 1323 | 39991 | 0.99% | 0.194% |
| 229 | 17.778 | 17.737 | 17.848 | VV | 1157 | 65767 | 1.64% | 0.320% |
| 230 | 17.924 | 17.848 | 17.978 | VV | 1881 | 88970 | 2.21% | 0.433% |
| 231 | 18.068 | 17.978 | 18.128 | VV | 4276 | 137113 | 3.41% | 0.667% |
| 232 | 18.161 | 18.128 | 18.238 | VV | 1686 | 62841 | 1.56% | 0.306% |
| 233 | 18.258 | 18.238 | 18.274 | VV | 912 | 19574 | 0.49% | 0.095% |
| 234 | 18.329 | 18.274 | 18.361 | VV | 1497 | 63661 | 1.58% | 0.310% |
| 235 | 18.382 | 18.361 | 18.404 | VV | 1439 | 35231 | 0.88% | 0.171% |
| 236 | 18.479 | 18.404 | 18.558 | VV | 5135 | 201022 | 5.00% | 0.978% |
| 237 | 18.565 | 18.558 | 18.601 | VV | 1614 | 36765 | 0.91% | 0.179% |
| 238 | 18.634 | 18.601 | 18.684 | VV | 1838 | 79063 | 1.97% | 0.384% |
| 239 | 18.781 | 18.684 | 18.807 | VV | 2020 | 126484 | 3.14% | 0.615% |
| 240 | 18.874 | 18.807 | 18.944 | VV | 4330 | 203122 | 5.05% | 0.988% |
| 241 | 18.960 | 18.944 | 19.001 | VV | 2121 | 67789 | 1.69% | 0.330% |
| 242 | 19.045 | 19.001 | 19.093 | VV | 3348 | 130482 | 3.24% | 0.635% |
| 243 | 19.122 | 19.093 | 19.151 | VV | 2004 | 65536 | 1.63% | 0.319% |
| 244 | 19.260 | 19.151 | 19.337 | VV | 5186 | 316821 | 7.88% | 1.541% |
| 245 | 19.561 | 19.337 | 19.600 | VV | 5759 | 531091 | 13.20% | 2.583% |
| 246 | 19.634 | 19.600 | 19.671 | VV | 5515 | 195463 | 4.86% | 0.951% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 19.878 | 19.671 | 19.941 | VV | 5744 | 829028 | 20.61% | 4.032% |
| 248 | 19.998 | 19.941 | 20.020 | VV | 8078 | 306680 | 7.62% | 1.491% |
| 249 | 20.051 | 20.020 | 20.110 | VV | 13072 | 404394 | 10.05% | 1.967% |
| 250 | 20.287 | 20.110 | 20.304 | VV | 7692 | 808346 | 20.10% | 3.931% |
| 251 | 20.353 | 20.304 | 20.434 | VV | 8170 | 578581 | 14.38% | 2.814% |
| 252 | 20.523 | 20.434 | 20.654 | VV | 11366 | 1072913 | 26.67% | 5.218% |
| 253 | 20.722 | 20.654 | 20.761 | VV | 8630 | 502733 | 12.50% | 2.445% |
| 254 | 20.785 | 20.761 | 20.998 | VV | 8748 | 1075737 | 26.74% | 5.231% |
| 255 | 21.051 | 20.998 | 21.107 | VV | 10796 | 554999 | 13.80% | 2.699% |
| 256 | 21.133 | 21.107 | 21.171 | VV | 7806 | 291473 | 7.25% | 1.417% |
| 257 | 21.288 | 21.171 | 21.306 | VV | 8781 | 652921 | 16.23% | 3.175% |
| 258 | 21.318 | 21.306 | 21.464 | VV | 8693 | 749057 | 18.62% | 3.643% |
| 259 | 21.602 | 21.464 | 21.624 | VV | 8609 | 709767 | 17.65% | 3.452% |
| 260 | 21.670 | 21.624 | 21.762 | VV | 10507 | 679433 | 16.89% | 3.304% |
| 261 | 21.793 | 21.762 | 21.814 | VV | 6844 | 213447 | 5.31% | 1.038% |
| 262 | 21.884 | 21.814 | 21.904 | VV | 6870 | 366952 | 9.12% | 1.785% |
| 263 | 21.914 | 21.904 | 21.981 | VV | 7694 | 311060 | 7.73% | 1.513% |
| 264 | 22.027 | 21.981 | 22.101 | VBA | 6969 | 485572 | 12.07% | 2.361% |

Sum of corrected areas: 20563193

Aliphatic EPH 111424.M Tue Nov 19 10:54:35 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048774.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 07:59
Operator : YP/AJ
Sample : P4860-06
Misc :
ALS Vial : 75 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-009

Integration File: sample.E
Quant Time: Nov 19 10:59:28 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... | 7.363 | 7952476 | 45.169 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 90.34% |
| 6) S 2-Flurobiphenyl (SURR) | 8.213 | 5023359 | 43.617 ug/ml |
| Spiked Amount 50.000 Range | 0 - 131 | Recovery = | 87.23% |
| 11) S ortho-Terphenyl (SURR) | 11.250 | 5331881 | 27.722 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 55.44% |
| **Target Compounds** | | | |

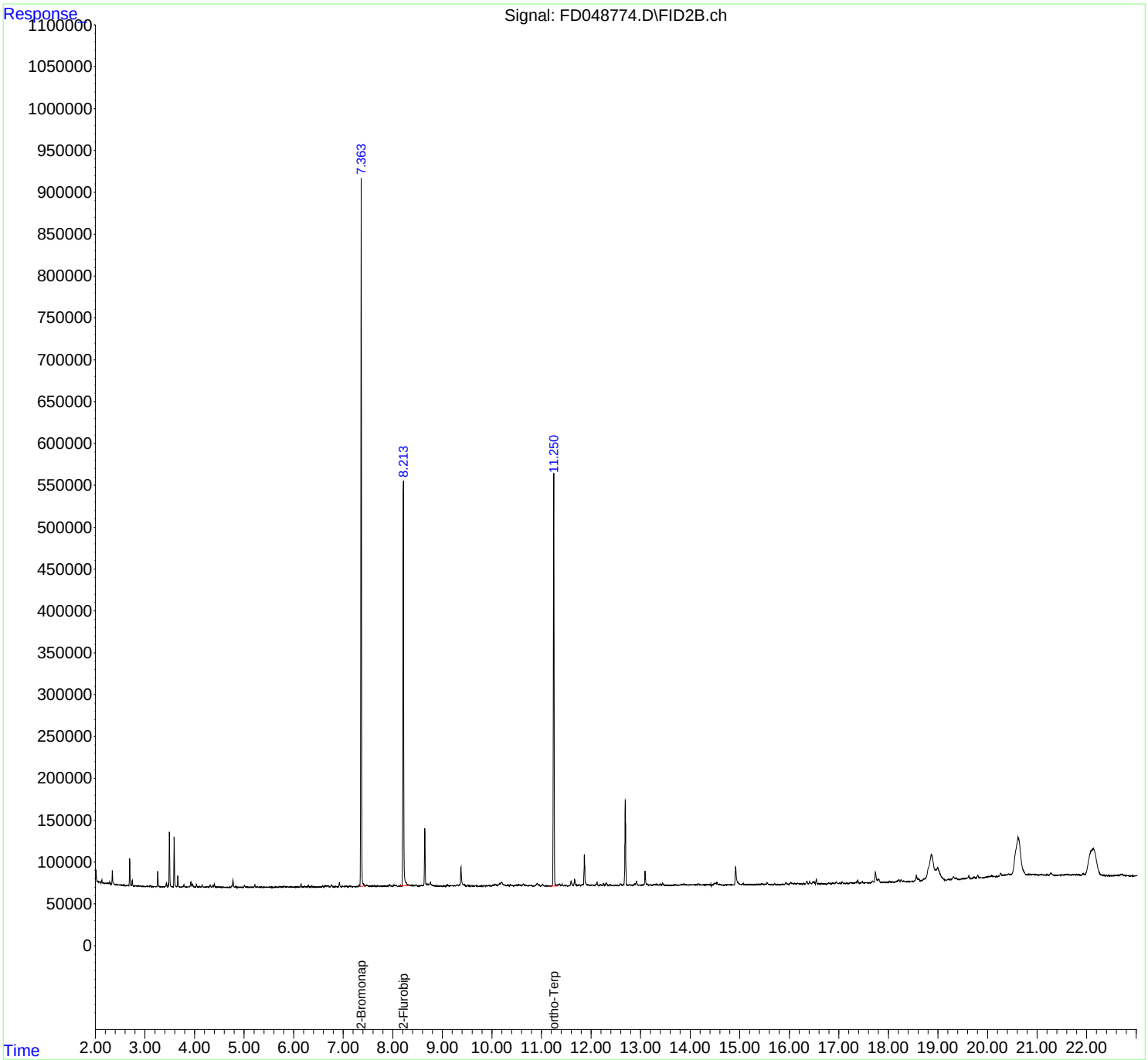
(f)=RT Delta > 1/2 Window (m)=manual int.

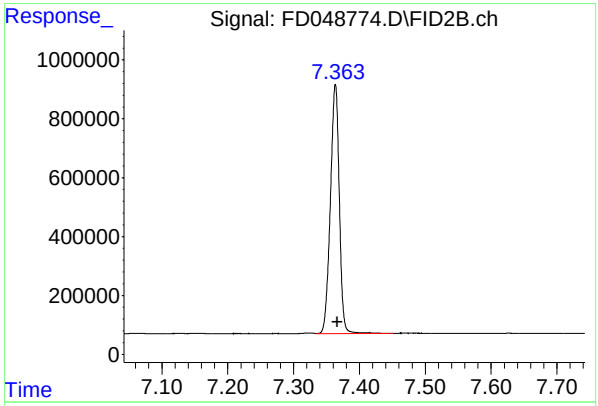
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048774.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 07:59
Operator : YP/AJ
Sample : P4860-06
Misc :
ALS Vial : 75 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-009

Integration File: sample.E
Quant Time: Nov 19 10:59:28 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

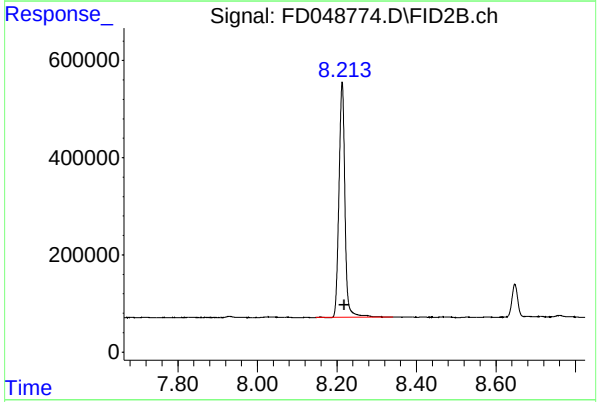





#4 2-Bromonaphthalene (SURR)

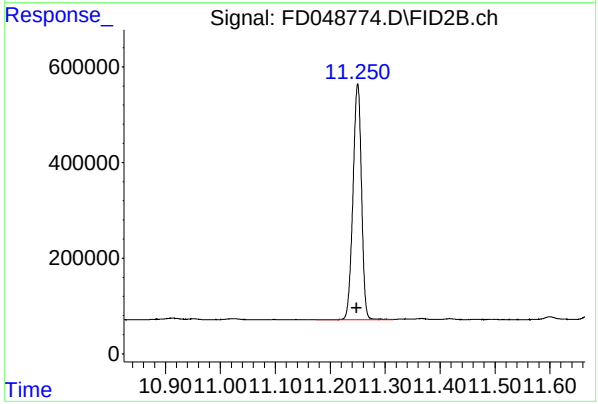
R.T.: 7.363 min
Delta R.T.: -0.003 min
Response: 7952476
Conc: 45.17 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
PH2-BOT-009




#6 2-Flurobiphenyl (SURR)

R.T.: 8.213 min
Delta R.T.: -0.005 min
Response: 5023359
Conc: 43.62 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.250 min
Delta R.T.: 0.001 min
Response: 5331881
Conc: 27.72 ug/ml

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048774.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 07:59
Sample : P4860-06
Misc :
ALS Vial : 75 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 | 4.106 | 4.095 | 4.130 | PV | 394 | 2291 | 0.03% | 0.007% |
| 2 | 4.152 | 4.130 | 4.180 | PV | 2757 | 26886 | 0.33% | 0.087% |
| 3 | 4.184 | 4.180 | 4.222 | VV | 250 | 2187 | 0.03% | 0.007% |
| 4 | 4.228 | 4.222 | 4.237 | VV | 223 | 1329 | 0.02% | 0.004% |
| 5 | 4.265 | 4.237 | 4.287 | VV | 838 | 10419 | 0.13% | 0.034% |
| 6 | 4.317 | 4.287 | 4.338 | VV | 2914 | 33278 | 0.41% | 0.108% |
| 7 | 4.350 | 4.338 | 4.355 | VV | 338 | 2630 | 0.03% | 0.008% |
| 8 | 4.373 | 4.355 | 4.386 | VV | 2719 | 25797 | 0.32% | 0.083% |
| 9 | 4.401 | 4.386 | 4.428 | VV | 4201 | 39883 | 0.50% | 0.129% |
| 10 | 4.433 | 4.428 | 4.443 | VV | 345 | 2316 | 0.03% | 0.007% |
| 11 | 4.472 | 4.449 | 4.496 | VV | 772 | 10666 | 0.13% | 0.034% |
| 12 | 4.516 | 4.496 | 4.537 | VV | 784 | 10555 | 0.13% | 0.034% |
| 13 | 4.544 | 4.537 | 4.557 | VV | 487 | 3160 | 0.04% | 0.010% |
| 14 | 4.587 | 4.557 | 4.614 | VV | 761 | 10657 | 0.13% | 0.034% |
| 15 | 4.618 | 4.614 | 4.632 | PV | 216 | 1009 | 0.01% | 0.003% |
| 16 | 4.638 | 4.632 | 4.645 | VV | 288 | 1628 | 0.02% | 0.005% |
| 17 | 4.647 | 4.645 | 4.659 | VV | 238 | 1247 | 0.02% | 0.004% |
| 18 | 4.698 | 4.680 | 4.730 | PV | 664 | 10613 | 0.13% | 0.034% |
| 19 | 4.752 | 4.730 | 4.759 | VV | 1932 | 18896 | 0.24% | 0.061% |
| 20 | 4.775 | 4.759 | 4.808 | VV | 8846 | 101211 | 1.26% | 0.327% |
| 21 | 4.831 | 4.808 | 4.869 | VV | 1875 | 22882 | 0.28% | 0.074% |
| 22 | 4.882 | 4.869 | 4.888 | VV | 355 | 3202 | 0.04% | 0.010% |
| 23 | 4.898 | 4.888 | 4.913 | VV | 412 | 4729 | 0.06% | 0.015% |
| 24 | 4.921 | 4.913 | 4.935 | VV | 357 | 2702 | 0.03% | 0.009% |
| 25 | 4.941 | 4.935 | 4.947 | VV | 340 | 1648 | 0.02% | 0.005% |
| 26 | 4.964 | 4.947 | 4.976 | VV | 739 | 7659 | 0.10% | 0.025% |
| 27 | 4.982 | 4.976 | 4.986 | VV | 271 | 1409 | 0.02% | 0.005% |
| 28 | 5.003 | 4.986 | 5.038 | VV | 2582 | 34045 | 0.42% | 0.110% |
| 29 | 5.044 | 5.038 | 5.048 | VV | 384 | 2018 | 0.03% | 0.007% |
| 30 | 5.063 | 5.048 | 5.076 | VV | 641 | 6334 | 0.08% | 0.020% |
| 31 | 5.080 | 5.076 | 5.102 | VV | 416 | 4422 | 0.06% | 0.014% |
| 32 | 5.107 | 5.102 | 5.111 | VV | 289 | 1150 | 0.01% | 0.004% |
| 33 | 5.124 | 5.111 | 5.129 | VV | 386 | 2931 | 0.04% | 0.009% |
| 34 | 5.136 | 5.129 | 5.158 | VV | 467 | 5135 | 0.06% | 0.017% |
| 35 | 5.175 | 5.158 | 5.196 | VV | 1124 | 13099 | 0.16% | 0.042% |
| 36 | 5.216 | 5.196 | 5.235 | VV | 3333 | 34377 | 0.43% | 0.111% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.241 | 5.235 | 5.253 | VV | 429 | 3783 | 0.05% | 0.012% |
| 38 | 5.272 | 5.253 | 5.290 | VV | 1043 | 11664 | 0.15% | 0.038% |
| 39 | 5.296 | 5.290 | 5.299 | VV | 209 | 1061 | 0.01% | 0.003% |
| 40 | 5.310 | 5.299 | 5.325 | VV | 406 | 4557 | 0.06% | 0.015% |
| 41 | 5.330 | 5.325 | 5.335 | VV | 365 | 2108 | 0.03% | 0.007% |
| 42 | 5.346 | 5.335 | 5.350 | VV | 467 | 3558 | 0.04% | 0.011% |
| 43 | 5.355 | 5.350 | 5.400 | VV | 561 | 9767 | 0.12% | 0.032% |
| 44 | 5.420 | 5.400 | 5.448 | VV | 558 | 9973 | 0.12% | 0.032% |
| 45 | 5.467 | 5.448 | 5.488 | VV | 593 | 8215 | 0.10% | 0.027% |
| 46 | 5.505 | 5.488 | 5.516 | VV | 605 | 5691 | 0.07% | 0.018% |
| 47 | 5.531 | 5.516 | 5.554 | VV | 611 | 7940 | 0.10% | 0.026% |
| 48 | 5.560 | 5.554 | 5.570 | VV | 286 | 1312 | 0.02% | 0.004% |
| 49 | 5.597 | 5.582 | 5.605 | VV | 374 | 2478 | 0.03% | 0.008% |
| 50 | 5.640 | 5.605 | 5.646 | VV | 416 | 7192 | 0.09% | 0.023% |
| 51 | 5.656 | 5.646 | 5.667 | VV | 481 | 3917 | 0.05% | 0.013% |
| 52 | 5.669 | 5.667 | 5.682 | VV | 311 | 1886 | 0.02% | 0.006% |
| 53 | 5.695 | 5.682 | 5.701 | VV | 406 | 2641 | 0.03% | 0.009% |
| 54 | 5.718 | 5.701 | 5.755 | VV | 1243 | 19374 | 0.24% | 0.063% |
| 55 | 5.770 | 5.755 | 5.789 | VV | 785 | 9512 | 0.12% | 0.031% |
| 56 | 5.808 | 5.789 | 5.838 | VV | 1928 | 24959 | 0.31% | 0.081% |
| 57 | 5.843 | 5.838 | 5.848 | VV | 355 | 1384 | 0.02% | 0.004% |
| 58 | 5.881 | 5.848 | 5.913 | VV | 976 | 18261 | 0.23% | 0.059% |
| 59 | 5.944 | 5.913 | 5.973 | VV | 830 | 17645 | 0.22% | 0.057% |
| 60 | 5.982 | 5.973 | 5.986 | VV | 323 | 2006 | 0.02% | 0.006% |
| 61 | 6.007 | 5.986 | 6.018 | VV | 546 | 7329 | 0.09% | 0.024% |
| 62 | 6.023 | 6.018 | 6.035 | VV | 402 | 2671 | 0.03% | 0.009% |
| 63 | 6.043 | 6.035 | 6.075 | VV | 419 | 6894 | 0.09% | 0.022% |
| 64 | 6.080 | 6.075 | 6.093 | VV | 259 | 1907 | 0.02% | 0.006% |
| 65 | 6.111 | 6.103 | 6.117 | VV | 298 | 1465 | 0.02% | 0.005% |
| 66 | 6.124 | 6.117 | 6.130 | VV | 205 | 1004 | 0.01% | 0.003% |
| 67 | 6.148 | 6.130 | 6.173 | VV | 4100 | 41569 | 0.52% | 0.134% |
| 68 | 6.184 | 6.173 | 6.208 | VV | 486 | 6616 | 0.08% | 0.021% |
| 69 | 6.228 | 6.208 | 6.248 | VV | 1322 | 15096 | 0.19% | 0.049% |
| 70 | 6.266 | 6.248 | 6.278 | VV | 910 | 10336 | 0.13% | 0.033% |
| 71 | 6.295 | 6.278 | 6.314 | VV | 2661 | 28828 | 0.36% | 0.093% |
| 72 | 6.327 | 6.314 | 6.348 | VV | 944 | 10627 | 0.13% | 0.034% |
| 73 | 6.366 | 6.348 | 6.388 | VV | 1430 | 16766 | 0.21% | 0.054% |
| 74 | 6.394 | 6.388 | 6.402 | VV | 379 | 2387 | 0.03% | 0.008% |
| 75 | 6.406 | 6.402 | 6.431 | VV | 469 | 4437 | 0.06% | 0.014% |
| 76 | 6.443 | 6.438 | 6.453 | VV | 297 | 1871 | 0.02% | 0.006% |
| 77 | 6.467 | 6.453 | 6.498 | VV | 684 | 10257 | 0.13% | 0.033% |
| 78 | 6.518 | 6.498 | 6.536 | VV | 637 | 10076 | 0.13% | 0.033% |
| 79 | 6.543 | 6.536 | 6.552 | VV | 483 | 3769 | 0.05% | 0.012% |
| 80 | 6.561 | 6.552 | 6.565 | VV | 438 | 3135 | 0.04% | 0.010% |
| 81 | 6.585 | 6.565 | 6.610 | VV | 1697 | 23498 | 0.29% | 0.076% |
| 82 | 6.639 | 6.610 | 6.673 | VV | 2353 | 45345 | 0.56% | 0.147% |
| 83 | 6.686 | 6.673 | 6.695 | VV | 1869 | 20095 | 0.25% | 0.065% |
| 84 | 6.700 | 6.695 | 6.735 | VV | 1690 | 22281 | 0.28% | 0.072% |
| 85 | 6.763 | 6.735 | 6.798 | VV | 2867 | 48295 | 0.60% | 0.156% |
| 86 | 6.802 | 6.798 | 6.818 | VV | 593 | 6368 | 0.08% | 0.021% |
| 87 | 6.867 | 6.818 | 6.898 | VV | 830 | 26521 | 0.33% | 0.086% |
| 88 | 6.923 | 6.898 | 6.955 | VV | 5551 | 66851 | 0.83% | 0.216% |
| 89 | 6.958 | 6.955 | 6.965 | VV | 420 | 2385 | 0.03% | 0.008% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 6.984 | 6.965 | 7.014 | VV | 1060 | 20148 | 0.25% | 0.065% |
| 91 | 7.030 | 7.014 | 7.045 | VV | 1163 | 14305 | 0.18% | 0.046% |
| 92 | 7.063 | 7.045 | 7.082 | VV | 1539 | 22677 | 0.28% | 0.073% |
| 93 | 7.099 | 7.082 | 7.110 | VV | 758 | 8644 | 0.11% | 0.028% |
| 94 | 7.124 | 7.110 | 7.140 | VV | 1264 | 16673 | 0.21% | 0.054% |
| 95 | 7.156 | 7.140 | 7.182 | VV | 1609 | 23007 | 0.29% | 0.074% |
| 96 | 7.190 | 7.182 | 7.194 | VV | 452 | 3157 | 0.04% | 0.010% |
| 97 | 7.213 | 7.194 | 7.222 | VV | 927 | 11141 | 0.14% | 0.036% |
| 98 | 7.225 | 7.222 | 7.258 | VV | 718 | 10249 | 0.13% | 0.033% |
| 99 | 7.273 | 7.258 | 7.290 | VV | 852 | 12076 | 0.15% | 0.039% |
| 100 | 7.323 | 7.290 | 7.337 | VV | 2769 | 37891 | 0.47% | 0.122% |
| 101 | 7.364 | 7.337 | 7.451 | VV | 847488 | 8030151 | 100.00% | 25.950% |
| 102 | 7.470 | 7.451 | 7.477 | VV | 1997 | 27957 | 0.35% | 0.090% |
| 103 | 7.479 | 7.477 | 7.531 | VV | 2002 | 47981 | 0.60% | 0.155% |
| 104 | 7.536 | 7.531 | 7.567 | VV | 1166 | 21272 | 0.26% | 0.069% |
| 105 | 7.583 | 7.567 | 7.608 | VV | 1329 | 28393 | 0.35% | 0.092% |
| 106 | 7.627 | 7.608 | 7.648 | VV | 1978 | 32514 | 0.40% | 0.105% |
| 107 | 7.657 | 7.648 | 7.668 | VV | 1102 | 11495 | 0.14% | 0.037% |
| 108 | 7.682 | 7.668 | 7.703 | VV | 1275 | 22964 | 0.29% | 0.074% |
| 109 | 7.717 | 7.703 | 7.747 | VV | 1402 | 27590 | 0.34% | 0.089% |
| 110 | 7.762 | 7.747 | 7.782 | VV | 1054 | 19904 | 0.25% | 0.064% |
| 111 | 7.787 | 7.782 | 7.804 | VV | 1038 | 11791 | 0.15% | 0.038% |
| 112 | 7.836 | 7.804 | 7.855 | VV | 1488 | 35062 | 0.44% | 0.113% |
| 113 | 7.859 | 7.855 | 7.863 | VV | 1010 | 4649 | 0.06% | 0.015% |
| 114 | 7.870 | 7.863 | 7.911 | VV | 1185 | 30276 | 0.38% | 0.098% |
| 115 | 7.930 | 7.911 | 7.965 | VV | 3371 | 59371 | 0.74% | 0.192% |
| 116 | 7.969 | 7.965 | 7.999 | VV | 1213 | 20574 | 0.26% | 0.066% |
| 117 | 8.025 | 7.999 | 8.067 | VV | 2261 | 64745 | 0.81% | 0.209% |
| 118 | 8.075 | 8.067 | 8.103 | VV | 1732 | 23889 | 0.30% | 0.077% |
| 119 | 8.125 | 8.103 | 8.143 | VV | 1324 | 21571 | 0.27% | 0.070% |
| 120 | 8.159 | 8.143 | 8.179 | VV | 1732 | 24750 | 0.31% | 0.080% |
| 121 | 8.213 | 8.179 | 8.265 | VV | 485498 | 5045323 | 62.83% | 16.304% |
| 122 | 8.273 | 8.265 | 8.364 | VV | 5202 | 159460 | 1.99% | 0.515% |
| 123 | 8.384 | 8.364 | 8.403 | VV | 2058 | 39941 | 0.50% | 0.129% |
| 124 | 8.414 | 8.403 | 8.418 | VV | 1827 | 15355 | 0.19% | 0.050% |
| 125 | 8.422 | 8.418 | 8.447 | VV | 1782 | 27561 | 0.34% | 0.089% |
| 126 | 8.467 | 8.447 | 8.508 | VV | 2202 | 56757 | 0.71% | 0.183% |
| 127 | 8.529 | 8.508 | 8.543 | VV | 1724 | 27391 | 0.34% | 0.089% |
| 128 | 8.549 | 8.543 | 8.556 | VV | 1254 | 9976 | 0.12% | 0.032% |
| 129 | 8.579 | 8.556 | 8.596 | VV | 1819 | 36491 | 0.45% | 0.118% |
| 130 | 8.600 | 8.596 | 8.605 | VV | 1416 | 7521 | 0.09% | 0.024% |
| 131 | 8.647 | 8.605 | 8.672 | VV | 69830 | 740272 | 9.22% | 2.392% |
| 132 | 8.682 | 8.672 | 8.695 | VV | 3202 | 40879 | 0.51% | 0.132% |
| 133 | 8.714 | 8.695 | 8.731 | VV | 3143 | 57826 | 0.72% | 0.187% |
| 134 | 8.759 | 8.731 | 8.783 | VV | 5256 | 102568 | 1.28% | 0.331% |
| 135 | 8.790 | 8.783 | 8.817 | VV | 2477 | 39416 | 0.49% | 0.127% |
| 136 | 8.831 | 8.817 | 8.859 | VV | 1974 | 31625 | 0.39% | 0.102% |
| 137 | 8.879 | 8.859 | 8.904 | VV | 1453 | 27642 | 0.34% | 0.089% |
| 138 | 8.915 | 8.904 | 8.923 | VV | 952 | 8487 | 0.11% | 0.027% |
| 139 | 8.931 | 8.923 | 8.951 | VV | 910 | 13797 | 0.17% | 0.045% |
| 140 | 8.961 | 8.951 | 9.005 | VV | 1148 | 25800 | 0.32% | 0.083% |
| 141 | 9.026 | 9.005 | 9.037 | VV | 1165 | 16028 | 0.20% | 0.052% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.047 | 9.037 | 9.087 | VV | 1162 | 27221 | 0.34% | 0.088% |
| 143 | 9.106 | 9.087 | 9.144 | VV | 2478 | 49749 | 0.62% | 0.161% |
| 144 | 9.180 | 9.144 | 9.197 | VV | 1384 | 36821 | 0.46% | 0.119% |
| 145 | 9.201 | 9.197 | 9.231 | VV | 1261 | 22470 | 0.28% | 0.073% |
| 146 | 9.248 | 9.231 | 9.266 | VV | 1303 | 23376 | 0.29% | 0.076% |
| 147 | 9.296 | 9.266 | 9.307 | VV | 2110 | 42397 | 0.53% | 0.137% |
| 148 | 9.312 | 9.307 | 9.328 | VV | 2043 | 25550 | 0.32% | 0.083% |
| 149 | 9.346 | 9.328 | 9.354 | VV | 2568 | 34957 | 0.44% | 0.113% |
| 150 | 9.377 | 9.354 | 9.429 | VV | 23020 | 349441 | 4.35% | 1.129% |
| 151 | 9.443 | 9.429 | 9.490 | VV | 3074 | 54491 | 0.68% | 0.176% |
| 152 | 9.519 | 9.490 | 9.550 | VV | 2249 | 42183 | 0.53% | 0.136% |
| 153 | 9.554 | 9.550 | 9.568 | VV | 800 | 7387 | 0.09% | 0.024% |
| 154 | 9.598 | 9.568 | 9.637 | VV | 1135 | 34135 | 0.43% | 0.110% |
| 155 | 9.671 | 9.637 | 9.684 | VV | 1128 | 25094 | 0.31% | 0.081% |
| 156 | 9.688 | 9.684 | 9.710 | VV | 929 | 11746 | 0.15% | 0.038% |
| 157 | 9.713 | 9.710 | 9.719 | VV | 496 | 2402 | 0.03% | 0.008% |
| 158 | 9.729 | 9.719 | 9.735 | VV | 564 | 4461 | 0.06% | 0.014% |
| 159 | 9.739 | 9.735 | 9.747 | VV | 592 | 3363 | 0.04% | 0.011% |
| 160 | 9.772 | 9.747 | 9.778 | VV | 775 | 11521 | 0.14% | 0.037% |
| 161 | 9.793 | 9.778 | 9.814 | VV | 905 | 13907 | 0.17% | 0.045% |
| 162 | 9.833 | 9.814 | 9.855 | VV | 1281 | 21805 | 0.27% | 0.070% |
| 163 | 9.864 | 9.855 | 9.871 | VV | 847 | 7776 | 0.10% | 0.025% |
| 164 | 9.877 | 9.871 | 9.880 | VV | 886 | 4050 | 0.05% | 0.013% |
| 165 | 9.888 | 9.880 | 9.895 | VV | 841 | 7443 | 0.09% | 0.024% |
| 166 | 9.911 | 9.895 | 9.928 | VV | 1227 | 20700 | 0.26% | 0.067% |
| 167 | 9.942 | 9.928 | 9.982 | VV | 1210 | 30499 | 0.38% | 0.099% |
| 168 | 9.997 | 9.982 | 10.002 | VV | 955 | 10735 | 0.13% | 0.035% |
| 169 | 10.021 | 10.002 | 10.034 | VV | 1966 | 26067 | 0.32% | 0.084% |
| 170 | 10.057 | 10.034 | 10.107 | VV | 2646 | 91793 | 1.14% | 0.297% |
| 171 | 10.115 | 10.107 | 10.124 | VV | 1663 | 15077 | 0.19% | 0.049% |
| 172 | 10.157 | 10.124 | 10.163 | VV | 3642 | 62768 | 0.78% | 0.203% |
| 173 | 10.198 | 10.163 | 10.288 | VV | 5217 | 215785 | 2.69% | 0.697% |
| 174 | 10.309 | 10.288 | 10.323 | VV | 1684 | 28670 | 0.36% | 0.093% |
| 175 | 10.327 | 10.323 | 10.356 | VV | 1667 | 25138 | 0.31% | 0.081% |
| 176 | 10.378 | 10.356 | 10.412 | VV | 2593 | 51161 | 0.64% | 0.165% |
| 177 | 10.423 | 10.412 | 10.446 | VV | 1121 | 18717 | 0.23% | 0.060% |
| 178 | 10.476 | 10.446 | 10.487 | VV | 1563 | 31393 | 0.39% | 0.101% |
| 179 | 10.497 | 10.487 | 10.516 | VV | 1729 | 26442 | 0.33% | 0.085% |
| 180 | 10.539 | 10.516 | 10.575 | VV | 2191 | 60091 | 0.75% | 0.194% |
| 181 | 10.578 | 10.575 | 10.600 | VV | 1536 | 18171 | 0.23% | 0.059% |
| 182 | 10.633 | 10.600 | 10.660 | VV | 2696 | 67212 | 0.84% | 0.217% |
| 183 | 10.673 | 10.660 | 10.700 | VV | 1824 | 31741 | 0.40% | 0.103% |
| 184 | 10.704 | 10.700 | 10.726 | VV | 948 | 11008 | 0.14% | 0.036% |
| 185 | 10.744 | 10.726 | 10.767 | VV | 1065 | 21128 | 0.26% | 0.068% |
| 186 | 10.793 | 10.767 | 10.827 | VV | 1394 | 36721 | 0.46% | 0.119% |
| 187 | 10.832 | 10.827 | 10.836 | VV | 444 | 2402 | 0.03% | 0.008% |
| 188 | 10.913 | 10.836 | 10.938 | VV | 3852 | 101110 | 1.26% | 0.327% |
| 189 | 10.952 | 10.938 | 10.978 | VV | 2607 | 35136 | 0.44% | 0.114% |
| 190 | 10.984 | 10.978 | 10.990 | VV | 708 | 3916 | 0.05% | 0.013% |
| 191 | 10.994 | 10.990 | 10.998 | VV | 803 | 3362 | 0.04% | 0.011% |
| 192 | 11.022 | 10.998 | 11.060 | VV | 2679 | 52796 | 0.66% | 0.171% |
| 193 | 11.067 | 11.060 | 11.072 | VV | 517 | 3664 | 0.05% | 0.012% |
| 194 | 11.097 | 11.072 | 11.125 | VV | 885 | 15833 | 0.20% | 0.051% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 11.138 | 11.125 | 11.153 | VV | 743 | 8392 | 0.10% | 0.027% |
| 196 | 11.174 | 11.153 | 11.187 | VV | 625 | 9085 | 0.11% | 0.029% |
| 197 | 11.193 | 11.187 | 11.199 | VV | 539 | 2927 | 0.04% | 0.009% |
| 198 | 11.250 | 11.199 | 11.315 | VV | 493895 | 5364929 | 66.81% | 17.337% |
| 199 | 11.336 | 11.315 | 11.346 | VV | 2062 | 31442 | 0.39% | 0.102% |
| 200 | 11.366 | 11.346 | 11.390 | VV | 2913 | 50773 | 0.63% | 0.164% |
| 201 | 11.417 | 11.390 | 11.443 | VV | 2768 | 44952 | 0.56% | 0.145% |
| 202 | 11.463 | 11.443 | 11.481 | VV | 1105 | 19457 | 0.24% | 0.063% |
| 203 | 11.495 | 11.481 | 11.510 | VV | 1059 | 14613 | 0.18% | 0.047% |
| 204 | 11.516 | 11.510 | 11.532 | VV | 751 | 8553 | 0.11% | 0.028% |
| 205 | 11.535 | 11.532 | 11.556 | VV | 665 | 8880 | 0.11% | 0.029% |
| 206 | 11.601 | 11.556 | 11.647 | VV | 6512 | 129242 | 1.61% | 0.418% |
| 207 | 11.670 | 11.647 | 11.697 | VV | 8396 | 116936 | 1.46% | 0.378% |
| 208 | 11.701 | 11.697 | 11.730 | VV | 1843 | 26723 | 0.33% | 0.086% |
| 209 | 11.772 | 11.730 | 11.795 | VV | 1685 | 49944 | 0.62% | 0.161% |
| 210 | 11.831 | 11.795 | 11.844 | VV | 2335 | 49478 | 0.62% | 0.160% |
| 211 | 11.867 | 11.844 | 11.938 | VV | 38200 | 522355 | 6.50% | 1.688% |
| 212 | 11.946 | 11.938 | 11.985 | VV | 1736 | 40015 | 0.50% | 0.129% |
| 213 | 11.989 | 11.985 | 12.001 | VV | 1144 | 9408 | 0.12% | 0.030% |
| 214 | 12.025 | 12.001 | 12.028 | VV | 1529 | 21119 | 0.26% | 0.068% |
| 215 | 12.032 | 12.028 | 12.056 | VV | 1564 | 19822 | 0.25% | 0.064% |
| 216 | 12.093 | 12.056 | 12.102 | VV | 1631 | 35196 | 0.44% | 0.114% |
| 217 | 12.121 | 12.102 | 12.157 | VV | 4841 | 76703 | 0.96% | 0.248% |
| 218 | 12.194 | 12.157 | 12.227 | VV | 2410 | 50104 | 0.62% | 0.162% |
| 219 | 12.253 | 12.227 | 12.277 | VV | 3439 | 54331 | 0.68% | 0.176% |
| 220 | 12.306 | 12.277 | 12.355 | VV | 3653 | 92218 | 1.15% | 0.298% |
| 221 | 12.385 | 12.355 | 12.412 | VV | 2386 | 46468 | 0.58% | 0.150% |
| 222 | 12.420 | 12.412 | 12.438 | VV | 639 | 8449 | 0.11% | 0.027% |
| 223 | 12.477 | 12.438 | 12.492 | VV | 982 | 24142 | 0.30% | 0.078% |
| 224 | 12.503 | 12.492 | 12.560 | VV | 1157 | 36245 | 0.45% | 0.117% |
| 225 | 12.593 | 12.560 | 12.631 | VV | 2668 | 68754 | 0.86% | 0.222% |
| 226 | 12.654 | 12.631 | 12.665 | VV | 1993 | 31546 | 0.39% | 0.102% |
| 227 | 12.692 | 12.665 | 12.727 | VV | 102123 | 1171427 | 14.59% | 3.786% |
| 228 | 12.731 | 12.727 | 12.735 | VV | 1310 | 6107 | 0.08% | 0.020% |
| 229 | 12.739 | 12.735 | 12.745 | VV | 1316 | 7518 | 0.09% | 0.024% |
| 230 | 12.777 | 12.745 | 12.802 | VV | 1801 | 47037 | 0.59% | 0.152% |
| 231 | 12.807 | 12.802 | 12.814 | VV | 1108 | 7755 | 0.10% | 0.025% |
| 232 | 12.820 | 12.814 | 12.841 | VV | 1063 | 16085 | 0.20% | 0.052% |
| 233 | 12.882 | 12.841 | 12.898 | VV | 2786 | 62326 | 0.78% | 0.201% |
| 234 | 12.915 | 12.898 | 12.959 | VV | 6029 | 106271 | 1.32% | 0.343% |
| 235 | 12.970 | 12.959 | 12.978 | VV | 1244 | 13970 | 0.17% | 0.045% |
| 236 | 12.983 | 12.978 | 12.987 | VV | 1281 | 6355 | 0.08% | 0.021% |
| 237 | 12.990 | 12.987 | 13.000 | VV | 1282 | 8790 | 0.11% | 0.028% |
| 238 | 13.006 | 13.000 | 13.027 | VV | 1168 | 17871 | 0.22% | 0.058% |
| 239 | 13.090 | 13.027 | 13.133 | VV | 18147 | 291609 | 3.63% | 0.942% |
| 240 | 13.143 | 13.133 | 13.170 | VV | 2102 | 36217 | 0.45% | 0.117% |
| 241 | 13.173 | 13.170 | 13.187 | VV | 1243 | 11704 | 0.15% | 0.038% |
| 242 | 13.197 | 13.187 | 13.203 | VV | 1234 | 11999 | 0.15% | 0.039% |
| 243 | 13.208 | 13.203 | 13.225 | VV | 1370 | 14923 | 0.19% | 0.048% |
| 244 | 13.231 | 13.225 | 13.249 | VV | 1176 | 15623 | 0.19% | 0.050% |
| 245 | 13.269 | 13.249 | 13.285 | VV | 1867 | 33011 | 0.41% | 0.107% |
| 246 | 13.290 | 13.285 | 13.298 | VV | 1471 | 10847 | 0.14% | 0.035% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 13.320 | 13.298 | 13.343 | VV | 2408 | 46907 | 0.58% | 0.152% |
| 248 | 13.349 | 13.343 | 13.370 | VV | 1540 | 20908 | 0.26% | 0.068% |
| 249 | 13.393 | 13.370 | 13.420 | VV | 2389 | 47872 | 0.60% | 0.155% |
| 250 | 13.446 | 13.420 | 13.482 | VV | 3585 | 67157 | 0.84% | 0.217% |
| 251 | 13.487 | 13.482 | 13.490 | VV | 977 | 4649 | 0.06% | 0.015% |
| 252 | 13.497 | 13.490 | 13.522 | VV | 1029 | 17309 | 0.22% | 0.056% |
| 253 | 13.543 | 13.522 | 13.570 | VV | 1045 | 26347 | 0.33% | 0.085% |
| 254 | 13.592 | 13.570 | 13.625 | VV | 963 | 24997 | 0.31% | 0.081% |
| 255 | 13.671 | 13.625 | 13.683 | VV | 1122 | 30887 | 0.38% | 0.100% |
| 256 | 13.707 | 13.683 | 13.737 | VV | 1339 | 37263 | 0.46% | 0.120% |
| 257 | 13.740 | 13.737 | 13.762 | VV | 1099 | 14387 | 0.18% | 0.046% |
| 258 | 13.802 | 13.762 | 13.813 | VV | 1263 | 33105 | 0.41% | 0.107% |
| 259 | 13.833 | 13.813 | 13.857 | VV | 2038 | 42954 | 0.53% | 0.139% |
| 260 | 13.877 | 13.857 | 13.920 | VV | 2334 | 60102 | 0.75% | 0.194% |
| 261 | 13.931 | 13.920 | 13.977 | VV | 1232 | 37539 | 0.47% | 0.121% |
| 262 | 14.002 | 13.977 | 14.025 | VV | 1667 | 36813 | 0.46% | 0.119% |
| 263 | 14.034 | 14.025 | 14.042 | VV | 1176 | 11074 | 0.14% | 0.036% |
| 264 | 14.073 | 14.042 | 14.077 | VV | 1422 | 24404 | 0.30% | 0.079% |
| 265 | 14.084 | 14.077 | 14.112 | VV | 1415 | 26400 | 0.33% | 0.085% |
| 266 | 14.115 | 14.112 | 14.124 | VV | 1167 | 8520 | 0.11% | 0.028% |
| 267 | 14.174 | 14.124 | 14.199 | VV | 2404 | 72277 | 0.90% | 0.234% |
| 268 | 14.212 | 14.199 | 14.237 | VV | 1571 | 29773 | 0.37% | 0.096% |
| 269 | 14.250 | 14.237 | 14.273 | VV | 1239 | 23323 | 0.29% | 0.075% |
| 270 | 14.292 | 14.273 | 14.298 | VV | 1213 | 16552 | 0.21% | 0.053% |
| 271 | 14.317 | 14.298 | 14.340 | VV | 1536 | 33921 | 0.42% | 0.110% |
| 272 | 14.350 | 14.340 | 14.372 | VV | 1474 | 24753 | 0.31% | 0.080% |
| 273 | 14.387 | 14.372 | 14.399 | VV | 1386 | 21563 | 0.27% | 0.070% |
| 274 | 14.404 | 14.399 | 14.420 | VV | 1216 | 12063 | 0.15% | 0.039% |
| 275 | 14.426 | 14.420 | 14.432 | PV | 766 | 3130 | 0.04% | 0.010% |
| 276 | 14.446 | 14.432 | 14.455 | VV | 935 | 10182 | 0.13% | 0.033% |
| 277 | 14.501 | 14.455 | 14.525 | VV | 3468 | 94318 | 1.17% | 0.305% |
| 278 | 14.541 | 14.525 | 14.566 | VV | 3662 | 63246 | 0.79% | 0.204% |
| 279 | 14.582 | 14.566 | 14.611 | VV | 1986 | 38651 | 0.48% | 0.125% |
| 280 | 14.624 | 14.611 | 14.657 | VV | 1098 | 23195 | 0.29% | 0.075% |
| 281 | 14.661 | 14.657 | 14.694 | VV | 804 | 14593 | 0.18% | 0.047% |
| 282 | 14.718 | 14.694 | 14.725 | VV | 1005 | 14826 | 0.18% | 0.048% |
| 283 | 14.734 | 14.725 | 14.755 | VV | 859 | 14657 | 0.18% | 0.047% |
| 284 | 14.776 | 14.755 | 14.785 | VV | 943 | 15350 | 0.19% | 0.050% |
| 285 | 14.791 | 14.785 | 14.800 | VV | 800 | 6613 | 0.08% | 0.021% |
| 286 | 14.805 | 14.800 | 14.860 | VV | 848 | 24057 | 0.30% | 0.078% |
| 287 | 14.865 | 14.860 | 14.876 | VV | 665 | 5630 | 0.07% | 0.018% |
| 288 | 14.916 | 14.876 | 15.042 | VV | 21811 | 481699 | 6.00% | 1.557% |
| 289 | 15.068 | 15.042 | 15.098 | VV | 2213 | 45506 | 0.57% | 0.147% |
| 290 | 15.109 | 15.098 | 15.126 | VV | 883 | 11786 | 0.15% | 0.038% |
| 291 | 15.155 | 15.126 | 15.163 | VV | 852 | 16511 | 0.21% | 0.053% |
| 292 | 15.170 | 15.163 | 15.175 | VV | 752 | 4819 | 0.06% | 0.016% |
| 293 | 15.189 | 15.175 | 15.194 | VV | 998 | 9793 | 0.12% | 0.032% |
| 294 | 15.198 | 15.194 | 15.212 | VV | 859 | 8640 | 0.11% | 0.028% |
| 295 | 15.244 | 15.212 | 15.257 | VV | 944 | 20845 | 0.26% | 0.067% |
| 296 | 15.263 | 15.257 | 15.291 | VV | 828 | 14273 | 0.18% | 0.046% |
| 297 | 15.299 | 15.291 | 15.307 | VV | 748 | 6109 | 0.08% | 0.020% |
| 298 | 15.330 | 15.307 | 15.338 | VV | 825 | 13811 | 0.17% | 0.045% |
| 299 | 15.369 | 15.338 | 15.392 | VV | 1128 | 29913 | 0.37% | 0.097% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 300 | 15.409 | 15.392 | 15.414 | VV | 984 | 11980 | 0.15% | 0.039% |
| 301 | 15.450 | 15.414 | 15.476 | VV | 1249 | 37247 | 0.46% | 0.120% |
| 302 | 15.485 | 15.476 | 15.491 | VV | 780 | 6088 | 0.08% | 0.020% |
| 303 | 15.517 | 15.491 | 15.533 | VV | 1313 | 22716 | 0.28% | 0.073% |
| 304 | 15.556 | 15.533 | 15.586 | VV | 2540 | 46922 | 0.58% | 0.152% |
| 305 | 15.604 | 15.586 | 15.640 | VV | 879 | 19129 | 0.24% | 0.062% |
| 306 | 15.645 | 15.640 | 15.660 | VV | 381 | 2611 | 0.03% | 0.008% |
| 307 | 15.667 | 15.660 | 15.677 | VV | 448 | 2274 | 0.03% | 0.007% |
| 308 | 15.708 | 15.677 | 15.736 | VV | 1273 | 24617 | 0.31% | 0.080% |
| 309 | 15.762 | 15.736 | 15.785 | VV | 540 | 10440 | 0.13% | 0.034% |
| 310 | 15.800 | 15.785 | 15.815 | VV | 373 | 5004 | 0.06% | 0.016% |
| 311 | 15.866 | 15.815 | 15.882 | VV | 591 | 14437 | 0.18% | 0.047% |
| 312 | 15.884 | 15.882 | 15.900 | VV | 443 | 3321 | 0.04% | 0.011% |
| 313 | 15.931 | 15.900 | 15.975 | VV | 2445 | 60143 | 0.75% | 0.194% |
| 314 | 15.987 | 15.975 | 15.991 | VV | 785 | 7109 | 0.09% | 0.023% |
| 315 | 15.997 | 15.991 | 16.001 | VV | 902 | 4940 | 0.06% | 0.016% |
| 316 | 16.025 | 16.001 | 16.084 | VV | 2787 | 86619 | 1.08% | 0.280% |
| 317 | 16.111 | 16.084 | 16.138 | VV | 1785 | 35019 | 0.44% | 0.113% |
| 318 | 16.171 | 16.138 | 16.215 | VV | 1890 | 51164 | 0.64% | 0.165% |
| 319 | 16.217 | 16.215 | 16.234 | VV | 906 | 8078 | 0.10% | 0.026% |
| 320 | 16.238 | 16.234 | 16.272 | VV | 707 | 13643 | 0.17% | 0.044% |
| 321 | 16.295 | 16.272 | 16.320 | VV | 1304 | 23348 | 0.29% | 0.075% |
| 322 | 16.354 | 16.320 | 16.383 | VV | 4240 | 74336 | 0.93% | 0.240% |
| 323 | 16.411 | 16.383 | 16.452 | VV | 3162 | 66086 | 0.82% | 0.214% |
| 324 | 16.476 | 16.452 | 16.488 | VV | 3181 | 47734 | 0.59% | 0.154% |
| 325 | 16.503 | 16.488 | 16.523 | VV | 2786 | 43550 | 0.54% | 0.141% |
| 326 | 16.545 | 16.523 | 16.615 | VV | 6331 | 106272 | 1.32% | 0.343% |
| 327 | 16.639 | 16.615 | 16.657 | VV | 783 | 16525 | 0.21% | 0.053% |
| 328 | 16.663 | 16.657 | 16.690 | VV | 585 | 9586 | 0.12% | 0.031% |
| 329 | 16.699 | 16.690 | 16.747 | VV | 479 | 9198 | 0.11% | 0.030% |
| 330 | 16.797 | 16.758 | 16.838 | PV | 1098 | 31394 | 0.39% | 0.101% |
| 331 | 16.842 | 16.838 | 16.852 | VV | 584 | 3239 | 0.04% | 0.010% |
| 332 | 16.871 | 16.852 | 16.900 | VV | 1343 | 26878 | 0.33% | 0.087% |
| 333 | 16.908 | 16.900 | 16.918 | VV | 883 | 8122 | 0.10% | 0.026% |
| 334 | 16.947 | 16.918 | 16.990 | VV | 2365 | 50633 | 0.63% | 0.164% |
| 335 | 17.004 | 16.990 | 17.041 | VV | 616 | 14625 | 0.18% | 0.047% |
| 336 | 17.064 | 17.041 | 17.109 | VV | 2157 | 41523 | 0.52% | 0.134% |
| 337 | 17.124 | 17.109 | 17.133 | VV | 426 | 4736 | 0.06% | 0.015% |
| 338 | 17.142 | 17.133 | 17.146 | VV | 445 | 3014 | 0.04% | 0.010% |
| 339 | 17.154 | 17.146 | 17.173 | VV | 616 | 8051 | 0.10% | 0.026% |
| 340 | 17.179 | 17.173 | 17.183 | VV | 589 | 2878 | 0.04% | 0.009% |
| 341 | 17.193 | 17.183 | 17.212 | VV | 506 | 5521 | 0.07% | 0.018% |
| 342 | 17.242 | 17.212 | 17.270 | VV | 1594 | 29191 | 0.36% | 0.094% |
| 343 | 17.276 | 17.270 | 17.281 | VV | 549 | 3300 | 0.04% | 0.011% |
| 344 | 17.286 | 17.281 | 17.297 | VV | 509 | 4363 | 0.05% | 0.014% |
| 345 | 17.356 | 17.297 | 17.368 | VV | 1711 | 43250 | 0.54% | 0.140% |
| 346 | 17.385 | 17.368 | 17.421 | VV | 3546 | 50251 | 0.63% | 0.162% |
| 347 | 17.427 | 17.421 | 17.445 | VV | 620 | 6044 | 0.08% | 0.020% |
| 348 | 17.471 | 17.445 | 17.512 | VV | 2088 | 40649 | 0.51% | 0.131% |
| 349 | 17.533 | 17.512 | 17.543 | VV | 718 | 10114 | 0.13% | 0.033% |
| 350 | 17.548 | 17.543 | 17.552 | VV | 623 | 3071 | 0.04% | 0.010% |
| 351 | 17.562 | 17.552 | 17.570 | VV | 556 | 4915 | 0.06% | 0.016% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 352 | 17.574 | 17.570 | 17.633 | VV | 652 | 9496 | 0.12% | 0.031% |
| 353 | 17.679 | 17.633 | 17.708 | PV | 2582 | 53204 | 0.66% | 0.172% |
| 354 | 17.738 | 17.708 | 17.778 | VV | 12732 | 249854 | 3.11% | 0.807% |
| 355 | 17.784 | 17.778 | 17.788 | VV | 3383 | 19127 | 0.24% | 0.062% |
| 356 | 17.808 | 17.788 | 17.838 | VV | 4655 | 89225 | 1.11% | 0.288% |
| 357 | 17.843 | 17.838 | 17.863 | VV | 924 | 10990 | 0.14% | 0.036% |
| 358 | 17.867 | 17.863 | 17.875 | VV | 671 | 3819 | 0.05% | 0.012% |
| 359 | 17.878 | 17.875 | 17.884 | VV | 541 | 2569 | 0.03% | 0.008% |
| 360 | 17.897 | 17.884 | 17.906 | VV | 621 | 6422 | 0.08% | 0.021% |
| 361 | 17.911 | 17.906 | 17.920 | VV | 602 | 4184 | 0.05% | 0.014% |
| 362 | 17.923 | 17.920 | 17.928 | VV | 441 | 2110 | 0.03% | 0.007% |
| 363 | 17.930 | 17.928 | 17.943 | VV | 493 | 3151 | 0.04% | 0.010% |
| 364 | 17.949 | 17.943 | 17.977 | VV | 412 | 5655 | 0.07% | 0.018% |
| 365 | 17.994 | 17.977 | 17.999 | VV | 287 | 2823 | 0.04% | 0.009% |
| 366 | 18.022 | 17.999 | 18.056 | VV | 1202 | 24987 | 0.31% | 0.081% |
| 367 | 18.081 | 18.056 | 18.101 | VV | 723 | 13526 | 0.17% | 0.044% |
| 368 | 18.105 | 18.101 | 18.118 | VV | 282 | 2078 | 0.03% | 0.007% |
| 369 | 18.164 | 18.129 | 18.170 | PV | 285 | 4706 | 0.06% | 0.015% |

Sum of corrected areas: 30944378

Aromatic EPH 111424.M Tue Nov 19 11:06:15 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014864.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 11:19
Operator : YP\AJ
Sample : P4860-07
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-008

Integration File: autoint1.e
Quant Time: Nov 20 00:35:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 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... | 13.386 | 4521780 | 40.690 ug/ml |
| Spiked Amount 50.000 | | Recovery = 81.38% | |
| Target Compounds | | | |

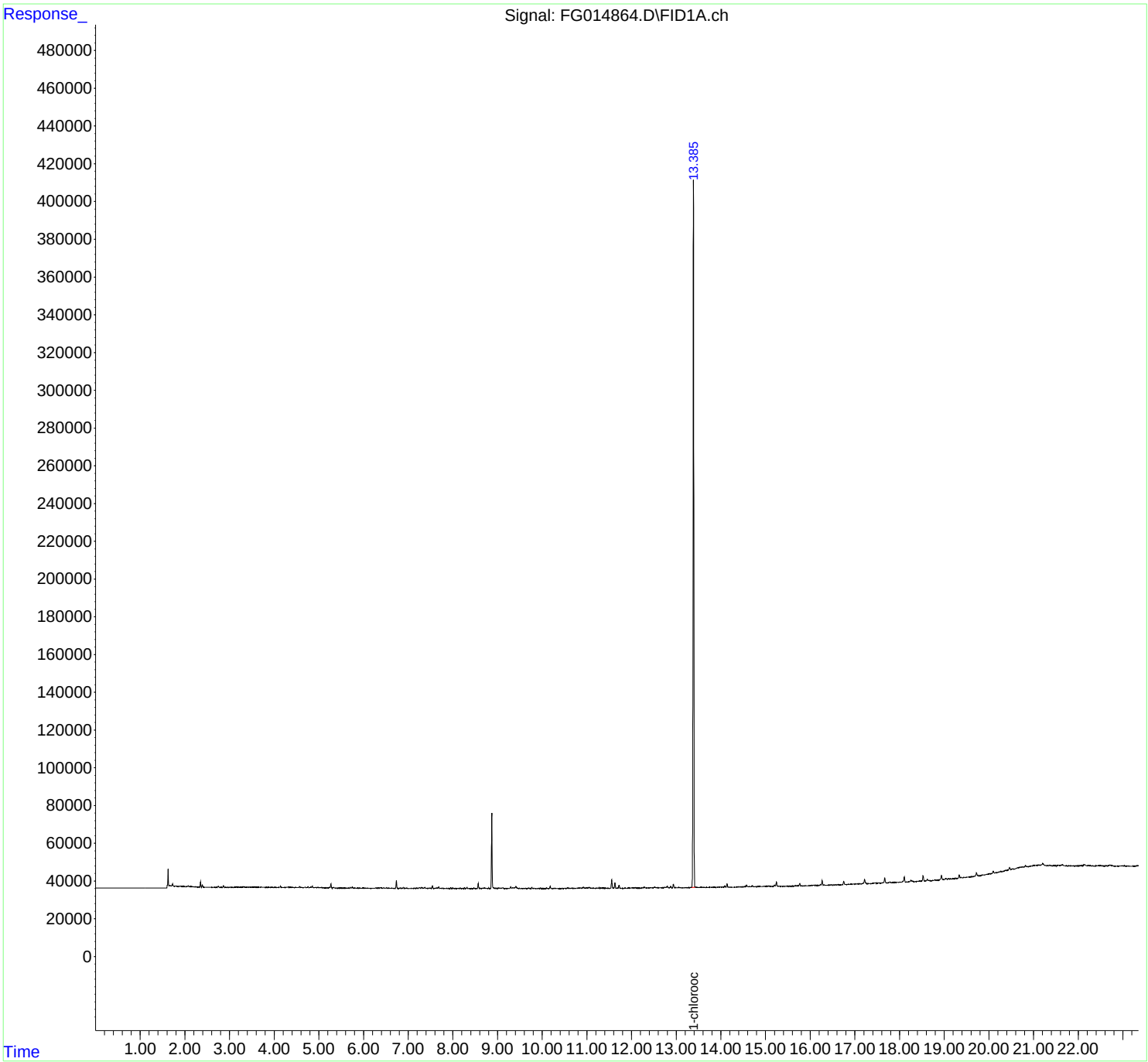
(f)=RT Delta > 1/2 Window (m)=manual int.

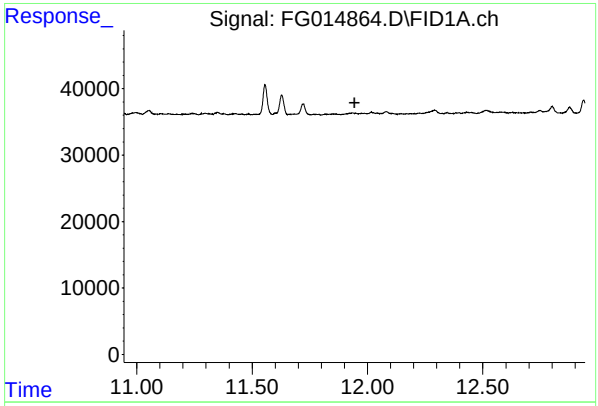
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014864.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 11:19
Operator : YP\AJ
Sample : P4860-07
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-008

Integration File: autoint1.e
Quant Time: Nov 20 00:35:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

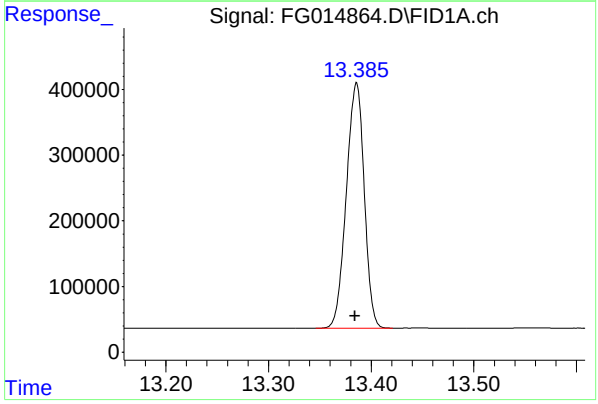





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.944 min
Response: 0
Conc: N.D.

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-008




#12 1-chlorooctadecane (SURR)

R.T.: 13.386 min
Delta R.T.: 0.001 min
Response: 4521780
Conc: 40.69 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014864.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 11:19
Sample : P4860-07
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\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 | 6.737 | 6.714 | 6.761 | BB | 4140 | 42066 | 0.93% | 0.837% |
| 2 | 8.872 | 8.838 | 8.912 | BB | 39875 | 406458 | 8.99% | 8.088% |
| 3 | 11.556 | 11.530 | 11.590 | BB | 4512 | 55291 | 1.22% | 1.100% |
| 4 | 13.386 | 13.346 | 13.421 | BB | 374823 | 4521780 | 100.00% | 89.975% |
| | | | Sum of corrected areas: | | | 5025595 | | |

Aliphatic EPH 111424.M Wed Nov 20 01:23:10 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015095.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 11:19
Operator : YP\AJ
Sample : P4860-07
Misc :
ALS Vial : 72 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-008

Integration File: autoint1.e
Quant Time: Nov 20 01:47:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 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... | 7.987 | 6201091 | 50.780 ug/ml |
| Spiked Amount 50.000 | | Recovery = 101.56% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.861 | 3699822 | 45.318 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 90.64% | |
| 11) S ortho-Terphenyl (SURR) | 11.922 | 5342931 | 39.829 ug/ml |
| Spiked Amount 50.000 | | Recovery = 79.66% | |
| **Target Compounds** | | | |

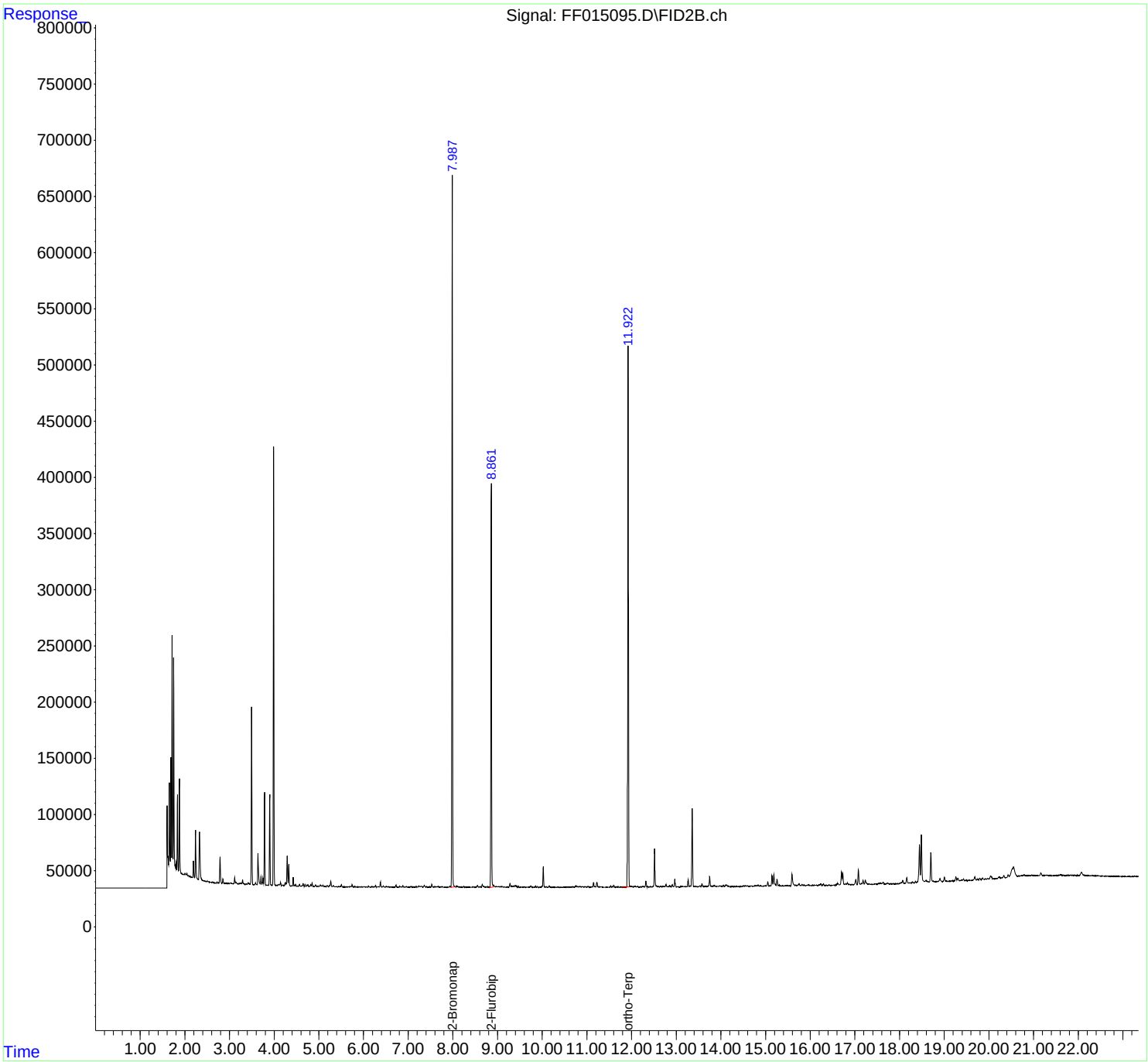
(f)=RT Delta > 1/2 Window (m)=manual int.

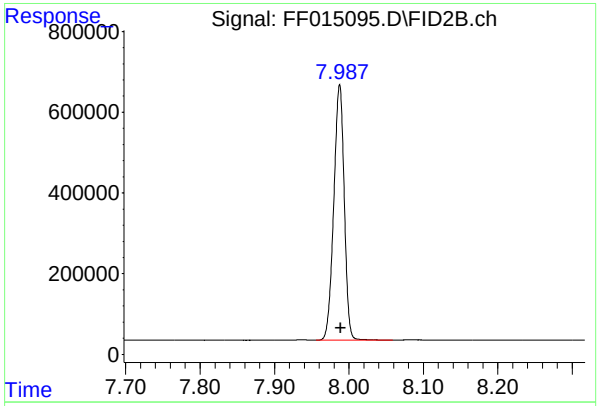
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015095.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 11:19
Operator : YP\AJ
Sample : P4860-07
Misc :
ALS Vial : 72 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-008

Integration File: autoint1.e
Quant Time: Nov 20 01:47:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

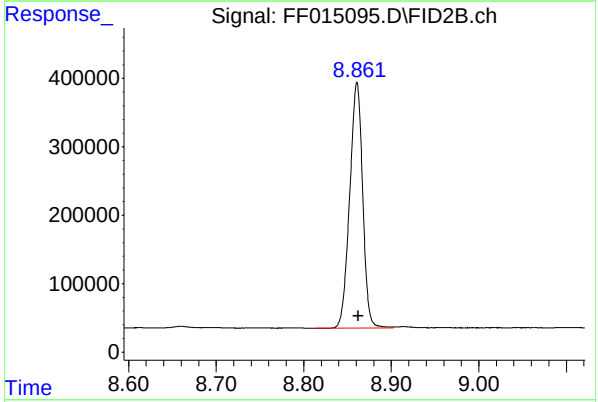





#4 2-Bromonaphthalene (SURR)

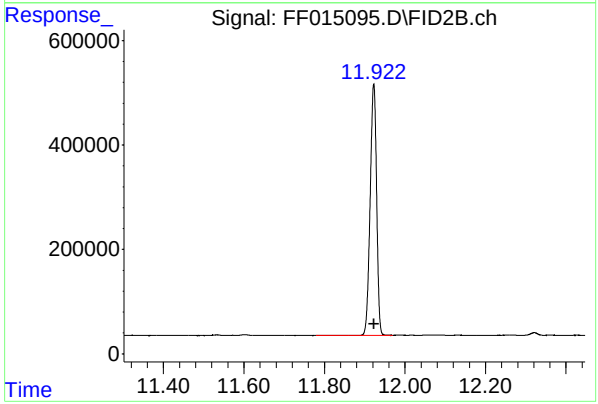
R.T.: 7.987 min
Delta R.T.: -0.002 min
Response: 6201091
Conc: 50.78 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-008




#6 2-Flurobiphenyl (SURR)

R.T.: 8.861 min
Delta R.T.: -0.002 min
Response: 3699822
Conc: 45.32 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.922 min
Delta R.T.: 0.000 min
Response: 5342931
Conc: 39.83 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015095.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 11:19
Sample : P4860-07
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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 | 4.426 | 4.401 | 4.444 | BV | 7633 | 64059 | 1.03% | 0.311% |
| 2 | 4.649 | 4.591 | 4.671 | VV | 2569 | 36433 | 0.59% | 0.177% |
| 3 | 4.689 | 4.671 | 4.712 | VV | 1888 | 20543 | 0.33% | 0.100% |
| 4 | 4.755 | 4.742 | 4.779 | VV | 1808 | 18852 | 0.30% | 0.091% |
| 5 | 4.817 | 4.779 | 4.831 | VV | 1732 | 20262 | 0.33% | 0.098% |
| 6 | 4.849 | 4.831 | 4.886 | VB | 3194 | 35171 | 0.57% | 0.170% |
| 7 | 5.267 | 5.249 | 5.296 | VV | 5064 | 61764 | 1.00% | 0.299% |
| 8 | 5.505 | 5.486 | 5.557 | VB | 2014 | 21396 | 0.35% | 0.104% |
| 9 | 5.745 | 5.721 | 5.787 | VV | 2070 | 22792 | 0.37% | 0.110% |
| 10 | 6.379 | 6.354 | 6.422 | BV | 4663 | 49244 | 0.79% | 0.239% |
| 11 | 6.728 | 6.671 | 6.749 | BB | 2130 | 21742 | 0.35% | 0.105% |
| 12 | 7.530 | 7.501 | 7.559 | BV | 2419 | 26350 | 0.42% | 0.128% |
| 13 | 7.987 | 7.956 | 8.059 | PV | 634217 | 6201091 | 100.00% | 30.061% |
| 14 | 8.552 | 8.482 | 8.599 | BV | 1675 | 25207 | 0.41% | 0.122% |
| 15 | 8.660 | 8.627 | 8.727 | VB | 2550 | 46721 | 0.75% | 0.226% |
| 16 | 8.861 | 8.814 | 8.902 | BV | 359663 | 3699822 | 59.66% | 17.936% |
| 17 | 8.915 | 8.902 | 8.944 | VV | 1664 | 22164 | 0.36% | 0.107% |
| 18 | 9.280 | 9.177 | 9.342 | BB | 3129 | 50063 | 0.81% | 0.243% |
| 19 | 10.026 | 10.004 | 10.059 | VV | 18410 | 192646 | 3.11% | 0.934% |
| 20 | 11.149 | 11.061 | 11.192 | BV | 3948 | 53435 | 0.86% | 0.259% |
| 21 | 11.224 | 11.192 | 11.281 | VB | 4213 | 53882 | 0.87% | 0.261% |
| 22 | 11.922 | 11.779 | 11.970 | BV | 482046 | 5342931 | 86.16% | 25.901% |
| 23 | 12.321 | 12.291 | 12.346 | VV | 5245 | 62185 | 1.00% | 0.301% |
| 24 | 12.514 | 12.451 | 12.619 | BB | 34085 | 404530 | 6.52% | 1.961% |
| 25 | 12.771 | 12.692 | 12.792 | BV | 1723 | 23803 | 0.38% | 0.115% |
| 26 | 12.910 | 12.886 | 12.931 | BV | 1922 | 24025 | 0.39% | 0.116% |
| 27 | 12.968 | 12.931 | 13.011 | PB | 7024 | 86281 | 1.39% | 0.418% |
| 28 | 13.266 | 13.227 | 13.292 | BV | 6362 | 70832 | 1.14% | 0.343% |
| 29 | 13.356 | 13.292 | 13.388 | VV | 69901 | 848893 | 13.69% | 4.115% |
| 30 | 13.576 | 13.552 | 13.617 | VV | 2695 | 39799 | 0.64% | 0.193% |
| 31 | 13.747 | 13.691 | 13.806 | BB | 8587 | 105147 | 1.70% | 0.510% |
| 32 | 15.049 | 14.922 | 15.080 | BV | 3929 | 64061 | 1.03% | 0.311% |
| 33 | 15.143 | 15.116 | 15.162 | VV | 9471 | 119840 | 1.93% | 0.581% |
| 34 | 15.184 | 15.162 | 15.234 | VV | 10112 | 163219 | 2.63% | 0.791% |
| 35 | 15.256 | 15.234 | 15.286 | VV | 5744 | 74605 | 1.20% | 0.362% |
| 36 | 15.591 | 15.536 | 15.662 | BV | 10397 | 186189 | 3.00% | 0.903% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 15.750 | 15.707 | 15.797 | PV | 1757 | 30287 | 0.49% | 0.147% |
| 38 | 16.611 | 16.547 | 16.646 | PV | 1377 | 31430 | 0.51% | 0.152% |
| 39 | 16.699 | 16.646 | 16.714 | VV | 11094 | 149168 | 2.41% | 0.723% |
| 40 | 16.728 | 16.714 | 16.771 | VV | 10075 | 131374 | 2.12% | 0.637% |
| 41 | 17.018 | 16.974 | 17.046 | BV | 4540 | 72985 | 1.18% | 0.354% |
| 42 | 17.077 | 17.046 | 17.129 | VV | 13209 | 181732 | 2.93% | 0.881% |
| 43 | 17.182 | 17.129 | 17.209 | VV | 3505 | 59599 | 0.96% | 0.289% |
| 44 | 17.233 | 17.209 | 17.291 | VB | 3776 | 65215 | 1.05% | 0.316% |
| 45 | 18.071 | 17.806 | 18.112 | BB | 2839 | 53240 | 0.86% | 0.258% |
| 46 | 18.160 | 18.124 | 18.189 | BV | 5015 | 72257 | 1.17% | 0.350% |
| 47 | 18.446 | 18.411 | 18.466 | BV | 32508 | 476916 | 7.69% | 2.312% |
| 48 | 18.487 | 18.466 | 18.554 | VV | 41377 | 586928 | 9.46% | 2.845% |
| 49 | 18.700 | 18.661 | 18.800 | BBA | 26065 | 357211 | 5.76% | 1.732% |

Sum of corrected areas: 20628321

Aromatic EPH 111524.M Wed Nov 20 02:26:32 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014865.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 11:47
Operator : YP\AJ
Sample : P4860-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-007

Integration File: autoint1.e
Quant Time: Nov 20 00:35:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 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... | 13.385 | 3506832 | 31.556 ug/ml |
| Spiked Amount 50.000 | | Recovery = 63.11% | |
| Target Compounds | | | |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014865.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 11:47
Operator : YP\AJ
Sample : P4860-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-007

Integration File: autoint1.e
Quant Time: Nov 20 00:35:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
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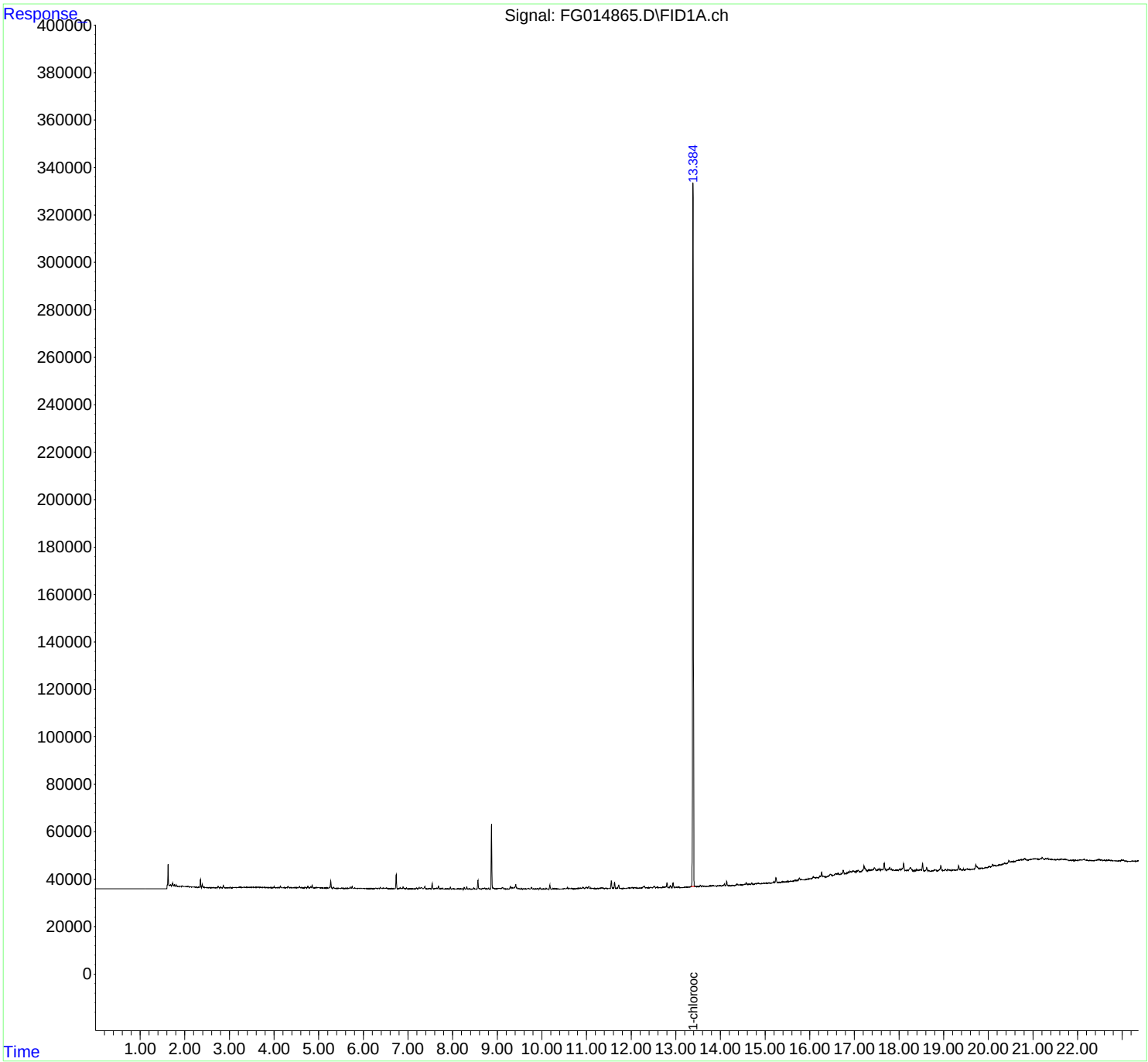
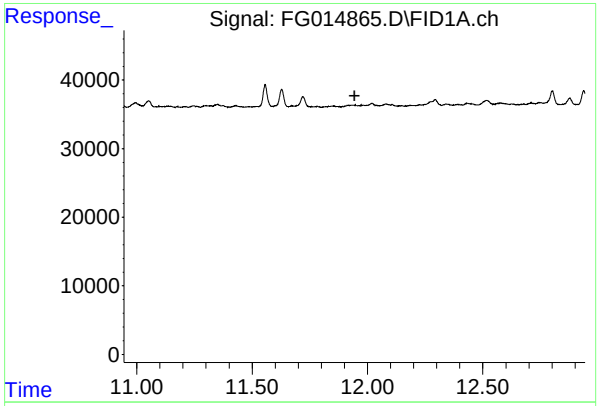
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

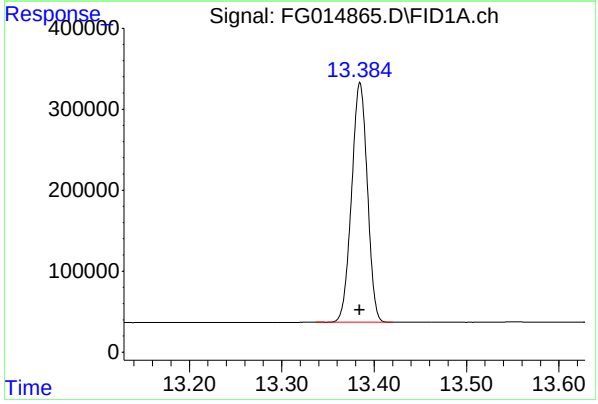





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.944 min
Response: 0
Conc: N.D.

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-007




#12 1-chlorooctadecane (SURR)

R.T.: 13.385 min
Delta R.T.: 0.000 min
Response: 3506832
Conc: 31.56 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014865.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 11:47
Sample : P4860-08
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\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 | 3.279 | 3.222 | 3.290 | BV | 35 | 419 | 0.01% | 0.004% |
| 2 | 3.322 | 3.290 | 3.355 | PV | 209 | 2660 | 0.08% | 0.023% |
| 3 | 3.362 | 3.355 | 3.372 | VV | 62 | 458 | 0.01% | 0.004% |
| 4 | 3.384 | 3.372 | 3.396 | VV | 81 | 710 | 0.02% | 0.006% |
| 5 | 3.413 | 3.396 | 3.452 | VV | 107 | 2153 | 0.06% | 0.019% |
| 6 | 3.472 | 3.452 | 3.485 | VV | 137 | 1910 | 0.05% | 0.016% |
| 7 | 3.493 | 3.485 | 3.498 | VV | 150 | 878 | 0.02% | 0.008% |
| 8 | 3.509 | 3.498 | 3.545 | VV | 235 | 3911 | 0.11% | 0.034% |
| 9 | 3.553 | 3.545 | 3.589 | VV | 171 | 3360 | 0.10% | 0.029% |
| 10 | 3.597 | 3.589 | 3.609 | VV | 140 | 1629 | 0.05% | 0.014% |
| 11 | 3.629 | 3.609 | 3.683 | VV | 215 | 6777 | 0.19% | 0.058% |
| 12 | 3.708 | 3.683 | 3.733 | VV | 336 | 4964 | 0.14% | 0.043% |
| 13 | 3.762 | 3.733 | 3.779 | VV | 199 | 3980 | 0.11% | 0.034% |
| 14 | 3.794 | 3.779 | 3.841 | VV | 181 | 3935 | 0.11% | 0.034% |
| 15 | 3.852 | 3.841 | 3.882 | VV | 85 | 1431 | 0.04% | 0.012% |
| 16 | 3.909 | 3.882 | 3.965 | VV | 194 | 3963 | 0.11% | 0.034% |
| 17 | 3.999 | 3.965 | 4.046 | VV | 517 | 6858 | 0.19% | 0.059% |
| 18 | 4.069 | 4.046 | 4.082 | PV | 112 | 1329 | 0.04% | 0.011% |
| 19 | 4.112 | 4.082 | 4.129 | VV | 378 | 5104 | 0.15% | 0.044% |
| 20 | 4.145 | 4.129 | 4.194 | VV | 784 | 9929 | 0.28% | 0.086% |
| 21 | 4.221 | 4.194 | 4.252 | VV | 189 | 4809 | 0.14% | 0.041% |
| 22 | 4.315 | 4.252 | 4.412 | VV | 576 | 20033 | 0.57% | 0.173% |
| 23 | 4.442 | 4.412 | 4.455 | VV | 168 | 3627 | 0.10% | 0.031% |
| 24 | 4.466 | 4.455 | 4.552 | VV | 200 | 9921 | 0.28% | 0.085% |
| 25 | 4.569 | 4.552 | 4.599 | VV | 752 | 10406 | 0.30% | 0.090% |
| 26 | 4.608 | 4.599 | 4.627 | VV | 256 | 3269 | 0.09% | 0.028% |
| 27 | 4.646 | 4.627 | 4.667 | VV | 154 | 3213 | 0.09% | 0.028% |
| 28 | 4.694 | 4.667 | 4.724 | VV | 521 | 8172 | 0.23% | 0.070% |
| 29 | 4.759 | 4.724 | 4.798 | VV | 940 | 14911 | 0.42% | 0.128% |
| 30 | 4.821 | 4.798 | 4.835 | VV | 707 | 8560 | 0.24% | 0.074% |
| 31 | 4.854 | 4.835 | 4.889 | VV | 1332 | 16810 | 0.48% | 0.145% |
| 32 | 4.895 | 4.889 | 4.905 | VV | 219 | 1870 | 0.05% | 0.016% |
| 33 | 4.935 | 4.905 | 4.958 | VV | 265 | 7063 | 0.20% | 0.061% |
| 34 | 4.985 | 4.958 | 5.010 | VV | 359 | 8815 | 0.25% | 0.076% |
| 35 | 5.019 | 5.010 | 5.047 | VV | 224 | 4585 | 0.13% | 0.039% |
| 36 | 5.061 | 5.047 | 5.094 | VV | 253 | 5320 | 0.15% | 0.046% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.113 | 5.094 | 5.152 | VV | 154 | 3806 | 0.11% | 0.033% |
| 38 | 5.183 | 5.152 | 5.203 | VV | 309 | 5200 | 0.15% | 0.045% |
| 39 | 5.271 | 5.203 | 5.303 | VV | 3202 | 45934 | 1.31% | 0.396% |
| 40 | 5.332 | 5.303 | 5.372 | VV | 633 | 8640 | 0.25% | 0.074% |
| 41 | 5.386 | 5.372 | 5.427 | VV | 80 | 1449 | 0.04% | 0.012% |
| 42 | 5.478 | 5.427 | 5.499 | PV | 133 | 3554 | 0.10% | 0.031% |
| 43 | 5.515 | 5.499 | 5.546 | VV | 280 | 3826 | 0.11% | 0.033% |
| 44 | 5.553 | 5.546 | 5.564 | VV | 67 | 605 | 0.02% | 0.005% |
| 45 | 5.583 | 5.564 | 5.602 | VV | 143 | 2041 | 0.06% | 0.018% |
| 46 | 5.609 | 5.602 | 5.620 | VV | 71 | 785 | 0.02% | 0.007% |
| 47 | 5.670 | 5.620 | 5.682 | VV | 159 | 2933 | 0.08% | 0.025% |
| 48 | 5.706 | 5.682 | 5.726 | VV | 607 | 7383 | 0.21% | 0.064% |
| 49 | 5.751 | 5.726 | 5.772 | VV | 989 | 10941 | 0.31% | 0.094% |
| 50 | 5.809 | 5.772 | 5.846 | VV | 301 | 4525 | 0.13% | 0.039% |
| 51 | 5.892 | 5.846 | 5.935 | VV | 193 | 5353 | 0.15% | 0.046% |
| 52 | 5.942 | 5.935 | 5.950 | VV | 78 | 477 | 0.01% | 0.004% |
| 53 | 5.973 | 5.950 | 5.995 | VV | 86 | 1590 | 0.05% | 0.014% |
| 54 | 6.016 | 5.995 | 6.069 | VV | 208 | 3562 | 0.10% | 0.031% |
| 55 | 6.076 | 6.069 | 6.122 | VV | 65 | 978 | 0.03% | 0.008% |
| 56 | 6.137 | 6.122 | 6.169 | VV | 63 | 457 | 0.01% | 0.004% |
| 57 | 6.185 | 6.169 | 6.203 | VV | 117 | 1294 | 0.04% | 0.011% |
| 58 | 6.213 | 6.203 | 6.226 | VV | 69 | 638 | 0.02% | 0.005% |
| 59 | 6.278 | 6.226 | 6.322 | VV | 307 | 7588 | 0.22% | 0.065% |
| 60 | 6.337 | 6.322 | 6.362 | VV | 251 | 4075 | 0.12% | 0.035% |
| 61 | 6.382 | 6.362 | 6.410 | VV | 643 | 8961 | 0.25% | 0.077% |
| 62 | 6.449 | 6.410 | 6.475 | VV | 435 | 8520 | 0.24% | 0.073% |
| 63 | 6.521 | 6.475 | 6.589 | VV | 310 | 10976 | 0.31% | 0.095% |
| 64 | 6.606 | 6.589 | 6.687 | VV | 113 | 4745 | 0.13% | 0.041% |
| 65 | 6.737 | 6.687 | 6.764 | VV | 6061 | 63348 | 1.80% | 0.546% |
| 66 | 6.784 | 6.764 | 6.805 | VV | 172 | 2754 | 0.08% | 0.024% |
| 67 | 6.824 | 6.805 | 6.844 | VV | 542 | 6527 | 0.19% | 0.056% |
| 68 | 6.860 | 6.844 | 6.873 | VV | 295 | 3284 | 0.09% | 0.028% |
| 69 | 6.892 | 6.873 | 6.912 | VV | 900 | 9973 | 0.28% | 0.086% |
| 70 | 6.928 | 6.912 | 6.945 | VV | 290 | 3169 | 0.09% | 0.027% |
| 71 | 6.966 | 6.945 | 6.999 | VV | 471 | 5149 | 0.15% | 0.044% |
| 72 | 7.015 | 6.999 | 7.039 | VV | 105 | 1126 | 0.03% | 0.010% |
| 73 | 7.060 | 7.039 | 7.082 | PV | 103 | 1421 | 0.04% | 0.012% |
| 74 | 7.116 | 7.082 | 7.136 | VV | 100 | 2315 | 0.07% | 0.020% |
| 75 | 7.145 | 7.136 | 7.169 | VV | 100 | 998 | 0.03% | 0.009% |
| 76 | 7.195 | 7.169 | 7.224 | VV | 543 | 6611 | 0.19% | 0.057% |
| 77 | 7.248 | 7.224 | 7.281 | VV | 706 | 12190 | 0.35% | 0.105% |
| 78 | 7.299 | 7.281 | 7.342 | VV | 608 | 13893 | 0.39% | 0.120% |
| 79 | 7.377 | 7.342 | 7.402 | VV | 968 | 16167 | 0.46% | 0.139% |
| 80 | 7.417 | 7.402 | 7.435 | VV | 203 | 2717 | 0.08% | 0.023% |
| 81 | 7.484 | 7.435 | 7.519 | VV | 287 | 8097 | 0.23% | 0.070% |
| 82 | 7.543 | 7.519 | 7.579 | VV | 2380 | 27291 | 0.78% | 0.235% |
| 83 | 7.584 | 7.579 | 7.589 | VV | 169 | 793 | 0.02% | 0.007% |
| 84 | 7.605 | 7.589 | 7.635 | VV | 287 | 5828 | 0.17% | 0.050% |
| 85 | 7.652 | 7.635 | 7.664 | VV | 384 | 4520 | 0.13% | 0.039% |
| 86 | 7.685 | 7.664 | 7.712 | VV | 1246 | 15876 | 0.45% | 0.137% |
| 87 | 7.751 | 7.712 | 7.765 | VV | 373 | 6165 | 0.18% | 0.053% |
| 88 | 7.779 | 7.765 | 7.816 | VV | 426 | 5324 | 0.15% | 0.046% |
| 89 | 7.827 | 7.816 | 7.835 | VV | 100 | 761 | 0.02% | 0.007% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.845 | 7.835 | 7.877 | VV | 161 | 2458 | 0.07% | 0.021% |
| 91 | 7.898 | 7.877 | 7.922 | VV | 160 | 2097 | 0.06% | 0.018% |
| 92 | 7.952 | 7.922 | 7.984 | VV | 883 | 9667 | 0.27% | 0.083% |
| 93 | 8.001 | 7.984 | 8.016 | VV | 317 | 3031 | 0.09% | 0.026% |
| 94 | 8.043 | 8.016 | 8.082 | VV | 176 | 3743 | 0.11% | 0.032% |
| 95 | 8.118 | 8.082 | 8.135 | VV | 222 | 5311 | 0.15% | 0.046% |
| 96 | 8.146 | 8.135 | 8.161 | VV | 173 | 2394 | 0.07% | 0.021% |
| 97 | 8.172 | 8.161 | 8.198 | VV | 170 | 2230 | 0.06% | 0.019% |
| 98 | 8.217 | 8.198 | 8.238 | VV | 262 | 2687 | 0.08% | 0.023% |
| 99 | 8.261 | 8.238 | 8.287 | PV | 835 | 9486 | 0.27% | 0.082% |
| 100 | 8.317 | 8.287 | 8.341 | VV | 1036 | 11857 | 0.34% | 0.102% |
| 101 | 8.355 | 8.341 | 8.373 | VV | 184 | 2649 | 0.08% | 0.023% |
| 102 | 8.390 | 8.373 | 8.406 | VV | 132 | 2189 | 0.06% | 0.019% |
| 103 | 8.418 | 8.406 | 8.429 | VV | 124 | 1179 | 0.03% | 0.010% |
| 104 | 8.474 | 8.429 | 8.541 | VV | 541 | 10527 | 0.30% | 0.091% |
| 105 | 8.568 | 8.541 | 8.643 | VV | 3680 | 46325 | 1.32% | 0.399% |
| 106 | 8.667 | 8.643 | 8.700 | VV | 417 | 10216 | 0.29% | 0.088% |
| 107 | 8.716 | 8.700 | 8.745 | VV | 442 | 7927 | 0.23% | 0.068% |
| 108 | 8.764 | 8.745 | 8.787 | VV | 391 | 5499 | 0.16% | 0.047% |
| 109 | 8.806 | 8.787 | 8.836 | VV | 465 | 5719 | 0.16% | 0.049% |
| 110 | 8.872 | 8.836 | 8.913 | PV | 27523 | 280684 | 7.98% | 2.417% |
| 111 | 8.922 | 8.913 | 8.956 | VV | 450 | 7708 | 0.22% | 0.066% |
| 112 | 8.989 | 8.956 | 9.005 | VV | 276 | 6457 | 0.18% | 0.056% |
| 113 | 9.032 | 9.005 | 9.051 | VV | 455 | 8830 | 0.25% | 0.076% |
| 114 | 9.063 | 9.051 | 9.094 | VV | 405 | 7898 | 0.22% | 0.068% |
| 115 | 9.113 | 9.094 | 9.156 | VV | 758 | 16372 | 0.47% | 0.141% |
| 116 | 9.177 | 9.156 | 9.208 | VV | 269 | 4106 | 0.12% | 0.035% |
| 117 | 9.229 | 9.208 | 9.249 | PV | 356 | 4251 | 0.12% | 0.037% |
| 118 | 9.295 | 9.249 | 9.313 | VV | 1263 | 18004 | 0.51% | 0.155% |
| 119 | 9.333 | 9.313 | 9.349 | VV | 870 | 13593 | 0.39% | 0.117% |
| 120 | 9.373 | 9.349 | 9.383 | VV | 699 | 11865 | 0.34% | 0.102% |
| 121 | 9.415 | 9.383 | 9.472 | VV | 1973 | 40840 | 1.16% | 0.352% |
| 122 | 9.486 | 9.472 | 9.510 | VV | 451 | 5435 | 0.15% | 0.047% |
| 123 | 9.536 | 9.510 | 9.562 | VV | 390 | 4694 | 0.13% | 0.040% |
| 124 | 9.589 | 9.562 | 9.605 | VV | 242 | 3542 | 0.10% | 0.031% |
| 125 | 9.616 | 9.605 | 9.667 | VV | 226 | 6052 | 0.17% | 0.052% |
| 126 | 9.701 | 9.667 | 9.745 | VV | 404 | 9140 | 0.26% | 0.079% |
| 127 | 9.766 | 9.745 | 9.804 | VV | 808 | 11859 | 0.34% | 0.102% |
| 128 | 9.823 | 9.804 | 9.833 | VV | 193 | 2210 | 0.06% | 0.019% |
| 129 | 9.860 | 9.833 | 9.884 | VV | 173 | 3556 | 0.10% | 0.031% |
| 130 | 9.906 | 9.884 | 9.928 | VV | 374 | 5336 | 0.15% | 0.046% |
| 131 | 9.959 | 9.928 | 10.028 | VV | 589 | 9023 | 0.26% | 0.078% |
| 132 | 10.047 | 10.028 | 10.075 | VV | 156 | 1986 | 0.06% | 0.017% |
| 133 | 10.098 | 10.075 | 10.159 | PV | 442 | 6493 | 0.18% | 0.056% |
| 134 | 10.180 | 10.159 | 10.212 | VV | 1672 | 19840 | 0.56% | 0.171% |
| 135 | 10.223 | 10.212 | 10.232 | VV | 63 | 505 | 0.01% | 0.004% |
| 136 | 10.253 | 10.232 | 10.270 | VV | 248 | 4089 | 0.12% | 0.035% |
| 137 | 10.279 | 10.270 | 10.300 | VV | 218 | 2714 | 0.08% | 0.023% |
| 138 | 10.328 | 10.300 | 10.338 | VV | 116 | 2138 | 0.06% | 0.018% |
| 139 | 10.351 | 10.338 | 10.414 | VV | 139 | 2705 | 0.08% | 0.023% |
| 140 | 10.425 | 10.414 | 10.439 | PV | 40 | 402 | 0.01% | 0.003% |
| 141 | 10.460 | 10.439 | 10.475 | VV | 166 | 2162 | 0.06% | 0.019% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.504 | 10.475 | 10.537 | VV | 306 | 6258 | 0.18% | 0.054% |
| 143 | 10.573 | 10.537 | 10.595 | VV | 606 | 10541 | 0.30% | 0.091% |
| 144 | 10.612 | 10.595 | 10.634 | VV | 357 | 5410 | 0.15% | 0.047% |
| 145 | 10.661 | 10.634 | 10.679 | VV | 281 | 4882 | 0.14% | 0.042% |
| 146 | 10.703 | 10.679 | 10.725 | VV | 235 | 3604 | 0.10% | 0.031% |
| 147 | 10.740 | 10.725 | 10.755 | VV | 124 | 1421 | 0.04% | 0.012% |
| 148 | 10.785 | 10.755 | 10.798 | VV | 318 | 4630 | 0.13% | 0.040% |
| 149 | 10.819 | 10.798 | 10.834 | VV | 260 | 4499 | 0.13% | 0.039% |
| 150 | 10.857 | 10.834 | 10.885 | VV | 418 | 9033 | 0.26% | 0.078% |
| 151 | 10.921 | 10.885 | 10.957 | VV | 849 | 18419 | 0.52% | 0.159% |
| 152 | 10.994 | 10.957 | 11.024 | VV | 770 | 18413 | 0.52% | 0.159% |
| 153 | 11.051 | 11.024 | 11.120 | VV | 1038 | 23794 | 0.68% | 0.205% |
| 154 | 11.136 | 11.120 | 11.164 | VV | 275 | 5153 | 0.15% | 0.044% |
| 155 | 11.175 | 11.164 | 11.190 | VV | 206 | 1896 | 0.05% | 0.016% |
| 156 | 11.208 | 11.190 | 11.223 | VV | 180 | 2610 | 0.07% | 0.022% |
| 157 | 11.246 | 11.223 | 11.275 | VV | 297 | 5884 | 0.17% | 0.051% |
| 158 | 11.299 | 11.275 | 11.328 | VV | 310 | 7901 | 0.22% | 0.068% |
| 159 | 11.349 | 11.328 | 11.404 | VV | 448 | 12423 | 0.35% | 0.107% |
| 160 | 11.428 | 11.404 | 11.468 | VV | 295 | 6422 | 0.18% | 0.055% |
| 161 | 11.485 | 11.468 | 11.498 | VV | 148 | 2040 | 0.06% | 0.018% |
| 162 | 11.556 | 11.498 | 11.586 | VV | 3386 | 46344 | 1.32% | 0.399% |
| 163 | 11.628 | 11.586 | 11.658 | VV | 2652 | 38713 | 1.10% | 0.333% |
| 164 | 11.720 | 11.658 | 11.766 | VV | 1570 | 29022 | 0.82% | 0.250% |
| 165 | 11.781 | 11.766 | 11.800 | VV | 187 | 1854 | 0.05% | 0.016% |
| 166 | 11.854 | 11.800 | 11.895 | PV | 175 | 5653 | 0.16% | 0.049% |
| 167 | 11.944 | 11.895 | 11.964 | VV | 282 | 9011 | 0.26% | 0.078% |
| 168 | 12.019 | 11.964 | 12.055 | VV | 527 | 14592 | 0.41% | 0.126% |
| 169 | 12.081 | 12.055 | 12.126 | VV | 418 | 10879 | 0.31% | 0.094% |
| 170 | 12.149 | 12.126 | 12.160 | VV | 147 | 2024 | 0.06% | 0.017% |
| 171 | 12.186 | 12.160 | 12.209 | VV | 168 | 3432 | 0.10% | 0.030% |
| 172 | 12.227 | 12.209 | 12.239 | VV | 252 | 3389 | 0.10% | 0.029% |
| 173 | 12.293 | 12.239 | 12.322 | VV | 976 | 24947 | 0.71% | 0.215% |
| 174 | 12.341 | 12.322 | 12.369 | VV | 305 | 6150 | 0.17% | 0.053% |
| 175 | 12.393 | 12.369 | 12.412 | VV | 212 | 4753 | 0.14% | 0.041% |
| 176 | 12.433 | 12.412 | 12.476 | VV | 387 | 10138 | 0.29% | 0.087% |
| 177 | 12.516 | 12.476 | 12.552 | VV | 770 | 19532 | 0.56% | 0.168% |
| 178 | 12.576 | 12.552 | 12.615 | VV | 381 | 11038 | 0.31% | 0.095% |
| 179 | 12.626 | 12.615 | 12.657 | VV | 237 | 4189 | 0.12% | 0.036% |
| 180 | 12.711 | 12.657 | 12.728 | VV | 388 | 9289 | 0.26% | 0.080% |
| 181 | 12.744 | 12.728 | 12.762 | VV | 408 | 6722 | 0.19% | 0.058% |
| 182 | 12.801 | 12.762 | 12.836 | VV | 2113 | 33041 | 0.94% | 0.285% |
| 183 | 12.876 | 12.836 | 12.911 | VV | 1006 | 15651 | 0.44% | 0.135% |
| 184 | 12.938 | 12.911 | 12.984 | VV | 2089 | 28391 | 0.81% | 0.244% |
| 185 | 12.997 | 12.984 | 13.020 | VV | 247 | 4229 | 0.12% | 0.036% |
| 186 | 13.055 | 13.020 | 13.104 | VV | 351 | 9795 | 0.28% | 0.084% |
| 187 | 13.113 | 13.104 | 13.129 | VV | 91 | 906 | 0.03% | 0.008% |
| 188 | 13.132 | 13.129 | 13.140 | VV | 75 | 306 | 0.01% | 0.003% |
| 189 | 13.217 | 13.140 | 13.252 | PV | 231 | 8356 | 0.24% | 0.072% |
| 190 | 13.265 | 13.252 | 13.281 | VV | 182 | 1944 | 0.06% | 0.017% |
| 191 | 13.330 | 13.281 | 13.349 | VV | 349 | 8981 | 0.26% | 0.077% |
| 192 | 13.385 | 13.349 | 13.421 | VV | 295966 | 3518508 | 100.00% | 30.300% |
| 193 | 13.441 | 13.421 | 13.469 | VV | 534 | 10159 | 0.29% | 0.087% |
| 194 | 13.488 | 13.469 | 13.502 | VV | 242 | 3999 | 0.11% | 0.034% |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 195 | 13.552 | 13.502 | 13.579 | VV | 647 | 14624 | 0.42% | 0.126% |
| 196 | 13.605 | 13.579 | 13.652 | VV | 401 | 11136 | 0.32% | 0.096% |
| 197 | 13.671 | 13.652 | 13.702 | VV | 187 | 4275 | 0.12% | 0.037% |
| 198 | 13.722 | 13.702 | 13.734 | VV | 186 | 2633 | 0.07% | 0.023% |
| 199 | 13.771 | 13.734 | 13.797 | VV | 352 | 9734 | 0.28% | 0.084% |
| 200 | 13.827 | 13.797 | 13.879 | VV | 526 | 14813 | 0.42% | 0.128% |
| 201 | 13.894 | 13.879 | 13.915 | VV | 191 | 3035 | 0.09% | 0.026% |
| 202 | 13.986 | 13.915 | 13.997 | VV | 318 | 9620 | 0.27% | 0.083% |
| 203 | 14.001 | 13.997 | 14.027 | VV | 238 | 3048 | 0.09% | 0.026% |
| 204 | 14.055 | 14.027 | 14.065 | VV | 300 | 4532 | 0.13% | 0.039% |
| 205 | 14.086 | 14.065 | 14.111 | VV | 808 | 11545 | 0.33% | 0.099% |
| 206 | 14.138 | 14.111 | 14.172 | VV | 2005 | 26327 | 0.75% | 0.227% |
| 207 | 14.198 | 14.172 | 14.242 | VV | 200 | 4280 | 0.12% | 0.037% |
| 208 | 14.278 | 14.242 | 14.322 | VV | 180 | 3647 | 0.10% | 0.031% |
| 209 | 14.378 | 14.322 | 14.415 | PV | 553 | 14392 | 0.41% | 0.124% |
| 210 | 14.439 | 14.415 | 14.459 | VV | 234 | 4771 | 0.14% | 0.041% |
| 211 | 14.467 | 14.459 | 14.495 | VV | 196 | 2897 | 0.08% | 0.025% |
| 212 | 14.574 | 14.495 | 14.605 | VV | 977 | 22369 | 0.64% | 0.193% |
| 213 | 14.615 | 14.605 | 14.635 | VV | 167 | 2662 | 0.08% | 0.023% |
| 214 | 14.650 | 14.635 | 14.681 | VV | 223 | 4873 | 0.14% | 0.042% |
| 215 | 14.702 | 14.681 | 14.745 | VV | 711 | 10130 | 0.29% | 0.087% |
| 216 | 14.839 | 14.745 | 14.892 | PV | 404 | 20240 | 0.58% | 0.174% |
| 217 | 14.902 | 14.892 | 14.919 | VV | 217 | 2351 | 0.07% | 0.020% |
| 218 | 14.957 | 14.919 | 14.975 | VV | 349 | 6542 | 0.19% | 0.056% |
| 219 | 14.982 | 14.975 | 15.001 | VV | 246 | 2896 | 0.08% | 0.025% |
| 220 | 15.021 | 15.001 | 15.044 | VV | 293 | 5394 | 0.15% | 0.046% |
| 221 | 15.057 | 15.044 | 15.125 | VV | 194 | 7348 | 0.21% | 0.063% |
| 222 | 15.198 | 15.125 | 15.215 | VV | 656 | 12691 | 0.36% | 0.109% |
| 223 | 15.243 | 15.215 | 15.292 | VV | 2208 | 33667 | 0.96% | 0.290% |
| 224 | 15.308 | 15.292 | 15.351 | VV | 212 | 4506 | 0.13% | 0.039% |
| 225 | 15.380 | 15.351 | 15.395 | VV | 243 | 3865 | 0.11% | 0.033% |
| 226 | 15.446 | 15.395 | 15.466 | VV | 267 | 7873 | 0.22% | 0.068% |
| 227 | 15.484 | 15.466 | 15.496 | VV | 308 | 3479 | 0.10% | 0.030% |
| 228 | 15.515 | 15.496 | 15.535 | VV | 294 | 5377 | 0.15% | 0.046% |
| 229 | 15.574 | 15.535 | 15.593 | VV | 322 | 8108 | 0.23% | 0.070% |
| 230 | 15.673 | 15.593 | 15.700 | VV | 623 | 22728 | 0.65% | 0.196% |
| 231 | 15.716 | 15.700 | 15.732 | VV | 502 | 8097 | 0.23% | 0.070% |
| 232 | 15.765 | 15.732 | 15.794 | VV | 1450 | 32854 | 0.93% | 0.283% |
| 233 | 15.808 | 15.794 | 15.835 | VV | 807 | 17405 | 0.49% | 0.150% |
| 234 | 15.859 | 15.835 | 15.873 | VV | 556 | 11975 | 0.34% | 0.103% |
| 235 | 15.902 | 15.873 | 15.924 | VV | 743 | 18098 | 0.51% | 0.156% |
| 236 | 15.957 | 15.924 | 15.972 | VV | 752 | 19456 | 0.55% | 0.168% |
| 237 | 15.990 | 15.972 | 16.002 | VV | 862 | 13775 | 0.39% | 0.119% |
| 238 | 16.082 | 16.002 | 16.180 | VV | 1512 | 114471 | 3.25% | 0.986% |
| 239 | 16.227 | 16.180 | 16.240 | VV | 1673 | 43149 | 1.23% | 0.372% |
| 240 | 16.265 | 16.240 | 16.351 | VV | 3273 | 111147 | 3.16% | 0.957% |
| 241 | 16.365 | 16.351 | 16.391 | VV | 1244 | 27434 | 0.78% | 0.236% |
| 242 | 16.458 | 16.391 | 16.512 | VV | 2171 | 118366 | 3.36% | 1.019% |
| 243 | 16.576 | 16.512 | 16.609 | VV | 2293 | 109075 | 3.10% | 0.939% |
| 244 | 16.630 | 16.609 | 16.679 | VV | 2475 | 83425 | 2.37% | 0.718% |
| 245 | 16.700 | 16.679 | 16.709 | VV | 2100 | 33524 | 0.95% | 0.289% |
| 246 | 16.749 | 16.709 | 16.778 | VV | 3601 | 104357 | 2.97% | 0.899% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 16.790 | 16.778 | 16.810 | VV | 2062 | 38309 | 1.09% | 0.330% |
| 248 | 16.872 | 16.810 | 16.882 | VV | 2528 | 93831 | 2.67% | 0.808% |
| 249 | 16.906 | 16.882 | 16.936 | VV | 2713 | 82751 | 2.35% | 0.713% |
| 250 | 16.961 | 16.936 | 17.003 | VV | 2875 | 108947 | 3.10% | 0.938% |
| 251 | 17.019 | 17.003 | 17.038 | VV | 2661 | 52374 | 1.49% | 0.451% |
| 252 | 17.084 | 17.038 | 17.138 | VV | 3059 | 156254 | 4.44% | 1.346% |
| 253 | 17.215 | 17.138 | 17.265 | VV | 4627 | 237230 | 6.74% | 2.043% |
| 254 | 17.275 | 17.265 | 17.292 | VV | 2800 | 42948 | 1.22% | 0.370% |
| 255 | 17.316 | 17.292 | 17.324 | VV | 2708 | 49404 | 1.40% | 0.425% |
| 256 | 17.345 | 17.324 | 17.396 | VV | 2863 | 117700 | 3.35% | 1.014% |
| 257 | 17.450 | 17.396 | 17.488 | VV | 3600 | 166035 | 4.72% | 1.430% |
| 258 | 17.548 | 17.488 | 17.619 | VV | 2905 | 202922 | 5.77% | 1.747% |
| 259 | 17.666 | 17.619 | 17.723 | VV | 5293 | 190999 | 5.43% | 1.645% |
| 260 | 17.741 | 17.723 | 17.759 | VV | 2571 | 50535 | 1.44% | 0.435% |
| 261 | 17.786 | 17.759 | 17.828 | VV | 3065 | 107507 | 3.06% | 0.926% |
| 262 | 17.836 | 17.828 | 17.852 | VV | 2403 | 31604 | 0.90% | 0.272% |
| 263 | 17.872 | 17.852 | 17.895 | VV | 2230 | 54285 | 1.54% | 0.467% |
| 264 | 17.930 | 17.895 | 17.939 | VV | 2016 | 49653 | 1.41% | 0.428% |
| 265 | 17.961 | 17.939 | 17.989 | VV | 2101 | 57768 | 1.64% | 0.497% |
| 266 | 18.003 | 17.989 | 18.013 | VV | 2204 | 30046 | 0.85% | 0.259% |
| 267 | 18.023 | 18.013 | 18.047 | VV | 2246 | 43016 | 1.22% | 0.370% |
| 268 | 18.102 | 18.047 | 18.132 | VV | 4540 | 137599 | 3.91% | 1.185% |
| 269 | 18.148 | 18.132 | 18.169 | VV | 1704 | 35072 | 1.00% | 0.302% |
| 270 | 18.180 | 18.169 | 18.209 | VV | 1623 | 36174 | 1.03% | 0.312% |
| 271 | 18.253 | 18.209 | 18.335 | VV | 2706 | 138941 | 3.95% | 1.197% |
| 272 | 18.397 | 18.335 | 18.434 | VV | 1589 | 77064 | 2.19% | 0.664% |
| 273 | 18.483 | 18.434 | 18.500 | VV | 1465 | 53547 | 1.52% | 0.461% |
| 274 | 18.527 | 18.500 | 18.556 | VV | 4137 | 72121 | 2.05% | 0.621% |
| 275 | 18.619 | 18.556 | 18.642 | VV | 2256 | 63859 | 1.81% | 0.550% |
| 276 | 18.654 | 18.642 | 18.704 | VV | 997 | 28976 | 0.82% | 0.250% |
| 277 | 18.790 | 18.704 | 18.808 | VV | 1046 | 45269 | 1.29% | 0.390% |
| 278 | 18.818 | 18.808 | 18.852 | VV | 937 | 20624 | 0.59% | 0.178% |
| 279 | 18.870 | 18.852 | 18.882 | VV | 635 | 9775 | 0.28% | 0.084% |
| 280 | 18.936 | 18.882 | 19.002 | VV | 2685 | 73169 | 2.08% | 0.630% |
| 281 | 19.040 | 19.002 | 19.072 | VV | 951 | 24861 | 0.71% | 0.214% |
| 282 | 19.091 | 19.072 | 19.110 | VV | 836 | 14033 | 0.40% | 0.121% |
| 283 | 19.120 | 19.110 | 19.156 | VV | 542 | 12404 | 0.35% | 0.107% |
| 284 | 19.202 | 19.156 | 19.215 | VV | 441 | 11762 | 0.33% | 0.101% |
| 285 | 19.248 | 19.215 | 19.271 | VV | 518 | 12548 | 0.36% | 0.108% |
| 286 | 19.334 | 19.271 | 19.359 | VV | 2069 | 40762 | 1.16% | 0.351% |
| 287 | 19.372 | 19.359 | 19.408 | VV | 762 | 13087 | 0.37% | 0.113% |
| 288 | 19.442 | 19.408 | 19.468 | VV | 483 | 7526 | 0.21% | 0.065% |
| 289 | 19.510 | 19.468 | 19.572 | PV | 490 | 16357 | 0.46% | 0.141% |
| 290 | 19.581 | 19.572 | 19.593 | VV | 246 | 1947 | 0.06% | 0.017% |
| 291 | 19.665 | 19.593 | 19.681 | VV | 194 | 7561 | 0.21% | 0.065% |
| 292 | 19.719 | 19.681 | 19.743 | VV | 2009 | 36726 | 1.04% | 0.316% |
| 293 | 19.751 | 19.743 | 19.791 | VV | 1024 | 16418 | 0.47% | 0.141% |
| 294 | 19.841 | 19.791 | 19.882 | VV | 393 | 12910 | 0.37% | 0.111% |
| 295 | 19.944 | 19.882 | 19.975 | VV | 464 | 18470 | 0.52% | 0.159% |
| 296 | 20.031 | 19.975 | 20.054 | VV | 728 | 27553 | 0.78% | 0.237% |
| 297 | 20.095 | 20.054 | 20.122 | VV | 1547 | 39529 | 1.12% | 0.340% |
| 298 | 20.151 | 20.122 | 20.176 | VV | 1073 | 32028 | 0.91% | 0.276% |
| 299 | 20.257 | 20.176 | 20.281 | VV | 1235 | 61349 | 1.74% | 0.528% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 20.366 | 20.281 | 20.399 | VV | 1664 | 95652 | 2.72% | 0.824% |
| 301 | 20.461 | 20.399 | 20.487 | VV | 2683 | 99003 | 2.81% | 0.853% |
| 302 | 20.541 | 20.487 | 20.556 | VV | 2149 | 83800 | 2.38% | 0.722% |
| 303 | 20.572 | 20.556 | 20.595 | VV | 2084 | 47748 | 1.36% | 0.411% |
| 304 | 20.642 | 20.595 | 20.653 | VV | 2467 | 77196 | 2.19% | 0.665% |
| 305 | 20.725 | 20.653 | 20.761 | VV | 2650 | 162386 | 4.62% | 1.398% |
| 306 | 20.819 | 20.761 | 20.899 | VV | 3047 | 208386 | 5.92% | 1.795% |
| 307 | 20.952 | 20.899 | 20.966 | VV | 2393 | 92669 | 2.63% | 0.798% |
| 308 | 21.002 | 20.966 | 21.051 | VV | 2588 | 126530 | 3.60% | 1.090% |
| 309 | 21.067 | 21.051 | 21.129 | VV | 2544 | 109666 | 3.12% | 0.944% |
| 310 | 21.206 | 21.129 | 21.255 | VV | 2813 | 178526 | 5.07% | 1.537% |
| 311 | 21.293 | 21.255 | 21.318 | VV | 2256 | 80222 | 2.28% | 0.691% |
| 312 | 21.337 | 21.318 | 21.430 | VV | 2118 | 125517 | 3.57% | 1.081% |
| 313 | 21.439 | 21.430 | 21.475 | VV | 1709 | 43744 | 1.24% | 0.377% |
| 314 | 21.490 | 21.475 | 21.520 | VV | 1518 | 39494 | 1.12% | 0.340% |
| 315 | 21.550 | 21.520 | 21.573 | VV | 1520 | 47278 | 1.34% | 0.407% |
| 316 | 21.645 | 21.573 | 21.673 | VV | 1637 | 86080 | 2.45% | 0.741% |
| 317 | 21.682 | 21.673 | 21.693 | VV | 1316 | 14859 | 0.42% | 0.128% |
| 318 | 21.708 | 21.693 | 21.719 | VV | 1312 | 20437 | 0.58% | 0.176% |
| 319 | 21.729 | 21.719 | 21.805 | VV | 1290 | 52736 | 1.50% | 0.454% |
| 320 | 21.825 | 21.805 | 21.891 | VV | 781 | 33478 | 0.95% | 0.288% |
| 321 | 21.903 | 21.891 | 21.920 | VV | 599 | 9954 | 0.28% | 0.086% |
| 322 | 21.928 | 21.920 | 21.949 | VV | 575 | 9057 | 0.26% | 0.078% |
| 323 | 21.972 | 21.949 | 21.985 | VV | 469 | 10082 | 0.29% | 0.087% |
| 324 | 21.992 | 21.985 | 22.006 | VV | 455 | 5285 | 0.15% | 0.046% |
| 325 | 22.044 | 22.006 | 22.065 | VV | 631 | 18516 | 0.53% | 0.159% |
| 326 | 22.074 | 22.065 | 22.095 | VV | 592 | 9663 | 0.27% | 0.083% |
| 327 | 22.142 | 22.095 | 22.199 | VV | 737 | 28445 | 0.81% | 0.245% |
| 328 | 22.202 | 22.199 | 22.252 | VBA | 266 | 15034 | 0.43% | 0.129% |
| | | | Sum of corrected areas: | | | 11612312 | | |

Aliphatic EPH 111424.M Wed Nov 20 01:27:52 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015096.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 11:47
Operator : YP\AJ
Sample : P4860-08
Misc :
ALS Vial : 73 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-007

Integration File: autoint1.e
Quant Time: Nov 20 01:47:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 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... | 7.988 | 6337278 | 51.895 ug/ml |
| Spiked Amount 50.000 | | Recovery = 103.79% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.861 | 3970343 | 48.632 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 97.26% | |
| 11) S ortho-Terphenyl (SURR) | 11.921 | 3285749 | 24.494 ug/ml |
| Spiked Amount 50.000 | | Recovery = 48.99% | |
| **Target Compounds** | | | |

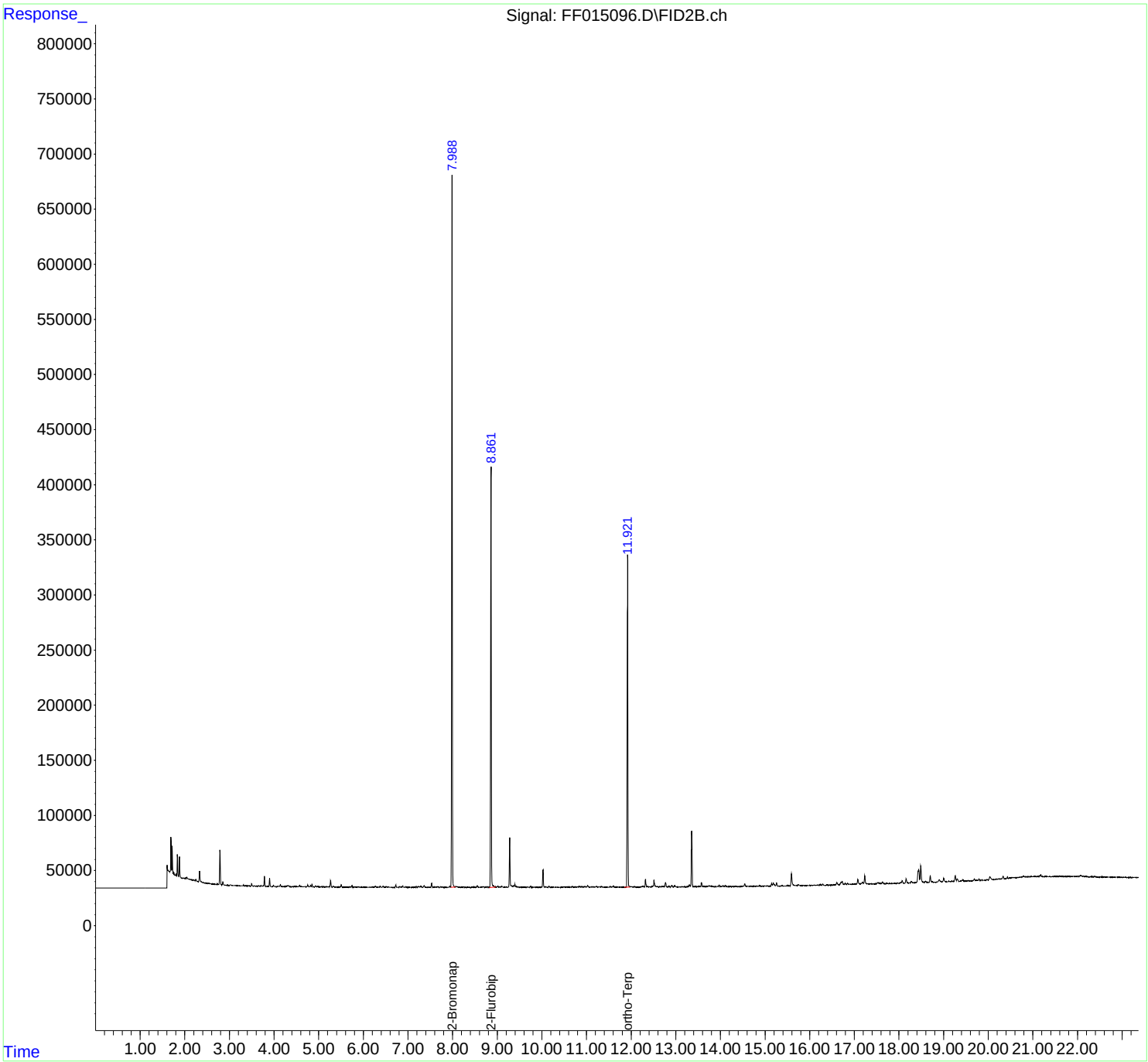
(f)=RT Delta > 1/2 Window (m)=manual int.

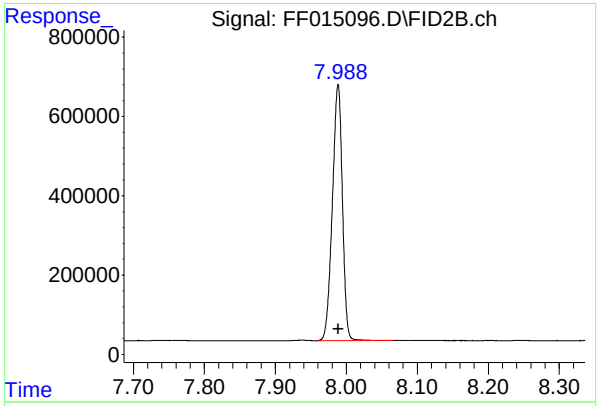
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015096.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 11:47
Operator : YP\AJ
Sample : P4860-08
Misc :
ALS Vial : 73 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-007

Integration File: autoint1.e
Quant Time: Nov 20 01:47:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

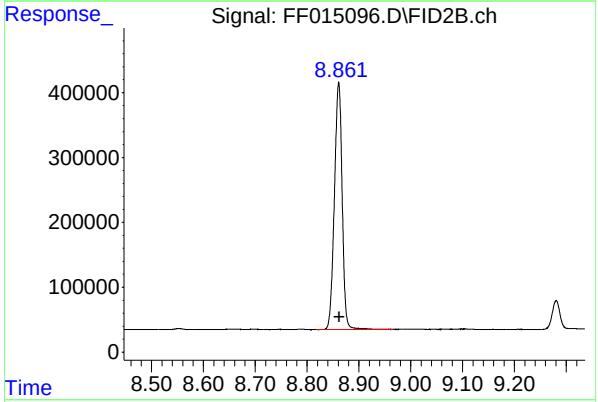





#4 2-Bromonaphthalene (SURR)

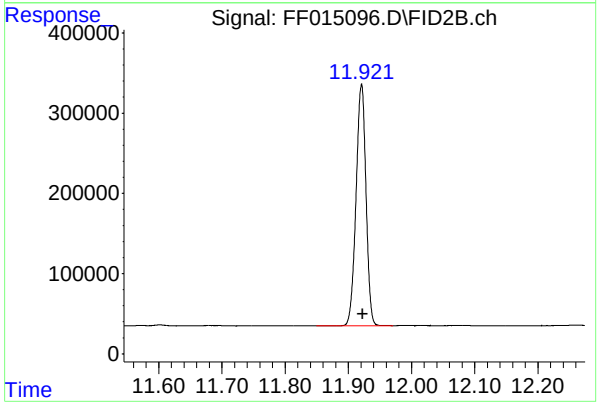
R.T.: 7.988 min
Delta R.T.: 0.000 min
Response: 6337278
Conc: 51.90 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-007




#6 2-Flurobiphenyl (SURR)

R.T.: 8.861 min
Delta R.T.: -0.001 min
Response: 3970343
Conc: 48.63 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.921 min
Delta R.T.: -0.002 min
Response: 3285749
Conc: 24.49 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015096.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 11:47
Sample : P4860-08
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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 | 4.756 | 4.721 | 4.777 | BV | 1824 | 22513 | 0.36% | 0.135% |
| 2 | 4.851 | 4.833 | 4.896 | VB | 2626 | 28384 | 0.45% | 0.170% |
| 3 | 5.267 | 5.202 | 5.299 | BV | 5756 | 76094 | 1.20% | 0.455% |
| 4 | 5.506 | 5.434 | 5.547 | BB | 2459 | 29406 | 0.46% | 0.176% |
| 5 | 5.746 | 5.729 | 5.767 | BV | 1675 | 16757 | 0.26% | 0.100% |
| 6 | 6.728 | 6.679 | 6.751 | BV | 2212 | 23160 | 0.37% | 0.138% |
| 7 | 7.365 | 7.334 | 7.389 | PB | 1665 | 22376 | 0.35% | 0.134% |
| 8 | 7.530 | 7.496 | 7.562 | BV | 3794 | 40920 | 0.65% | 0.244% |
| 9 | 7.988 | 7.957 | 8.066 | PV | 650311 | 6337278 | 100.00% | 37.865% |
| 10 | 8.861 | 8.817 | 8.966 | BB | 381067 | 3970343 | 62.65% | 23.723% |
| 11 | 9.281 | 9.229 | 9.344 | BV | 44831 | 487122 | 7.69% | 2.911% |
| 12 | 9.396 | 9.374 | 9.417 | VV | 2106 | 25514 | 0.40% | 0.152% |
| 13 | 10.026 | 9.904 | 10.064 | BV | 15795 | 176387 | 2.78% | 1.054% |
| 14 | 11.921 | 11.849 | 11.971 | BV | 300523 | 3285749 | 51.85% | 19.632% |
| 15 | 12.322 | 12.291 | 12.347 | VV | 6998 | 82947 | 1.31% | 0.496% |
| 16 | 12.512 | 12.451 | 12.594 | BB | 6192 | 97277 | 1.54% | 0.581% |
| 17 | 12.771 | 12.602 | 12.816 | BB | 3946 | 69746 | 1.10% | 0.417% |
| 18 | 13.305 | 13.283 | 13.325 | VV | 1902 | 27081 | 0.43% | 0.162% |
| 19 | 13.355 | 13.325 | 13.392 | VV | 50990 | 615707 | 9.72% | 3.679% |
| 20 | 13.575 | 13.392 | 13.615 | VV | 3759 | 73315 | 1.16% | 0.438% |
| 21 | 14.544 | 14.517 | 14.599 | VB | 2399 | 33384 | 0.53% | 0.199% |
| 22 | 15.144 | 15.089 | 15.164 | BV | 2468 | 34719 | 0.55% | 0.207% |
| 23 | 15.184 | 15.164 | 15.232 | VV | 3016 | 63840 | 1.01% | 0.381% |
| 24 | 15.256 | 15.232 | 15.287 | VB | 3073 | 41051 | 0.65% | 0.245% |
| 25 | 15.589 | 15.554 | 15.669 | BB | 11056 | 179351 | 2.83% | 1.072% |
| 26 | 16.605 | 16.542 | 16.654 | BB | 1919 | 31030 | 0.49% | 0.185% |
| 27 | 16.699 | 16.661 | 16.712 | BV | 2308 | 32422 | 0.51% | 0.194% |
| 28 | 16.727 | 16.712 | 16.764 | VV | 2935 | 42198 | 0.67% | 0.252% |
| 29 | 17.077 | 16.961 | 17.127 | BV | 4095 | 65504 | 1.03% | 0.391% |
| 30 | 17.184 | 17.162 | 17.206 | VV | 1707 | 27727 | 0.44% | 0.166% |
| 31 | 17.232 | 17.206 | 17.299 | VB | 7412 | 106017 | 1.67% | 0.633% |
| 32 | 18.071 | 17.982 | 18.101 | VB | 2461 | 51849 | 0.82% | 0.310% |
| 33 | 18.160 | 18.124 | 18.202 | BV | 4067 | 59298 | 0.94% | 0.354% |
| 34 | 18.443 | 18.411 | 18.465 | BV | 8976 | 188107 | 2.97% | 1.124% |
| 35 | 18.487 | 18.465 | 18.562 | VV | 13746 | 178893 | 2.82% | 1.069% |
| 36 | 18.700 | 18.661 | 18.771 | BB | 6051 | 93005 | 1.47% | 0.556% |

rteres
Sum of corrected areas: 16736471

Aromatic EPH 111524.M Wed Nov 20 02:26:58 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014866.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 12:16
Operator : YP\AJ
Sample : P4860-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-006

Integration File: autoint1.e
Quant Time: Nov 20 00:35:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 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... | 13.385 | 3851647 | 34.659 ug/ml |
| Spiked Amount 50.000 | | Recovery = 69.32% | |
| Target Compounds | | | |

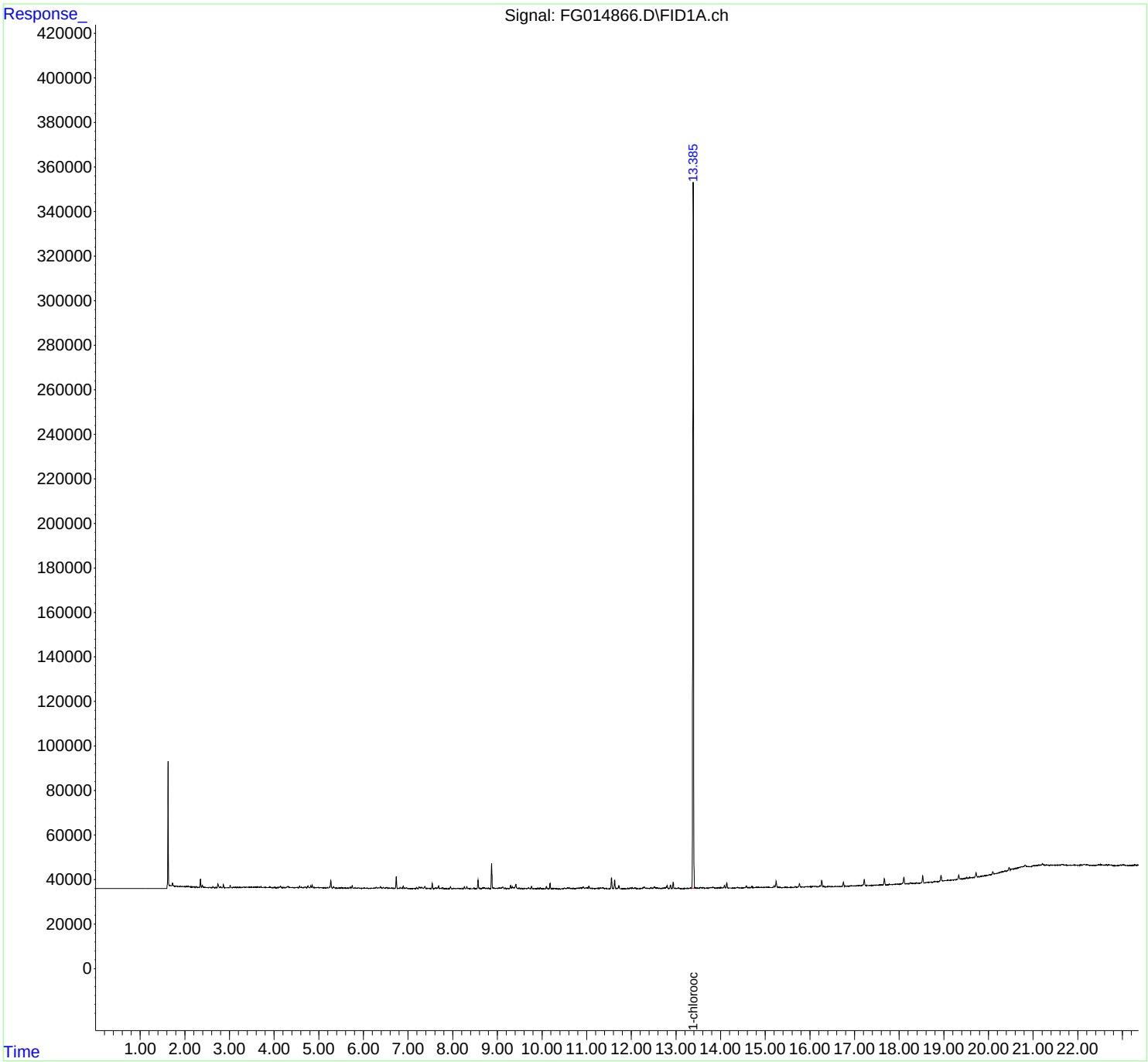
(f)=RT Delta > 1/2 Window (m)=manual int.

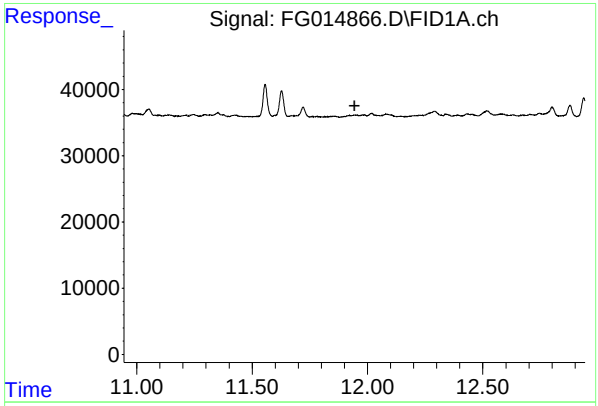
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014866.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 12:16
Operator : YP\AJ
Sample : P4860-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-006

Integration File: autoint1.e
Quant Time: Nov 20 00:35:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

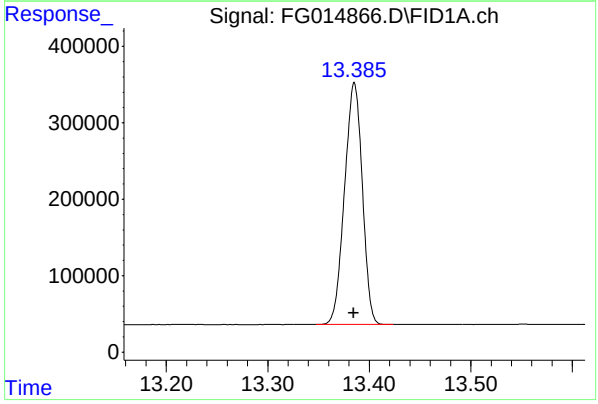





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.944 min
Response: 0
Conc: N.D.

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-006




#12 1-chlorooctadecane (SURR)

R.T.: 13.385 min
Delta R.T.: 0.000 min
Response: 3851647
Conc: 34.66 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014866.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 12:16
Sample : P4860-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\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 | 5.271 | 5.223 | 5.304 | BB | 3502 | 45226 | 1.17% | 1.073% |
| 2 | 6.737 | 6.714 | 6.759 | BB | 5376 | 53873 | 1.40% | 1.278% |
| 3 | 8.569 | 8.545 | 8.593 | BB | 3795 | 39616 | 1.03% | 0.940% |
| 4 | 8.872 | 8.848 | 8.899 | BB | 11275 | 117755 | 3.06% | 2.793% |
| 5 | 11.556 | 11.529 | 11.588 | BB | 4826 | 60632 | 1.57% | 1.438% |
| 6 | 11.627 | 11.603 | 11.657 | BB | 3759 | 46620 | 1.21% | 1.106% |
| 7 | 13.385 | 13.348 | 13.423 | BB | 316862 | 3851647 | 100.00% | 91.372% |
| | | | Sum of corrected areas: | | | 4215370 | | |

Aliphatic EPH 111424.M Wed Nov 20 01:23:34 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015097.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 12:16
Operator : YP\AJ
Sample : P4860-09
Misc :
ALS Vial : 74 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-006

Integration File: autoint1.e
Quant Time: Nov 20 01:47:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 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... | 7.988 | 6327225 | 51.813 ug/ml |
| Spiked Amount 50.000 | | Recovery = 103.63% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.861 | 4096157 | 50.173 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 100.35% | |
| 11) S ortho-Terphenyl (SURR) | 11.922 | 3853118 | 28.724 ug/ml |
| Spiked Amount 50.000 | | Recovery = 57.45% | |
| Target Compounds | | | |

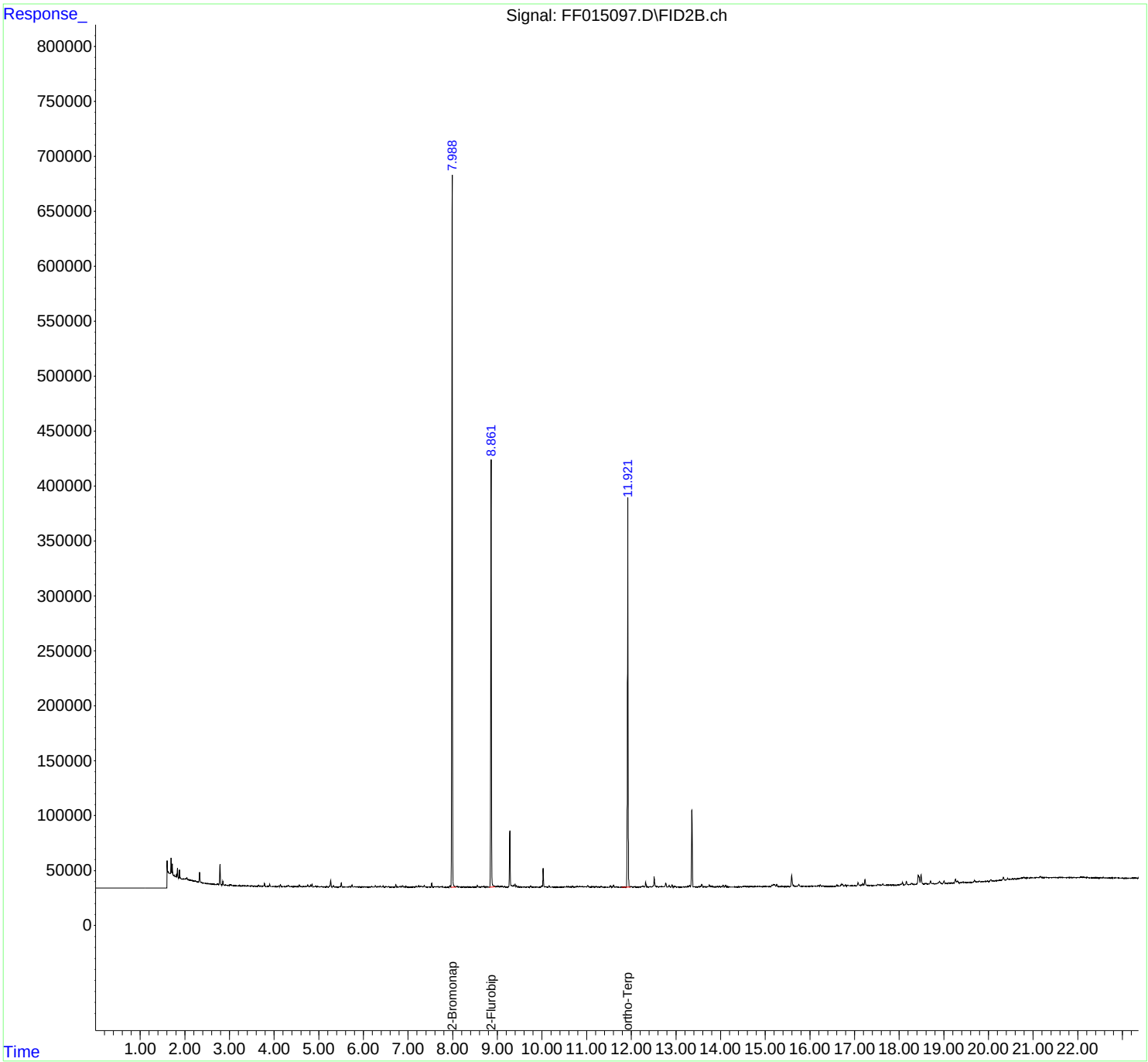
(f)=RT Delta > 1/2 Window (m)=manual int.

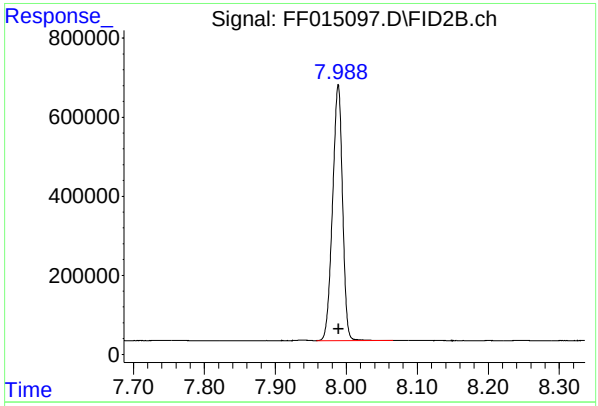
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015097.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 12:16
Operator : YP\AJ
Sample : P4860-09
Misc :
ALS Vial : 74 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-006

Integration File: autoint1.e
Quant Time: Nov 20 01:47:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

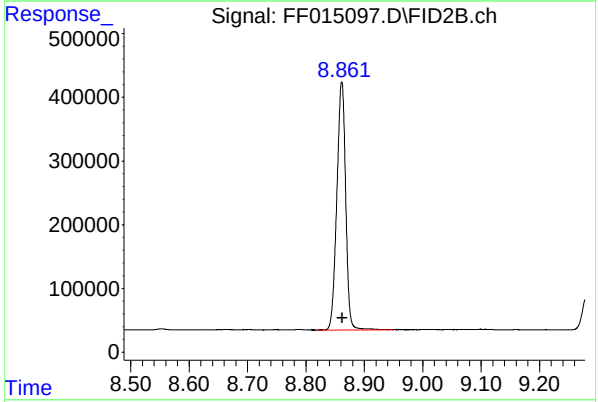





#4 2-Bromonaphthalene (SURR)

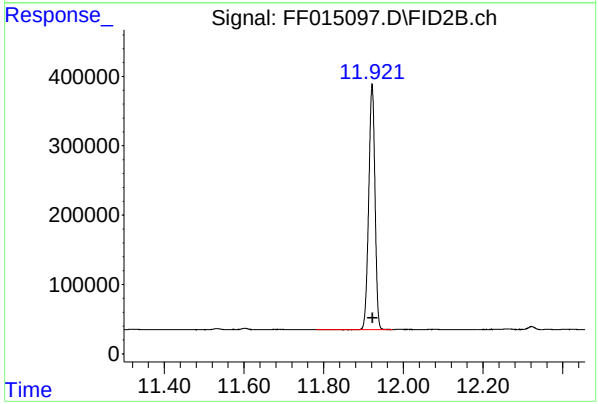
R.T.: 7.988 min
Delta R.T.: 0.000 min
Response: 6327225
Conc: 51.81 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-006




#6 2-Flurobiphenyl (SURR)

R.T.: 8.861 min
Delta R.T.: -0.001 min
Response: 4096157
Conc: 50.17 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.922 min
Delta R.T.: -0.002 min
Response: 3853118
Conc: 28.72 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015097.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 12:16
Sample : P4860-09
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.566 | 4.536 | 4.587 | BV | 1720 | 18066 | 0.29% | 0.104% |
| 2 | 4.755 | 4.716 | 4.779 | PV | 1732 | 26028 | 0.41% | 0.149% |
| 3 | 4.818 | 4.779 | 4.834 | VV | 1721 | 18913 | 0.30% | 0.109% |
| 4 | 4.851 | 4.834 | 4.879 | VB | 2558 | 26037 | 0.41% | 0.149% |
| 5 | 5.267 | 5.211 | 5.297 | BV | 5897 | 80871 | 1.28% | 0.464% |
| 6 | 5.505 | 5.429 | 5.542 | BB | 3950 | 44157 | 0.70% | 0.253% |
| 7 | 5.745 | 5.719 | 5.766 | VV | 2015 | 22813 | 0.36% | 0.131% |
| 8 | 6.728 | 6.672 | 6.751 | BV | 2346 | 23934 | 0.38% | 0.137% |
| 9 | 7.366 | 7.332 | 7.414 | VB | 1705 | 24223 | 0.38% | 0.139% |
| 10 | 7.530 | 7.496 | 7.564 | BV | 3726 | 42657 | 0.67% | 0.245% |
| 11 | 7.988 | 7.957 | 8.066 | PV | 651270 | 6327225 | 100.00% | 36.320% |
| 12 | 8.861 | 8.817 | 8.949 | BB | 390381 | 4096157 | 64.74% | 23.513% |
| 13 | 9.281 | 9.239 | 9.342 | BV | 51339 | 553300 | 8.74% | 3.176% |
| 14 | 9.358 | 9.342 | 9.374 | VV | 1560 | 16356 | 0.26% | 0.094% |
| 15 | 9.396 | 9.374 | 9.416 | VV | 2305 | 27051 | 0.43% | 0.155% |
| 16 | 10.027 | 10.005 | 10.057 | VV | 17081 | 182840 | 2.89% | 1.050% |
| 17 | 11.603 | 11.556 | 11.636 | VB | 2028 | 28312 | 0.45% | 0.163% |
| 18 | 11.922 | 11.781 | 11.974 | BV | 352315 | 3853118 | 60.90% | 22.118% |
| 19 | 12.322 | 12.286 | 12.347 | VV | 4419 | 52292 | 0.83% | 0.300% |
| 20 | 12.512 | 12.457 | 12.609 | BB | 9636 | 142260 | 2.25% | 0.817% |
| 21 | 12.771 | 12.639 | 12.821 | BB | 3553 | 57448 | 0.91% | 0.330% |
| 22 | 12.911 | 12.876 | 12.934 | PV | 2108 | 25769 | 0.41% | 0.148% |
| 23 | 13.356 | 13.326 | 13.389 | VV | 69932 | 833620 | 13.18% | 4.785% |
| 24 | 13.576 | 13.496 | 13.614 | BV | 2479 | 41482 | 0.66% | 0.238% |
| 25 | 13.749 | 13.614 | 13.774 | PB | 1467 | 19303 | 0.31% | 0.111% |
| 26 | 14.109 | 14.084 | 14.151 | PB | 1755 | 24283 | 0.38% | 0.139% |
| 27 | 15.185 | 15.161 | 15.198 | VV | 2154 | 36683 | 0.58% | 0.211% |
| 28 | 15.257 | 15.237 | 15.292 | VB | 2031 | 27800 | 0.44% | 0.160% |
| 29 | 15.590 | 15.534 | 15.677 | BB | 10130 | 165609 | 2.62% | 0.951% |
| 30 | 15.750 | 15.682 | 15.802 | BB | 1795 | 27457 | 0.43% | 0.158% |
| 31 | 16.728 | 16.654 | 16.769 | BV | 1712 | 45902 | 0.73% | 0.263% |
| 32 | 17.077 | 16.952 | 17.127 | BV | 2641 | 39128 | 0.62% | 0.225% |
| 33 | 17.184 | 17.164 | 17.207 | VV | 1847 | 27322 | 0.43% | 0.157% |
| 34 | 17.232 | 17.207 | 17.284 | VB | 5317 | 76653 | 1.21% | 0.440% |
| 35 | 18.071 | 17.904 | 18.097 | BB | 2250 | 49627 | 0.78% | 0.285% |
| 36 | 18.160 | 18.124 | 18.202 | BB | 3225 | 46873 | 0.74% | 0.269% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 18.427 | 18.411 | 18.466 | BV | 6118 | 122342 | 1.93% | 0.702% |
| 38 | 18.488 | 18.466 | 18.539 | VB | 7562 | 105343 | 1.66% | 0.605% |
| 39 | 18.700 | 18.661 | 18.757 | BB | 2857 | 41619 | 0.66% | 0.239% |

Sum of corrected areas: 17420873

Aromatic EPH 111524.M Wed Nov 20 02:27:22 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014867.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 12:44
Operator : YP\AJ
Sample : P4860-10
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-005

Integration File: autoint1.e
Quant Time: Nov 20 00:36:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 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... | 13.386 | 3755030 | 33.790 ug/ml |
| Spiked Amount 50.000 | | Recovery = 67.58% | |
| Target Compounds | | | |

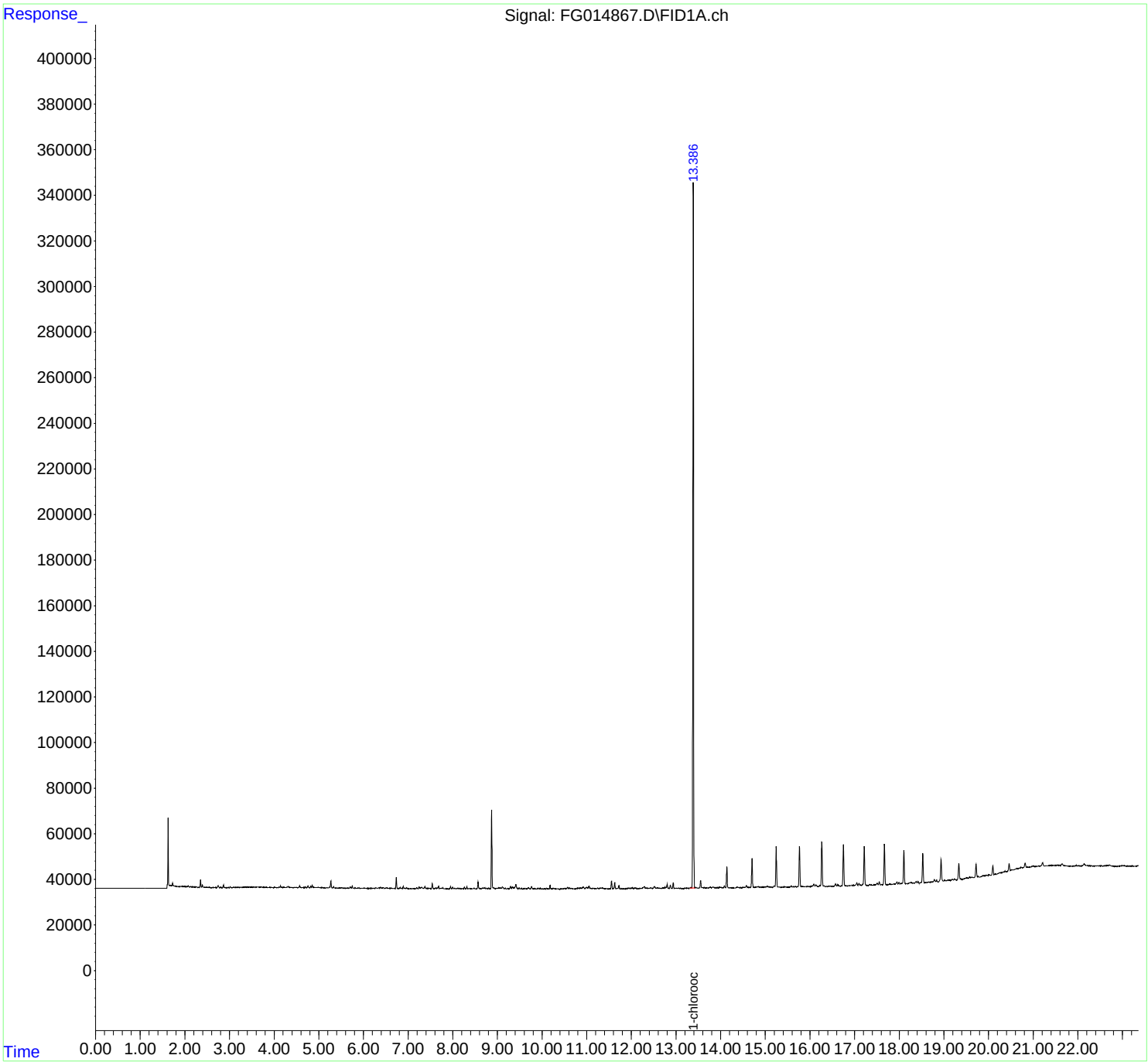
(f)=RT Delta > 1/2 Window (m)=manual int.

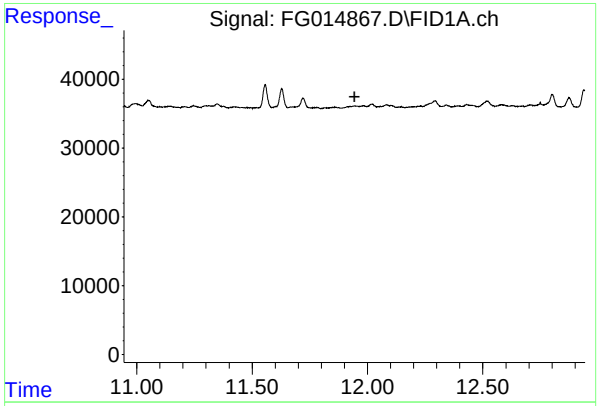
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014867.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 12:44
Operator : YP\AJ
Sample : P4860-10
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-005

Integration File: autoint1.e
Quant Time: Nov 20 00:36:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 16:33:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

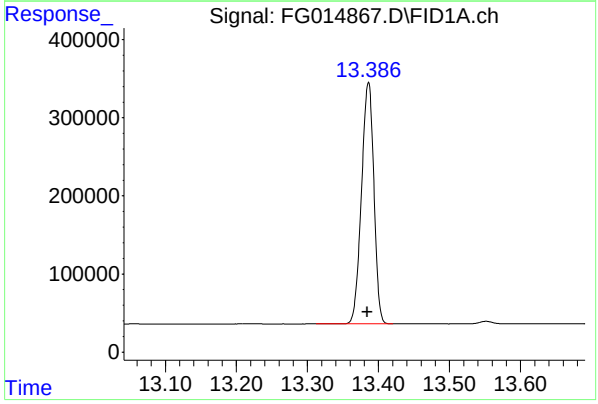





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.944 min
Response: 0
Conc: N.D.

**Instrument :**
FID_G
**ClientSampleId :**
PH2-BOT-005




#12 1-chlorooctadecane (SURR)

R.T.: 13.386 min
Delta R.T.: 0.002 min
Response: 3755030
Conc: 33.79 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111924AL\
Data File : FG014867.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 12:44
Sample : P4860-10
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\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 | 3.265 | 3.258 | 3.294 | VV | 78 | 1120 | 0.03% | 0.010% |
| 2 | 3.322 | 3.294 | 3.348 | PV | 300 | 4620 | 0.12% | 0.040% |
| 3 | 3.371 | 3.348 | 3.398 | VV | 118 | 3129 | 0.08% | 0.027% |
| 4 | 3.408 | 3.398 | 3.418 | VV | 118 | 1184 | 0.03% | 0.010% |
| 5 | 3.428 | 3.418 | 3.440 | VV | 146 | 1629 | 0.04% | 0.014% |
| 6 | 3.457 | 3.440 | 3.468 | VV | 167 | 2564 | 0.07% | 0.022% |
| 7 | 3.475 | 3.468 | 3.528 | VV | 175 | 5597 | 0.15% | 0.048% |
| 8 | 3.535 | 3.528 | 3.551 | VV | 184 | 2483 | 0.07% | 0.021% |
| 9 | 3.567 | 3.551 | 3.605 | VV | 226 | 6129 | 0.16% | 0.053% |
| 10 | 3.617 | 3.605 | 3.693 | VV | 237 | 10725 | 0.29% | 0.093% |
| 11 | 3.709 | 3.693 | 3.748 | VV | 339 | 6525 | 0.17% | 0.056% |
| 12 | 3.767 | 3.748 | 3.791 | VV | 210 | 3707 | 0.10% | 0.032% |
| 13 | 3.805 | 3.791 | 3.890 | VV | 142 | 5444 | 0.14% | 0.047% |
| 14 | 3.902 | 3.890 | 3.915 | VV | 147 | 1541 | 0.04% | 0.013% |
| 15 | 3.918 | 3.915 | 3.951 | VV | 121 | 1813 | 0.05% | 0.016% |
| 16 | 3.958 | 3.951 | 3.984 | VV | 108 | 1557 | 0.04% | 0.013% |
| 17 | 4.000 | 3.984 | 4.052 | VV | 153 | 4114 | 0.11% | 0.036% |
| 18 | 4.112 | 4.052 | 4.126 | VV | 401 | 6792 | 0.18% | 0.059% |
| 19 | 4.145 | 4.126 | 4.168 | VV | 792 | 8689 | 0.23% | 0.075% |
| 20 | 4.181 | 4.168 | 4.191 | VV | 178 | 2224 | 0.06% | 0.019% |
| 21 | 4.218 | 4.191 | 4.239 | VV | 360 | 6218 | 0.17% | 0.054% |
| 22 | 4.316 | 4.239 | 4.380 | VV | 681 | 21822 | 0.58% | 0.189% |
| 23 | 4.392 | 4.380 | 4.418 | VV | 225 | 3736 | 0.10% | 0.032% |
| 24 | 4.517 | 4.418 | 4.541 | VV | 216 | 11514 | 0.31% | 0.100% |
| 25 | 4.569 | 4.541 | 4.621 | VV | 864 | 16065 | 0.43% | 0.139% |
| 26 | 4.635 | 4.621 | 4.668 | VV | 230 | 5102 | 0.14% | 0.044% |
| 27 | 4.695 | 4.668 | 4.728 | VV | 506 | 9196 | 0.24% | 0.080% |
| 28 | 4.759 | 4.728 | 4.796 | VV | 955 | 14970 | 0.40% | 0.130% |
| 29 | 4.820 | 4.796 | 4.837 | VV | 899 | 11119 | 0.30% | 0.096% |
| 30 | 4.854 | 4.837 | 4.944 | VV | 1363 | 25785 | 0.69% | 0.223% |
| 31 | 4.956 | 4.944 | 4.968 | VV | 282 | 3704 | 0.10% | 0.032% |
| 32 | 4.984 | 4.968 | 5.049 | VV | 455 | 13551 | 0.36% | 0.117% |
| 33 | 5.063 | 5.049 | 5.131 | VV | 264 | 7897 | 0.21% | 0.068% |
| 34 | 5.138 | 5.131 | 5.165 | VV | 124 | 1921 | 0.05% | 0.017% |
| 35 | 5.184 | 5.165 | 5.204 | VV | 301 | 4111 | 0.11% | 0.036% |
| 36 | 5.215 | 5.204 | 5.224 | VV | 193 | 1879 | 0.05% | 0.016% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 5.271 | 5.224 | 5.301 | VV | 3175 | 44597 | 1.19% | 0.386% |
| 38 | 5.332 | 5.301 | 5.370 | VV | 710 | 10783 | 0.29% | 0.093% |
| 39 | 5.388 | 5.370 | 5.417 | VV | 115 | 2442 | 0.06% | 0.021% |
| 40 | 5.480 | 5.417 | 5.499 | PV | 181 | 4401 | 0.12% | 0.038% |
| 41 | 5.516 | 5.499 | 5.557 | VV | 322 | 5015 | 0.13% | 0.043% |
| 42 | 5.574 | 5.557 | 5.601 | VV | 130 | 2019 | 0.05% | 0.017% |
| 43 | 5.611 | 5.601 | 5.635 | VV | 80 | 864 | 0.02% | 0.007% |
| 44 | 5.642 | 5.635 | 5.652 | VV | 93 | 621 | 0.02% | 0.005% |
| 45 | 5.669 | 5.652 | 5.688 | VV | 143 | 1807 | 0.05% | 0.016% |
| 46 | 5.707 | 5.688 | 5.725 | VV | 660 | 7659 | 0.20% | 0.066% |
| 47 | 5.751 | 5.725 | 5.791 | VV | 1104 | 13752 | 0.37% | 0.119% |
| 48 | 5.811 | 5.791 | 5.835 | VV | 354 | 4030 | 0.11% | 0.035% |
| 49 | 5.849 | 5.835 | 5.869 | VV | 112 | 1694 | 0.05% | 0.015% |
| 50 | 5.898 | 5.869 | 5.956 | VV | 232 | 6179 | 0.16% | 0.053% |
| 51 | 5.965 | 5.956 | 5.986 | VV | 97 | 1375 | 0.04% | 0.012% |
| 52 | 6.014 | 5.986 | 6.107 | VV | 212 | 6752 | 0.18% | 0.058% |
| 53 | 6.135 | 6.107 | 6.163 | VV | 96 | 1838 | 0.05% | 0.016% |
| 54 | 6.191 | 6.163 | 6.211 | PV | 163 | 2001 | 0.05% | 0.017% |
| 55 | 6.232 | 6.211 | 6.255 | VV | 135 | 2385 | 0.06% | 0.021% |
| 56 | 6.277 | 6.255 | 6.311 | VV | 330 | 7169 | 0.19% | 0.062% |
| 57 | 6.339 | 6.311 | 6.356 | VV | 357 | 5576 | 0.15% | 0.048% |
| 58 | 6.383 | 6.356 | 6.415 | VV | 674 | 10487 | 0.28% | 0.091% |
| 59 | 6.448 | 6.415 | 6.481 | VV | 444 | 9372 | 0.25% | 0.081% |
| 60 | 6.520 | 6.481 | 6.547 | VV | 357 | 9176 | 0.24% | 0.079% |
| 61 | 6.566 | 6.547 | 6.592 | VV | 184 | 3264 | 0.09% | 0.028% |
| 62 | 6.621 | 6.592 | 6.668 | VV | 195 | 4623 | 0.12% | 0.040% |
| 63 | 6.700 | 6.668 | 6.715 | VV | 100 | 2369 | 0.06% | 0.020% |
| 64 | 6.737 | 6.715 | 6.803 | VV | 5073 | 54481 | 1.45% | 0.471% |
| 65 | 6.825 | 6.803 | 6.848 | VV | 577 | 6826 | 0.18% | 0.059% |
| 66 | 6.860 | 6.848 | 6.873 | VV | 303 | 3023 | 0.08% | 0.026% |
| 67 | 6.892 | 6.873 | 6.912 | VV | 998 | 11087 | 0.29% | 0.096% |
| 68 | 6.927 | 6.912 | 6.947 | VV | 334 | 4030 | 0.11% | 0.035% |
| 69 | 6.966 | 6.947 | 6.989 | VV | 509 | 5425 | 0.14% | 0.047% |
| 70 | 7.001 | 6.989 | 7.011 | VV | 41 | 485 | 0.01% | 0.004% |
| 71 | 7.027 | 7.011 | 7.043 | VV | 93 | 784 | 0.02% | 0.007% |
| 72 | 7.073 | 7.043 | 7.092 | PV | 129 | 1896 | 0.05% | 0.016% |
| 73 | 7.115 | 7.092 | 7.138 | VV | 141 | 2106 | 0.06% | 0.018% |
| 74 | 7.144 | 7.138 | 7.168 | VV | 132 | 1178 | 0.03% | 0.010% |
| 75 | 7.194 | 7.168 | 7.227 | VV | 593 | 7269 | 0.19% | 0.063% |
| 76 | 7.248 | 7.227 | 7.283 | VV | 866 | 15322 | 0.41% | 0.133% |
| 77 | 7.299 | 7.283 | 7.348 | VV | 654 | 15976 | 0.42% | 0.138% |
| 78 | 7.378 | 7.348 | 7.399 | VV | 1094 | 16549 | 0.44% | 0.143% |
| 79 | 7.416 | 7.399 | 7.438 | VV | 242 | 4132 | 0.11% | 0.036% |
| 80 | 7.460 | 7.438 | 7.472 | VV | 296 | 4171 | 0.11% | 0.036% |
| 81 | 7.485 | 7.472 | 7.505 | VV | 274 | 3741 | 0.10% | 0.032% |
| 82 | 7.511 | 7.505 | 7.521 | VV | 134 | 1056 | 0.03% | 0.009% |
| 83 | 7.543 | 7.521 | 7.580 | VV | 2346 | 27828 | 0.74% | 0.241% |
| 84 | 7.604 | 7.580 | 7.614 | VV | 343 | 4669 | 0.12% | 0.040% |
| 85 | 7.624 | 7.614 | 7.638 | VV | 302 | 3445 | 0.09% | 0.030% |
| 86 | 7.653 | 7.638 | 7.665 | VV | 507 | 5814 | 0.15% | 0.050% |
| 87 | 7.685 | 7.665 | 7.708 | VV | 1216 | 15479 | 0.41% | 0.134% |
| 88 | 7.724 | 7.708 | 7.733 | VV | 259 | 3011 | 0.08% | 0.026% |
| 89 | 7.751 | 7.733 | 7.764 | VV | 387 | 5343 | 0.14% | 0.046% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.779 | 7.764 | 7.809 | VV | 558 | 6791 | 0.18% | 0.059% |
| 91 | 7.852 | 7.809 | 7.879 | VV | 169 | 4225 | 0.11% | 0.037% |
| 92 | 7.898 | 7.879 | 7.919 | VV | 119 | 1502 | 0.04% | 0.013% |
| 93 | 7.952 | 7.919 | 7.976 | PV | 1009 | 11730 | 0.31% | 0.101% |
| 94 | 8.000 | 7.976 | 8.019 | VV | 871 | 9734 | 0.26% | 0.084% |
| 95 | 8.037 | 8.019 | 8.073 | VV | 245 | 5573 | 0.15% | 0.048% |
| 96 | 8.114 | 8.073 | 8.137 | VV | 252 | 6501 | 0.17% | 0.056% |
| 97 | 8.148 | 8.137 | 8.198 | VV | 263 | 5412 | 0.14% | 0.047% |
| 98 | 8.216 | 8.198 | 8.238 | VV | 227 | 3097 | 0.08% | 0.027% |
| 99 | 8.261 | 8.238 | 8.288 | VV | 816 | 9956 | 0.26% | 0.086% |
| 100 | 8.317 | 8.288 | 8.338 | VV | 1015 | 11931 | 0.32% | 0.103% |
| 101 | 8.355 | 8.338 | 8.375 | VV | 197 | 3043 | 0.08% | 0.026% |
| 102 | 8.387 | 8.375 | 8.454 | VV | 256 | 5523 | 0.15% | 0.048% |
| 103 | 8.474 | 8.454 | 8.504 | VV | 410 | 5739 | 0.15% | 0.050% |
| 104 | 8.512 | 8.504 | 8.538 | VV | 132 | 1826 | 0.05% | 0.016% |
| 105 | 8.569 | 8.538 | 8.644 | VV | 3155 | 41165 | 1.09% | 0.356% |
| 106 | 8.683 | 8.644 | 8.708 | VV | 491 | 12868 | 0.34% | 0.111% |
| 107 | 8.720 | 8.708 | 8.744 | VV | 520 | 6903 | 0.18% | 0.060% |
| 108 | 8.764 | 8.744 | 8.786 | VV | 420 | 5720 | 0.15% | 0.049% |
| 109 | 8.806 | 8.786 | 8.839 | VV | 520 | 6380 | 0.17% | 0.055% |
| 110 | 8.872 | 8.839 | 8.910 | VV | 34694 | 361170 | 9.60% | 3.125% |
| 111 | 8.920 | 8.910 | 8.961 | VV | 544 | 10088 | 0.27% | 0.087% |
| 112 | 8.988 | 8.961 | 9.005 | VV | 341 | 7350 | 0.20% | 0.064% |
| 113 | 9.033 | 9.005 | 9.049 | VV | 549 | 11046 | 0.29% | 0.096% |
| 114 | 9.063 | 9.049 | 9.077 | VV | 503 | 6932 | 0.18% | 0.060% |
| 115 | 9.112 | 9.077 | 9.158 | VV | 960 | 25115 | 0.67% | 0.217% |
| 116 | 9.176 | 9.158 | 9.204 | VV | 446 | 5488 | 0.15% | 0.047% |
| 117 | 9.230 | 9.204 | 9.254 | VV | 377 | 5655 | 0.15% | 0.049% |
| 118 | 9.295 | 9.254 | 9.315 | VV | 1167 | 17778 | 0.47% | 0.154% |
| 119 | 9.335 | 9.315 | 9.369 | VV | 964 | 20367 | 0.54% | 0.176% |
| 120 | 9.416 | 9.369 | 9.465 | VV | 2077 | 45771 | 1.22% | 0.396% |
| 121 | 9.486 | 9.465 | 9.513 | VV | 637 | 8520 | 0.23% | 0.074% |
| 122 | 9.535 | 9.513 | 9.568 | VV | 458 | 6252 | 0.17% | 0.054% |
| 123 | 9.617 | 9.568 | 9.661 | VV | 326 | 10115 | 0.27% | 0.088% |
| 124 | 9.702 | 9.661 | 9.741 | VV | 557 | 13750 | 0.37% | 0.119% |
| 125 | 9.766 | 9.741 | 9.803 | VV | 1143 | 18248 | 0.49% | 0.158% |
| 126 | 9.822 | 9.803 | 9.831 | VV | 251 | 2756 | 0.07% | 0.024% |
| 127 | 9.839 | 9.831 | 9.884 | VV | 238 | 5420 | 0.14% | 0.047% |
| 128 | 9.906 | 9.884 | 9.941 | VV | 518 | 8495 | 0.23% | 0.074% |
| 129 | 9.959 | 9.941 | 10.000 | VV | 563 | 8400 | 0.22% | 0.073% |
| 130 | 10.015 | 10.000 | 10.034 | VV | 259 | 2747 | 0.07% | 0.024% |
| 131 | 10.047 | 10.034 | 10.071 | VV | 165 | 2067 | 0.05% | 0.018% |
| 132 | 10.099 | 10.071 | 10.157 | VV | 505 | 8663 | 0.23% | 0.075% |
| 133 | 10.180 | 10.157 | 10.218 | VV | 1672 | 20542 | 0.55% | 0.178% |
| 134 | 10.252 | 10.218 | 10.300 | VV | 373 | 11563 | 0.31% | 0.100% |
| 135 | 10.327 | 10.300 | 10.410 | VV | 232 | 8217 | 0.22% | 0.071% |
| 136 | 10.429 | 10.410 | 10.438 | PV | 123 | 1584 | 0.04% | 0.014% |
| 137 | 10.459 | 10.438 | 10.473 | VV | 266 | 3628 | 0.10% | 0.031% |
| 138 | 10.504 | 10.473 | 10.521 | VV | 388 | 7712 | 0.20% | 0.067% |
| 139 | 10.527 | 10.521 | 10.540 | VV | 279 | 2730 | 0.07% | 0.024% |
| 140 | 10.573 | 10.540 | 10.595 | VV | 819 | 15008 | 0.40% | 0.130% |
| 141 | 10.612 | 10.595 | 10.632 | VV | 577 | 9066 | 0.24% | 0.078% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.657 | 10.632 | 10.685 | VV | 369 | 8526 | 0.23% | 0.074% |
| 143 | 10.698 | 10.685 | 10.708 | VV | 221 | 2621 | 0.07% | 0.023% |
| 144 | 10.715 | 10.708 | 10.730 | VV | 219 | 2311 | 0.06% | 0.020% |
| 145 | 10.741 | 10.730 | 10.758 | VV | 197 | 2569 | 0.07% | 0.022% |
| 146 | 10.784 | 10.758 | 10.798 | VV | 463 | 7473 | 0.20% | 0.065% |
| 147 | 10.819 | 10.798 | 10.834 | VV | 435 | 8247 | 0.22% | 0.071% |
| 148 | 10.855 | 10.834 | 10.885 | VV | 596 | 14232 | 0.38% | 0.123% |
| 149 | 10.920 | 10.885 | 10.960 | VV | 1038 | 26622 | 0.71% | 0.230% |
| 150 | 10.995 | 10.960 | 11.024 | VV | 757 | 21278 | 0.57% | 0.184% |
| 151 | 11.051 | 11.024 | 11.089 | VV | 1187 | 26451 | 0.70% | 0.229% |
| 152 | 11.097 | 11.089 | 11.120 | VV | 289 | 4867 | 0.13% | 0.042% |
| 153 | 11.144 | 11.120 | 11.188 | VV | 361 | 10728 | 0.29% | 0.093% |
| 154 | 11.207 | 11.188 | 11.228 | VV | 284 | 5511 | 0.15% | 0.048% |
| 155 | 11.245 | 11.228 | 11.277 | VV | 429 | 8638 | 0.23% | 0.075% |
| 156 | 11.313 | 11.277 | 11.326 | VV | 433 | 10620 | 0.28% | 0.092% |
| 157 | 11.348 | 11.326 | 11.397 | VV | 693 | 16471 | 0.44% | 0.143% |
| 158 | 11.423 | 11.397 | 11.502 | VV | 265 | 10393 | 0.28% | 0.090% |
| 159 | 11.512 | 11.502 | 11.528 | VV | 150 | 1771 | 0.05% | 0.015% |
| 160 | 11.556 | 11.528 | 11.586 | VV | 3496 | 46783 | 1.24% | 0.405% |
| 161 | 11.628 | 11.586 | 11.656 | VV | 2872 | 41052 | 1.09% | 0.355% |
| 162 | 11.676 | 11.656 | 11.684 | VV | 244 | 3484 | 0.09% | 0.030% |
| 163 | 11.721 | 11.684 | 11.758 | VV | 1521 | 24592 | 0.65% | 0.213% |
| 164 | 11.781 | 11.758 | 11.797 | VV | 177 | 2495 | 0.07% | 0.022% |
| 165 | 11.815 | 11.797 | 11.823 | PV | 99 | 887 | 0.02% | 0.008% |
| 166 | 11.859 | 11.823 | 11.886 | VV | 202 | 4345 | 0.12% | 0.038% |
| 167 | 11.944 | 11.886 | 11.965 | VV | 369 | 11170 | 0.30% | 0.097% |
| 168 | 11.983 | 11.965 | 11.998 | VV | 414 | 6204 | 0.16% | 0.054% |
| 169 | 12.020 | 11.998 | 12.041 | VV | 612 | 10749 | 0.29% | 0.093% |
| 170 | 12.083 | 12.041 | 12.131 | VV | 518 | 16852 | 0.45% | 0.146% |
| 171 | 12.147 | 12.131 | 12.162 | VV | 219 | 2775 | 0.07% | 0.024% |
| 172 | 12.292 | 12.162 | 12.325 | VV | 1080 | 39231 | 1.04% | 0.339% |
| 173 | 12.341 | 12.325 | 12.364 | VV | 444 | 7253 | 0.19% | 0.063% |
| 174 | 12.392 | 12.364 | 12.409 | VV | 291 | 6753 | 0.18% | 0.058% |
| 175 | 12.431 | 12.409 | 12.481 | VV | 498 | 14287 | 0.38% | 0.124% |
| 176 | 12.519 | 12.481 | 12.558 | VV | 977 | 25179 | 0.67% | 0.218% |
| 177 | 12.582 | 12.558 | 12.618 | VV | 478 | 12424 | 0.33% | 0.107% |
| 178 | 12.627 | 12.618 | 12.650 | VV | 334 | 5047 | 0.13% | 0.044% |
| 179 | 12.670 | 12.650 | 12.682 | VV | 228 | 4145 | 0.11% | 0.036% |
| 180 | 12.708 | 12.682 | 12.725 | VV | 398 | 8144 | 0.22% | 0.070% |
| 181 | 12.749 | 12.725 | 12.764 | VV | 671 | 10471 | 0.28% | 0.091% |
| 182 | 12.801 | 12.764 | 12.838 | VV | 1933 | 34358 | 0.91% | 0.297% |
| 183 | 12.874 | 12.838 | 12.910 | VV | 1443 | 23140 | 0.62% | 0.200% |
| 184 | 12.938 | 12.910 | 12.966 | VV | 2587 | 33019 | 0.88% | 0.286% |
| 185 | 12.976 | 12.966 | 12.988 | VV | 225 | 2557 | 0.07% | 0.022% |
| 186 | 12.999 | 12.988 | 13.034 | VV | 247 | 4942 | 0.13% | 0.043% |
| 187 | 13.055 | 13.034 | 13.132 | VV | 308 | 8258 | 0.22% | 0.071% |
| 188 | 13.141 | 13.132 | 13.172 | PV | 53 | 720 | 0.02% | 0.006% |
| 189 | 13.224 | 13.172 | 13.248 | VV | 306 | 8305 | 0.22% | 0.072% |
| 190 | 13.331 | 13.248 | 13.347 | VV | 536 | 13957 | 0.37% | 0.121% |
| 191 | 13.386 | 13.347 | 13.422 | VV | 308253 | 3762168 | 100.00% | 32.552% |
| 192 | 13.442 | 13.422 | 13.480 | VV | 512 | 11560 | 0.31% | 0.100% |
| 193 | 13.490 | 13.480 | 13.501 | VV | 250 | 2663 | 0.07% | 0.023% |
| 194 | 13.551 | 13.501 | 13.586 | VV | 3482 | 51918 | 1.38% | 0.449% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.605 | 13.586 | 13.644 | VV | 421 | 11442 | 0.30% | 0.099% |
| 196 | 13.674 | 13.644 | 13.705 | VV | 299 | 7659 | 0.20% | 0.066% |
| 197 | 13.773 | 13.705 | 13.797 | VV | 531 | 16109 | 0.43% | 0.139% |
| 198 | 13.826 | 13.797 | 13.869 | VV | 561 | 17682 | 0.47% | 0.153% |
| 199 | 13.895 | 13.869 | 13.914 | VV | 276 | 5866 | 0.16% | 0.051% |
| 200 | 13.990 | 13.914 | 14.033 | VV | 426 | 20305 | 0.54% | 0.176% |
| 201 | 14.052 | 14.033 | 14.065 | VV | 354 | 5043 | 0.13% | 0.044% |
| 202 | 14.084 | 14.065 | 14.107 | VV | 1021 | 14525 | 0.39% | 0.126% |
| 203 | 14.138 | 14.107 | 14.181 | VV | 9416 | 119042 | 3.16% | 1.030% |
| 204 | 14.196 | 14.181 | 14.265 | VV | 205 | 6206 | 0.16% | 0.054% |
| 205 | 14.270 | 14.265 | 14.302 | VV | 105 | 1639 | 0.04% | 0.014% |
| 206 | 14.374 | 14.302 | 14.397 | PV | 461 | 11719 | 0.31% | 0.101% |
| 207 | 14.410 | 14.397 | 14.449 | VV | 211 | 5495 | 0.15% | 0.048% |
| 208 | 14.471 | 14.449 | 14.487 | VV | 209 | 3728 | 0.10% | 0.032% |
| 209 | 14.502 | 14.487 | 14.520 | VV | 268 | 3867 | 0.10% | 0.033% |
| 210 | 14.575 | 14.520 | 14.615 | VV | 993 | 23261 | 0.62% | 0.201% |
| 211 | 14.635 | 14.615 | 14.652 | VV | 244 | 4783 | 0.13% | 0.041% |
| 212 | 14.702 | 14.652 | 14.747 | VV | 12909 | 165586 | 4.40% | 1.433% |
| 213 | 14.839 | 14.747 | 14.888 | VV | 458 | 24707 | 0.66% | 0.214% |
| 214 | 14.905 | 14.888 | 14.931 | VV | 319 | 6436 | 0.17% | 0.056% |
| 215 | 14.958 | 14.931 | 14.993 | VV | 300 | 9168 | 0.24% | 0.079% |
| 216 | 15.017 | 14.993 | 15.034 | VV | 404 | 7629 | 0.20% | 0.066% |
| 217 | 15.050 | 15.034 | 15.075 | VV | 599 | 10332 | 0.27% | 0.089% |
| 218 | 15.098 | 15.075 | 15.115 | VV | 291 | 5720 | 0.15% | 0.049% |
| 219 | 15.130 | 15.115 | 15.155 | VV | 162 | 2753 | 0.07% | 0.024% |
| 220 | 15.198 | 15.155 | 15.213 | VV | 743 | 11533 | 0.31% | 0.100% |
| 221 | 15.243 | 15.213 | 15.358 | VV | 18020 | 238625 | 6.34% | 2.065% |
| 222 | 15.365 | 15.358 | 15.372 | VV | 66 | 296 | 0.01% | 0.003% |
| 223 | 15.387 | 15.372 | 15.398 | VV | 85 | 727 | 0.02% | 0.006% |
| 224 | 15.420 | 15.398 | 15.430 | VV | 135 | 1906 | 0.05% | 0.016% |
| 225 | 15.445 | 15.430 | 15.459 | VV | 159 | 2269 | 0.06% | 0.020% |
| 226 | 15.468 | 15.459 | 15.528 | VV | 92 | 2926 | 0.08% | 0.025% |
| 227 | 15.579 | 15.528 | 15.601 | VV | 579 | 8863 | 0.24% | 0.077% |
| 228 | 15.628 | 15.601 | 15.645 | VV | 305 | 4602 | 0.12% | 0.040% |
| 229 | 15.675 | 15.645 | 15.704 | VV | 288 | 5859 | 0.16% | 0.051% |
| 230 | 15.764 | 15.704 | 15.875 | VV | 17842 | 248516 | 6.61% | 2.150% |
| 231 | 15.943 | 15.875 | 15.973 | VV | 283 | 9685 | 0.26% | 0.084% |
| 232 | 15.985 | 15.973 | 16.015 | VV | 172 | 3468 | 0.09% | 0.030% |
| 233 | 16.087 | 16.015 | 16.111 | VV | 1241 | 28424 | 0.76% | 0.246% |
| 234 | 16.134 | 16.111 | 16.178 | VV | 822 | 16893 | 0.45% | 0.146% |
| 235 | 16.189 | 16.178 | 16.197 | VV | 151 | 1318 | 0.04% | 0.011% |
| 236 | 16.225 | 16.197 | 16.235 | VV | 611 | 8114 | 0.22% | 0.070% |
| 237 | 16.265 | 16.235 | 16.305 | VV | 19650 | 270703 | 7.20% | 2.342% |
| 238 | 16.311 | 16.305 | 16.343 | VV | 314 | 4540 | 0.12% | 0.039% |
| 239 | 16.361 | 16.343 | 16.371 | PV | 129 | 1398 | 0.04% | 0.012% |
| 240 | 16.458 | 16.371 | 16.476 | VV | 209 | 7863 | 0.21% | 0.068% |
| 241 | 16.492 | 16.476 | 16.531 | VV | 174 | 3675 | 0.10% | 0.032% |
| 242 | 16.575 | 16.531 | 16.600 | VV | 1159 | 21388 | 0.57% | 0.185% |
| 243 | 16.624 | 16.600 | 16.685 | VV | 882 | 17156 | 0.46% | 0.148% |
| 244 | 16.748 | 16.685 | 16.782 | PV | 18280 | 253802 | 6.75% | 2.196% |
| 245 | 16.793 | 16.782 | 16.821 | VV | 298 | 4886 | 0.13% | 0.042% |
| 246 | 16.828 | 16.821 | 16.845 | VV | 180 | 1991 | 0.05% | 0.017% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 16.875 | 16.845 | 16.887 | VV | 245 | 4074 | 0.11% | 0.035% |
| 248 | 16.916 | 16.887 | 16.937 | VV | 257 | 6588 | 0.18% | 0.057% |
| 249 | 16.974 | 16.937 | 16.985 | VV | 386 | 8259 | 0.22% | 0.071% |
| 250 | 16.992 | 16.985 | 17.001 | VV | 307 | 2621 | 0.07% | 0.023% |
| 251 | 17.049 | 17.001 | 17.071 | VV | 1293 | 26897 | 0.71% | 0.233% |
| 252 | 17.098 | 17.071 | 17.125 | VV | 992 | 18840 | 0.50% | 0.163% |
| 253 | 17.138 | 17.125 | 17.153 | VV | 374 | 4860 | 0.13% | 0.042% |
| 254 | 17.215 | 17.153 | 17.290 | VV | 17235 | 251768 | 6.69% | 2.178% |
| 255 | 17.343 | 17.290 | 17.361 | VV | 470 | 8816 | 0.23% | 0.076% |
| 256 | 17.375 | 17.361 | 17.397 | VV | 235 | 3335 | 0.09% | 0.029% |
| 257 | 17.453 | 17.397 | 17.468 | VV | 325 | 7932 | 0.21% | 0.069% |
| 258 | 17.505 | 17.468 | 17.528 | VV | 971 | 19110 | 0.51% | 0.165% |
| 259 | 17.552 | 17.528 | 17.580 | VV | 1435 | 20867 | 0.55% | 0.181% |
| 260 | 17.601 | 17.580 | 17.625 | VV | 333 | 4375 | 0.12% | 0.038% |
| 261 | 17.667 | 17.625 | 17.728 | VV | 18070 | 248419 | 6.60% | 2.149% |
| 262 | 17.782 | 17.728 | 17.835 | PV | 385 | 12043 | 0.32% | 0.104% |
| 263 | 17.842 | 17.835 | 17.848 | VV | 186 | 1225 | 0.03% | 0.011% |
| 264 | 17.881 | 17.848 | 17.908 | VV | 298 | 7366 | 0.20% | 0.064% |
| 265 | 17.948 | 17.908 | 17.971 | VV | 1097 | 20020 | 0.53% | 0.173% |
| 266 | 17.994 | 17.971 | 18.017 | VV | 856 | 12565 | 0.33% | 0.109% |
| 267 | 18.053 | 18.017 | 18.061 | VV | 366 | 6694 | 0.18% | 0.058% |
| 268 | 18.103 | 18.061 | 18.135 | VV | 14723 | 201673 | 5.36% | 1.745% |
| 269 | 18.155 | 18.135 | 18.170 | VV | 170 | 2694 | 0.07% | 0.023% |
| 270 | 18.180 | 18.170 | 18.188 | VV | 170 | 1291 | 0.03% | 0.011% |
| 271 | 18.252 | 18.188 | 18.267 | VV | 464 | 14232 | 0.38% | 0.123% |
| 272 | 18.276 | 18.267 | 18.313 | VV | 468 | 8336 | 0.22% | 0.072% |
| 273 | 18.323 | 18.313 | 18.338 | VV | 252 | 2298 | 0.06% | 0.020% |
| 274 | 18.376 | 18.338 | 18.399 | VV | 885 | 16036 | 0.43% | 0.139% |
| 275 | 18.422 | 18.399 | 18.463 | VV | 799 | 13031 | 0.35% | 0.113% |
| 276 | 18.526 | 18.463 | 18.564 | VV | 12985 | 184909 | 4.91% | 1.600% |
| 277 | 18.586 | 18.564 | 18.593 | PV | 73 | 650 | 0.02% | 0.006% |
| 278 | 18.618 | 18.593 | 18.635 | VV | 271 | 3758 | 0.10% | 0.033% |
| 279 | 18.658 | 18.635 | 18.686 | VV | 293 | 6076 | 0.16% | 0.053% |
| 280 | 18.695 | 18.686 | 18.715 | VV | 137 | 2059 | 0.05% | 0.018% |
| 281 | 18.788 | 18.715 | 18.812 | VV | 1111 | 26138 | 0.69% | 0.226% |
| 282 | 18.836 | 18.812 | 18.878 | VV | 707 | 12273 | 0.33% | 0.106% |
| 283 | 18.936 | 18.878 | 18.988 | PV | 9872 | 158206 | 4.21% | 1.369% |
| 284 | 19.017 | 18.988 | 19.054 | VV | 579 | 10696 | 0.28% | 0.093% |
| 285 | 19.087 | 19.054 | 19.115 | VV | 475 | 10915 | 0.29% | 0.094% |
| 286 | 19.135 | 19.115 | 19.155 | VV | 268 | 4794 | 0.13% | 0.041% |
| 287 | 19.191 | 19.155 | 19.215 | VV | 615 | 12031 | 0.32% | 0.104% |
| 288 | 19.241 | 19.215 | 19.275 | VV | 571 | 10257 | 0.27% | 0.089% |
| 289 | 19.334 | 19.275 | 19.400 | PV | 7248 | 116969 | 3.11% | 1.012% |
| 290 | 19.507 | 19.400 | 19.547 | VV | 531 | 22168 | 0.59% | 0.192% |
| 291 | 19.583 | 19.547 | 19.603 | VV | 758 | 16363 | 0.43% | 0.142% |
| 292 | 19.628 | 19.603 | 19.664 | VV | 640 | 14846 | 0.39% | 0.128% |
| 293 | 19.720 | 19.664 | 19.751 | VV | 6067 | 100637 | 2.67% | 0.871% |
| 294 | 19.764 | 19.751 | 19.801 | VV | 506 | 10719 | 0.28% | 0.093% |
| 295 | 19.896 | 19.801 | 19.925 | VV | 625 | 33957 | 0.90% | 0.294% |
| 296 | 19.962 | 19.925 | 19.983 | VV | 741 | 21258 | 0.57% | 0.184% |
| 297 | 20.008 | 19.983 | 20.054 | VV | 803 | 25828 | 0.69% | 0.223% |
| 298 | 20.096 | 20.054 | 20.128 | VV | 4520 | 82575 | 2.19% | 0.714% |
| 299 | 20.153 | 20.128 | 20.171 | VV | 832 | 19384 | 0.52% | 0.168% |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | rteres | | | |
| 300 | 20.279 | 20.171 | 20.298 | VV | 1171 | 73598 | 1.96% | 0.637% |
| 301 | 20.326 | 20.298 | 20.348 | VV | 1398 | 37612 | 1.00% | 0.325% |
| 302 | 20.370 | 20.348 | 20.401 | VV | 1584 | 45474 | 1.21% | 0.393% |
| 303 | 20.460 | 20.401 | 20.491 | VV | 4654 | 126454 | 3.36% | 1.094% |
| 304 | 20.522 | 20.491 | 20.542 | VV | 1943 | 55152 | 1.47% | 0.477% |
| 305 | 20.643 | 20.542 | 20.655 | VV | 2198 | 133926 | 3.56% | 1.159% |
| 306 | 20.733 | 20.655 | 20.758 | VV | 2560 | 143371 | 3.81% | 1.241% |
| 307 | 20.819 | 20.758 | 20.864 | VV | 4242 | 180224 | 4.79% | 1.559% |
| 308 | 20.874 | 20.864 | 20.883 | VV | 2320 | 25663 | 0.68% | 0.222% |
| 309 | 20.891 | 20.883 | 20.915 | VV | 2258 | 43315 | 1.15% | 0.375% |
| 310 | 21.007 | 20.915 | 21.045 | VV | 2524 | 183864 | 4.89% | 1.591% |
| 311 | 21.061 | 21.045 | 21.090 | VV | 2280 | 60581 | 1.61% | 0.524% |
| 312 | 21.124 | 21.090 | 21.144 | VV | 2304 | 72304 | 1.92% | 0.626% |
| 313 | 21.209 | 21.144 | 21.261 | VV | 3592 | 176545 | 4.69% | 1.528% |
| 314 | 21.291 | 21.261 | 21.308 | VV | 2099 | 57724 | 1.53% | 0.499% |
| 315 | 21.328 | 21.308 | 21.354 | VV | 2037 | 55809 | 1.48% | 0.483% |
| 316 | 21.376 | 21.354 | 21.384 | VV | 1972 | 34268 | 0.91% | 0.297% |
| 317 | 21.401 | 21.384 | 21.413 | VV | 1970 | 34066 | 0.91% | 0.295% |
| 318 | 21.434 | 21.413 | 21.471 | VV | 1939 | 65650 | 1.75% | 0.568% |
| 319 | 21.483 | 21.471 | 21.521 | VV | 1846 | 52848 | 1.40% | 0.457% |
| 320 | 21.544 | 21.521 | 21.595 | VV | 1846 | 74835 | 1.99% | 0.648% |
| 321 | 21.647 | 21.595 | 21.766 | VV | 2205 | 148379 | 3.94% | 1.284% |
| 322 | 21.771 | 21.766 | 21.807 | VV | 981 | 22077 | 0.59% | 0.191% |
| 323 | 21.825 | 21.807 | 21.868 | VV | 840 | 26940 | 0.72% | 0.233% |
| 324 | 21.877 | 21.868 | 21.901 | VV | 658 | 12929 | 0.34% | 0.112% |
| 325 | 21.960 | 21.901 | 21.975 | VV | 744 | 28578 | 0.76% | 0.247% |
| 326 | 22.050 | 21.975 | 22.064 | VV | 476 | 26232 | 0.70% | 0.227% |
| 327 | 22.082 | 22.064 | 22.091 | VV | 375 | 5828 | 0.15% | 0.050% |
| 328 | 22.144 | 22.091 | 22.251 | VBA | 1003 | 50579 | 1.34% | 0.438% |
| | | | | | Sum of corrected areas: | 11557322 | | |

Aliphatic EPH 111424.M Wed Nov 20 01:28:08 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015098.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 12:44
Operator : YP\AJ
Sample : P4860-10
Misc :
ALS Vial : 75 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-005

Integration File: autoint1.e
Quant Time: Nov 20 01:47:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 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... | 7.988 | 6398539 | 52.397 ug/ml |
| Spiked Amount 50.000 | | Recovery = 104.79% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.861 | 3905320 | 47.835 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 95.67% | |
| 11) S ortho-Terphenyl (SURR) | 11.922 | 3854256 | 28.732 ug/ml |
| Spiked Amount 50.000 | | Recovery = 57.46% | |
| Target Compounds | | | |

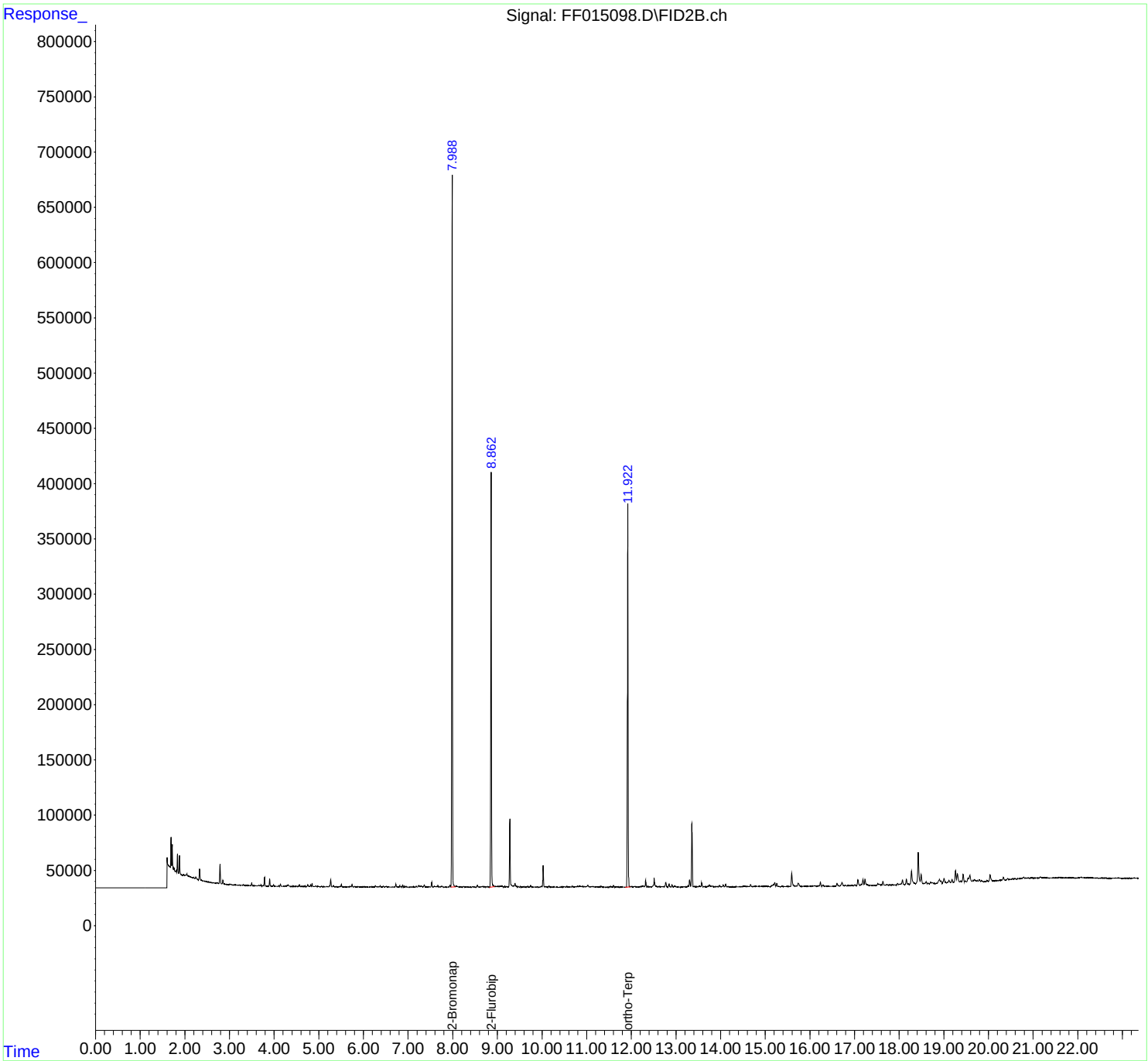
(f)=RT Delta > 1/2 Window (m)=manual int.

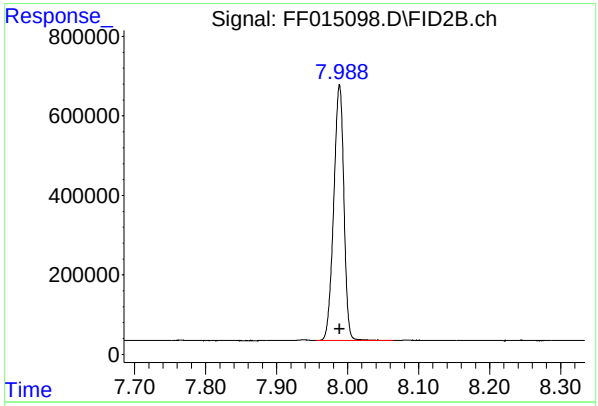
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015098.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 12:44
Operator : YP\AJ
Sample : P4860-10
Misc :
ALS Vial : 75 Sample Multiplier: 1

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-005

Integration File: autoint1.e
Quant Time: Nov 20 01:47:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

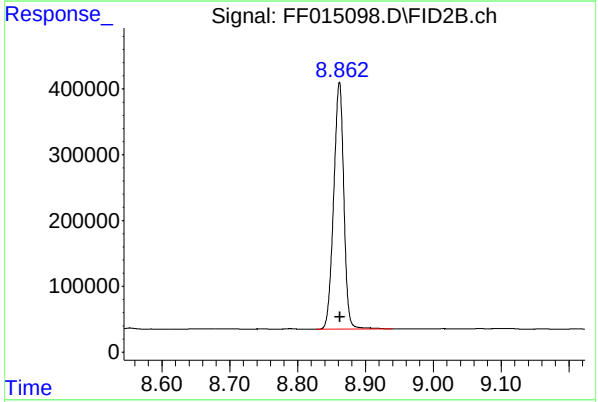





#4 2-Bromonaphthalene (SURR)

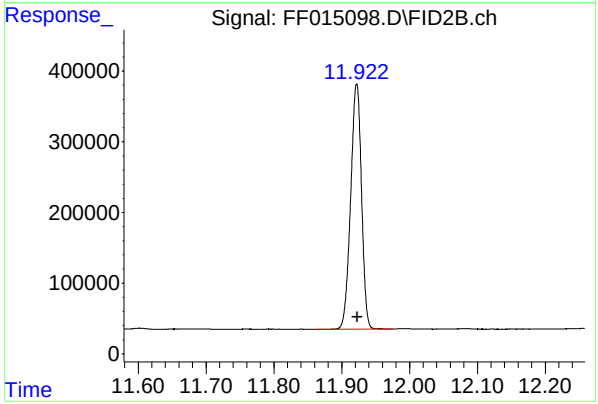
R.T.: 7.988 min
Delta R.T.: 0.000 min
Response: 6398539
Conc: 52.40 ug/ml

**Instrument :**
FID_F
**ClientSampleId :**
PH2-BOT-005




#6 2-Flurobiphenyl (SURR)

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 3905320
Conc: 47.84 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.922 min
Delta R.T.: -0.001 min
Response: 3854256
Conc: 28.73 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111924AR\
Data File : FF015098.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 12:44
Sample : P4860-10
Misc :
ALS Vial : 75 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.567 | 4.535 | 4.622 | BB | 1724 | 21143 | 0.33% | 0.117% |
| 2 | 4.756 | 4.720 | 4.779 | BV | 1956 | 24467 | 0.38% | 0.136% |
| 3 | 4.818 | 4.779 | 4.834 | VV | 1806 | 20042 | 0.31% | 0.111% |
| 4 | 4.851 | 4.834 | 4.872 | VB | 2812 | 28047 | 0.44% | 0.156% |
| 5 | 5.268 | 5.210 | 5.294 | BV | 6601 | 90301 | 1.41% | 0.501% |
| 6 | 5.506 | 5.489 | 5.550 | VB | 2312 | 24087 | 0.38% | 0.134% |
| 7 | 5.746 | 5.720 | 5.770 | VV | 2378 | 24597 | 0.38% | 0.136% |
| 8 | 6.728 | 6.654 | 6.754 | BV | 2566 | 27686 | 0.43% | 0.154% |
| 9 | 6.882 | 6.864 | 6.902 | VV | 1793 | 17508 | 0.27% | 0.097% |
| 10 | 7.365 | 7.334 | 7.415 | PB | 2067 | 28301 | 0.44% | 0.157% |
| 11 | 7.530 | 7.499 | 7.560 | BV | 4400 | 49773 | 0.78% | 0.276% |
| 12 | 7.938 | 7.900 | 7.955 | BV | 1729 | 16702 | 0.26% | 0.093% |
| 13 | 7.988 | 7.955 | 8.064 | PV | 645425 | 6398539 | 100.00% | 35.480% |
| 14 | 8.553 | 8.497 | 8.600 | BB | 1695 | 19064 | 0.30% | 0.106% |
| 15 | 8.861 | 8.827 | 8.940 | BB | 377660 | 3905320 | 61.03% | 21.655% |
| 16 | 9.281 | 9.239 | 9.345 | BV | 61426 | 661738 | 10.34% | 3.669% |
| 17 | 9.397 | 9.374 | 9.419 | VV | 2859 | 35497 | 0.55% | 0.197% |
| 18 | 10.026 | 10.005 | 10.064 | VV | 19624 | 207117 | 3.24% | 1.148% |
| 19 | 11.922 | 11.862 | 11.975 | BV | 347582 | 3854256 | 60.24% | 21.372% |
| 20 | 12.322 | 12.292 | 12.345 | VV | 6053 | 70647 | 1.10% | 0.392% |
| 21 | 12.513 | 12.452 | 12.614 | BB | 8351 | 134001 | 2.09% | 0.743% |
| 22 | 12.771 | 12.640 | 12.810 | BV | 4140 | 68558 | 1.07% | 0.380% |
| 23 | 12.845 | 12.810 | 12.875 | PV | 3094 | 39286 | 0.61% | 0.218% |
| 24 | 12.911 | 12.875 | 12.935 | PV | 1981 | 23519 | 0.37% | 0.130% |
| 25 | 13.304 | 13.280 | 13.327 | VV | 6249 | 76457 | 1.19% | 0.424% |
| 26 | 13.356 | 13.327 | 13.388 | VV | 57427 | 691618 | 10.81% | 3.835% |
| 27 | 13.576 | 13.551 | 13.617 | VV | 3734 | 50449 | 0.79% | 0.280% |
| 28 | 13.749 | 13.617 | 13.772 | PB | 1280 | 17631 | 0.28% | 0.098% |
| 29 | 14.057 | 14.000 | 14.080 | PV | 1712 | 26186 | 0.41% | 0.145% |
| 30 | 14.110 | 14.080 | 14.154 | PB | 2391 | 32833 | 0.51% | 0.182% |
| 31 | 14.671 | 14.617 | 14.714 | BB | 1843 | 22794 | 0.36% | 0.126% |
| 32 | 15.211 | 15.090 | 15.235 | BV | 3682 | 97852 | 1.53% | 0.543% |
| 33 | 15.257 | 15.235 | 15.290 | VB | 2904 | 38566 | 0.60% | 0.214% |
| 34 | 15.590 | 15.530 | 15.670 | BB | 11910 | 189704 | 2.96% | 1.052% |
| 35 | 15.735 | 15.692 | 15.810 | BB | 2728 | 63458 | 0.99% | 0.352% |
| 36 | 16.233 | 16.209 | 16.265 | VV | 3468 | 46551 | 0.73% | 0.258% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 16.605 | 16.542 | 16.662 | BB | 2429 | 39535 | 0.62% | 0.219% |
| 38 | 16.718 | 16.669 | 16.772 | BV | 3160 | 62012 | 0.97% | 0.344% |
| 39 | 17.074 | 17.037 | 17.125 | PV | 5399 | 90785 | 1.42% | 0.503% |
| 40 | 17.186 | 17.160 | 17.210 | VV | 5262 | 82943 | 1.30% | 0.460% |
| 41 | 17.233 | 17.210 | 17.297 | VB | 5540 | 89003 | 1.39% | 0.494% |
| 42 | 17.520 | 17.395 | 17.538 | BV | 1073 | -3251 | -0.05% | -0.018% |
| 43 | 17.634 | 17.592 | 17.689 | BB | 3376 | 46462 | 0.73% | 0.258% |
| 44 | 18.072 | 17.986 | 18.107 | VV | 4312 | 84476 | 1.32% | 0.468% |
| 45 | 18.160 | 18.107 | 18.220 | PB | 4863 | 73162 | 1.14% | 0.406% |
| 46 | 18.274 | 18.220 | 18.280 | BBA | 3320 | -28489 | -0.45% | -0.158% |
| 47 | 18.425 | 18.410 | 18.467 | BV | 21004 | 250491 | 3.91% | 1.389% |
| 48 | 18.490 | 18.467 | 18.537 | PV | 6934 | 91994 | 1.44% | 0.510% |
| 49 | 18.702 | 18.660 | 18.722 | BV | 1318 | 10712 | 0.17% | 0.059% |

Sum of corrected areas: 18034130

Aromatic EPH 111524.M Wed Nov 20 02:27:42 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067807.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 15:27
Operator : YP/AJ
Sample : PB165032BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB165032BL

Integration File: sample.E
Quant Time: Nov 19 04:55:04 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... | 12.930 | 5471332 | 37.691 ug/ml |
| Spiked Amount 50.000 | | Recovery = 75.38% | |
| Target Compounds | | | |

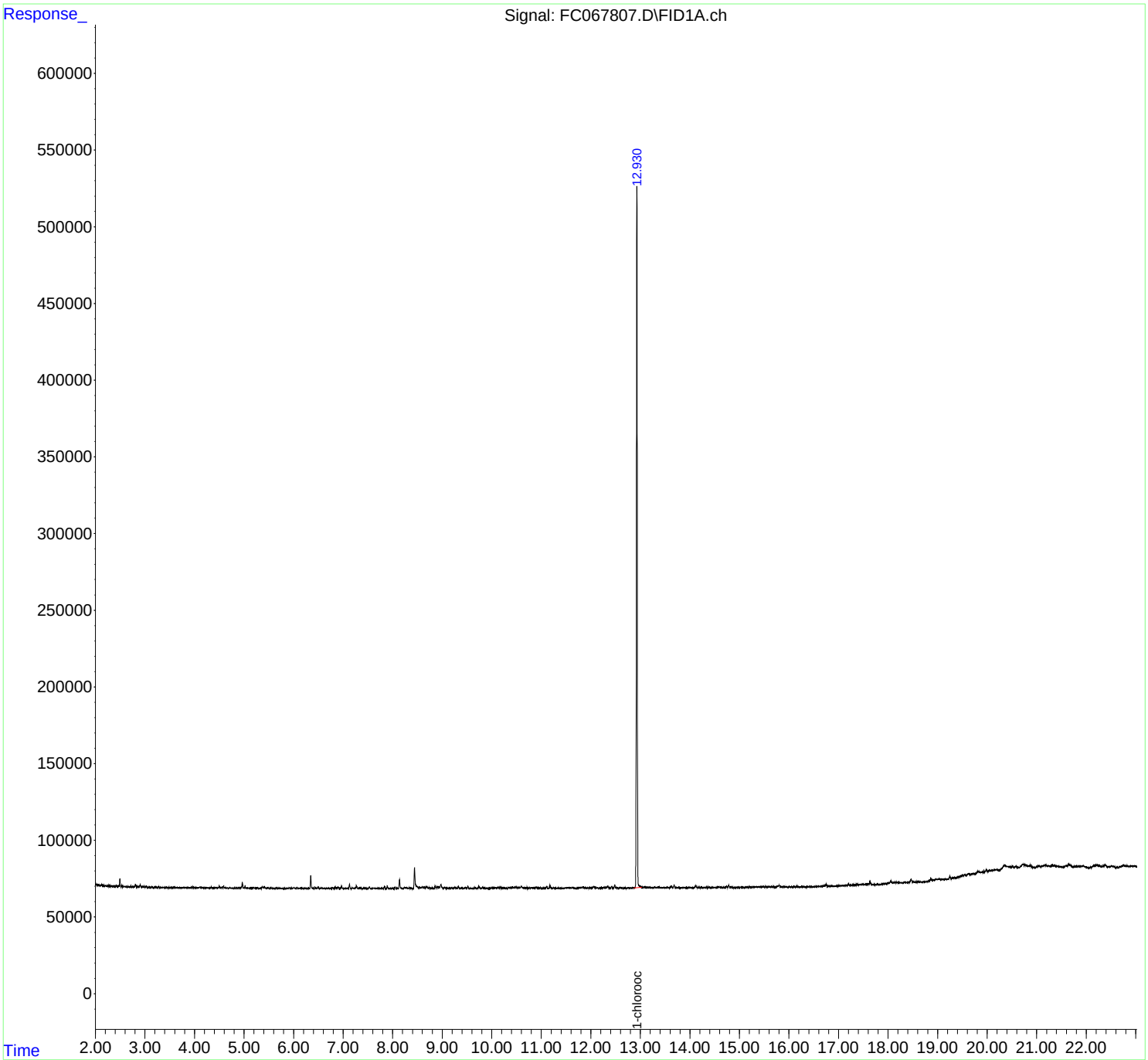
(f)=RT Delta > 1/2 Window (m)=manual int.

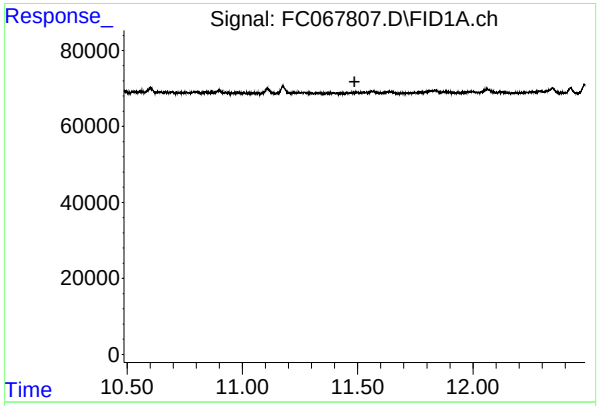
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067807.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 15:27
Operator : YP/AJ
Sample : PB165032BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB165032BL

Integration File: sample.E
Quant Time: Nov 19 04:55:04 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

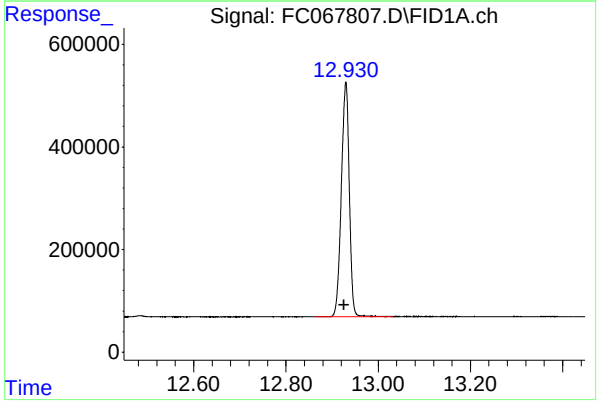





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
PB165032BL




#12 1-chlorooctadecane (SURR)

R.T.: 12.930 min
Delta R.T.: 0.004 min
Response: 5471332
Conc: 37.69 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067807.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 15:27
Sample : PB165032BL
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 | 12.930 | 12.865 | 13.032 | BB | 459778 | 5471332 | 100.00% | 100.000% |

Sum of corrected areas: 5471332

Aliphatic EPH 111424.M Tue Nov 19 05:23:19 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048766.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 15:27
Operator : YP/AJ
Sample : PB165032BL
Misc :
ALS Vial : 67 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB165032BL

Integration File: sample.E
Quant Time: Nov 19 05:55:56 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 | 9167743 | 52.072 ug/ml |
| Spiked Amount 50.000 | | Recovery = 104.14% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.216 | 5897989 | 51.211 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 102.42% | |
| 11) S ortho-Terphenyl (SURR) | 11.255 | 9202508 | 47.846 ug/ml |
| Spiked Amount 50.000 | | Recovery = 95.69% | |
| **Target Compounds** | | | |

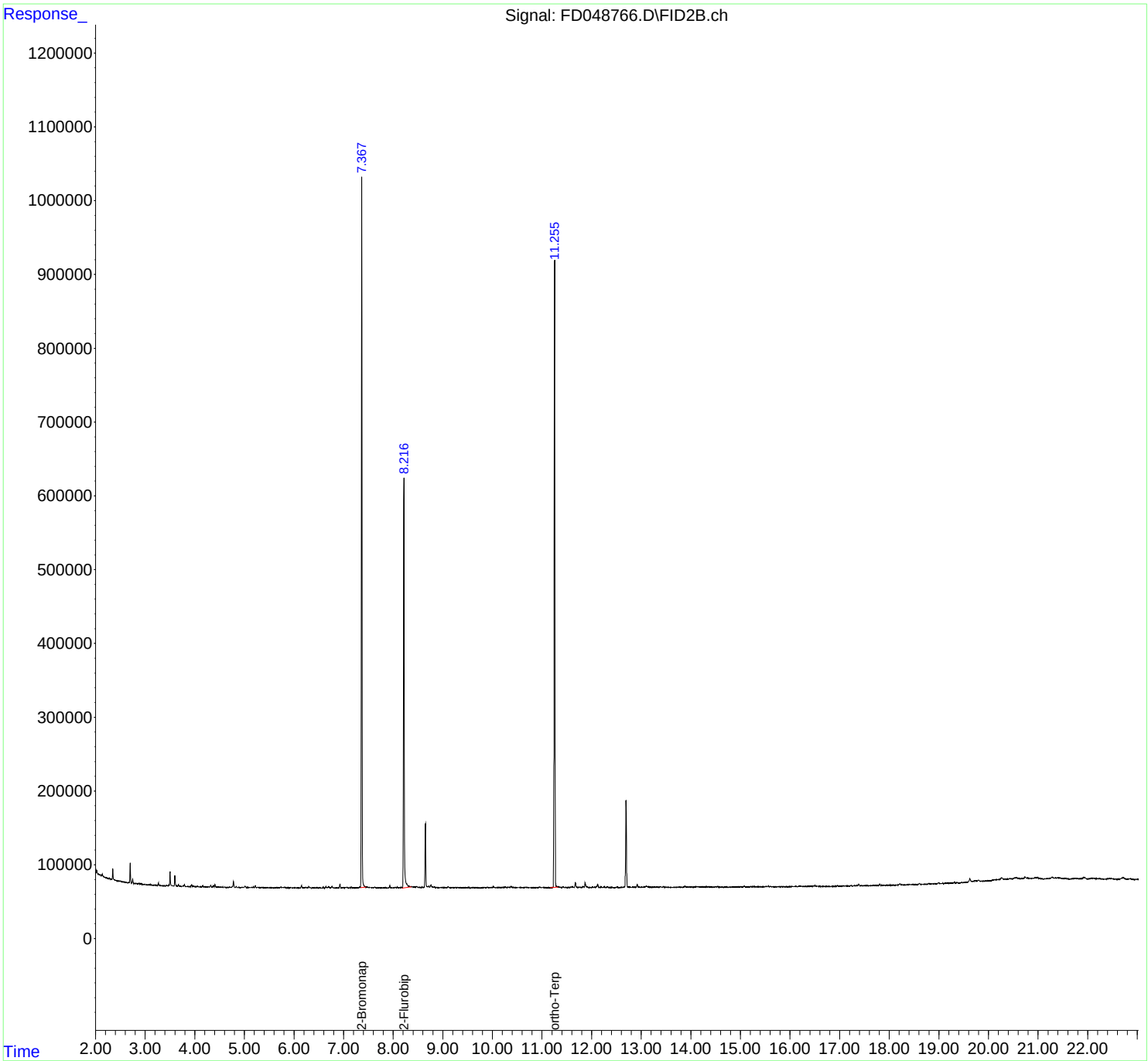
(f)=RT Delta > 1/2 Window (m)=manual int.

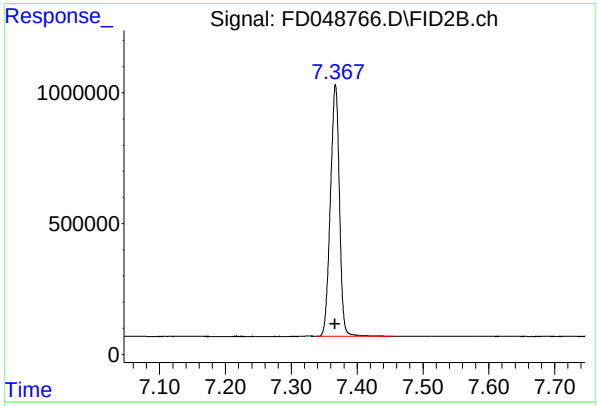
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048766.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 15:27
Operator : YP/AJ
Sample : PB165032BL
Misc :
ALS Vial : 67 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB165032BL

Integration File: sample.E
Quant Time: Nov 19 05:55:56 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

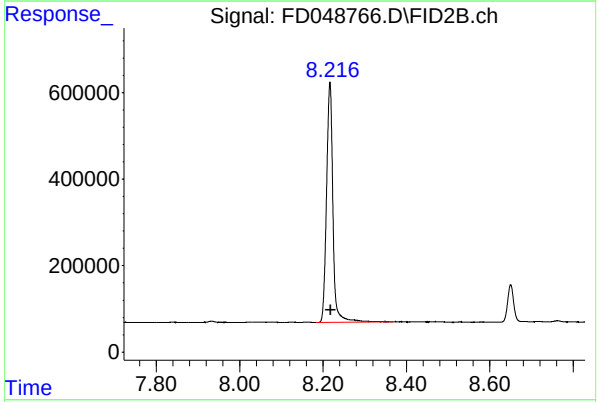





#4 2-Bromonaphthalene (SURR)

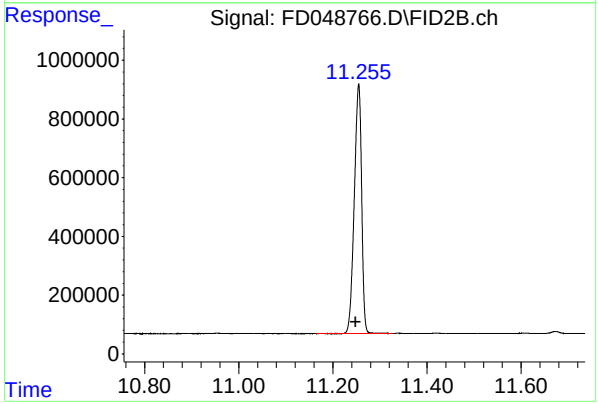
R.T.: 7.367 min
Delta R.T.: 0.000 min
Response: 9167743
Conc: 52.07 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
PB165032BL




#6 2-Flurobiphenyl (SURR)

R.T.: 8.216 min
Delta R.T.: -0.002 min
Response: 5897989
Conc: 51.21 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.255 min
Delta R.T.: 0.006 min
Response: 9202508
Conc: 47.85 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048766.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 15:27
Sample : PB165032BL
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 | 7.367 | 7.338 | 7.454 | VB | 966257 | 9167743 | 99.62% | 37.777% |
| 2 | 8.216 | 8.183 | 8.368 | PB | 559678 | 5897989 | 64.09% | 24.303% |
| 3 | 11.255 | 11.164 | 11.328 | BV | 849454 | 9202508 | 100.00% | 37.920% |
| | | | Sum of corrected areas: | | | 24268241 | | |

Aromatic EPH 111424.M Tue Nov 19 06:16:19 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067808.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:03
Operator : YP/AJ
Sample : PB165032BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB165032BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 04:55:14 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... | 12.930 | 4728305 | 32.573 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 65.15% |
| | **Target Compounds** | | | |
| 1) T | n-Nonane (C9) | 3.275 | 4201336 | 25.757 ug/ml |
| 2) T | n-Decane (C10) | 4.336 | 5318827 | 32.074 ug/ml |
| 4) T | n-Dodecane (C12) | 6.350 | 6374072 | 37.845 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.143 | 6743982 | 40.269 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.741 | 6829435 | 39.409 ug/ml |
| 8) T | n-Octadecane (C18) | 11.181 | 6973343 | 39.635 ug/ml |
| 10) T | n-Eicosane (C20) | 12.489 | 6948691 | 41.266 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.099 | 6626527 | 40.273 ug/ml |
| 13) T | n-Docosane (C22) | 13.684 | 6516169 | 40.013 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.786 | 6265085 | 39.064 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.804 | 6001566 | 38.754 ug/ml |
| 16) T | n-Octacosane (C28) | 16.752 | 5807215 | 38.452 ug/ml |
| 17) T | n-Tricontane (C30) | 17.640 | 5683424 | 37.120 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.471 | 5539429 | 37.507 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.252 | 5319803 | 42.177 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 19.990 | 5069997 | 48.476 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.712 | 5099821 | 52.207 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.596 | 5079880 | 52.119 ug/mlm |

(f)=RT Delta > 1/2 Window (m)=manual int.

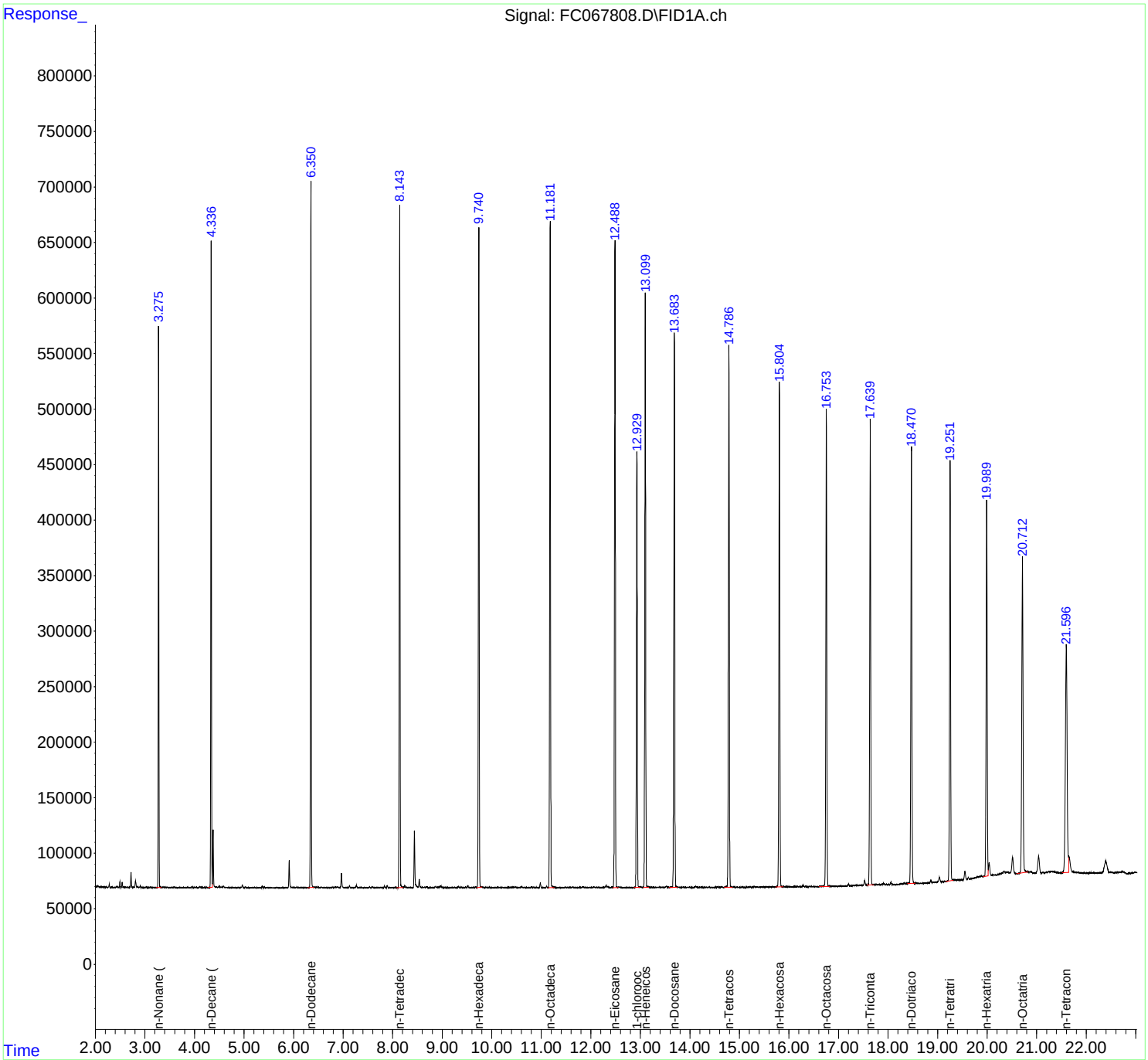
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067808.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:03
Operator : YP/AJ
Sample : PB165032BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB165032BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 04:55:14 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

**Instrument :**
FID_C
**ClientSampleId :**
PB165032BS

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11182
Data File : FC067808.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:03
Sample : PB165032BS
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 | 3.275 | 3.222 | 3.335 | BB | 506407 | 4201336 | 60.25% | 3.770% |
| 2 | 4.336 | 4.273 | 4.359 | BV | 583096 | 5318827 | 76.27% | 4.773% |
| 3 | 6.350 | 6.283 | 6.412 | BV | 635505 | 6374072 | 91.41% | 5.720% |
| 4 | 8.143 | 8.083 | 8.208 | BB | 611882 | 6743982 | 96.71% | 6.051% |
| 5 | 9.741 | 9.690 | 9.802 | BB | 594045 | 6829435 | 97.94% | 6.128% |
| 6 | 11.181 | 11.137 | 11.262 | BB | 599999 | 6973343 | 100.00% | 6.257% |
| 7 | 12.489 | 12.447 | 12.557 | PB | 583904 | 6948691 | 99.65% | 6.235% |
| 8 | 12.930 | 12.867 | 12.990 | BB | 391881 | 4728305 | 67.81% | 4.243% |
| 9 | 13.099 | 13.058 | 13.173 | BB | 532866 | 6626527 | 95.03% | 5.946% |
| 10 | 13.684 | 13.575 | 13.752 | BB | 498791 | 6516169 | 93.44% | 5.847% |
| 11 | 14.786 | 14.697 | 14.857 | BB | 488980 | 6265085 | 89.84% | 5.622% |
| 12 | 15.804 | 15.727 | 15.878 | BB | 452909 | 6001566 | 86.06% | 5.385% |
| 13 | 16.752 | 16.603 | 16.828 | BB | 429238 | 5807215 | 83.28% | 5.211% |
| 14 | 17.640 | 17.572 | 17.713 | BB | 420967 | 5683424 | 81.50% | 5.100% |
| 15 | 18.471 | 18.390 | 18.550 | BB | 393599 | 5539429 | 79.44% | 4.971% |
| 16 | 19.252 | 19.158 | 19.313 | BV | 376107 | 5319803 | 76.29% | 4.774% |
| 17 | 19.990 | 19.927 | 20.022 | BV | 334276 | 5069997 | 72.71% | 4.549% |
| 18 | 20.712 | 20.597 | 20.830 | BB | 283632 | 5099821 | 73.13% | 4.576% |
| 19 | 21.598 | 21.447 | 21.792 | BB | 204461 | 5396267 | 77.38% | 4.842% |
| | | | Sum of corrected areas: | | | 111443294 | | |

Aliphatic EPH 111424.M Tue Nov 19 05:23:55 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048767.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:03
Operator : YP/AJ
Sample : PB165032BS
Misc :
ALS Vial : 68 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB165032BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:05 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 | 8116373 | 46.100 ug/ml |
| | Spiked Amount 50.000 | | Recovery = | 92.20% |
| 6) | S 2-Flurobiphenyl (SURR) | 8.217 | 4810184 | 41.766 ug/ml |
| | Spiked Amount 50.000 Range 0 - 131 | | Recovery = | 83.53% |
| 11) | S ortho-Terphenyl (SURR) | 11.254 | 7565444 | 39.335 ug/ml |
| | Spiked Amount 50.000 | | Recovery = | 78.67% |
| | **Target Compounds** | | | |
| 1) | T 1,2,3-Trimethylbenzen... | 4.191 | 6776592 | 35.957 ug/ml |
| 2) | T Naphthalene (C11.7) | 5.707 | 8096022 | 41.396 ug/ml |
| 3) | T 2-Methylnaphthalene (... | 6.754 | 7937438 | 41.534 ug/ml |
| 5) | T Acenaphthylene (C15.06) | 8.021 | 9048934 | 46.662 ug/ml |
| 7) | T Acenaphthene (C15.5) | 8.317 | 9416523 | 48.956 ug/ml |
| 8) | T Flouorene (C16.55) | 9.095 | 9287223 | 48.408 ug/ml |
| 9) | T Phenanthrene (C19.36) | 10.483 | 9151486 | 49.925 ug/ml |
| 10) | T Anthracene (C19.43) | 10.560 | 9193681 | 49.093 ug/ml |
| 12) | T Fluoranthene (C21.85) | 12.289 | 9152055 | 49.978 ug/mlm |
| 13) | T Pyrene (C20.8) | 12.583 | 8960843 | 49.564 ug/ml |
| 14) | T Benzo[a]anthracene (C... | 14.453 | 8425160 | 51.216 ug/ml |
| 15) | T Chrysene (C27.41) | 14.496 | 8326129 | 47.574 ug/ml |
| 16) | T benzo[b]fluoranthene ... | 16.001 | 8027372 | 51.091 ug/ml |
| 17) | T Bnezo[k]fluoranthene ... | 16.036 | 7963511 | 48.797 ug/ml |
| 18) | T Benzo[a]pyrene (C31.34) | 16.377 | 7583422 | 50.862 ug/ml |
| 19) | T Indeno[1,2,3-cd]pyren... | 17.744 | 7431556 | 60.160 ug/ml |
| 20) | T Dibenz[a,h]anthracene... | 17.781 | 7116213 | 45.380 ug/ml |
| 21) | T Benzo[g,h,i]perylene ... | 17.996 | 7152340 | 50.126 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

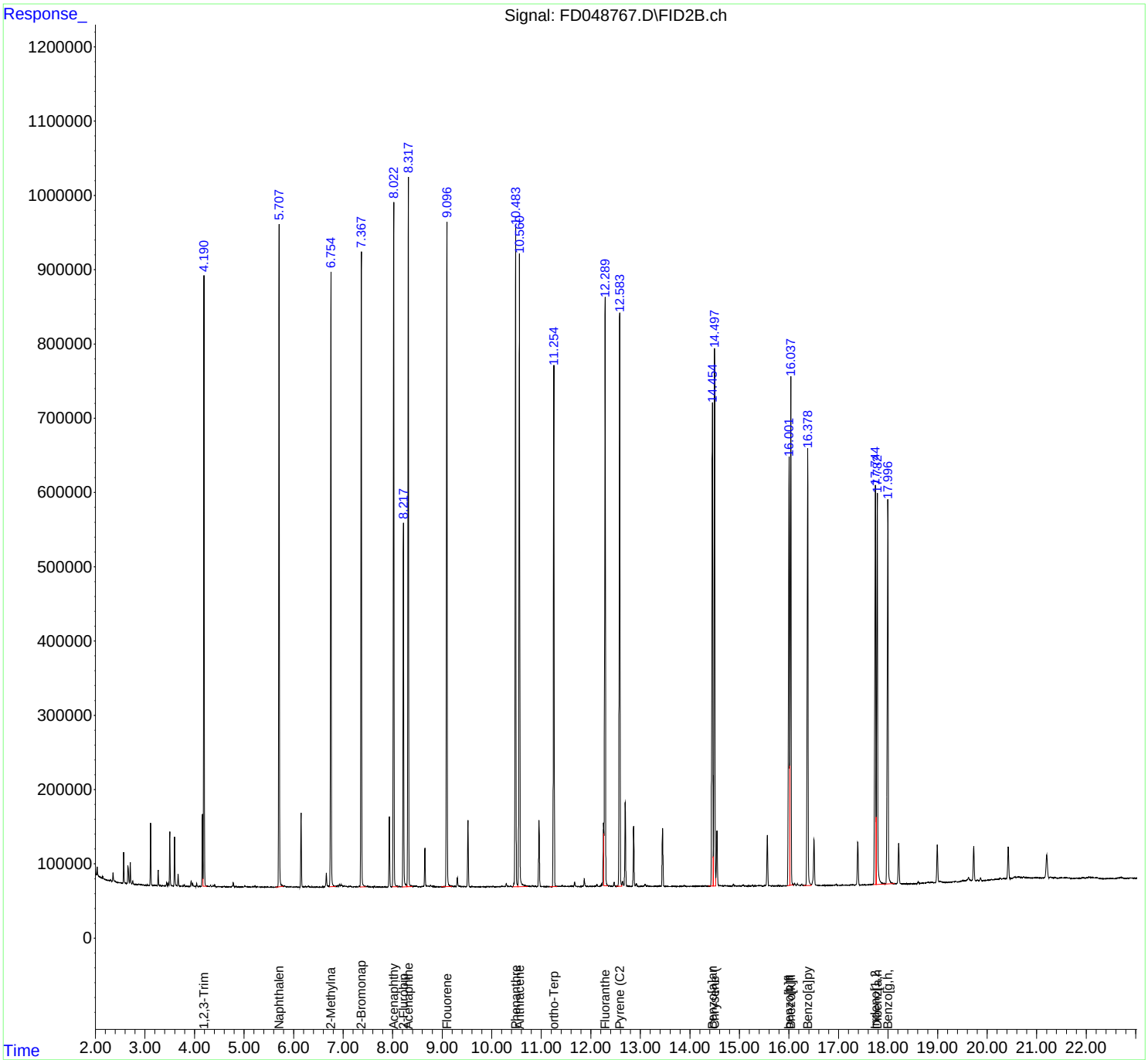
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048767.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:03
Operator : YP/AJ
Sample : PB165032BS
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: sample.E
Quant Time: Nov 19 05:56:05 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 :**
PB165032BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



**Instrument :**
FID_D
**ClientSampleId :**
PB165032BS

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11182
Data File : FD048767.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:03
Sample : PB165032BS
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 | 4.191 | 4.172 | 4.258 | VV | 821858 | 6776592 | 67.92% | 3.978% |
| 2 | 5.707 | 5.638 | 5.798 | BV | 893368 | 8096022 | 81.15% | 4.752% |
| 3 | 6.754 | 6.721 | 6.858 | VB | 827460 | 7937438 | 79.56% | 4.659% |
| 4 | 7.367 | 7.338 | 7.458 | VB | 857947 | 8116373 | 81.35% | 4.764% |
| 5 | 8.021 | 7.991 | 8.111 | BB | 917429 | 9048934 | 90.70% | 5.312% |
| 6 | 8.217 | 8.184 | 8.288 | PV | 489784 | 4810184 | 48.21% | 2.823% |
| 7 | 8.317 | 8.288 | 8.404 | VB | 961795 | 9416523 | 94.39% | 5.527% |
| 8 | 9.095 | 8.974 | 9.201 | BB | 876354 | 9287223 | 93.09% | 5.451% |
| 9 | 10.483 | 10.418 | 10.528 | BV | 900664 | 9151486 | 91.73% | 5.372% |
| 10 | 10.560 | 10.528 | 10.728 | VB | 864022 | 9193681 | 92.15% | 5.397% |
| 11 | 11.254 | 11.168 | 11.324 | BV | 702134 | 7565444 | 75.83% | 4.441% |
| 12 | 12.289 | 12.230 | 12.384 | VB | 783198 | 9976630 | 100.00% | 5.856% |
| 13 | 12.583 | 12.514 | 12.622 | BV | 758395 | 8960843 | 89.82% | 5.260% |
| 14 | 14.453 | 14.374 | 14.472 | BV | 658669 | 8425160 | 84.45% | 4.945% |
| 15 | 14.496 | 14.472 | 14.522 | VV | 729574 | 8326129 | 83.46% | 4.887% |
| 16 | 16.001 | 15.961 | 16.016 | BV | 578832 | 8027372 | 80.46% | 4.712% |
| 17 | 16.036 | 16.016 | 16.095 | VV | 668081 | 7963511 | 79.82% | 4.674% |
| 18 | 16.377 | 16.288 | 16.450 | BV | 589233 | 7583422 | 76.01% | 4.451% |
| 19 | 17.744 | 17.701 | 17.759 | BV | 540528 | 7431556 | 74.49% | 4.362% |
| 20 | 17.781 | 17.759 | 17.951 | VB | 520450 | 7116213 | 71.33% | 4.177% |
| 21 | 17.996 | 17.951 | 18.131 | BB | 504256 | 7152340 | 71.69% | 4.198% |

Sum of corrected areas: 170363077

Aromatic EPH 111424.M Tue Nov 19 06:16:55 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067809.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:39
Operator : YP/AJ
Sample : PB165032BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB165032BSD

Integration File: sample.E
Quant Time: Nov 19 04:55:28 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... | 12.929 | 4658064 | 32.089 | ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 64.18% | |
| | Target Compounds | | | | |
| 1) T | n-Nonane (C9) | 3.274 | 4169652 | 25.563 | ug/ml |
| 2) T | n-Decane (C10) | 4.336 | 5305498 | 31.993 | ug/ml |
| 4) T | n-Dodecane (C12) | 6.350 | 6369928 | 37.820 | ug/ml |
| 6) T | n-Tetradecane (C14) | 8.142 | 6754862 | 40.334 | ug/ml |
| 7) T | n-Hexadecane (C16) | 9.741 | 6852105 | 39.540 | ug/ml |
| 8) T | n-Octadecane (C18) | 11.180 | 6995625 | 39.761 | ug/ml |
| 10) T | n-Eicosane (C20) | 12.487 | 6959191 | 41.329 | ug/ml |
| 11) T | n-Heneicosane (C21) | 13.099 | 6614337 | 40.199 | ug/ml |
| 13) T | n-Docosane (C22) | 13.684 | 6501390 | 39.922 | ug/ml |
| 14) T | n-Tetracosane (C24) | 14.785 | 6244056 | 38.932 | ug/ml |
| 15) T | n-Hexacosane (C26) | 15.804 | 5987706 | 38.665 | ug/ml |
| 16) T | n-Octacosane (C28) | 16.752 | 5814613 | 38.501 | ug/ml |
| 17) T | n-Tricontane (C30) | 17.639 | 5730068 | 37.425 | ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.470 | 5565939 | 37.686 | ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.252 | 5412323 | 42.911 | ug/ml |
| 20) T | n-Hexatriacontane (C36) | 19.991 | 5119430 | 48.949 | ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.713 | 5039519 | 51.590 | ug/ml |
| 22) T | n-Tetracontane (C40) | 21.597 | 5286538 | 54.239 | ug/ml |

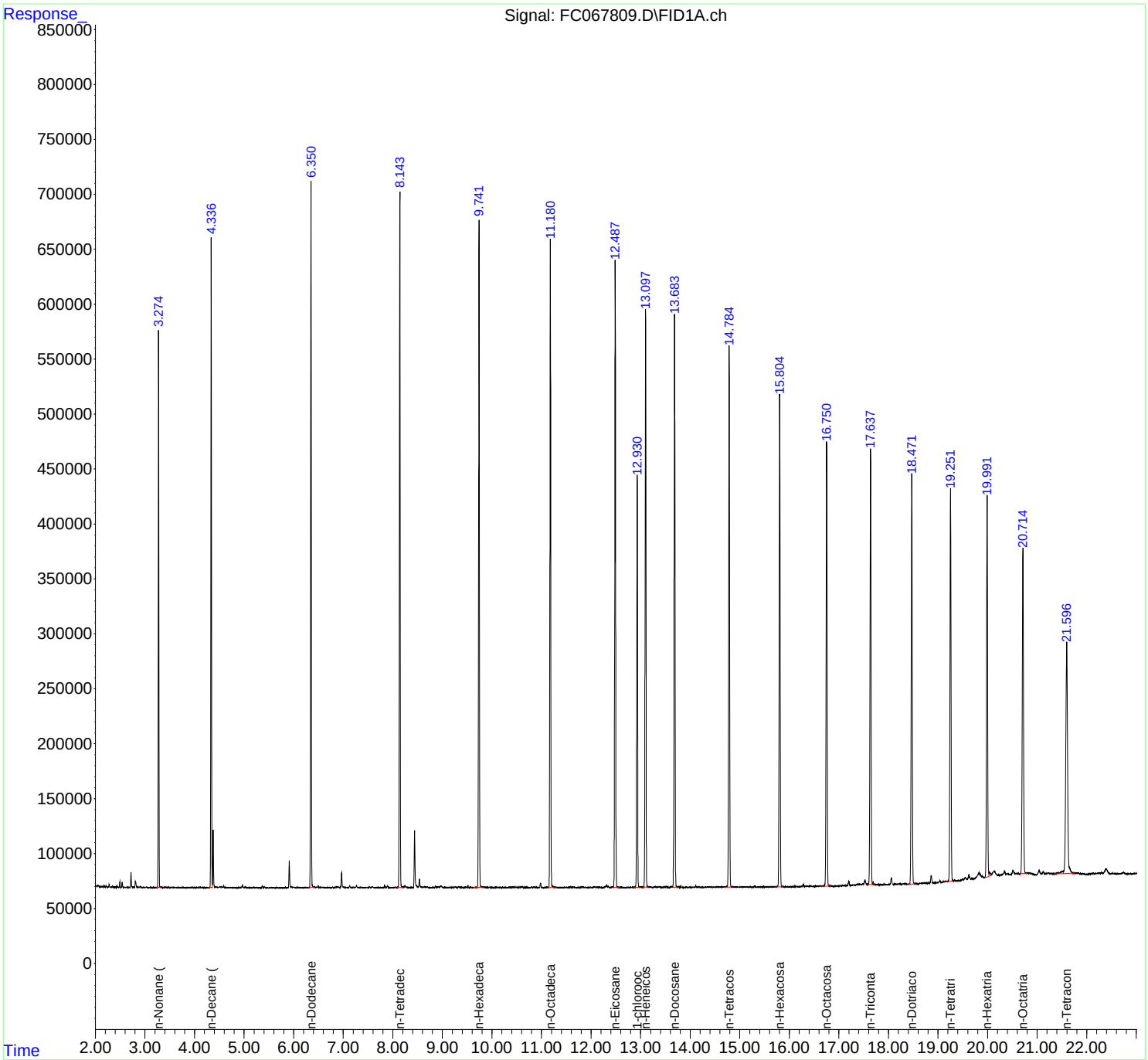
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067809.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:39
Operator : YP/AJ
Sample : PB165032BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB165032BSD

Integration File: sample.E
Quant Time: Nov 19 04:55:28 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\FC111824AL\
Data File : FC067809.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:39
Sample : PB165032BSD
Misc :
ALS Vial : 19 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 | 3.274 | 3.222 | 3.320 | BB | 509303 | 4169652 | 59.60% | 3.744% |
| 2 | 4.336 | 4.280 | 4.359 | BV | 588136 | 5305498 | 75.84% | 4.763% |
| 3 | 6.350 | 6.295 | 6.410 | BV | 644062 | 6369928 | 91.06% | 5.719% |
| 4 | 8.142 | 8.082 | 8.212 | BV | 630042 | 6754862 | 96.56% | 6.065% |
| 5 | 9.741 | 9.620 | 9.812 | BB | 608767 | 6852105 | 97.95% | 6.152% |
| 6 | 11.180 | 11.135 | 11.279 | BB | 589930 | 6995625 | 100.00% | 6.281% |
| 7 | 12.487 | 12.445 | 12.560 | PB | 570012 | 6959191 | 99.48% | 6.248% |
| 8 | 12.929 | 12.867 | 12.994 | BB | 376268 | 4658064 | 66.59% | 4.182% |
| 9 | 13.099 | 13.032 | 13.159 | BB | 521043 | 6614337 | 94.55% | 5.938% |
| 10 | 13.684 | 13.647 | 13.749 | PB | 516294 | 6501390 | 92.94% | 5.837% |
| 11 | 14.785 | 14.689 | 14.852 | BB | 492472 | 6244056 | 89.26% | 5.606% |
| 12 | 15.804 | 15.709 | 15.872 | BB | 446581 | 5987706 | 85.59% | 5.376% |
| 13 | 16.752 | 16.607 | 16.822 | BB | 400679 | 5814613 | 83.12% | 5.220% |
| 14 | 17.639 | 17.575 | 17.719 | BB | 391152 | 5730068 | 81.91% | 5.145% |
| 15 | 18.470 | 18.395 | 18.540 | BB | 369876 | 5565939 | 79.56% | 4.997% |
| 16 | 19.252 | 19.075 | 19.320 | BB | 355187 | 5412323 | 77.37% | 4.859% |
| 17 | 19.991 | 19.935 | 20.027 | BV | 345474 | 5119430 | 73.18% | 4.596% |
| 18 | 20.713 | 20.634 | 20.794 | BB | 292044 | 5039519 | 72.04% | 4.525% |
| 19 | 21.597 | 21.337 | 21.759 | BB | 208166 | 5286538 | 75.57% | 4.746% |

Sum of corrected areas: 111380844

Aliphatic EPH 111424.M Tue Nov 19 05:24:34 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048768.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:39
Operator : YP/AJ
Sample : PB165032BSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB165032BSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:16 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 | 8248787 | 46.852 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 93.70% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.217 | 4866638 | 42.256 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 84.51% |
| 11) S | ortho-Terphenyl (SURR) | 11.254 | 7710147 | 40.087 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 80.17% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.191 | 6884236 | 36.529 ug/ml |
| 2) T | Naphthalene (C11.7) | 5.707 | 8235127 | 42.108 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 6.754 | 8081250 | 42.287 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.021 | 9210211 | 47.493 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.317 | 9572483 | 49.767 ug/ml |
| 8) T | Flouorene (C16.55) | 9.095 | 9473016 | 49.376 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.483 | 9312497 | 50.804 ug/ml |
| 10) T | Anthracene (C19.43) | 10.559 | 9333900 | 49.842 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.288 | 9382920 | 51.239 ug/mlm |
| 13) T | Pyrene (C20.8) | 12.581 | 9123016 | 50.461 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.452 | 8572046 | 52.109 ug/ml |
| 15) T | Chrysene (C27.41) | 14.496 | 8471962 | 48.408 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.000 | 8158287 | 51.925 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.035 | 8077973 | 49.498 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.376 | 7709837 | 51.710 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 17.743 | 7523442 | 60.904 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 17.781 | 7186137 | 45.826 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 17.996 | 7244062 | 50.769 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

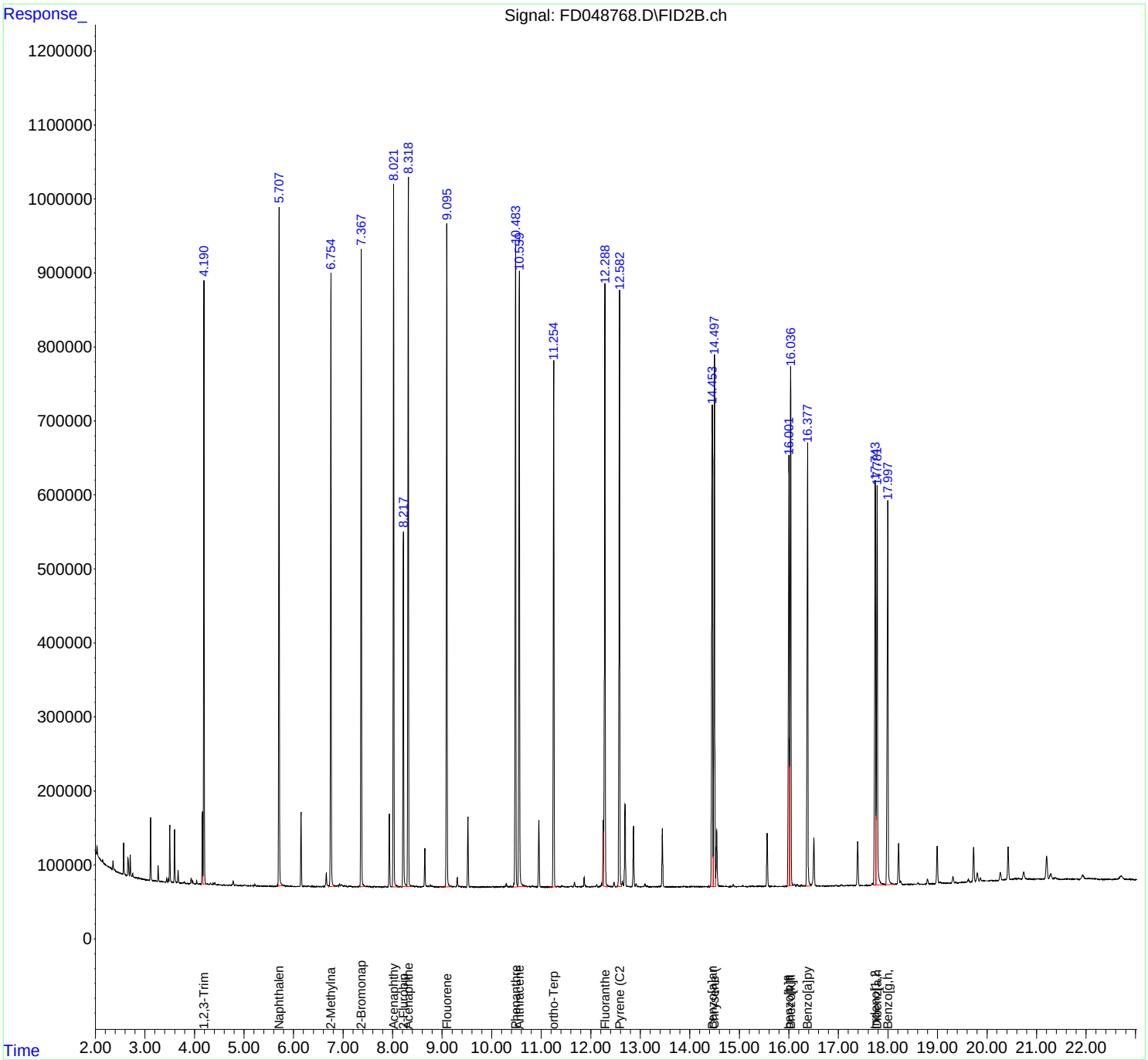
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048768.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:39
Operator : YP/AJ
Sample : PB165032BSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB165032BSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:16 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 :**
PB165032BSD

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11182
Data File : FD048768.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:39
Sample : PB165032BSD
Misc :
ALS Vial : 69 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 | 4.191 | 4.172 | 4.251 | VV | 815043 | 6884236 | 67.71% | 3.976% |
| 2 | 5.707 | 5.651 | 5.798 | BV | 918482 | 8235127 | 81.00% | 4.756% |
| 3 | 6.754 | 6.718 | 6.864 | VB | 829545 | 8081250 | 79.48% | 4.667% |
| 4 | 7.367 | 7.337 | 7.461 | VB | 862646 | 8248787 | 81.13% | 4.764% |
| 5 | 8.021 | 7.991 | 8.111 | BV | 947566 | 9210211 | 90.59% | 5.319% |
| 6 | 8.217 | 8.151 | 8.288 | BV | 481492 | 4866638 | 47.87% | 2.810% |
| 7 | 8.317 | 8.288 | 8.408 | VB | 964072 | 9572483 | 94.15% | 5.528% |
| 8 | 9.095 | 8.991 | 9.198 | BB | 893210 | 9473016 | 93.17% | 5.471% |
| 9 | 10.483 | 10.404 | 10.524 | PV | 880701 | 9312497 | 91.59% | 5.378% |
| 10 | 10.559 | 10.524 | 10.698 | VB | 826296 | 9333900 | 91.80% | 5.390% |
| 11 | 11.254 | 11.168 | 11.321 | BV | 715840 | 7710147 | 75.83% | 4.453% |
| 12 | 12.287 | 12.230 | 12.374 | VV | 815932 | 10167336 | 100.00% | 5.872% |
| 13 | 12.581 | 12.511 | 12.621 | BV | 800723 | 9123016 | 89.73% | 5.268% |
| 14 | 14.452 | 14.378 | 14.471 | BV | 638866 | 8572046 | 84.31% | 4.950% |
| 15 | 14.496 | 14.471 | 14.521 | VV | 704686 | 8471962 | 83.33% | 4.892% |
| 16 | 16.000 | 15.961 | 16.015 | BV | 584159 | 8158287 | 80.24% | 4.711% |
| 17 | 16.035 | 16.015 | 16.093 | VV | 693138 | 8077973 | 79.45% | 4.665% |
| 18 | 16.376 | 16.291 | 16.451 | BV | 609546 | 7709837 | 75.83% | 4.452% |
| 19 | 17.743 | 17.701 | 17.759 | BV | 552982 | 7523442 | 74.00% | 4.345% |
| 20 | 17.781 | 17.759 | 17.948 | VV | 542134 | 7186137 | 70.68% | 4.150% |
| 21 | 17.996 | 17.948 | 18.134 | PB | 513647 | 7244062 | 71.25% | 4.183% |
| | | | Sum of corrected areas: | | | 173162391 | | |

Aromatic EPH 111424.M Tue Nov 19 06:17:35 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067811.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 23:41
Operator : YP/AJ
Sample : P4839-22MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MS

Integration File: sample.E
Quant Time: Nov 19 04:55:47 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... | 12.931 | 5629921 | 38.784 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 77.57% |
| | **Target Compounds** | | | |
| 1) T | n-Nonane (C9) | 3.272 | 4139513 | 25.378 ug/ml |
| 2) T | n-Decane (C10) | 4.335 | 5285048 | 31.870 ug/ml |
| 4) T | n-Dodecane (C12) | 6.350 | 6389245 | 37.935 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.142 | 7165044 | 42.784 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.742 | 7795696 | 44.985 ug/ml |
| 8) T | n-Octadecane (C18) | 11.182 | 8085825 | 45.958 ug/ml |
| 10) T | n-Eicosane (C20) | 12.490 | 8034177 | 47.713 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.101 | 7633285 | 46.392 ug/ml |
| 13) T | n-Docosane (C22) | 13.686 | 7496051 | 46.030 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.787 | 7291067 | 45.461 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.806 | 7014548 | 45.296 ug/ml |
| 16) T | n-Octacosane (C28) | 16.755 | 6783961 | 44.920 ug/ml |
| 17) T | n-Tricontane (C30) | 17.640 | 6603722 | 43.131 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.471 | 6402790 | 43.352 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.254 | 6267851 | 49.694 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 19.992 | 6058033 | 57.923 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.715 | 5995462 | 61.376 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.598 | 6045971 | 62.031 ug/ml |

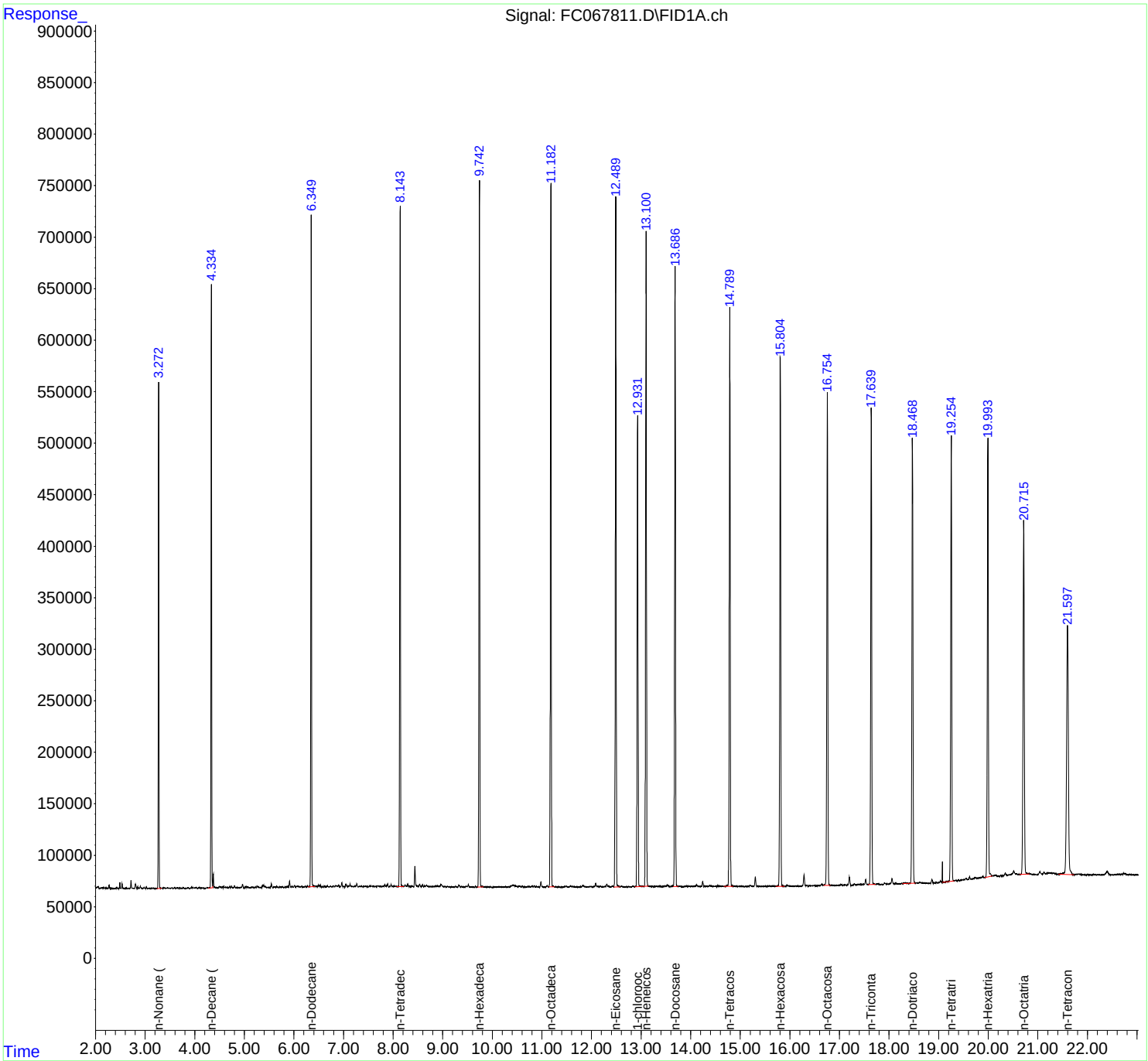
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067811.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 23:41
Operator : YP/AJ
Sample : P4839-22MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MS

Integration File: sample.E
Quant Time: Nov 19 04:55:47 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\FC111824AL\
Data File : FC067811.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 23:41
Sample : P4839-22MS
Misc :
ALS Vial : 21 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 | 3.272 | 3.224 | 3.354 | BV | 486444 | 4145137 | 51.06% | 2.975% |
| 2 | 3.369 | 3.354 | 3.380 | VV | 203 | 2717 | 0.03% | 0.002% |
| 3 | 3.395 | 3.380 | 3.431 | VV | 566 | 9675 | 0.12% | 0.007% |
| 4 | 3.449 | 3.431 | 3.459 | VV | 458 | 4915 | 0.06% | 0.004% |
| 5 | 3.471 | 3.459 | 3.496 | VV | 469 | 5891 | 0.07% | 0.004% |
| 6 | 3.547 | 3.496 | 3.568 | VV | 717 | 13883 | 0.17% | 0.010% |
| 7 | 3.596 | 3.568 | 3.620 | VV | 656 | 11558 | 0.14% | 0.008% |
| 8 | 3.643 | 3.620 | 3.662 | VV | 601 | 9077 | 0.11% | 0.007% |
| 9 | 3.670 | 3.662 | 3.691 | VV | 484 | 5747 | 0.07% | 0.004% |
| 10 | 3.710 | 3.691 | 3.725 | VV | 471 | 7375 | 0.09% | 0.005% |
| 11 | 3.734 | 3.725 | 3.747 | VV | 325 | 2822 | 0.03% | 0.002% |
| 12 | 3.762 | 3.747 | 3.796 | VV | 580 | 8583 | 0.11% | 0.006% |
| 13 | 3.807 | 3.796 | 3.827 | PV | 226 | 2099 | 0.03% | 0.002% |
| 14 | 3.855 | 3.827 | 3.898 | VV | 488 | 12140 | 0.15% | 0.009% |
| 15 | 3.936 | 3.898 | 3.950 | VV | 1205 | 14976 | 0.18% | 0.011% |
| 16 | 3.964 | 3.950 | 3.984 | VV | 1387 | 14843 | 0.18% | 0.011% |
| 17 | 3.997 | 3.984 | 4.013 | VV | 559 | 7317 | 0.09% | 0.005% |
| 18 | 4.030 | 4.013 | 4.050 | VV | 913 | 11241 | 0.14% | 0.008% |
| 19 | 4.110 | 4.050 | 4.125 | VV | 983 | 22978 | 0.28% | 0.016% |
| 20 | 4.138 | 4.125 | 4.164 | VV | 526 | 9525 | 0.12% | 0.007% |
| 21 | 4.173 | 4.164 | 4.206 | VV | 410 | 6848 | 0.08% | 0.005% |
| 22 | 4.248 | 4.206 | 4.268 | PV | 807 | 13160 | 0.16% | 0.009% |
| 23 | 4.287 | 4.268 | 4.303 | VV | 621 | 10149 | 0.13% | 0.007% |
| 24 | 4.335 | 4.303 | 4.359 | VV | 583296 | 5295134 | 65.23% | 3.801% |
| 25 | 4.374 | 4.359 | 4.424 | VV | 13799 | 151965 | 1.87% | 0.109% |
| 26 | 4.435 | 4.424 | 4.465 | VV | 844 | 17250 | 0.21% | 0.012% |
| 27 | 4.501 | 4.465 | 4.516 | VV | 1705 | 32262 | 0.40% | 0.023% |
| 28 | 4.529 | 4.516 | 4.543 | VV | 1535 | 19486 | 0.24% | 0.014% |
| 29 | 4.556 | 4.543 | 4.570 | VV | 1611 | 18830 | 0.23% | 0.014% |
| 30 | 4.586 | 4.570 | 4.603 | VV | 2275 | 26507 | 0.33% | 0.019% |
| 31 | 4.615 | 4.603 | 4.628 | VV | 1093 | 13415 | 0.17% | 0.010% |
| 32 | 4.639 | 4.628 | 4.650 | VV | 944 | 11208 | 0.14% | 0.008% |
| 33 | 4.660 | 4.650 | 4.686 | VV | 996 | 17388 | 0.21% | 0.012% |
| 34 | 4.705 | 4.686 | 4.723 | VV | 1525 | 23202 | 0.29% | 0.017% |
| 35 | 4.741 | 4.723 | 4.781 | VV | 1424 | 31295 | 0.39% | 0.022% |
| 36 | 4.802 | 4.781 | 4.834 | VV | 2588 | 37494 | 0.46% | 0.027% |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 4.852 | 4.834 | 4.874 | VV | 821 | 15603 | 0.19% | 0.011% |
| 38 | 4.888 | 4.874 | 4.904 | VV | 900 | 11853 | 0.15% | 0.009% |
| 39 | 4.964 | 4.904 | 4.996 | VV | 3856 | 76221 | 0.94% | 0.055% |
| 40 | 5.020 | 4.996 | 5.034 | VV | 1842 | 23945 | 0.29% | 0.017% |
| 41 | 5.048 | 5.034 | 5.062 | VV | 1690 | 20544 | 0.25% | 0.015% |
| 42 | 5.073 | 5.062 | 5.110 | VV | 1181 | 25210 | 0.31% | 0.018% |
| 43 | 5.134 | 5.110 | 5.151 | VV | 822 | 17164 | 0.21% | 0.012% |
| 44 | 5.165 | 5.151 | 5.176 | VV | 981 | 13571 | 0.17% | 0.010% |
| 45 | 5.188 | 5.176 | 5.214 | VV | 1024 | 19591 | 0.24% | 0.014% |
| 46 | 5.228 | 5.214 | 5.241 | VV | 984 | 13465 | 0.17% | 0.010% |
| 47 | 5.256 | 5.241 | 5.272 | VV | 2310 | 28597 | 0.35% | 0.021% |
| 48 | 5.284 | 5.272 | 5.324 | VV | 1321 | 31061 | 0.38% | 0.022% |
| 49 | 5.368 | 5.324 | 5.378 | VV | 3245 | 50908 | 0.63% | 0.037% |
| 50 | 5.388 | 5.378 | 5.472 | VV | 3177 | 86578 | 1.07% | 0.062% |
| 51 | 5.489 | 5.472 | 5.508 | VV | 1076 | 18172 | 0.22% | 0.013% |
| 52 | 5.546 | 5.508 | 5.575 | VV | 4355 | 70508 | 0.87% | 0.051% |
| 53 | 5.599 | 5.575 | 5.634 | VV | 1063 | 33668 | 0.41% | 0.024% |
| 54 | 5.655 | 5.634 | 5.691 | VV | 1412 | 36968 | 0.46% | 0.027% |
| 55 | 5.714 | 5.691 | 5.724 | VV | 1280 | 19432 | 0.24% | 0.014% |
| 56 | 5.735 | 5.724 | 5.744 | VV | 1102 | 11810 | 0.15% | 0.008% |
| 57 | 5.772 | 5.744 | 5.801 | VV | 1454 | 37035 | 0.46% | 0.027% |
| 58 | 5.821 | 5.801 | 5.841 | VV | 1410 | 23742 | 0.29% | 0.017% |
| 59 | 5.876 | 5.841 | 5.891 | VV | 1984 | 41688 | 0.51% | 0.030% |
| 60 | 5.912 | 5.891 | 5.948 | VV | 6943 | 97099 | 1.20% | 0.070% |
| 61 | 5.962 | 5.948 | 5.988 | VV | 1649 | 31216 | 0.38% | 0.022% |
| 62 | 6.009 | 5.988 | 6.034 | VV | 2647 | 47561 | 0.59% | 0.034% |
| 63 | 6.065 | 6.034 | 6.078 | VV | 1810 | 39765 | 0.49% | 0.029% |
| 64 | 6.092 | 6.078 | 6.118 | VV | 1699 | 35102 | 0.43% | 0.025% |
| 65 | 6.153 | 6.118 | 6.177 | VV | 1853 | 50650 | 0.62% | 0.036% |
| 66 | 6.187 | 6.177 | 6.205 | VV | 1257 | 19297 | 0.24% | 0.014% |
| 67 | 6.227 | 6.205 | 6.251 | VV | 1726 | 38156 | 0.47% | 0.027% |
| 68 | 6.272 | 6.251 | 6.289 | VV | 1849 | 34704 | 0.43% | 0.025% |
| 69 | 6.300 | 6.289 | 6.315 | VV | 1720 | 24313 | 0.30% | 0.017% |
| 70 | 6.350 | 6.315 | 6.419 | VV | 651501 | 6474388 | 79.76% | 4.647% |
| 71 | 6.434 | 6.419 | 6.451 | VV | 2094 | 34628 | 0.43% | 0.025% |
| 72 | 6.496 | 6.451 | 6.518 | VV | 3010 | 79524 | 0.98% | 0.057% |
| 73 | 6.534 | 6.518 | 6.555 | VV | 2793 | 45107 | 0.56% | 0.032% |
| 74 | 6.569 | 6.555 | 6.593 | VV | 1659 | 29762 | 0.37% | 0.021% |
| 75 | 6.611 | 6.593 | 6.641 | VV | 1638 | 41606 | 0.51% | 0.030% |
| 76 | 6.675 | 6.641 | 6.695 | VV | 1948 | 49368 | 0.61% | 0.035% |
| 77 | 6.732 | 6.695 | 6.764 | VV | 1681 | 56561 | 0.70% | 0.041% |
| 78 | 6.803 | 6.764 | 6.821 | VV | 1877 | 51150 | 0.63% | 0.037% |
| 79 | 6.841 | 6.821 | 6.855 | VV | 2456 | 38058 | 0.47% | 0.027% |
| 80 | 6.867 | 6.855 | 6.882 | VV | 2246 | 31924 | 0.39% | 0.023% |
| 81 | 6.903 | 6.882 | 6.932 | VV | 2349 | 53276 | 0.66% | 0.038% |
| 82 | 6.966 | 6.932 | 7.028 | VV | 5041 | 117856 | 1.45% | 0.085% |
| 83 | 7.048 | 7.028 | 7.087 | VV | 3815 | 80199 | 0.99% | 0.058% |
| 84 | 7.101 | 7.087 | 7.111 | VV | 1655 | 22029 | 0.27% | 0.016% |
| 85 | 7.130 | 7.111 | 7.164 | VV | 3384 | 67563 | 0.83% | 0.048% |
| 86 | 7.175 | 7.164 | 7.203 | VV | 1528 | 33602 | 0.41% | 0.024% |
| 87 | 7.235 | 7.203 | 7.246 | VV | 1969 | 41543 | 0.51% | 0.030% |
| 88 | 7.269 | 7.246 | 7.294 | VV | 3966 | 68067 | 0.84% | 0.049% |
| 89 | 7.338 | 7.294 | 7.345 | VV | 1497 | 42658 | 0.53% | 0.031% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.357 | 7.345 | 7.381 | VV | 1697 | 30444 | 0.38% | 0.022% |
| 91 | 7.440 | 7.381 | 7.469 | VV | 1699 | 73093 | 0.90% | 0.052% |
| 92 | 7.491 | 7.469 | 7.510 | VV | 1314 | 28744 | 0.35% | 0.021% |
| 93 | 7.531 | 7.510 | 7.544 | VV | 2209 | 35581 | 0.44% | 0.026% |
| 94 | 7.555 | 7.544 | 7.571 | VV | 1910 | 27829 | 0.34% | 0.020% |
| 95 | 7.584 | 7.571 | 7.595 | VV | 1588 | 21796 | 0.27% | 0.016% |
| 96 | 7.605 | 7.595 | 7.625 | VV | 1551 | 26369 | 0.32% | 0.019% |
| 97 | 7.645 | 7.625 | 7.661 | VV | 1451 | 28588 | 0.35% | 0.021% |
| 98 | 7.696 | 7.661 | 7.730 | VV | 2077 | 63201 | 0.78% | 0.045% |
| 99 | 7.746 | 7.730 | 7.766 | VV | 1513 | 29401 | 0.36% | 0.021% |
| 100 | 7.791 | 7.766 | 7.806 | VV | 1488 | 30962 | 0.38% | 0.022% |
| 101 | 7.836 | 7.806 | 7.857 | VV | 3293 | 61636 | 0.76% | 0.044% |
| 102 | 7.890 | 7.857 | 7.917 | VV | 3481 | 74325 | 0.92% | 0.053% |
| 103 | 7.961 | 7.917 | 7.996 | VV | 3077 | 82754 | 1.02% | 0.059% |
| 104 | 8.016 | 7.996 | 8.030 | VV | 1724 | 30526 | 0.38% | 0.022% |
| 105 | 8.046 | 8.030 | 8.075 | VV | 1921 | 39498 | 0.49% | 0.028% |
| 106 | 8.083 | 8.075 | 8.092 | VV | 1197 | 12283 | 0.15% | 0.009% |
| 107 | 8.098 | 8.092 | 8.108 | VV | 1234 | 10957 | 0.13% | 0.008% |
| 108 | 8.142 | 8.108 | 8.208 | VV | 667227 | 7237128 | 89.15% | 5.195% |
| 109 | 8.243 | 8.208 | 8.271 | VV | 2660 | 70941 | 0.87% | 0.051% |
| 110 | 8.295 | 8.271 | 8.358 | VV | 3987 | 98249 | 1.21% | 0.071% |
| 111 | 8.380 | 8.358 | 8.409 | VV | 1470 | 38662 | 0.48% | 0.028% |
| 112 | 8.441 | 8.409 | 8.504 | VV | 20904 | 290615 | 3.58% | 0.209% |
| 113 | 8.536 | 8.504 | 8.570 | VV | 3426 | 74467 | 0.92% | 0.053% |
| 114 | 8.592 | 8.570 | 8.614 | VV | 2704 | 47710 | 0.59% | 0.034% |
| 115 | 8.629 | 8.614 | 8.641 | VV | 1619 | 22367 | 0.28% | 0.016% |
| 116 | 8.675 | 8.641 | 8.715 | VV | 2731 | 74271 | 0.91% | 0.053% |
| 117 | 8.742 | 8.715 | 8.772 | VV | 1220 | 34793 | 0.43% | 0.025% |
| 118 | 8.794 | 8.772 | 8.811 | VV | 1307 | 25054 | 0.31% | 0.018% |
| 119 | 8.823 | 8.811 | 8.837 | VV | 1222 | 17700 | 0.22% | 0.013% |
| 120 | 8.858 | 8.837 | 8.875 | VV | 2003 | 34722 | 0.43% | 0.025% |
| 121 | 8.896 | 8.875 | 8.940 | VV | 1719 | 55484 | 0.68% | 0.040% |
| 122 | 8.973 | 8.940 | 9.028 | VV | 2906 | 92119 | 1.13% | 0.066% |
| 123 | 9.046 | 9.028 | 9.071 | VV | 1358 | 27100 | 0.33% | 0.019% |
| 124 | 9.095 | 9.071 | 9.129 | VV | 1104 | 29721 | 0.37% | 0.021% |
| 125 | 9.138 | 9.129 | 9.164 | VV | 777 | 14199 | 0.17% | 0.010% |
| 126 | 9.199 | 9.164 | 9.228 | VV | 701 | 22146 | 0.27% | 0.016% |
| 127 | 9.261 | 9.228 | 9.298 | VV | 1190 | 29885 | 0.37% | 0.021% |
| 128 | 9.326 | 9.298 | 9.361 | VV | 2449 | 50013 | 0.62% | 0.036% |
| 129 | 9.379 | 9.361 | 9.394 | VV | 1206 | 17409 | 0.21% | 0.012% |
| 130 | 9.416 | 9.394 | 9.448 | VV | 830 | 21364 | 0.26% | 0.015% |
| 131 | 9.473 | 9.448 | 9.491 | VV | 1290 | 25179 | 0.31% | 0.018% |
| 132 | 9.517 | 9.491 | 9.557 | VV | 2938 | 48401 | 0.60% | 0.035% |
| 133 | 9.577 | 9.557 | 9.641 | VV | 671 | 24098 | 0.30% | 0.017% |
| 134 | 9.657 | 9.641 | 9.699 | VV | 1040 | 23690 | 0.29% | 0.017% |
| 135 | 9.741 | 9.699 | 9.799 | VV | 685766 | 7823851 | 96.38% | 5.616% |
| 136 | 9.808 | 9.799 | 9.868 | VV | 878 | 26924 | 0.33% | 0.019% |
| 137 | 9.881 | 9.868 | 9.940 | VV | 662 | 18735 | 0.23% | 0.013% |
| 138 | 9.962 | 9.940 | 9.992 | VV | 694 | 11688 | 0.14% | 0.008% |
| 139 | 10.015 | 9.992 | 10.031 | VV | 398 | 6944 | 0.09% | 0.005% |
| 140 | 10.057 | 10.031 | 10.071 | VV | 522 | 9839 | 0.12% | 0.007% |
| 141 | 10.087 | 10.071 | 10.098 | VV | 456 | 6455 | 0.08% | 0.005% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.128 | 10.098 | 10.151 | VV | 819 | 18258 | 0.22% | 0.013% |
| 143 | 10.171 | 10.151 | 10.191 | VV | 602 | 12566 | 0.15% | 0.009% |
| 144 | 10.208 | 10.191 | 10.234 | VV | 522 | 11636 | 0.14% | 0.008% |
| 145 | 10.260 | 10.234 | 10.307 | VV | 640 | 22013 | 0.27% | 0.016% |
| 146 | 10.341 | 10.307 | 10.350 | VV | 745 | 14876 | 0.18% | 0.011% |
| 147 | 10.412 | 10.350 | 10.459 | VV | 2165 | 99996 | 1.23% | 0.072% |
| 148 | 10.474 | 10.459 | 10.510 | VV | 1442 | 32695 | 0.40% | 0.023% |
| 149 | 10.554 | 10.510 | 10.579 | VV | 1186 | 37785 | 0.47% | 0.027% |
| 150 | 10.602 | 10.579 | 10.641 | VV | 1180 | 24287 | 0.30% | 0.017% |
| 151 | 10.650 | 10.641 | 10.663 | VV | 370 | 4186 | 0.05% | 0.003% |
| 152 | 10.724 | 10.663 | 10.774 | VV | 1039 | 37194 | 0.46% | 0.027% |
| 153 | 10.799 | 10.774 | 10.821 | VV | 1274 | 22993 | 0.28% | 0.017% |
| 154 | 10.846 | 10.821 | 10.879 | VV | 1608 | 30635 | 0.38% | 0.022% |
| 155 | 10.895 | 10.879 | 10.917 | VV | 704 | 12625 | 0.16% | 0.009% |
| 156 | 10.928 | 10.917 | 10.956 | VV | 465 | 8420 | 0.10% | 0.006% |
| 157 | 10.982 | 10.956 | 11.025 | VV | 5256 | 71429 | 0.88% | 0.051% |
| 158 | 11.034 | 11.025 | 11.064 | VV | 239 | 4270 | 0.05% | 0.003% |
| 159 | 11.107 | 11.064 | 11.134 | VV | 1908 | 32015 | 0.39% | 0.023% |
| 160 | 11.182 | 11.134 | 11.264 | VV | 670975 | 8117595 | 100.00% | 5.827% |
| 161 | 11.270 | 11.264 | 11.348 | VV | 700 | 14397 | 0.18% | 0.010% |
| 162 | 11.358 | 11.348 | 11.388 | VV | 135 | 2328 | 0.03% | 0.002% |
| 163 | 11.410 | 11.388 | 11.428 | VV | 231 | 3209 | 0.04% | 0.002% |
| 164 | 11.461 | 11.428 | 11.472 | VV | 809 | 12922 | 0.16% | 0.009% |
| 165 | 11.488 | 11.472 | 11.514 | VV | 1160 | 17602 | 0.22% | 0.013% |
| 166 | 11.531 | 11.514 | 11.544 | VV | 421 | 5884 | 0.07% | 0.004% |
| 167 | 11.582 | 11.544 | 11.608 | VV | 1325 | 28452 | 0.35% | 0.020% |
| 168 | 11.630 | 11.608 | 11.713 | VV | 774 | 23384 | 0.29% | 0.017% |
| 169 | 11.724 | 11.713 | 11.731 | VV | 244 | 1989 | 0.02% | 0.001% |
| 170 | 11.741 | 11.731 | 11.754 | VV | 283 | 3457 | 0.04% | 0.002% |
| 171 | 11.775 | 11.754 | 11.797 | VV | 528 | 9784 | 0.12% | 0.007% |
| 172 | 11.828 | 11.797 | 11.880 | VV | 1620 | 43877 | 0.54% | 0.031% |
| 173 | 11.888 | 11.880 | 11.911 | VV | 458 | 6271 | 0.08% | 0.005% |
| 174 | 11.934 | 11.911 | 11.958 | VV | 511 | 10105 | 0.12% | 0.007% |
| 175 | 11.976 | 11.958 | 12.024 | VV | 750 | 17320 | 0.21% | 0.012% |
| 176 | 12.084 | 12.024 | 12.111 | VV | 3901 | 65999 | 0.81% | 0.047% |
| 177 | 12.122 | 12.111 | 12.153 | VV | 917 | 18052 | 0.22% | 0.013% |
| 178 | 12.179 | 12.153 | 12.234 | VV | 821 | 22652 | 0.28% | 0.016% |
| 179 | 12.310 | 12.234 | 12.333 | VV | 2877 | 58349 | 0.72% | 0.042% |
| 180 | 12.347 | 12.333 | 12.384 | VV | 1116 | 16803 | 0.21% | 0.012% |
| 181 | 12.425 | 12.384 | 12.447 | VV | 1170 | 20821 | 0.26% | 0.015% |
| 182 | 12.490 | 12.447 | 12.574 | VV | 677922 | 8045669 | 99.11% | 5.775% |
| 183 | 12.605 | 12.574 | 12.642 | VV | 1014 | 19331 | 0.24% | 0.014% |
| 184 | 12.653 | 12.642 | 12.678 | VV | 139 | 1656 | 0.02% | 0.001% |
| 185 | 12.685 | 12.678 | 12.692 | VV | 96 | 638 | 0.01% | 0.000% |
| 186 | 12.751 | 12.692 | 12.801 | VV | 351 | 13599 | 0.17% | 0.010% |
| 187 | 12.834 | 12.801 | 12.868 | VV | 1176 | 21329 | 0.26% | 0.015% |
| 188 | 12.931 | 12.868 | 12.971 | VV | 454035 | 5653231 | 69.64% | 4.058% |
| 189 | 12.986 | 12.971 | 13.018 | VV | 1130 | 23995 | 0.30% | 0.017% |
| 190 | 13.038 | 13.018 | 13.061 | VV | 787 | 14149 | 0.17% | 0.010% |
| 191 | 13.101 | 13.061 | 13.255 | VV | 625661 | 7702094 | 94.88% | 5.529% |
| 192 | 13.295 | 13.255 | 13.331 | VV | 597 | 19231 | 0.24% | 0.014% |
| 193 | 13.383 | 13.331 | 13.411 | VV | 598 | 22195 | 0.27% | 0.016% |
| 194 | 13.482 | 13.411 | 13.508 | VV | 888 | 31919 | 0.39% | 0.023% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.527 | 13.508 | 13.597 | VV | 1799 | 43778 | 0.54% | 0.031% |
| 196 | 13.629 | 13.597 | 13.645 | VV | 1253 | 19933 | 0.25% | 0.014% |
| 197 | 13.686 | 13.645 | 13.761 | VV | 601805 | 7523928 | 92.69% | 5.401% |
| 198 | 13.767 | 13.761 | 13.836 | VV | 611 | 15825 | 0.19% | 0.011% |
| 199 | 13.841 | 13.836 | 13.850 | VV | 259 | 1605 | 0.02% | 0.001% |
| 200 | 13.920 | 13.850 | 13.993 | VV | 801 | 37468 | 0.46% | 0.027% |
| 201 | 14.022 | 13.993 | 14.054 | VV | 608 | 16361 | 0.20% | 0.012% |
| 202 | 14.070 | 14.054 | 14.089 | VV | 761 | 11530 | 0.14% | 0.008% |
| 203 | 14.116 | 14.089 | 14.174 | VV | 1847 | 41329 | 0.51% | 0.030% |
| 204 | 14.183 | 14.174 | 14.203 | VV | 407 | 6061 | 0.07% | 0.004% |
| 205 | 14.243 | 14.203 | 14.278 | VV | 5213 | 75861 | 0.93% | 0.054% |
| 206 | 14.307 | 14.278 | 14.354 | VV | 579 | 20055 | 0.25% | 0.014% |
| 207 | 14.395 | 14.354 | 14.473 | VV | 1151 | 42789 | 0.53% | 0.031% |
| 208 | 14.489 | 14.473 | 14.508 | VV | 429 | 7907 | 0.10% | 0.006% |
| 209 | 14.532 | 14.508 | 14.551 | VV | 456 | 9881 | 0.12% | 0.007% |
| 210 | 14.578 | 14.551 | 14.608 | VV | 732 | 19214 | 0.24% | 0.014% |
| 211 | 14.628 | 14.608 | 14.684 | VV | 492 | 17158 | 0.21% | 0.012% |
| 212 | 14.787 | 14.684 | 14.938 | VV | 557858 | 7350951 | 90.56% | 5.276% |
| 213 | 14.979 | 14.938 | 15.014 | VV | 401 | 13592 | 0.17% | 0.010% |
| 214 | 15.023 | 15.014 | 15.038 | VV | 309 | 3786 | 0.05% | 0.003% |
| 215 | 15.047 | 15.038 | 15.091 | VV | 303 | 6068 | 0.07% | 0.004% |
| 216 | 15.125 | 15.091 | 15.153 | VV | 330 | 7422 | 0.09% | 0.005% |
| 217 | 15.199 | 15.153 | 15.239 | VV | 1131 | 30024 | 0.37% | 0.022% |
| 218 | 15.254 | 15.239 | 15.270 | VV | 467 | 6757 | 0.08% | 0.005% |
| 219 | 15.301 | 15.270 | 15.338 | VV | 9411 | 128360 | 1.58% | 0.092% |
| 220 | 15.349 | 15.338 | 15.394 | VV | 308 | 5209 | 0.06% | 0.004% |
| 221 | 15.424 | 15.394 | 15.462 | PV | 236 | 5573 | 0.07% | 0.004% |
| 222 | 15.487 | 15.462 | 15.547 | VV | 317 | 9707 | 0.12% | 0.007% |
| 223 | 15.583 | 15.547 | 15.614 | VV | 635 | 16350 | 0.20% | 0.012% |
| 224 | 15.622 | 15.614 | 15.641 | VV | 547 | 6630 | 0.08% | 0.005% |
| 225 | 15.672 | 15.641 | 15.724 | VV | 624 | 16828 | 0.21% | 0.012% |
| 226 | 15.806 | 15.724 | 15.911 | VV | 517549 | 7034290 | 86.65% | 5.049% |
| 227 | 15.942 | 15.911 | 15.963 | VV | 1004 | 17541 | 0.22% | 0.013% |
| 228 | 15.976 | 15.963 | 16.054 | VV | 561 | 13840 | 0.17% | 0.010% |
| 229 | 16.110 | 16.054 | 16.134 | VV | 422 | 9065 | 0.11% | 0.007% |
| 230 | 16.156 | 16.134 | 16.210 | VV | 278 | 5720 | 0.07% | 0.004% |
| 231 | 16.284 | 16.210 | 16.314 | PV | 11131 | 166696 | 2.05% | 0.120% |
| 232 | 16.328 | 16.314 | 16.384 | VV | 687 | 17092 | 0.21% | 0.012% |
| 233 | 16.427 | 16.384 | 16.498 | VV | 374 | 17640 | 0.22% | 0.013% |
| 234 | 16.504 | 16.498 | 16.527 | VV | 264 | 3244 | 0.04% | 0.002% |
| 235 | 16.584 | 16.527 | 16.607 | VV | 592 | 13961 | 0.17% | 0.010% |
| 236 | 16.641 | 16.607 | 16.674 | VV | 1619 | 36959 | 0.46% | 0.027% |
| 237 | 16.755 | 16.674 | 16.828 | VV | 478619 | 6818821 | 84.00% | 4.895% |
| 238 | 16.838 | 16.828 | 16.908 | VV | 493 | 15072 | 0.19% | 0.011% |
| 239 | 16.979 | 16.908 | 17.001 | VV | 438 | 14385 | 0.18% | 0.010% |
| 240 | 17.036 | 17.001 | 17.068 | VV | 1010 | 23362 | 0.29% | 0.017% |
| 241 | 17.093 | 17.068 | 17.141 | VV | 538 | 17477 | 0.22% | 0.013% |
| 242 | 17.151 | 17.141 | 17.158 | VV | 422 | 3572 | 0.04% | 0.003% |
| 243 | 17.200 | 17.158 | 17.251 | VV | 8222 | 123599 | 1.52% | 0.089% |
| 244 | 17.301 | 17.251 | 17.334 | PV | 1259 | 25643 | 0.32% | 0.018% |
| 245 | 17.386 | 17.334 | 17.414 | VV | 882 | 27595 | 0.34% | 0.020% |
| 246 | 17.430 | 17.414 | 17.447 | VV | 651 | 10498 | 0.13% | 0.008% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 17.478 | 17.447 | 17.499 | VV | 954 | 21058 | 0.26% | 0.015% |
| 248 | 17.527 | 17.499 | 17.558 | VV | 5307 | 79609 | 0.98% | 0.057% |
| 249 | 17.640 | 17.558 | 17.734 | VV | 462638 | 6633747 | 81.72% | 4.762% |
| 250 | 17.770 | 17.734 | 17.831 | VV | 788 | 25883 | 0.32% | 0.019% |
| 251 | 17.846 | 17.831 | 17.867 | VV | 212 | 3127 | 0.04% | 0.002% |
| 252 | 17.913 | 17.867 | 17.951 | VV | 1547 | 34431 | 0.42% | 0.025% |
| 253 | 17.953 | 17.951 | 17.984 | VV | 563 | 5902 | 0.07% | 0.004% |
| 254 | 18.016 | 17.984 | 18.030 | VV | 882 | 15208 | 0.19% | 0.011% |
| 255 | 18.058 | 18.030 | 18.088 | VV | 5759 | 89958 | 1.11% | 0.065% |
| 256 | 18.105 | 18.088 | 18.117 | VV | 639 | 10680 | 0.13% | 0.008% |
| 257 | 18.135 | 18.117 | 18.177 | VV | 926 | 21812 | 0.27% | 0.016% |
| 258 | 18.190 | 18.177 | 18.224 | VV | 490 | 10176 | 0.13% | 0.007% |
| 259 | 18.318 | 18.224 | 18.353 | VV | 1117 | 46583 | 0.57% | 0.033% |
| 260 | 18.366 | 18.353 | 18.416 | VV | 764 | 20241 | 0.25% | 0.015% |
| 261 | 18.471 | 18.416 | 18.534 | VV | 415056 | 6425719 | 79.16% | 4.612% |
| 262 | 18.562 | 18.534 | 18.578 | VV | 708 | 15417 | 0.19% | 0.011% |
| 263 | 18.621 | 18.578 | 18.703 | VV | 1189 | 52799 | 0.65% | 0.038% |
| 264 | 18.722 | 18.703 | 18.757 | VV | 523 | 13182 | 0.16% | 0.009% |
| 265 | 18.769 | 18.757 | 18.798 | VV | 359 | 4970 | 0.06% | 0.004% |
| 266 | 18.864 | 18.798 | 18.924 | PV | 3747 | 62882 | 0.77% | 0.045% |
| 267 | 18.959 | 18.924 | 18.981 | VV | 307 | 5577 | 0.07% | 0.004% |
| 268 | 18.992 | 18.981 | 18.997 | VV | 156 | 988 | 0.01% | 0.001% |
| 269 | 19.037 | 18.997 | 19.084 | VV | 1615 | 49167 | 0.61% | 0.035% |
| 270 | 19.116 | 19.084 | 19.127 | VV | 619 | 12138 | 0.15% | 0.009% |
| 271 | 19.254 | 19.127 | 19.316 | VV | 430272 | 6340453 | 78.11% | 4.551% |
| 272 | 19.344 | 19.316 | 19.373 | VV | 1523 | 44839 | 0.55% | 0.032% |
| 273 | 19.405 | 19.373 | 19.423 | VV | 1462 | 39008 | 0.48% | 0.028% |
| 274 | 19.552 | 19.423 | 19.587 | VV | 3214 | 184486 | 2.27% | 0.132% |
| 275 | 19.625 | 19.587 | 19.651 | VV | 3874 | 98623 | 1.21% | 0.071% |
| 276 | 19.738 | 19.651 | 19.784 | VV | 3115 | 204558 | 2.52% | 0.147% |
| 277 | 19.890 | 19.784 | 19.924 | VV | 4053 | 254280 | 3.13% | 0.183% |
| 278 | 19.992 | 19.924 | 20.031 | VV | 425633 | 6225554 | 76.69% | 4.469% |
| 279 | 20.040 | 20.031 | 20.081 | VV | 6470 | 157456 | 1.94% | 0.113% |
| 280 | 20.134 | 20.081 | 20.231 | VV | 4633 | 359404 | 4.43% | 0.258% |
| 281 | 20.258 | 20.231 | 20.281 | VV | 3992 | 111353 | 1.37% | 0.080% |
| 282 | 20.342 | 20.281 | 20.375 | VV | 5924 | 246138 | 3.03% | 0.177% |
| 283 | 20.384 | 20.375 | 20.392 | VV | 4162 | 41273 | 0.51% | 0.030% |
| 284 | 20.511 | 20.392 | 20.569 | VV | 7482 | 539885 | 6.65% | 0.388% |
| 285 | 20.577 | 20.569 | 20.617 | VV | 4679 | 125501 | 1.55% | 0.090% |
| 286 | 20.715 | 20.617 | 20.848 | VV | 345124 | 6562319 | 80.84% | 4.710% |
| 287 | 20.864 | 20.848 | 20.891 | VV | 3926 | 97960 | 1.21% | 0.070% |
| 288 | 20.906 | 20.891 | 20.984 | VV | 3566 | 181928 | 2.24% | 0.131% |
| 289 | 21.042 | 20.984 | 21.085 | VV | 5505 | 241708 | 2.98% | 0.173% |
| 290 | 21.122 | 21.085 | 21.161 | VV | 4641 | 180225 | 2.22% | 0.129% |
| 291 | 21.238 | 21.161 | 21.394 | VV | 4143 | 495351 | 6.10% | 0.356% |
| 292 | 21.410 | 21.394 | 21.444 | VV | 2643 | 75185 | 0.93% | 0.054% |
| 293 | 21.598 | 21.444 | 21.724 | VV | 243209 | 6343924 | 78.15% | 4.554% |
| 294 | 21.822 | 21.724 | 21.971 | VV | 1436 | 152341 | 1.88% | 0.109% |
| 295 | 21.984 | 21.971 | 22.024 | VV | 479 | 9436 | 0.12% | 0.007% |
| 296 | 22.042 | 22.024 | 22.050 | VV | 335 | 3835 | 0.05% | 0.003% |
| 297 | 22.060 | 22.050 | 22.081 | VV | 315 | 3136 | 0.04% | 0.002% |

Sum of corrected areas: 139315657

rteres

Aliphatic EPH 111424.M Tue Nov 19 05:25:30 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048770.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 23:41
Operator : YP/AJ
Sample : P4839-22MS
Misc :
ALS Vial : 71 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:35 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... | 7.364 | 9001948 | 51.130 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 102.26% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.214 | 5843108 | 50.735 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 101.47% |
| 11) S | ortho-Terphenyl (SURR) | 11.251 | 7463900 | 38.807 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 77.61% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.185 | 6948117 | 36.868 ug/mlm |
| 2) T | Naphthalene (C11.7) | 5.703 | 8101596 | 41.425 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 6.750 | 8006402 | 41.895 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.017 | 9255342 | 47.726 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.314 | 9891892 | 51.428 ug/ml |
| 8) T | Flouorene (C16.55) | 9.093 | 9942337 | 51.823 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.481 | 10157412 | 55.413 ug/ml |
| 10) T | Anthracene (C19.43) | 10.558 | 10090846 | 53.884 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.288 | 10604950 | 57.912 ug/mlm |
| 13) T | Pyrene (C20.8) | 12.582 | 10226486 | 56.564 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.451 | 9677620 | 58.830 ug/ml |
| 15) T | Chrysene (C27.41) | 14.495 | 9518979 | 54.390 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.000 | 9185774 | 58.464 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.035 | 9081131 | 55.645 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.377 | 8609948 | 57.747 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 17.744 | 8635216 | 69.904 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 17.781 | 8125990 | 51.819 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 17.997 | 8209382 | 57.534 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

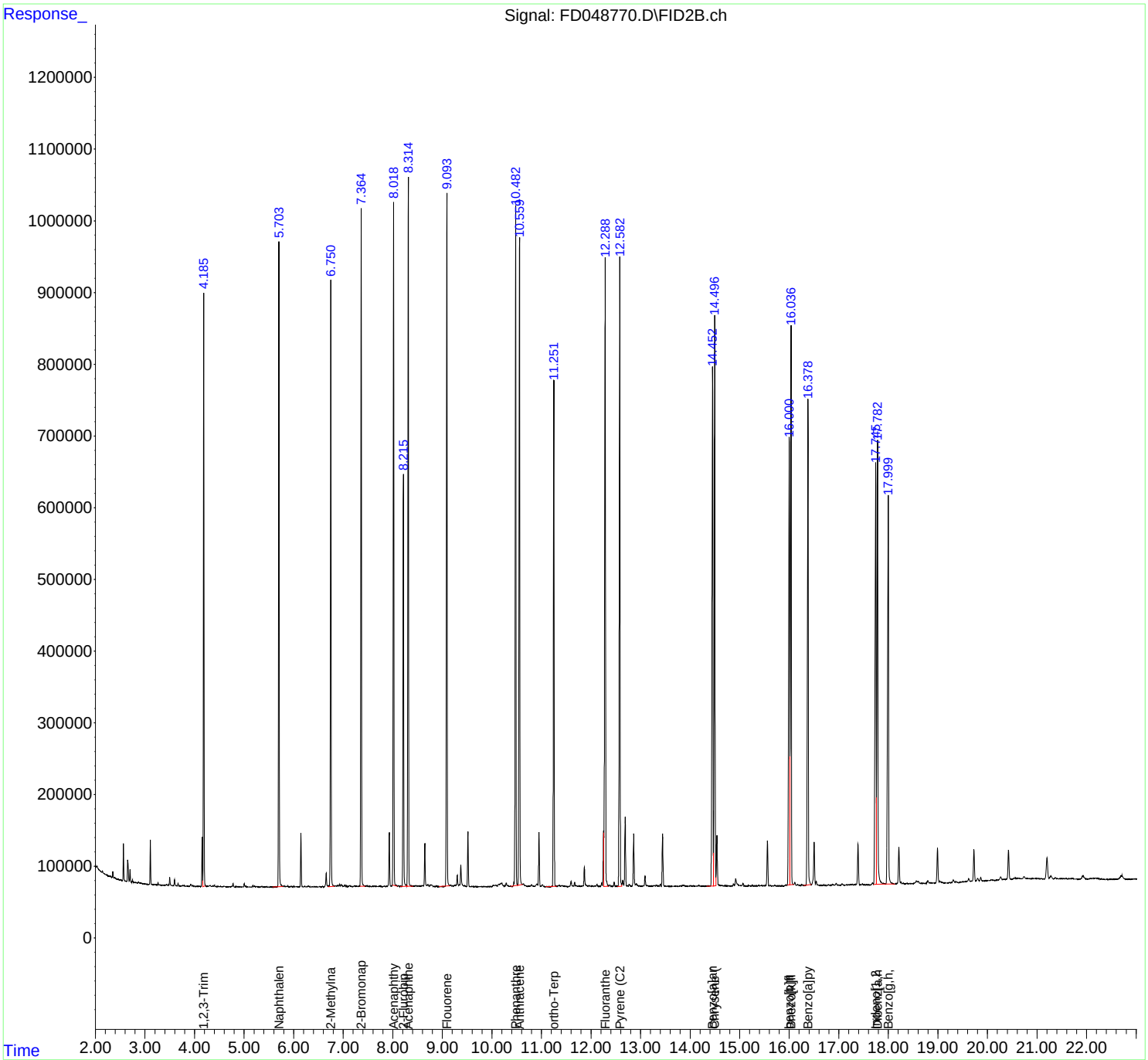
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048770.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 23:41
Operator : YP/AJ
Sample : P4839-22MS
Misc :
ALS Vial : 71 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:35 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



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**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

A B C D E F G H I J

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11182
Data File : FD048770.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 23:41
Sample : P4839-22MS
Misc :
ALS Vial : 71 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 | 4.106 | 4.091 | 4.127 | PV | 401 | 3987 | 0.04% | 0.002% |
| 2 | 4.154 | 4.127 | 4.167 | PV | 69382 | 599461 | 5.71% | 0.289% |
| 3 | 4.185 | 4.167 | 4.247 | VV | 826558 | 6990242 | 66.63% | 3.369% |
| 4 | 4.263 | 4.247 | 4.281 | VV | 1261 | 17627 | 0.17% | 0.008% |
| 5 | 4.316 | 4.281 | 4.339 | VV | 2051 | 42096 | 0.40% | 0.020% |
| 6 | 4.349 | 4.339 | 4.355 | VV | 544 | 4299 | 0.04% | 0.002% |
| 7 | 4.374 | 4.355 | 4.388 | VV | 1603 | 17276 | 0.16% | 0.008% |
| 8 | 4.403 | 4.388 | 4.422 | VV | 2314 | 22664 | 0.22% | 0.011% |
| 9 | 4.442 | 4.422 | 4.458 | VV | 409 | 5595 | 0.05% | 0.003% |
| 10 | 4.473 | 4.458 | 4.483 | VV | 725 | 6871 | 0.07% | 0.003% |
| 11 | 4.499 | 4.483 | 4.506 | VV | 601 | 6405 | 0.06% | 0.003% |
| 12 | 4.517 | 4.506 | 4.522 | VV | 711 | 5412 | 0.05% | 0.003% |
| 13 | 4.525 | 4.522 | 4.536 | VV | 583 | 3899 | 0.04% | 0.002% |
| 14 | 4.540 | 4.536 | 4.554 | VV | 317 | 2852 | 0.03% | 0.001% |
| 15 | 4.566 | 4.554 | 4.575 | VV | 457 | 4236 | 0.04% | 0.002% |
| 16 | 4.593 | 4.575 | 4.638 | VV | 1047 | 21116 | 0.20% | 0.010% |
| 17 | 4.676 | 4.651 | 4.681 | VV | 259 | 2776 | 0.03% | 0.001% |
| 18 | 4.705 | 4.681 | 4.729 | VV | 465 | 8344 | 0.08% | 0.004% |
| 19 | 4.753 | 4.729 | 4.758 | VV | 951 | 10165 | 0.10% | 0.005% |
| 20 | 4.777 | 4.758 | 4.804 | VV | 5146 | 60258 | 0.57% | 0.029% |
| 21 | 4.833 | 4.804 | 4.845 | PV | 1208 | 14544 | 0.14% | 0.007% |
| 22 | 4.858 | 4.845 | 4.879 | VV | 1107 | 13584 | 0.13% | 0.007% |
| 23 | 4.881 | 4.879 | 4.905 | VV | 475 | 5617 | 0.05% | 0.003% |
| 24 | 4.911 | 4.905 | 4.929 | VV | 388 | 3483 | 0.03% | 0.002% |
| 25 | 4.940 | 4.929 | 4.953 | VV | 344 | 3198 | 0.03% | 0.002% |
| 26 | 4.967 | 4.953 | 4.979 | VV | 524 | 5337 | 0.05% | 0.003% |
| 27 | 5.002 | 4.979 | 5.029 | VV | 4786 | 56144 | 0.54% | 0.027% |
| 28 | 5.037 | 5.029 | 5.071 | VV | 1020 | 15611 | 0.15% | 0.008% |
| 29 | 5.077 | 5.071 | 5.091 | VV | 272 | 2848 | 0.03% | 0.001% |
| 30 | 5.097 | 5.091 | 5.103 | VV | 280 | 1523 | 0.01% | 0.001% |
| 31 | 5.108 | 5.103 | 5.116 | VV | 329 | 2009 | 0.02% | 0.001% |
| 32 | 5.120 | 5.116 | 5.128 | VV | 264 | 1175 | 0.01% | 0.001% |
| 33 | 5.141 | 5.128 | 5.147 | PV | 337 | 2455 | 0.02% | 0.001% |
| 34 | 5.150 | 5.147 | 5.157 | VV | 255 | 1277 | 0.01% | 0.001% |
| 35 | 5.176 | 5.157 | 5.195 | VV | 2503 | 31011 | 0.30% | 0.015% |
| 36 | 5.214 | 5.195 | 5.235 | VV | 2030 | 28551 | 0.27% | 0.014% |

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**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

A B C D E F G H I J

| | | | | | rteres | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 5.244 | 5.235 | 5.250 | VV | 720 | 5094 | 0.05% | 0.002% |
| 38 | 5.255 | 5.250 | 5.262 | VV | 729 | 4097 | 0 | |
| 39 | 5.271 | 5.262 | 5.303 | VV | 722 | 10024 | 0 | |
| 40 | 5.364 | 5.303 | 5.390 | VV | 1143 | 28869 | 0 | |
| 41 | 5.412 | 5.390 | 5.434 | VV | 741 | 10135 | 0 | |
| 42 | 5.449 | 5.434 | 5.460 | VV | 855 | 10018 | 0 | |
| 43 | 5.463 | 5.460 | 5.488 | VV | 711 | 5149 | 0.05% | 0.002% |
| 44 | 5.499 | 5.488 | 5.515 | PV | 321 | 3130 | 0.03% | 0.002% |
| 45 | 5.530 | 5.515 | 5.547 | VV | 515 | 6371 | 0.06% | 0.003% |
| 46 | 5.557 | 5.547 | 5.565 | VV | 352 | 2416 | 0.02% | 0.001% |
| 47 | 5.576 | 5.565 | 5.581 | VV | 385 | 2694 | 0.03% | 0.001% |
| 48 | 5.585 | 5.581 | 5.596 | VV | 290 | 1778 | 0.02% | 0.001% |
| 49 | 5.666 | 5.607 | 5.674 | VV | 726 | 17748 | 0.17% | 0.009% |
| 50 | 5.703 | 5.674 | 5.785 | VV | 902360 | 8170451 | 77.88% | 3.938% |
| 51 | 5.789 | 5.785 | 5.794 | VV | 1243 | 6220 | 0.06% | 0.003% |
| 52 | 5.811 | 5.794 | 5.829 | VV | 2020 | 30433 | 0.29% | 0.015% |
| 53 | 5.846 | 5.829 | 5.862 | VV | 1082 | 19271 | 0.18% | 0.009% |
| 54 | 5.882 | 5.862 | 5.903 | VV | 1878 | 30085 | 0.29% | 0.015% |
| 55 | 5.906 | 5.903 | 5.910 | VV | 536 | 2473 | 0.02% | 0.001% |
| 56 | 5.928 | 5.910 | 5.938 | VV | 1067 | 14166 | 0.14% | 0.007% |
| 57 | 5.947 | 5.938 | 5.960 | VV | 1208 | 13616 | 0.13% | 0.007% |
| 58 | 5.964 | 5.960 | 5.990 | VV | 968 | 13308 | 0.13% | 0.006% |
| 59 | 6.003 | 5.990 | 6.019 | VV | 1490 | 16295 | 0.16% | 0.008% |
| 60 | 6.026 | 6.019 | 6.035 | VV | 654 | 5875 | 0.06% | 0.003% |
| 61 | 6.039 | 6.035 | 6.054 | VV | 686 | 6677 | 0.06% | 0.003% |
| 62 | 6.070 | 6.054 | 6.110 | VV | 973 | 24851 | 0.24% | 0.012% |
| 63 | 6.148 | 6.110 | 6.200 | VV | 75643 | 726080 | 6.92% | 0.350% |
| 64 | 6.229 | 6.200 | 6.246 | VV | 1318 | 21812 | 0.21% | 0.011% |
| 65 | 6.267 | 6.246 | 6.278 | VV | 1037 | 12131 | 0.12% | 0.006% |
| 66 | 6.296 | 6.278 | 6.320 | VV | 1857 | 28419 | 0.27% | 0.014% |
| 67 | 6.331 | 6.320 | 6.348 | VV | 1106 | 10368 | 0.10% | 0.005% |
| 68 | 6.368 | 6.348 | 6.400 | VV | 1007 | 17384 | 0.17% | 0.008% |
| 69 | 6.415 | 6.400 | 6.436 | VV | 1280 | 15311 | 0.15% | 0.007% |
| 70 | 6.454 | 6.436 | 6.474 | VV | 712 | 11659 | 0.11% | 0.006% |
| 71 | 6.488 | 6.474 | 6.502 | VV | 581 | 6459 | 0.06% | 0.003% |
| 72 | 6.516 | 6.502 | 6.525 | VV | 736 | 7876 | 0.08% | 0.004% |
| 73 | 6.531 | 6.525 | 6.553 | VV | 811 | 7615 | 0.07% | 0.004% |
| 74 | 6.586 | 6.553 | 6.605 | VV | 1082 | 17217 | 0.16% | 0.008% |
| 75 | 6.657 | 6.605 | 6.697 | VV | 20052 | 255243 | 2.43% | 0.123% |
| 76 | 6.710 | 6.697 | 6.717 | VV | 2183 | 22637 | 0.22% | 0.011% |
| 77 | 6.751 | 6.717 | 6.829 | VV | 845127 | 8065523 | 76.88% | 3.888% |
| 78 | 6.843 | 6.829 | 6.863 | VV | 1945 | 32713 | 0.31% | 0.016% |
| 79 | 6.869 | 6.863 | 6.873 | VV | 1458 | 8589 | 0.08% | 0.004% |
| 80 | 6.888 | 6.873 | 6.907 | VV | 3035 | 43112 | 0.41% | 0.021% |
| 81 | 6.923 | 6.907 | 6.937 | VV | 3928 | 46220 | 0.44% | 0.022% |
| 82 | 6.953 | 6.937 | 6.967 | VV | 3625 | 48619 | 0.46% | 0.023% |
| 83 | 6.976 | 6.967 | 7.011 | VV | 2478 | 44882 | 0.43% | 0.022% |
| 84 | 7.031 | 7.011 | 7.050 | VV | 3406 | 48904 | 0.47% | 0.024% |
| 85 | 7.061 | 7.050 | 7.082 | VV | 1748 | 25971 | 0.25% | 0.013% |
| 86 | 7.094 | 7.082 | 7.098 | VV | 1153 | 10431 | 0.10% | 0.005% |
| 87 | 7.130 | 7.098 | 7.147 | VV | 2230 | 47519 | 0.45% | 0.023% |
| 88 | 7.153 | 7.147 | 7.195 | VV | 1479 | 28371 | 0.27% | 0.014% |
| 89 | 7.228 | 7.195 | 7.263 | VV | 2167 | 51811 | 0.49% | 0.025% |

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**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

rteres

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 90 | 7.278 | 7.263 | 7.304 | VV | 1680 | 30488 | 0.29% | 0.015% |
| 91 | 7.324 | 7.304 | 7.337 | VV | 2106 | 28664 | | |
| 92 | 7.364 | 7.337 | 7.448 | VV | 945613 | 9078064 | 8 | |
| 93 | 7.485 | 7.448 | 7.510 | VV | 1808 | 55622 | | |
| 94 | 7.519 | 7.510 | 7.541 | VV | 1446 | 21599 | | |
| 95 | 7.547 | 7.541 | 7.571 | VV | 1053 | 16606 | | |
| 96 | 7.598 | 7.571 | 7.606 | VV | 1144 | 21055 | 0.20% | 0.010% |
| 97 | 7.627 | 7.606 | 7.651 | VV | 1594 | 32202 | 0.31% | 0.016% |
| 98 | 7.655 | 7.651 | 7.665 | VV | 1030 | 7882 | 0.08% | 0.004% |
| 99 | 7.679 | 7.665 | 7.697 | VV | 1377 | 19269 | 0.18% | 0.009% |
| 100 | 7.721 | 7.697 | 7.735 | VV | 1140 | 22180 | 0.21% | 0.011% |
| 101 | 7.752 | 7.735 | 7.784 | VV | 1712 | 32908 | 0.31% | 0.016% |
| 102 | 7.788 | 7.784 | 7.790 | VV | 805 | 2948 | 0.03% | 0.001% |
| 103 | 7.796 | 7.790 | 7.803 | VV | 926 | 6648 | 0.06% | 0.003% |
| 104 | 7.829 | 7.803 | 7.859 | VV | 1535 | 37415 | 0.36% | 0.018% |
| 105 | 7.876 | 7.859 | 7.893 | VV | 1583 | 23654 | 0.23% | 0.011% |
| 106 | 7.931 | 7.893 | 7.969 | VV | 76410 | 815483 | 7.77% | 0.393% |
| 107 | 8.018 | 7.969 | 8.096 | VV | 958450 | 9408645 | 89.69% | 4.535% |
| 108 | 8.113 | 8.096 | 8.148 | VV | 2115 | 45106 | 0.43% | 0.022% |
| 109 | 8.164 | 8.148 | 8.184 | VV | 1441 | 22587 | 0.22% | 0.011% |
| 110 | 8.215 | 8.184 | 8.265 | VV | 576342 | 5865155 | 55.91% | 2.827% |
| 111 | 8.274 | 8.265 | 8.283 | VV | 3222 | 31571 | 0.30% | 0.015% |
| 112 | 8.315 | 8.283 | 8.370 | VV | 992455 | 9950280 | 94.85% | 4.796% |
| 113 | 8.383 | 8.370 | 8.407 | VV | 1744 | 34868 | 0.33% | 0.017% |
| 114 | 8.411 | 8.407 | 8.435 | VV | 1497 | 23321 | 0.22% | 0.011% |
| 115 | 8.437 | 8.435 | 8.446 | VV | 1441 | 8304 | 0.08% | 0.004% |
| 116 | 8.476 | 8.446 | 8.504 | VV | 2297 | 58719 | 0.56% | 0.028% |
| 117 | 8.526 | 8.504 | 8.542 | VV | 1832 | 32709 | 0.31% | 0.016% |
| 118 | 8.560 | 8.542 | 8.572 | VV | 1775 | 29345 | 0.28% | 0.014% |
| 119 | 8.575 | 8.572 | 8.584 | VV | 1736 | 11012 | 0.10% | 0.005% |
| 120 | 8.600 | 8.584 | 8.623 | VV | 2194 | 42750 | 0.41% | 0.021% |
| 121 | 8.648 | 8.623 | 8.677 | VV | 61339 | 640134 | 6.10% | 0.309% |
| 122 | 8.683 | 8.677 | 8.698 | VV | 2527 | 30386 | 0.29% | 0.015% |
| 123 | 8.711 | 8.698 | 8.734 | VV | 3801 | 58761 | 0.56% | 0.028% |
| 124 | 8.761 | 8.734 | 8.774 | VV | 3423 | 60819 | 0.58% | 0.029% |
| 125 | 8.787 | 8.774 | 8.820 | VV | 3346 | 56534 | 0.54% | 0.027% |
| 126 | 8.831 | 8.820 | 8.861 | VV | 1239 | 21161 | 0.20% | 0.010% |
| 127 | 8.881 | 8.861 | 8.907 | VV | 1615 | 26324 | 0.25% | 0.013% |
| 128 | 8.925 | 8.907 | 8.956 | VV | 843 | 18060 | 0.17% | 0.009% |
| 129 | 8.965 | 8.956 | 8.971 | VV | 524 | 4329 | 0.04% | 0.002% |
| 130 | 8.993 | 8.971 | 9.003 | VV | 867 | 12922 | 0.12% | 0.006% |
| 131 | 9.015 | 9.003 | 9.034 | VV | 874 | 12483 | 0.12% | 0.006% |
| 132 | 9.042 | 9.034 | 9.057 | VV | 839 | 10173 | 0.10% | 0.005% |
| 133 | 9.093 | 9.057 | 9.153 | VV | 969161 | 10065289 | 95.94% | 4.851% |
| 134 | 9.172 | 9.153 | 9.197 | VV | 2668 | 55708 | 0.53% | 0.027% |
| 135 | 9.203 | 9.197 | 9.217 | VV | 1538 | 17218 | 0.16% | 0.008% |
| 136 | 9.250 | 9.217 | 9.272 | VV | 2725 | 72275 | 0.69% | 0.035% |
| 137 | 9.302 | 9.272 | 9.332 | VV | 16623 | 230853 | 2.20% | 0.111% |
| 138 | 9.346 | 9.332 | 9.355 | VV | 3423 | 40744 | 0.39% | 0.020% |
| 139 | 9.375 | 9.355 | 9.437 | VV | 30992 | 435753 | 4.15% | 0.210% |
| 140 | 9.453 | 9.437 | 9.491 | VV | 2052 | 41210 | 0.39% | 0.020% |
| 141 | 9.518 | 9.491 | 9.553 | VV | 77426 | 821799 | 7.83% | 0.396% |

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**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

**Manual IntegrationsAPPROVED**

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Supervised By :Ankita Jodhani 11/19/2024

A B C D E F G H I J

| | | | | | rteres | | | |
|---|---|---|---|---|---|---|---|---|
| 142 | 9.561 | 9.553 | 9.572 | VV | 494 | 5061 | 0.05% | 0.002% |
| 143 | 9.589 | 9.572 | 9.622 | VV | 832 | 19510 | | |
| 144 | 9.639 | 9.622 | 9.653 | VV | 706 | 10171 | | |
| 145 | 9.663 | 9.653 | 9.682 | VV | 755 | 9563 | | |
| 146 | 9.690 | 9.682 | 9.710 | VV | 709 | 7708 | | |
| 147 | 9.723 | 9.710 | 9.759 | VV | 689 | 13686 | | |
| 148 | 9.763 | 9.759 | 9.765 | VV | 423 | 1529 | 0.01% | 0.001% |
| 149 | 9.782 | 9.765 | 9.812 | VV | 736 | 14071 | 0.13% | 0.007% |
| 150 | 9.832 | 9.812 | 9.853 | VV | 707 | 12432 | 0.12% | 0.006% |
| 151 | 9.863 | 9.853 | 9.872 | VV | 576 | 5545 | 0.05% | 0.003% |
| 152 | 9.888 | 9.872 | 9.894 | VV | 682 | 6559 | 0.06% | 0.003% |
| 153 | 9.907 | 9.894 | 9.921 | VV | 805 | 9471 | 0.09% | 0.005% |
| 154 | 9.938 | 9.921 | 9.970 | VV | 947 | 19163 | 0.18% | 0.009% |
| 155 | 9.974 | 9.970 | 9.983 | VV | 685 | 3969 | 0.04% | 0.002% |
| 156 | 10.023 | 9.983 | 10.035 | VV | 2232 | 36489 | 0.35% | 0.018% |
| 157 | 10.047 | 10.035 | 10.052 | VV | 2180 | 20468 | 0.20% | 0.010% |
| 158 | 10.083 | 10.052 | 10.110 | VV | 2656 | 72313 | 0.69% | 0.035% |
| 159 | 10.139 | 10.110 | 10.152 | VV | 3896 | 72260 | 0.69% | 0.035% |
| 160 | 10.183 | 10.152 | 10.195 | VV | 5106 | 115933 | 1.11% | 0.056% |
| 161 | 10.203 | 10.195 | 10.265 | VV | 5348 | 111115 | 1.06% | 0.054% |
| 162 | 10.289 | 10.265 | 10.326 | VV | 5641 | 96873 | 0.92% | 0.047% |
| 163 | 10.330 | 10.326 | 10.355 | VV | 1612 | 19875 | 0.19% | 0.010% |
| 164 | 10.379 | 10.355 | 10.398 | VV | 1440 | 25456 | 0.24% | 0.012% |
| 165 | 10.407 | 10.398 | 10.412 | VV | 460 | 3659 | 0.03% | 0.002% |
| 166 | 10.445 | 10.412 | 10.450 | VV | 6746 | 62444 | 0.60% | 0.030% |
| 167 | 10.482 | 10.450 | 10.524 | VV | 949052 | 10228770 | 97.50% | 4.930% |
| 168 | 10.559 | 10.524 | 10.614 | VV | 904484 | 10254200 | 97.75% | 4.942% |
| 169 | 10.634 | 10.614 | 10.697 | VV | 4417 | 139797 | 1.33% | 0.067% |
| 170 | 10.703 | 10.697 | 10.721 | VV | 1255 | 15774 | 0.15% | 0.008% |
| 171 | 10.755 | 10.721 | 10.770 | VV | 1646 | 35215 | 0.34% | 0.017% |
| 172 | 10.802 | 10.770 | 10.850 | VV | 3316 | 76558 | 0.73% | 0.037% |
| 173 | 10.855 | 10.850 | 10.862 | VV | 741 | 5050 | 0.05% | 0.002% |
| 174 | 10.911 | 10.862 | 10.928 | VV | 4094 | 98886 | 0.94% | 0.048% |
| 175 | 10.952 | 10.928 | 10.986 | VV | 76320 | 866050 | 8.26% | 0.417% |
| 176 | 11.020 | 10.986 | 11.059 | VV | 3050 | 69060 | 0.66% | 0.033% |
| 177 | 11.068 | 11.059 | 11.085 | VV | 580 | 7512 | 0.07% | 0.004% |
| 178 | 11.096 | 11.085 | 11.123 | VV | 520 | 7527 | 0.07% | 0.004% |
| 179 | 11.139 | 11.123 | 11.159 | PV | 438 | 6344 | 0.06% | 0.003% |
| 180 | 11.251 | 11.172 | 11.310 | VV | 706139 | 7530784 | 71.79% | 3.630% |
| 181 | 11.331 | 11.310 | 11.342 | VV | 1666 | 24836 | 0.24% | 0.012% |
| 182 | 11.364 | 11.342 | 11.383 | VV | 2632 | 44803 | 0.43% | 0.022% |
| 183 | 11.418 | 11.383 | 11.446 | VV | 2011 | 52951 | 0.50% | 0.026% |
| 184 | 11.466 | 11.446 | 11.488 | VV | 1531 | 25397 | 0.24% | 0.012% |
| 185 | 11.496 | 11.488 | 11.537 | VV | 991 | 16185 | 0.15% | 0.008% |
| 186 | 11.544 | 11.537 | 11.549 | VV | 468 | 2752 | 0.03% | 0.001% |
| 187 | 11.599 | 11.549 | 11.648 | VV | 7474 | 136136 | 1.30% | 0.066% |
| 188 | 11.671 | 11.648 | 11.691 | VV | 6192 | 80794 | 0.77% | 0.039% |
| 189 | 11.698 | 11.691 | 11.699 | VV | 1551 | 7220 | 0.07% | 0.003% |
| 190 | 11.704 | 11.699 | 11.732 | VV | 1723 | 21768 | 0.21% | 0.010% |
| 191 | 11.771 | 11.732 | 11.795 | VV | 1358 | 35000 | 0.33% | 0.017% |
| 192 | 11.835 | 11.795 | 11.844 | VV | 1598 | 32405 | 0.31% | 0.016% |
| 193 | 11.867 | 11.844 | 11.932 | VV | 27773 | 376206 | 3.59% | 0.181% |
| 194 | 11.947 | 11.932 | 11.964 | VV | 1633 | 24832 | 0.24% | 0.012% |

9

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 195 | 11.972 | 11.964 | 12.003 | VV | 1302 | 23074 | 0.22% | 0.011% |
| 196 | 12.026 | 12.003 | 12.056 | VV | 1267 | 28779 | | |
| 197 | 12.083 | 12.056 | 12.102 | VV | 1145 | 23947 | | |
| 198 | 12.120 | 12.102 | 12.150 | VV | 3255 | 44598 | | |
| 199 | 12.155 | 12.150 | 12.171 | VV | 548 | 5478 | | |
| 200 | 12.194 | 12.171 | 12.199 | VV | 1239 | 14235 | | |
| 201 | 12.216 | 12.199 | 12.229 | VV | 5308 | 55867 | 0.53% | 0.027% |
| 202 | 12.255 | 12.229 | 12.260 | VV | 77809 | 737427 | 7.03% | 0.355% |
| 203 | 12.288 | 12.260 | 12.355 | VV | 881161 | 10490734 | 100.00% | 5.056% |
| 204 | 12.381 | 12.355 | 12.443 | VV | 2547 | 58116 | 0.55% | 0.028% |
| 205 | 12.467 | 12.443 | 12.493 | VV | 6318 | 77307 | 0.74% | 0.037% |
| 206 | 12.500 | 12.493 | 12.540 | VV | 1048 | 16513 | 0.16% | 0.008% |
| 207 | 12.582 | 12.540 | 12.620 | VV | 877382 | 10248363 | 97.69% | 4.940% |
| 208 | 12.639 | 12.620 | 12.663 | VV | 8697 | 132677 | 1.26% | 0.064% |
| 209 | 12.690 | 12.663 | 12.720 | VV | 97174 | 1123222 | 10.71% | 0.541% |
| 210 | 12.729 | 12.720 | 12.742 | VV | 1202 | 13977 | 0.13% | 0.007% |
| 211 | 12.773 | 12.742 | 12.816 | VV | 3361 | 68875 | 0.66% | 0.033% |
| 212 | 12.822 | 12.816 | 12.829 | VV | 830 | 5444 | 0.05% | 0.003% |
| 213 | 12.862 | 12.829 | 12.900 | VV | 73787 | 916597 | 8.74% | 0.442% |
| 214 | 12.915 | 12.900 | 12.966 | VV | 4082 | 86086 | 0.82% | 0.041% |
| 215 | 12.970 | 12.966 | 12.990 | VV | 953 | 12421 | 0.12% | 0.006% |
| 216 | 12.994 | 12.990 | 13.015 | VV | 760 | 9463 | 0.09% | 0.005% |
| 217 | 13.090 | 13.015 | 13.164 | VV | 15007 | 243786 | 2.32% | 0.118% |
| 218 | 13.171 | 13.164 | 13.190 | VV | 719 | 9987 | 0.10% | 0.005% |
| 219 | 13.202 | 13.190 | 13.208 | VV | 753 | 7674 | 0.07% | 0.004% |
| 220 | 13.213 | 13.208 | 13.224 | VV | 726 | 6377 | 0.06% | 0.003% |
| 221 | 13.231 | 13.224 | 13.247 | VV | 816 | 9908 | 0.09% | 0.005% |
| 222 | 13.266 | 13.247 | 13.278 | VV | 1350 | 19098 | 0.18% | 0.009% |
| 223 | 13.282 | 13.278 | 13.295 | VV | 1114 | 10429 | 0.10% | 0.005% |
| 224 | 13.316 | 13.295 | 13.345 | VV | 1906 | 35062 | 0.33% | 0.017% |
| 225 | 13.353 | 13.345 | 13.370 | VV | 922 | 11458 | 0.11% | 0.006% |
| 226 | 13.398 | 13.370 | 13.416 | VV | 3245 | 46327 | 0.44% | 0.022% |
| 227 | 13.444 | 13.416 | 13.499 | VV | 73733 | 874708 | 8.34% | 0.422% |
| 228 | 13.505 | 13.499 | 13.519 | VV | 445 | 3960 | 0.04% | 0.002% |
| 229 | 13.540 | 13.519 | 13.581 | VV | 626 | 12402 | 0.12% | 0.006% |
| 230 | 13.594 | 13.581 | 13.614 | VV | 201 | 2069 | 0.02% | 0.001% |
| 231 | 13.639 | 13.627 | 13.646 | VV | 284 | 2376 | 0.02% | 0.001% |
| 232 | 13.702 | 13.646 | 13.733 | VV | 564 | 17230 | 0.16% | 0.008% |
| 233 | 13.743 | 13.733 | 13.760 | VV | 309 | 2849 | 0.03% | 0.001% |
| 234 | 13.767 | 13.760 | 13.772 | VV | 267 | 1479 | 0.01% | 0.001% |
| 235 | 13.802 | 13.772 | 13.817 | VV | 925 | 15632 | 0.15% | 0.008% |
| 236 | 13.834 | 13.817 | 13.862 | VV | 1187 | 25343 | 0.24% | 0.012% |
| 237 | 13.877 | 13.862 | 13.914 | VV | 1676 | 32073 | 0.31% | 0.015% |
| 238 | 13.926 | 13.914 | 13.941 | VV | 466 | 4760 | 0.05% | 0.002% |
| 239 | 13.953 | 13.941 | 13.967 | VV | 409 | 3718 | 0.04% | 0.002% |
| 240 | 13.971 | 13.967 | 13.979 | VV | 318 | 1778 | 0.02% | 0.001% |
| 241 | 14.002 | 13.979 | 14.030 | VV | 1261 | 20468 | 0.20% | 0.010% |
| 242 | 14.034 | 14.030 | 14.052 | VV | 377 | 3919 | 0.04% | 0.002% |
| 243 | 14.066 | 14.052 | 14.111 | VV | 981 | 18626 | 0.18% | 0.009% |
| 244 | 14.125 | 14.111 | 14.147 | VV | 516 | 7335 | 0.07% | 0.004% |
| 245 | 14.172 | 14.147 | 14.199 | VV | 1348 | 22267 | 0.21% | 0.011% |
| 246 | 14.214 | 14.199 | 14.235 | VV | 505 | 8088 | 0.08% | 0.004% |

9

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

A B C D E F G H I J

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 247 | 14.241 | 14.235 | 14.252 | VV | 456 | 3915 | 0.04% | 0.002% |
| 248 | 14.258 | 14.252 | 14.274 | VV | 368 | 3586 | 0 | |
| 249 | 14.284 | 14.274 | 14.294 | VV | 332 | 3031 | 0 | |
| 250 | 14.313 | 14.294 | 14.320 | VV | 462 | 5784 | 0 | |
| 251 | 14.326 | 14.320 | 14.335 | VV | 411 | 2324 | 0 | |
| 252 | 14.345 | 14.335 | 14.363 | VV | 590 | 6119 | 0 | |
| 253 | 14.381 | 14.363 | 14.404 | VV | 816 | 12402 | 0.12% | 0.006% |
| 254 | 14.452 | 14.404 | 14.469 | VV | 723073 | 9677506 | 92.25% | 4.664% |
| 255 | 14.496 | 14.469 | 14.520 | VV | 799606 | 9543731 | 90.97% | 4.600% |
| 256 | 14.540 | 14.520 | 14.637 | VV | 70960 | 972858 | 9.27% | 0.469% |
| 257 | 14.648 | 14.637 | 14.652 | VV | 929 | 7347 | 0.07% | 0.004% |
| 258 | 14.655 | 14.652 | 14.677 | VV | 773 | 8260 | 0.08% | 0.004% |
| 259 | 14.686 | 14.677 | 14.699 | VV | 599 | 6543 | 0.06% | 0.003% |
| 260 | 14.716 | 14.699 | 14.756 | VV | 874 | 19824 | 0.19% | 0.010% |
| 261 | 14.782 | 14.756 | 14.813 | VV | 518 | 10958 | 0.10% | 0.005% |
| 262 | 14.837 | 14.813 | 14.844 | VV | 384 | 4370 | 0.04% | 0.002% |
| 263 | 14.873 | 14.844 | 14.893 | VV | 3461 | 44989 | 0.43% | 0.022% |
| 264 | 14.918 | 14.893 | 15.035 | VV | 10267 | 252802 | 2.41% | 0.122% |
| 265 | 15.067 | 15.035 | 15.091 | VV | 3985 | 64832 | 0.62% | 0.031% |
| 266 | 15.107 | 15.091 | 15.130 | VV | 502 | 7793 | 0.07% | 0.004% |
| 267 | 15.136 | 15.130 | 15.159 | VV | 245 | 2748 | 0.03% | 0.001% |
| 268 | 15.164 | 15.159 | 15.181 | VV | 609 | 4830 | 0.05% | 0.002% |
| 269 | 15.191 | 15.181 | 15.209 | VV | 664 | 7923 | 0.08% | 0.004% |
| 270 | 15.215 | 15.209 | 15.224 | VV | 552 | 4187 | 0.04% | 0.002% |
| 271 | 15.228 | 15.224 | 15.239 | VV | 488 | 3768 | 0.04% | 0.002% |
| 272 | 15.257 | 15.239 | 15.292 | VV | 903 | 16110 | 0.15% | 0.008% |
| 273 | 15.301 | 15.292 | 15.309 | VV | 448 | 3539 | 0.03% | 0.002% |
| 274 | 15.313 | 15.309 | 15.333 | VV | 421 | 3987 | 0.04% | 0.002% |
| 275 | 15.381 | 15.333 | 15.405 | VV | 1057 | 23584 | 0.22% | 0.011% |
| 276 | 15.427 | 15.405 | 15.431 | VV | 596 | 7654 | 0.07% | 0.004% |
| 277 | 15.437 | 15.431 | 15.450 | VV | 690 | 7151 | 0.07% | 0.003% |
| 278 | 15.451 | 15.450 | 15.466 | VV | 662 | 4547 | 0.04% | 0.002% |
| 279 | 15.481 | 15.466 | 15.500 | VV | 578 | 7695 | 0.07% | 0.004% |
| 280 | 15.559 | 15.500 | 15.594 | VV | 63222 | 817695 | 7.79% | 0.394% |
| 281 | 15.606 | 15.594 | 15.610 | VV | 488 | 4005 | 0.04% | 0.002% |
| 282 | 15.620 | 15.610 | 15.665 | VV | 515 | 8275 | 0.08% | 0.004% |
| 283 | 15.711 | 15.677 | 15.745 | VV | 1025 | 18422 | 0.18% | 0.009% |
| 284 | 15.760 | 15.753 | 15.780 | VV | 280 | 3357 | 0.03% | 0.002% |
| 285 | 15.796 | 15.790 | 15.802 | VV | 307 | 1311 | 0.01% | 0.001% |
| 286 | 15.822 | 15.802 | 15.828 | PV | 237 | 2414 | 0.02% | 0.001% |
| 287 | 15.837 | 15.828 | 15.850 | VV | 298 | 2318 | 0.02% | 0.001% |
| 288 | 15.859 | 15.850 | 15.895 | VV | 258 | 5315 | 0.05% | 0.003% |
| 289 | 15.933 | 15.895 | 15.955 | VV | 1537 | 31478 | 0.30% | 0.015% |
| 290 | 16.000 | 15.955 | 16.015 | VV | 626292 | 9192845 | 87.63% | 4.431% |
| 291 | 16.036 | 16.015 | 16.092 | VV | 784162 | 9199319 | 87.69% | 4.434% |
| 292 | 16.111 | 16.092 | 16.146 | VV | 5080 | 82759 | 0.79% | 0.040% |
| 293 | 16.167 | 16.146 | 16.207 | VV | 1988 | 41315 | 0.39% | 0.020% |
| 294 | 16.214 | 16.207 | 16.232 | VV | 692 | 9803 | 0.09% | 0.005% |
| 295 | 16.253 | 16.232 | 16.283 | VV | 1815 | 31541 | 0.30% | 0.015% |
| 296 | 16.286 | 16.283 | 16.314 | VV | 637 | 8322 | 0.08% | 0.004% |
| 297 | 16.378 | 16.314 | 16.445 | VV | 679661 | 8696987 | 82.90% | 4.192% |
| 298 | 16.501 | 16.445 | 16.527 | VV | 60893 | 895067 | 8.53% | 0.431% |
| 299 | 16.543 | 16.527 | 16.568 | VV | 6377 | 86402 | 0.82% | 0.042% |

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MS

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

| | | | | | rteres | | | |
|---|---|---|---|---|---|---|---|---|
| 300 | 16.573 | 16.568 | 16.604 | VV | 981 | 13997 | 0.13% | 0.007% |
| 301 | 16.632 | 16.604 | 16.639 | VV | 500 | 8766 | | |
| 302 | 16.643 | 16.639 | 16.653 | VV | 514 | 3205 | | |
| 303 | 16.660 | 16.653 | 16.685 | VV | 539 | 7207 | | |
| 304 | 16.690 | 16.685 | 16.699 | VV | 548 | 3708 | | |
| 305 | 16.702 | 16.699 | 16.728 | VV | 464 | 4871 | | |
| 306 | 16.737 | 16.728 | 16.762 | PV | 273 | 2630 | 0.03% | 0.001% |
| 307 | 16.789 | 16.762 | 16.810 | VV | 1166 | 19818 | 0.19% | 0.010% |
| 308 | 16.815 | 16.810 | 16.839 | VV | 640 | 7426 | 0.07% | 0.004% |
| 309 | 16.870 | 16.839 | 16.895 | VV | 1407 | 28866 | 0.28% | 0.014% |
| 310 | 16.900 | 16.895 | 16.921 | VV | 674 | 8688 | 0.08% | 0.004% |
| 311 | 16.949 | 16.921 | 16.999 | VV | 2721 | 47100 | 0.45% | 0.023% |
| 312 | 17.003 | 16.999 | 17.009 | VV | 447 | 1402 | 0.01% | 0.001% |
| 313 | 17.031 | 17.009 | 17.039 | VV | 384 | 4517 | 0.04% | 0.002% |
| 314 | 17.068 | 17.039 | 17.114 | VV | 2132 | 38546 | 0.37% | 0.019% |
| 315 | 17.135 | 17.114 | 17.142 | VV | 490 | 5298 | 0.05% | 0.003% |
| 316 | 17.167 | 17.142 | 17.179 | VV | 577 | 9060 | 0.09% | 0.004% |
| 317 | 17.188 | 17.179 | 17.212 | VV | 474 | 6333 | 0.06% | 0.003% |
| 318 | 17.238 | 17.212 | 17.257 | VV | 725 | 14458 | 0.14% | 0.007% |
| 319 | 17.275 | 17.257 | 17.296 | VV | 1113 | 17439 | 0.17% | 0.008% |
| 320 | 17.303 | 17.296 | 17.321 | VV | 515 | 5958 | 0.06% | 0.003% |
| 321 | 17.334 | 17.321 | 17.341 | VV | 658 | 6076 | 0.06% | 0.003% |
| 322 | 17.387 | 17.341 | 17.448 | VV | 57183 | 768793 | 7.33% | 0.371% |
| 323 | 17.472 | 17.448 | 17.499 | VV | 1567 | 25283 | 0.24% | 0.012% |
| 324 | 17.505 | 17.499 | 17.517 | VV | 406 | 3331 | 0.03% | 0.002% |
| 325 | 17.526 | 17.517 | 17.546 | VV | 408 | 4244 | 0.04% | 0.002% |
| 326 | 17.569 | 17.546 | 17.610 | VV | 400 | 7396 | 0.07% | 0.004% |
| 327 | 17.617 | 17.610 | 17.632 | VV | 165 | 1103 | 0.01% | 0.001% |
| 328 | 17.680 | 17.645 | 17.700 | PV | 2906 | 45865 | 0.44% | 0.022% |
| 329 | 17.745 | 17.700 | 17.758 | VV | 588678 | 8606054 | 82.03% | 4.148% |
| 330 | 17.782 | 17.758 | 17.948 | VV | 620410 | 8235840 | 78.51% | 3.970% |
| 331 | 17.998 | 17.948 | 18.135 | VV | 542751 | 8240990 | 78.55% | 3.972% |
| 332 | 18.162 | 18.135 | 18.167 | PV | 100 | 1473 | 0.01% | 0.001% |

Sum of corrected areas: 207471975

Aromatic EPH 111424.M Tue Nov 19 06:20:54 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067812.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 00:17
Operator : YP/AJ
Sample : P4839-22MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 04:55:57 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... | 12.929 | 5562605 | 38.320 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 76.64% |
| | Target Compounds | | | |
| 1) T | n-Nonane (C9) | 3.273 | 4074678 | 24.981 ug/ml |
| 2) T | n-Decane (C10) | 4.335 | 5204612 | 31.385 ug/ml |
| 4) T | n-Dodecane (C12) | 6.349 | 6253642 | 37.129 ug/mlm |
| 6) T | n-Tetradecane (C14) | 8.141 | 7017284 | 41.901 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.740 | 7640714 | 44.090 ug/ml |
| 8) T | n-Octadecane (C18) | 11.180 | 7979596 | 45.354 ug/ml |
| 10) T | n-Eicosane (C20) | 12.488 | 7913424 | 46.996 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.099 | 7529880 | 45.764 ug/ml |
| 13) T | n-Docosane (C22) | 13.684 | 7418701 | 45.555 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.785 | 7224777 | 45.047 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.804 | 6985464 | 45.108 ug/ml |
| 16) T | n-Octacosane (C28) | 16.752 | 6781674 | 44.905 ug/ml |
| 17) T | n-Tricontane (C30) | 17.638 | 6578646 | 42.967 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.469 | 6357935 | 43.049 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.253 | 6213967 | 49.266 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 19.990 | 6022850 | 57.587 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.713 | 5944064 | 60.850 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.598 | 6006906 | 61.630 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

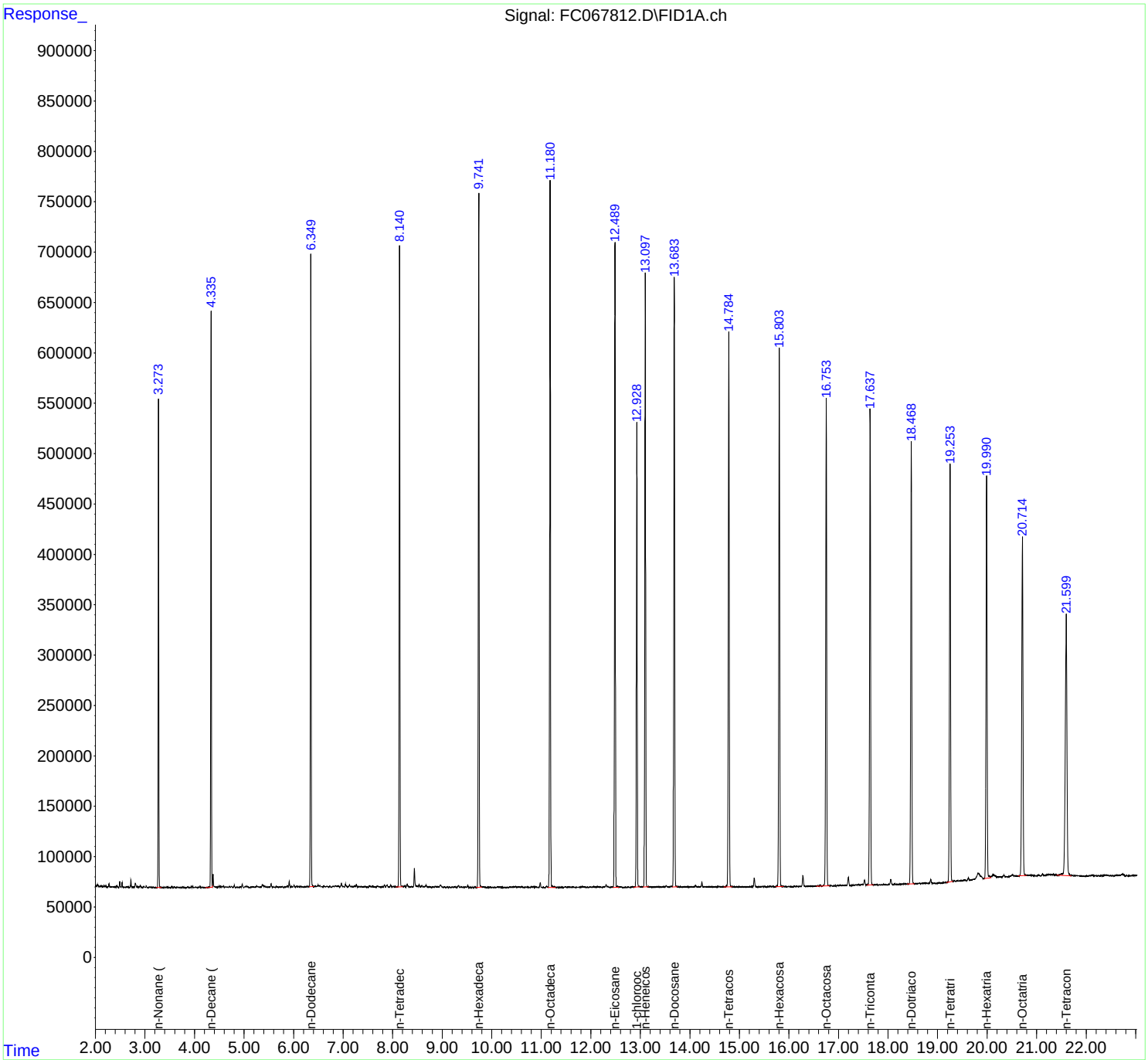
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067812.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 00:17
Operator : YP/AJ
Sample : P4839-22MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 04:55:57 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 :**
EX-4-TPH-6MSD

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11182
Data File : FC067812.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 00:17
Sample : P4839-22MSD
Misc :
ALS Vial : 22 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 | 3.273 | 3.225 | 3.351 | BV | 481292 | 4079293 | 51.13% | 3.016% |
| 2 | 3.369 | 3.351 | 3.381 | VV | 269 | 2570 | 0.03% | 0.002% |
| 3 | 3.396 | 3.381 | 3.435 | VV | 541 | 8646 | 0.11% | 0.006% |
| 4 | 3.449 | 3.435 | 3.461 | VV | 413 | 4907 | 0.06% | 0.004% |
| 5 | 3.473 | 3.461 | 3.501 | VV | 515 | 5903 | 0.07% | 0.004% |
| 6 | 3.547 | 3.501 | 3.568 | VV | 726 | 12101 | 0.15% | 0.009% |
| 7 | 3.596 | 3.568 | 3.621 | VV | 636 | 11645 | 0.15% | 0.009% |
| 8 | 3.645 | 3.621 | 3.687 | VV | 494 | 13372 | 0.17% | 0.010% |
| 9 | 3.714 | 3.687 | 3.747 | VV | 412 | 11094 | 0.14% | 0.008% |
| 10 | 3.762 | 3.747 | 3.798 | VV | 561 | 9069 | 0.11% | 0.007% |
| 11 | 3.808 | 3.798 | 3.824 | VV | 271 | 2422 | 0.03% | 0.002% |
| 12 | 3.857 | 3.824 | 3.871 | PV | 505 | 8218 | 0.10% | 0.006% |
| 13 | 3.876 | 3.871 | 3.908 | VV | 416 | 4739 | 0.06% | 0.004% |
| 14 | 3.937 | 3.908 | 3.951 | VV | 1141 | 14598 | 0.18% | 0.011% |
| 15 | 3.964 | 3.951 | 3.985 | VV | 1341 | 14196 | 0.18% | 0.010% |
| 16 | 3.999 | 3.985 | 4.018 | VV | 546 | 7894 | 0.10% | 0.006% |
| 17 | 4.031 | 4.018 | 4.053 | VV | 928 | 10481 | 0.13% | 0.008% |
| 18 | 4.110 | 4.053 | 4.127 | VV | 845 | 20347 | 0.26% | 0.015% |
| 19 | 4.140 | 4.127 | 4.168 | VV | 541 | 9053 | 0.11% | 0.007% |
| 20 | 4.177 | 4.168 | 4.215 | VV | 443 | 6108 | 0.08% | 0.005% |
| 21 | 4.250 | 4.215 | 4.271 | VV | 676 | 11330 | 0.14% | 0.008% |
| 22 | 4.288 | 4.271 | 4.308 | VV | 515 | 8981 | 0.11% | 0.007% |
| 23 | 4.335 | 4.308 | 4.360 | VV | 566947 | 5201675 | 65.19% | 3.846% |
| 24 | 4.375 | 4.360 | 4.424 | VV | 13463 | 148720 | 1.86% | 0.110% |
| 25 | 4.440 | 4.424 | 4.461 | VV | 714 | 13398 | 0.17% | 0.010% |
| 26 | 4.502 | 4.461 | 4.517 | VV | 1459 | 30227 | 0.38% | 0.022% |
| 27 | 4.531 | 4.517 | 4.543 | VV | 1465 | 17356 | 0.22% | 0.013% |
| 28 | 4.556 | 4.543 | 4.572 | VV | 1554 | 18381 | 0.23% | 0.014% |
| 29 | 4.587 | 4.572 | 4.603 | VV | 2248 | 23741 | 0.30% | 0.018% |
| 30 | 4.615 | 4.603 | 4.628 | VV | 916 | 10618 | 0.13% | 0.008% |
| 31 | 4.643 | 4.628 | 4.651 | VV | 785 | 9885 | 0.12% | 0.007% |
| 32 | 4.661 | 4.651 | 4.674 | VV | 845 | 9430 | 0.12% | 0.007% |
| 33 | 4.706 | 4.674 | 4.723 | VV | 1262 | 23092 | 0.29% | 0.017% |
| 34 | 4.744 | 4.723 | 4.781 | VV | 1258 | 25973 | 0.33% | 0.019% |
| 35 | 4.802 | 4.781 | 4.835 | VV | 2365 | 32178 | 0.40% | 0.024% |
| 36 | 4.851 | 4.835 | 4.869 | VV | 547 | 9066 | 0.11% | 0.007% |

9

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 4.890 | 4.869 | 4.906 | VV | 599 | 9401 | 0.12% | 0.007% |
| 38 | 4.965 | 4.906 | 4.996 | VV | 3524 | 64356 | | |
| 39 | 5.020 | 4.996 | 5.035 | VV | 1529 | 19088 | | |
| 40 | 5.048 | 5.035 | 5.062 | VV | 1448 | 16492 | | |
| 41 | 5.073 | 5.062 | 5.115 | VV | 973 | 21151 | | |
| 42 | 5.139 | 5.115 | 5.149 | VV | 633 | 10795 | | |
| 43 | 5.165 | 5.149 | 5.211 | VV | 808 | 24099 | 0.30% | 0.018% |
| 44 | 5.227 | 5.211 | 5.238 | VV | 729 | 9648 | 0.12% | 0.007% |
| 45 | 5.257 | 5.238 | 5.273 | VV | 2087 | 25616 | 0.32% | 0.019% |
| 46 | 5.284 | 5.273 | 5.338 | VV | 1120 | 28690 | 0.36% | 0.021% |
| 47 | 5.368 | 5.338 | 5.378 | VV | 2964 | 37200 | 0.47% | 0.028% |
| 48 | 5.389 | 5.378 | 5.453 | VV | 2741 | 65639 | 0.82% | 0.049% |
| 49 | 5.460 | 5.453 | 5.474 | VV | 730 | 7947 | 0.10% | 0.006% |
| 50 | 5.488 | 5.474 | 5.517 | VV | 856 | 15912 | 0.20% | 0.012% |
| 51 | 5.546 | 5.517 | 5.578 | VV | 3947 | 55739 | 0.70% | 0.041% |
| 52 | 5.615 | 5.578 | 5.636 | VV | 779 | 23136 | 0.29% | 0.017% |
| 53 | 5.655 | 5.636 | 5.692 | VV | 1053 | 25789 | 0.32% | 0.019% |
| 54 | 5.715 | 5.692 | 5.744 | VV | 908 | 21657 | 0.27% | 0.016% |
| 55 | 5.772 | 5.744 | 5.801 | VV | 1175 | 26217 | 0.33% | 0.019% |
| 56 | 5.820 | 5.801 | 5.839 | VV | 880 | 14719 | 0.18% | 0.011% |
| 57 | 5.875 | 5.839 | 5.892 | VV | 1707 | 33617 | 0.42% | 0.025% |
| 58 | 5.913 | 5.892 | 5.945 | VV | 6152 | 81541 | 1.02% | 0.060% |
| 59 | 5.961 | 5.945 | 5.981 | VV | 1290 | 21627 | 0.27% | 0.016% |
| 60 | 6.009 | 5.981 | 6.033 | VV | 2246 | 40341 | 0.51% | 0.030% |
| 61 | 6.065 | 6.033 | 6.078 | VV | 1389 | 30078 | 0.38% | 0.022% |
| 62 | 6.093 | 6.078 | 6.118 | VV | 1284 | 25749 | 0.32% | 0.019% |
| 63 | 6.154 | 6.118 | 6.173 | VV | 1422 | 34726 | 0.44% | 0.026% |
| 64 | 6.180 | 6.173 | 6.202 | VV | 823 | 13096 | 0.16% | 0.010% |
| 65 | 6.228 | 6.202 | 6.245 | VV | 1295 | 25358 | 0.32% | 0.019% |
| 66 | 6.272 | 6.245 | 6.288 | VV | 1449 | 28841 | 0.36% | 0.021% |
| 67 | 6.300 | 6.288 | 6.314 | VV | 1351 | 18153 | 0.23% | 0.013% |
| 68 | 6.349 | 6.314 | 6.415 | VV | 621306 | 6316774 | 79.17% | 4.671% |
| 69 | 6.433 | 6.415 | 6.451 | VV | 1795 | 29707 | 0.37% | 0.022% |
| 70 | 6.496 | 6.451 | 6.517 | VV | 2583 | 63147 | 0.79% | 0.047% |
| 71 | 6.533 | 6.517 | 6.555 | VV | 2369 | 36928 | 0.46% | 0.027% |
| 72 | 6.569 | 6.555 | 6.592 | VV | 1196 | 20765 | 0.26% | 0.015% |
| 73 | 6.613 | 6.592 | 6.641 | VV | 1299 | 30247 | 0.38% | 0.022% |
| 74 | 6.674 | 6.641 | 6.694 | VV | 1641 | 36634 | 0.46% | 0.027% |
| 75 | 6.709 | 6.694 | 6.716 | VV | 936 | 11397 | 0.14% | 0.008% |
| 76 | 6.731 | 6.716 | 6.761 | VV | 1221 | 26165 | 0.33% | 0.019% |
| 77 | 6.801 | 6.761 | 6.822 | VV | 1442 | 37579 | 0.47% | 0.028% |
| 78 | 6.841 | 6.822 | 6.854 | VV | 2031 | 28790 | 0.36% | 0.021% |
| 79 | 6.867 | 6.854 | 6.880 | VV | 1674 | 23412 | 0.29% | 0.017% |
| 80 | 6.903 | 6.880 | 6.930 | VV | 1769 | 40414 | 0.51% | 0.030% |
| 81 | 6.966 | 6.930 | 7.024 | VV | 4220 | 91110 | 1.14% | 0.067% |
| 82 | 7.048 | 7.024 | 7.088 | VV | 3426 | 65823 | 0.82% | 0.049% |
| 83 | 7.101 | 7.088 | 7.111 | VV | 1164 | 13452 | 0.17% | 0.010% |
| 84 | 7.129 | 7.111 | 7.161 | VV | 2978 | 50834 | 0.64% | 0.038% |
| 85 | 7.176 | 7.161 | 7.201 | VV | 1048 | 22912 | 0.29% | 0.017% |
| 86 | 7.233 | 7.201 | 7.247 | VV | 1414 | 32085 | 0.40% | 0.024% |
| 87 | 7.269 | 7.247 | 7.295 | VV | 3348 | 52683 | 0.66% | 0.039% |
| 88 | 7.334 | 7.295 | 7.344 | VV | 1134 | 28737 | 0.36% | 0.021% |
| 89 | 7.357 | 7.344 | 7.378 | VV | 1277 | 20137 | 0.25% | 0.015% |

9

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

rteres

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 90 | 7.401 | 7.378 | 7.414 | VV | 897 | 18030 | 0.23% | 0.013% |
| 91 | 7.442 | 7.414 | 7.507 | VV | 1226 | 47106 | | |
| 92 | 7.529 | 7.507 | 7.543 | VV | 1704 | 24737 | | |
| 93 | 7.554 | 7.543 | 7.625 | VV | 1346 | 49108 | | |
| 94 | 7.644 | 7.625 | 7.662 | VV | 863 | 16855 | | |
| 95 | 7.695 | 7.662 | 7.713 | VV | 1595 | 32875 | | |
| 96 | 7.744 | 7.713 | 7.768 | VV | 1076 | 28254 | 0.35% | 0.021% |
| 97 | 7.791 | 7.768 | 7.807 | VV | 947 | 19308 | 0.24% | 0.014% |
| 98 | 7.835 | 7.807 | 7.855 | VV | 2733 | 43984 | 0.55% | 0.033% |
| 99 | 7.889 | 7.855 | 7.917 | VV | 2739 | 57477 | 0.72% | 0.043% |
| 100 | 7.960 | 7.917 | 7.989 | VV | 2614 | 54848 | 0.69% | 0.041% |
| 101 | 8.014 | 7.989 | 8.030 | VV | 1146 | 25503 | 0.32% | 0.019% |
| 102 | 8.046 | 8.030 | 8.068 | VV | 1522 | 24921 | 0.31% | 0.018% |
| 103 | 8.095 | 8.068 | 8.104 | VV | 863 | 17365 | 0.22% | 0.013% |
| 104 | 8.141 | 8.104 | 8.207 | VV | 640141 | 7068650 | 88.59% | 5.227% |
| 105 | 8.242 | 8.207 | 8.268 | VV | 2117 | 48443 | 0.61% | 0.036% |
| 106 | 8.295 | 8.268 | 8.318 | VV | 3610 | 54890 | 0.69% | 0.041% |
| 107 | 8.327 | 8.318 | 8.361 | VV | 1003 | 21560 | 0.27% | 0.016% |
| 108 | 8.375 | 8.361 | 8.413 | VV | 1043 | 25525 | 0.32% | 0.019% |
| 109 | 8.441 | 8.413 | 8.508 | VV | 19080 | 256988 | 3.22% | 0.190% |
| 110 | 8.537 | 8.508 | 8.570 | VV | 2959 | 58435 | 0.73% | 0.043% |
| 111 | 8.591 | 8.570 | 8.615 | VV | 2331 | 37281 | 0.47% | 0.028% |
| 112 | 8.628 | 8.615 | 8.640 | VV | 1150 | 15726 | 0.20% | 0.012% |
| 113 | 8.675 | 8.640 | 8.723 | VV | 2209 | 58076 | 0.73% | 0.043% |
| 114 | 8.745 | 8.723 | 8.772 | VV | 781 | 17262 | 0.22% | 0.013% |
| 115 | 8.793 | 8.772 | 8.809 | VV | 610 | 10341 | 0.13% | 0.008% |
| 116 | 8.821 | 8.809 | 8.838 | VV | 525 | 8035 | 0.10% | 0.006% |
| 117 | 8.858 | 8.838 | 8.881 | VV | 1448 | 24992 | 0.31% | 0.018% |
| 118 | 8.895 | 8.881 | 8.909 | VV | 1199 | 15245 | 0.19% | 0.011% |
| 119 | 8.917 | 8.909 | 8.941 | VV | 785 | 14542 | 0.18% | 0.011% |
| 120 | 8.971 | 8.941 | 9.026 | VV | 2323 | 60190 | 0.75% | 0.045% |
| 121 | 9.046 | 9.026 | 9.070 | VV | 800 | 13007 | 0.16% | 0.010% |
| 122 | 9.095 | 9.070 | 9.128 | VV | 471 | 9562 | 0.12% | 0.007% |
| 123 | 9.144 | 9.128 | 9.158 | VV | 362 | 5230 | 0.07% | 0.004% |
| 124 | 9.198 | 9.158 | 9.211 | VV | 474 | 11617 | 0.15% | 0.009% |
| 125 | 9.217 | 9.211 | 9.231 | VV | 434 | 4067 | 0.05% | 0.003% |
| 126 | 9.260 | 9.231 | 9.300 | VV | 986 | 20073 | 0.25% | 0.015% |
| 127 | 9.327 | 9.300 | 9.361 | VV | 2132 | 37378 | 0.47% | 0.028% |
| 128 | 9.377 | 9.361 | 9.413 | VV | 917 | 14545 | 0.18% | 0.011% |
| 129 | 9.423 | 9.413 | 9.441 | VV | 424 | 4960 | 0.06% | 0.004% |
| 130 | 9.469 | 9.441 | 9.493 | VV | 774 | 14716 | 0.18% | 0.011% |
| 131 | 9.517 | 9.493 | 9.548 | VV | 2561 | 30743 | 0.39% | 0.023% |
| 132 | 9.576 | 9.548 | 9.595 | VV | 299 | 4183 | 0.05% | 0.003% |
| 133 | 9.607 | 9.595 | 9.622 | VV | 155 | 1943 | 0.02% | 0.001% |
| 134 | 9.657 | 9.622 | 9.696 | VV | 588 | 12813 | 0.16% | 0.009% |
| 135 | 9.740 | 9.696 | 9.881 | VV | 697421 | 7680963 | 96.26% | 5.680% |
| 136 | 9.908 | 9.881 | 9.941 | VV | 318 | 7845 | 0.10% | 0.006% |
| 137 | 9.962 | 9.941 | 9.981 | VV | 592 | 7592 | 0.10% | 0.006% |
| 138 | 10.013 | 9.981 | 10.032 | VV | 223 | 3923 | 0.05% | 0.003% |
| 139 | 10.058 | 10.032 | 10.098 | PV | 290 | 7488 | 0.09% | 0.006% |
| 140 | 10.126 | 10.098 | 10.144 | VV | 805 | 13422 | 0.17% | 0.010% |
| 141 | 10.161 | 10.144 | 10.186 | VV | 529 | 9165 | 0.11% | 0.007% |

9

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

A B C D E F G H I J

| | | | | | rteres | | | |
|---|---|---|---|---|---|---|---|---|
| 142 | 10.217 | 10.186 | 10.235 | VV | 329 | 6413 | 0.08% | 0.005% |
| 143 | 10.257 | 10.235 | 10.299 | VV | 219 | 5182 | | |
| 144 | 10.335 | 10.299 | 10.351 | VV | 353 | 5811 | | |
| 145 | 10.368 | 10.351 | 10.388 | VV | 423 | 7729 | | |
| 146 | 10.407 | 10.388 | 10.437 | VV | 553 | 14815 | | |
| 147 | 10.447 | 10.437 | 10.457 | VV | 589 | 5908 | | |
| 148 | 10.474 | 10.457 | 10.514 | VV | 917 | 20012 | 0.25% | 0.015% |
| 149 | 10.544 | 10.514 | 10.576 | VV | 646 | 17107 | 0.21% | 0.013% |
| 150 | 10.601 | 10.576 | 10.639 | VV | 1057 | 18823 | 0.24% | 0.014% |
| 151 | 10.645 | 10.639 | 10.652 | VV | 217 | 1427 | 0.02% | 0.001% |
| 152 | 10.666 | 10.652 | 10.685 | VV | 222 | 3918 | 0.05% | 0.003% |
| 153 | 10.691 | 10.685 | 10.708 | VV | 311 | 3133 | 0.04% | 0.002% |
| 154 | 10.727 | 10.708 | 10.770 | VV | 652 | 14372 | 0.18% | 0.011% |
| 155 | 10.799 | 10.770 | 10.823 | VV | 1014 | 17472 | 0.22% | 0.013% |
| 156 | 10.846 | 10.823 | 10.872 | VV | 1072 | 16969 | 0.21% | 0.013% |
| 157 | 10.897 | 10.872 | 10.915 | VV | 581 | 10700 | 0.13% | 0.008% |
| 158 | 10.925 | 10.915 | 10.950 | VV | 327 | 4730 | 0.06% | 0.003% |
| 159 | 10.980 | 10.950 | 11.022 | VV | 4776 | 60330 | 0.76% | 0.045% |
| 160 | 11.038 | 11.022 | 11.085 | VV | 174 | 3021 | 0.04% | 0.002% |
| 161 | 11.107 | 11.085 | 11.138 | PV | 1345 | 19473 | 0.24% | 0.014% |
| 162 | 11.180 | 11.138 | 11.256 | VV | 702160 | 7978995 | 100.00% | 5.900% |
| 163 | 11.268 | 11.256 | 11.315 | VV | 704 | 13624 | 0.17% | 0.010% |
| 164 | 11.330 | 11.315 | 11.355 | VV | 249 | 3556 | 0.04% | 0.003% |
| 165 | 11.390 | 11.355 | 11.427 | VV | 191 | 4178 | 0.05% | 0.003% |
| 166 | 11.487 | 11.427 | 11.512 | VV | 1000 | 18173 | 0.23% | 0.013% |
| 167 | 11.530 | 11.512 | 11.548 | VV | 309 | 5361 | 0.07% | 0.004% |
| 168 | 11.564 | 11.548 | 11.608 | VV | 557 | 11351 | 0.14% | 0.008% |
| 169 | 11.632 | 11.608 | 11.678 | VV | 566 | 14349 | 0.18% | 0.011% |
| 170 | 11.745 | 11.678 | 11.758 | VV | 296 | 9803 | 0.12% | 0.007% |
| 171 | 11.838 | 11.758 | 11.865 | VV | 917 | 31846 | 0.40% | 0.024% |
| 172 | 11.888 | 11.865 | 11.908 | VV | 371 | 7476 | 0.09% | 0.006% |
| 173 | 11.934 | 11.908 | 11.958 | VV | 315 | 6497 | 0.08% | 0.005% |
| 174 | 11.981 | 11.958 | 11.995 | VV | 353 | 6490 | 0.08% | 0.005% |
| 175 | 11.998 | 11.995 | 12.023 | VV | 363 | 4395 | 0.06% | 0.003% |
| 176 | 12.058 | 12.023 | 12.101 | VV | 873 | 23762 | 0.30% | 0.018% |
| 177 | 12.122 | 12.101 | 12.151 | VV | 684 | 15556 | 0.19% | 0.012% |
| 178 | 12.172 | 12.151 | 12.238 | VV | 613 | 17976 | 0.23% | 0.013% |
| 179 | 12.309 | 12.238 | 12.335 | VV | 2741 | 54009 | 0.68% | 0.040% |
| 180 | 12.344 | 12.335 | 12.375 | VV | 1002 | 13236 | 0.17% | 0.010% |
| 181 | 12.423 | 12.375 | 12.445 | VV | 957 | 14959 | 0.19% | 0.011% |
| 182 | 12.488 | 12.445 | 12.595 | VV | 639596 | 7931298 | 99.40% | 5.865% |
| 183 | 12.600 | 12.595 | 12.698 | VV | 388 | 9452 | 0.12% | 0.007% |
| 184 | 12.735 | 12.698 | 12.748 | PV | 271 | 4415 | 0.06% | 0.003% |
| 185 | 12.760 | 12.748 | 12.795 | VV | 273 | 4582 | 0.06% | 0.003% |
| 186 | 12.833 | 12.795 | 12.864 | VV | 775 | 14434 | 0.18% | 0.011% |
| 187 | 12.929 | 12.864 | 13.026 | VV | 453357 | 5606334 | 70.26% | 4.146% |
| 188 | 13.039 | 13.026 | 13.056 | VV | 549 | 8597 | 0.11% | 0.006% |
| 189 | 13.099 | 13.056 | 13.215 | VV | 611109 | 7570848 | 94.88% | 5.598% |
| 190 | 13.224 | 13.215 | 13.274 | VV | 384 | 9616 | 0.12% | 0.007% |
| 191 | 13.308 | 13.274 | 13.325 | VV | 491 | 10727 | 0.13% | 0.008% |
| 192 | 13.368 | 13.325 | 13.417 | VV | 501 | 18437 | 0.23% | 0.014% |
| 193 | 13.438 | 13.417 | 13.458 | VV | 343 | 6209 | 0.08% | 0.005% |
| 194 | 13.471 | 13.458 | 13.495 | VV | 624 | 9576 | 0.12% | 0.007% |

9

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

rteres

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.523 | 13.495 | 13.563 | VV | 1641 | 28325 | 0.35% | 0.021% |
| 196 | 13.575 | 13.563 | 13.600 | VV | 321 | 6054 | | |
| 197 | 13.627 | 13.600 | 13.643 | VV | 1008 | 15839 | | |
| 198 | 13.684 | 13.643 | 13.766 | VV | 608928 | 7446863 | 93 | |
| 199 | 13.773 | 13.766 | 13.795 | VV | 480 | 6477 | | |
| 200 | 13.802 | 13.795 | 13.845 | VV | 352 | 6832 | | |
| 201 | 13.899 | 13.845 | 13.955 | VV | 298 | 14381 | 0.18% | 0.011% |
| 202 | 13.972 | 13.955 | 13.991 | VV | 223 | 3716 | 0.05% | 0.003% |
| 203 | 14.014 | 13.991 | 14.056 | VV | 258 | 7707 | 0.10% | 0.006% |
| 204 | 14.079 | 14.056 | 14.083 | VV | 228 | 3063 | 0.04% | 0.002% |
| 205 | 14.115 | 14.083 | 14.148 | VV | 1616 | 27361 | 0.34% | 0.020% |
| 206 | 14.241 | 14.148 | 14.285 | VV | 4812 | 72969 | 0.91% | 0.054% |
| 207 | 14.306 | 14.285 | 14.357 | VV | 403 | 12371 | 0.16% | 0.009% |
| 208 | 14.380 | 14.357 | 14.421 | VV | 403 | 10886 | 0.14% | 0.008% |
| 209 | 14.443 | 14.421 | 14.458 | VV | 274 | 4655 | 0.06% | 0.003% |
| 210 | 14.485 | 14.458 | 14.511 | VV | 263 | 7158 | 0.09% | 0.005% |
| 211 | 14.560 | 14.511 | 14.608 | VV | 385 | 15122 | 0.19% | 0.011% |
| 212 | 14.622 | 14.608 | 14.658 | VV | 330 | 6641 | 0.08% | 0.005% |
| 213 | 14.665 | 14.658 | 14.681 | VV | 193 | 2419 | 0.03% | 0.002% |
| 214 | 14.785 | 14.681 | 14.898 | VV | 548457 | 7254673 | 90.92% | 5.365% |
| 215 | 14.904 | 14.898 | 14.916 | VV | 249 | 1604 | 0.02% | 0.001% |
| 216 | 14.956 | 14.916 | 14.970 | VV | 220 | 4746 | 0.06% | 0.004% |
| 217 | 14.986 | 14.970 | 15.005 | VV | 235 | 3253 | 0.04% | 0.002% |
| 218 | 15.024 | 15.005 | 15.041 | VV | 187 | 2328 | 0.03% | 0.002% |
| 219 | 15.117 | 15.041 | 15.147 | VV | 182 | 5199 | 0.07% | 0.004% |
| 220 | 15.207 | 15.147 | 15.231 | PV | 274 | 4277 | 0.05% | 0.003% |
| 221 | 15.299 | 15.231 | 15.411 | PV | 8755 | 125000 | 1.57% | 0.092% |
| 222 | 15.481 | 15.411 | 15.498 | PV | 279 | 4719 | 0.06% | 0.003% |
| 223 | 15.517 | 15.498 | 15.538 | VV | 132 | 1959 | 0.02% | 0.001% |
| 224 | 15.548 | 15.538 | 15.561 | VV | 151 | 1112 | 0.01% | 0.001% |
| 225 | 15.589 | 15.561 | 15.601 | VV | 238 | 3568 | 0.04% | 0.003% |
| 226 | 15.619 | 15.601 | 15.650 | VV | 429 | 8996 | 0.11% | 0.007% |
| 227 | 15.680 | 15.650 | 15.731 | VV | 317 | 9362 | 0.12% | 0.007% |
| 228 | 15.804 | 15.731 | 15.912 | VV | 522824 | 6994905 | 87.67% | 5.172% |
| 229 | 15.922 | 15.912 | 15.931 | VV | 190 | 1901 | 0.02% | 0.001% |
| 230 | 15.935 | 15.931 | 15.957 | VV | 226 | 2172 | 0.03% | 0.002% |
| 231 | 15.977 | 15.957 | 16.028 | VV | 182 | 6555 | 0.08% | 0.005% |
| 232 | 16.045 | 16.028 | 16.066 | VV | 104 | 1624 | 0.02% | 0.001% |
| 233 | 16.109 | 16.066 | 16.133 | PV | 399 | 7994 | 0.10% | 0.006% |
| 234 | 16.158 | 16.133 | 16.211 | VV | 359 | 7323 | 0.09% | 0.005% |
| 235 | 16.282 | 16.211 | 16.352 | PV | 10737 | 164155 | 2.06% | 0.121% |
| 236 | 16.361 | 16.352 | 16.380 | VV | 132 | 1636 | 0.02% | 0.001% |
| 237 | 16.394 | 16.380 | 16.415 | VV | 173 | 2147 | 0.03% | 0.002% |
| 238 | 16.441 | 16.415 | 16.468 | VV | 248 | 4274 | 0.05% | 0.003% |
| 239 | 16.502 | 16.468 | 16.547 | VV | 187 | 5183 | 0.06% | 0.004% |
| 240 | 16.582 | 16.547 | 16.603 | VV | 526 | 8825 | 0.11% | 0.007% |
| 241 | 16.633 | 16.603 | 16.684 | VV | 710 | 20552 | 0.26% | 0.015% |
| 242 | 16.752 | 16.684 | 16.817 | VV | 477857 | 6767631 | 84.82% | 5.004% |
| 243 | 16.831 | 16.817 | 16.926 | VV | 369 | 11230 | 0.14% | 0.008% |
| 244 | 16.980 | 16.926 | 17.007 | VV | 327 | 8619 | 0.11% | 0.006% |
| 245 | 17.041 | 17.007 | 17.062 | VV | 493 | 11254 | 0.14% | 0.008% |
| 246 | 17.086 | 17.062 | 17.117 | VV | 475 | 9141 | 0.11% | 0.007% |

9

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

A B C D E F G H I J

| | | | | | rteres | | | |
|---|---|---|---|---|---|---|---|---|
| 247 | 17.198 | 17.117 | 17.245 | VV | 8311 | 137742 | 1.73% | 0.102% |
| 248 | 17.254 | 17.245 | 17.268 | VV | 93 | 1489 | | |
| 249 | 17.308 | 17.268 | 17.335 | VV | 514 | 13554 | | |
| 250 | 17.364 | 17.335 | 17.378 | VV | 586 | 13130 | | |
| 251 | 17.403 | 17.378 | 17.444 | VV | 699 | 23993 | | |
| 252 | 17.480 | 17.444 | 17.496 | VV | 988 | 23220 | | |
| 253 | 17.525 | 17.496 | 17.565 | VV | 5272 | 88148 | 1.10% | 0.065% |
| 254 | 17.638 | 17.565 | 17.743 | VV | 470884 | 6611872 | 82.87% | 4.889% |
| 255 | 17.767 | 17.743 | 17.835 | VV | 468 | 14204 | 0.18% | 0.011% |
| 256 | 17.910 | 17.835 | 17.938 | PV | 559 | 13516 | 0.17% | 0.010% |
| 257 | 17.947 | 17.938 | 17.996 | VV | 287 | 4924 | 0.06% | 0.004% |
| 258 | 18.056 | 17.996 | 18.095 | VV | 5388 | 88653 | 1.11% | 0.066% |
| 259 | 18.135 | 18.095 | 18.161 | VV | 618 | 12657 | 0.16% | 0.009% |
| 260 | 18.171 | 18.161 | 18.178 | VV | 187 | 1481 | 0.02% | 0.001% |
| 261 | 18.202 | 18.178 | 18.210 | VV | 168 | 2929 | 0.04% | 0.002% |
| 262 | 18.270 | 18.210 | 18.295 | VV | 301 | 11463 | 0.14% | 0.008% |
| 263 | 18.317 | 18.295 | 18.341 | VV | 509 | 10544 | 0.13% | 0.008% |
| 264 | 18.364 | 18.341 | 18.399 | VV | 403 | 9601 | 0.12% | 0.007% |
| 265 | 18.469 | 18.399 | 18.538 | VV | 436264 | 6383444 | 80.00% | 4.720% |
| 266 | 18.548 | 18.538 | 18.578 | VV | 452 | 9379 | 0.12% | 0.007% |
| 267 | 18.615 | 18.578 | 18.678 | VV | 492 | 22575 | 0.28% | 0.017% |
| 268 | 18.722 | 18.678 | 18.743 | VV | 653 | 17870 | 0.22% | 0.013% |
| 269 | 18.767 | 18.743 | 18.807 | VV | 566 | 15290 | 0.19% | 0.011% |
| 270 | 18.863 | 18.807 | 18.941 | VV | 4066 | 75551 | 0.95% | 0.056% |
| 271 | 18.949 | 18.941 | 18.965 | PV | 93 | 935 | 0.01% | 0.001% |
| 272 | 19.036 | 18.965 | 19.075 | VV | 541 | 12664 | 0.16% | 0.009% |
| 273 | 19.111 | 19.075 | 19.130 | PV | 385 | 8190 | 0.10% | 0.006% |
| 274 | 19.162 | 19.130 | 19.172 | VV | 427 | 8941 | 0.11% | 0.007% |
| 275 | 19.253 | 19.172 | 19.318 | VV | 406558 | 6286744 | 78.79% | 4.649% |
| 276 | 19.338 | 19.318 | 19.370 | VV | 1680 | 46287 | 0.58% | 0.034% |
| 277 | 19.407 | 19.370 | 19.428 | VV | 1602 | 48816 | 0.61% | 0.036% |
| 278 | 19.489 | 19.428 | 19.509 | VV | 1521 | 68319 | 0.86% | 0.051% |
| 279 | 19.548 | 19.509 | 19.585 | VV | 2077 | 77121 | 0.97% | 0.057% |
| 280 | 19.622 | 19.585 | 19.653 | VV | 3659 | 95939 | 1.20% | 0.071% |
| 281 | 19.819 | 19.653 | 19.938 | VV | 7961 | 669439 | 8.39% | 0.495% |
| 282 | 19.990 | 19.938 | 20.071 | VV | 401511 | 6234659 | 78.14% | 4.610% |
| 283 | 20.129 | 20.071 | 20.233 | VV | 5911 | 433505 | 5.43% | 0.321% |
| 284 | 20.248 | 20.233 | 20.255 | VV | 3351 | 44736 | 0.56% | 0.033% |
| 285 | 20.263 | 20.255 | 20.278 | VV | 3338 | 44321 | 0.56% | 0.033% |
| 286 | 20.339 | 20.278 | 20.381 | VV | 5140 | 231835 | 2.91% | 0.171% |
| 287 | 20.396 | 20.381 | 20.418 | VV | 3416 | 73298 | 0.92% | 0.054% |
| 288 | 20.514 | 20.418 | 20.588 | VV | 4846 | 387431 | 4.86% | 0.286% |
| 289 | 20.609 | 20.588 | 20.617 | VV | 3602 | 62366 | 0.78% | 0.046% |
| 290 | 20.713 | 20.617 | 20.801 | VV | 341085 | 6345517 | 79.53% | 4.692% |
| 291 | 20.810 | 20.801 | 20.838 | VV | 3876 | 82366 | 1.03% | 0.061% |
| 292 | 20.859 | 20.838 | 20.988 | VV | 3664 | 292986 | 3.67% | 0.217% |
| 293 | 21.035 | 20.988 | 21.083 | VV | 3465 | 171273 | 2.15% | 0.127% |
| 294 | 21.120 | 21.083 | 21.161 | VV | 3823 | 146103 | 1.83% | 0.108% |
| 295 | 21.249 | 21.161 | 21.265 | VV | 3448 | 193997 | 2.43% | 0.143% |
| 296 | 21.277 | 21.265 | 21.294 | VV | 3315 | 56144 | 0.70% | 0.042% |
| 297 | 21.312 | 21.294 | 21.437 | VV | 3302 | 243705 | 3.05% | 0.180% |
| 298 | 21.598 | 21.437 | 21.801 | VV | 259176 | 6346288 | 79.54% | 4.693% |
| 299 | 21.817 | 21.801 | 21.955 | VV | 926 | 48310 | 0.61% | 0.036% |

9

**Instrument :**
FID_C
**ClientSampleId :**
EX-4-TPH-6MSD

```
                                        rteres
 300 21.977  21.955  21.992  VV      161      1924   0.02%  0.001%

                        Sum of corrected areas:   1352

Aliphatic EPH 111424.M Tue Nov 19 05:25:50 2024
```

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

A B C D E F G H I J

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048771.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 00:17
Operator : YP/AJ
Sample : P4839-22MSD
Misc :
ALS Vial : 72 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:45 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 | 8969471 | 50.946 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 101.89% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.217 | 5798672 | 50.349 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 100.70% |
| 11) S | ortho-Terphenyl (SURR) | 11.252 | 7428539 | 38.623 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 77.25% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.189 | 6923954 | 36.739 ug/ml |
| 2) T | Naphthalene (C11.7) | 5.706 | 8056151 | 41.192 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 6.753 | 7956887 | 41.636 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.020 | 9254488 | 47.722 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.316 | 9889760 | 51.417 ug/ml |
| 8) T | Flouorene (C16.55) | 9.094 | 9947391 | 51.849 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.482 | 10226984 | 55.793 ug/ml |
| 10) T | Anthracene (C19.43) | 10.559 | 10224393 | 54.597 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.289 | 10443203 | 57.029 ug/mlm |
| 13) T | Pyrene (C20.8) | 12.583 | 10226558 | 56.565 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.453 | 9664307 | 58.749 ug/ml |
| 15) T | Chrysene (C27.41) | 14.497 | 9525573 | 54.428 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.001 | 9229697 | 58.744 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.036 | 9076756 | 55.619 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.377 | 8602414 | 57.697 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 17.745 | 8630374 | 69.865 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 17.782 | 8113945 | 51.743 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 17.997 | 8210524 | 57.542 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

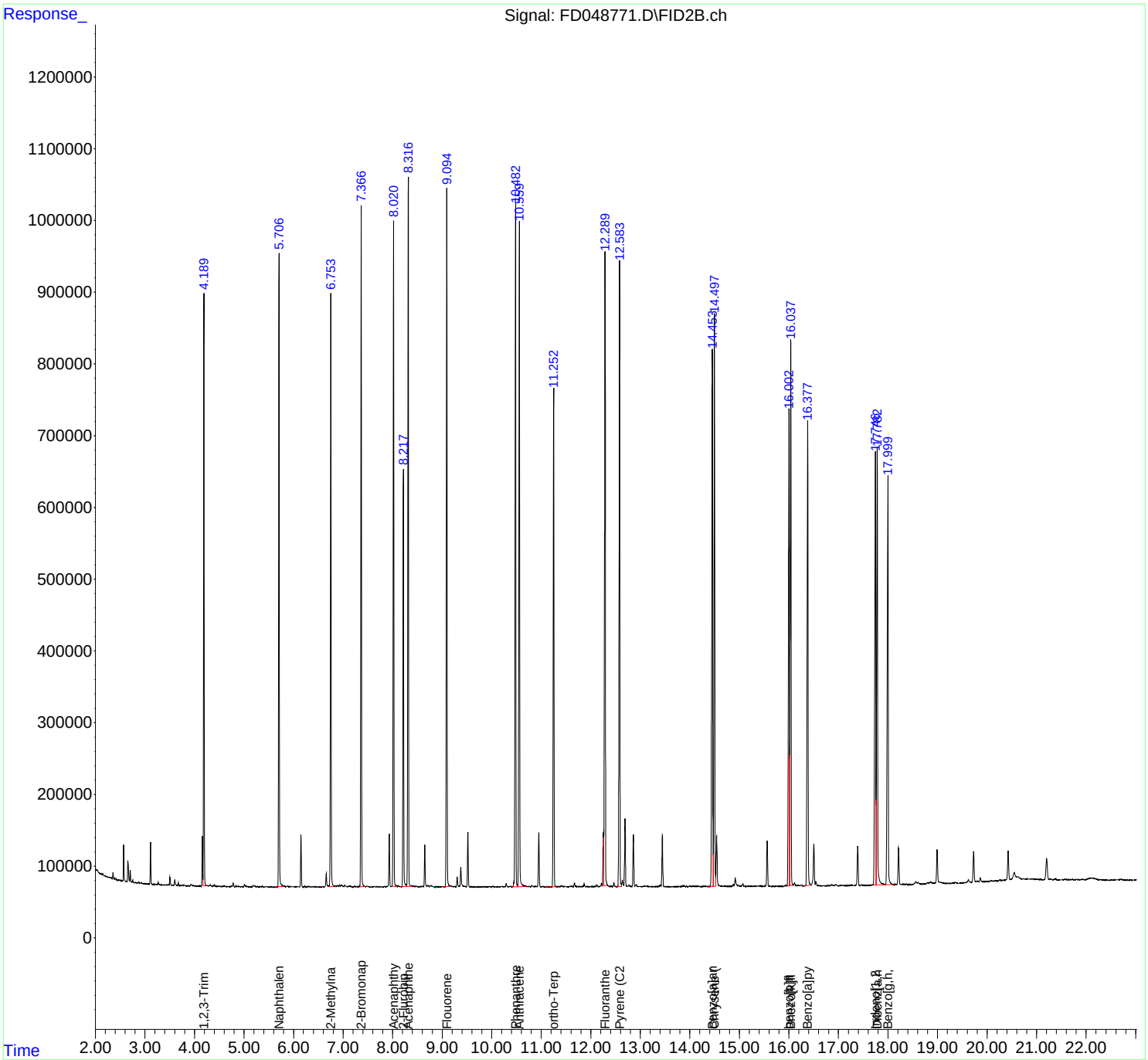
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048771.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 00:17
Operator : YP/AJ
Sample : P4839-22MSD
Misc :
ALS Vial : 72 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:45 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



9

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

A B C D E F G H I J

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11182
Data File : FD048771.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 00:17
Sample : P4839-22MSD
Misc :
ALS Vial : 72 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 | 4.109 | 4.094 | 4.132 | VV | 477 | 5090 | 0.05% | 0.002% |
| 2 | 4.158 | 4.132 | 4.171 | VV | 69922 | 592720 | 5.63% | 0.289% |
| 3 | 4.189 | 4.171 | 4.257 | VV | 825648 | 6961474 | 66.14% | 3.398% |
| 4 | 4.270 | 4.257 | 4.282 | VV | 1173 | 13663 | 0.13% | 0.007% |
| 5 | 4.321 | 4.282 | 4.347 | VV | 2161 | 43452 | 0.41% | 0.021% |
| 6 | 4.353 | 4.347 | 4.362 | VV | 578 | 3936 | 0.04% | 0.002% |
| 7 | 4.379 | 4.362 | 4.395 | VV | 1616 | 18200 | 0.17% | 0.009% |
| 8 | 4.408 | 4.395 | 4.434 | VV | 2469 | 23474 | 0.22% | 0.011% |
| 9 | 4.438 | 4.434 | 4.467 | VV | 392 | 5542 | 0.05% | 0.003% |
| 10 | 4.478 | 4.467 | 4.492 | VV | 569 | 5847 | 0.06% | 0.003% |
| 11 | 4.503 | 4.492 | 4.513 | VV | 602 | 5472 | 0.05% | 0.003% |
| 12 | 4.519 | 4.513 | 4.544 | VV | 595 | 7427 | 0.07% | 0.004% |
| 13 | 4.566 | 4.544 | 4.572 | PV | 264 | 2203 | 0.02% | 0.001% |
| 14 | 4.596 | 4.572 | 4.604 | VV | 866 | 11308 | 0.11% | 0.006% |
| 15 | 4.610 | 4.604 | 4.645 | VV | 967 | 11354 | 0.11% | 0.006% |
| 16 | 4.659 | 4.645 | 4.671 | VV | 359 | 2934 | 0.03% | 0.001% |
| 17 | 4.678 | 4.671 | 4.690 | VV | 216 | 1714 | 0.02% | 0.001% |
| 18 | 4.699 | 4.690 | 4.717 | VV | 457 | 4127 | 0.04% | 0.002% |
| 19 | 4.730 | 4.717 | 4.735 | VV | 395 | 2804 | 0.03% | 0.001% |
| 20 | 4.756 | 4.735 | 4.763 | VV | 997 | 10670 | 0.10% | 0.005% |
| 21 | 4.782 | 4.763 | 4.824 | VV | 5254 | 62135 | 0.59% | 0.030% |
| 22 | 4.837 | 4.824 | 4.849 | VV | 1327 | 12929 | 0.12% | 0.006% |
| 23 | 4.865 | 4.849 | 4.885 | VV | 1077 | 13200 | 0.13% | 0.006% |
| 24 | 4.888 | 4.885 | 4.929 | VV | 487 | 7351 | 0.07% | 0.004% |
| 25 | 4.936 | 4.929 | 4.947 | VV | 368 | 2754 | 0.03% | 0.001% |
| 26 | 4.951 | 4.947 | 4.960 | VV | 327 | 2102 | 0.02% | 0.001% |
| 27 | 4.971 | 4.960 | 4.990 | VV | 589 | 6056 | 0.06% | 0.003% |
| 28 | 5.009 | 4.990 | 5.034 | VV | 3871 | 46326 | 0.44% | 0.023% |
| 29 | 5.040 | 5.034 | 5.046 | VV | 1076 | 7645 | 0.07% | 0.004% |
| 30 | 5.049 | 5.046 | 5.067 | VV | 994 | 9629 | 0.09% | 0.005% |
| 31 | 5.070 | 5.067 | 5.089 | VV | 571 | 4933 | 0.05% | 0.002% |
| 32 | 5.107 | 5.089 | 5.112 | VV | 409 | 4108 | 0.04% | 0.002% |
| 33 | 5.116 | 5.112 | 5.131 | VV | 344 | 2277 | 0.02% | 0.001% |
| 34 | 5.147 | 5.131 | 5.162 | VV | 356 | 3735 | 0.04% | 0.002% |
| 35 | 5.180 | 5.162 | 5.201 | VV | 2300 | 31042 | 0.29% | 0.015% |
| 36 | 5.219 | 5.201 | 5.238 | VV | 2217 | 27183 | 0.26% | 0.013% |

9

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

rteres

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 5.259 | 5.238 | 5.272 | VV | 874 | 14100 | 0.13% | 0.007% |
| 38 | 5.275 | 5.272 | 5.319 | VV | 770 | 11856 | 0 | |
| 39 | 5.324 | 5.319 | 5.327 | VV | 386 | 1460 | 0 | |
| 40 | 5.343 | 5.327 | 5.356 | VV | 1015 | 11554 | 0 | |
| 41 | 5.368 | 5.356 | 5.401 | VV | 1097 | 15698 | 0 | |
| 42 | 5.419 | 5.401 | 5.438 | VV | 668 | 9010 | 0 | |
| 43 | 5.458 | 5.438 | 5.488 | VV | 1070 | 16716 | 0.16% | 0.008% |
| 44 | 5.510 | 5.488 | 5.527 | PV | 530 | 7639 | 0.07% | 0.004% |
| 45 | 5.542 | 5.527 | 5.573 | VV | 680 | 12433 | 0.12% | 0.006% |
| 46 | 5.584 | 5.573 | 5.615 | VV | 412 | 6778 | 0.06% | 0.003% |
| 47 | 5.620 | 5.615 | 5.630 | VV | 361 | 2609 | 0.02% | 0.001% |
| 48 | 5.664 | 5.630 | 5.678 | VV | 657 | 12225 | 0.12% | 0.006% |
| 49 | 5.706 | 5.678 | 5.790 | VV | 886721 | 8124701 | 77.19% | 3.965% |
| 50 | 5.812 | 5.790 | 5.832 | VV | 2100 | 40347 | 0.38% | 0.020% |
| 51 | 5.884 | 5.832 | 5.916 | VV | 2032 | 57685 | 0.55% | 0.028% |
| 52 | 5.932 | 5.916 | 5.946 | VV | 1285 | 17844 | 0.17% | 0.009% |
| 53 | 5.951 | 5.946 | 5.964 | VV | 1052 | 9905 | 0.09% | 0.005% |
| 54 | 5.969 | 5.964 | 5.995 | VV | 847 | 11110 | 0.11% | 0.005% |
| 55 | 6.009 | 5.995 | 6.025 | VV | 1064 | 13512 | 0.13% | 0.007% |
| 56 | 6.033 | 6.025 | 6.040 | VV | 771 | 5919 | 0.06% | 0.003% |
| 57 | 6.050 | 6.040 | 6.054 | VV | 658 | 4874 | 0.05% | 0.002% |
| 58 | 6.076 | 6.054 | 6.106 | VV | 1021 | 23837 | 0.23% | 0.012% |
| 59 | 6.115 | 6.106 | 6.123 | VV | 480 | 4125 | 0.04% | 0.002% |
| 60 | 6.150 | 6.123 | 6.200 | VV | 73351 | 719446 | 6.83% | 0.351% |
| 61 | 6.233 | 6.200 | 6.252 | VV | 1525 | 24128 | 0.23% | 0.012% |
| 62 | 6.269 | 6.252 | 6.281 | VV | 868 | 9885 | 0.09% | 0.005% |
| 63 | 6.299 | 6.281 | 6.317 | VV | 1619 | 21724 | 0.21% | 0.011% |
| 64 | 6.329 | 6.317 | 6.355 | VV | 861 | 9734 | 0.09% | 0.005% |
| 65 | 6.370 | 6.355 | 6.392 | PV | 836 | 11451 | 0.11% | 0.006% |
| 66 | 6.399 | 6.392 | 6.407 | VV | 565 | 4225 | 0.04% | 0.002% |
| 67 | 6.419 | 6.407 | 6.443 | VV | 1167 | 15665 | 0.15% | 0.008% |
| 68 | 6.459 | 6.443 | 6.480 | VV | 829 | 12566 | 0.12% | 0.006% |
| 69 | 6.486 | 6.480 | 6.507 | VV | 479 | 5590 | 0.05% | 0.003% |
| 70 | 6.521 | 6.507 | 6.524 | VV | 631 | 4875 | 0.05% | 0.002% |
| 71 | 6.527 | 6.524 | 6.532 | VV | 615 | 2657 | 0.03% | 0.001% |
| 72 | 6.537 | 6.532 | 6.554 | VV | 627 | 4993 | 0.05% | 0.002% |
| 73 | 6.559 | 6.554 | 6.568 | VV | 234 | 2064 | 0.02% | 0.001% |
| 74 | 6.588 | 6.568 | 6.611 | VV | 1039 | 13625 | 0.13% | 0.007% |
| 75 | 6.661 | 6.611 | 6.699 | VV | 19427 | 245279 | 2.33% | 0.120% |
| 76 | 6.711 | 6.699 | 6.722 | VV | 1956 | 23474 | 0.22% | 0.011% |
| 77 | 6.753 | 6.722 | 6.830 | VV | 830167 | 8020968 | 76.20% | 3.915% |
| 78 | 6.846 | 6.830 | 6.863 | VV | 2091 | 33163 | 0.32% | 0.016% |
| 79 | 6.893 | 6.863 | 6.911 | VV | 2822 | 49948 | 0.47% | 0.024% |
| 80 | 6.926 | 6.911 | 6.940 | VV | 3548 | 41745 | 0.40% | 0.020% |
| 81 | 6.958 | 6.940 | 6.970 | VV | 3210 | 45051 | 0.43% | 0.022% |
| 82 | 6.979 | 6.970 | 6.998 | VV | 2427 | 31680 | 0.30% | 0.015% |
| 83 | 7.003 | 6.998 | 7.017 | VV | 1306 | 12799 | 0.12% | 0.006% |
| 84 | 7.033 | 7.017 | 7.052 | VV | 3173 | 43265 | 0.41% | 0.021% |
| 85 | 7.065 | 7.052 | 7.084 | VV | 1554 | 23124 | 0.22% | 0.011% |
| 86 | 7.096 | 7.084 | 7.106 | VV | 1141 | 12038 | 0.11% | 0.006% |
| 87 | 7.133 | 7.106 | 7.152 | VV | 1897 | 35797 | 0.34% | 0.017% |
| 88 | 7.158 | 7.152 | 7.177 | VV | 1198 | 11704 | 0.11% | 0.006% |
| 89 | 7.186 | 7.177 | 7.209 | VV | 436 | 5649 | 0.05% | 0.003% |

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**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

rteres

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 90 | 7.231 | 7.209 | 7.260 | VV | 1659 | 24897 | 0.24% | 0.012% |
| 91 | 7.280 | 7.260 | 7.310 | VV | 1083 | 20807 | | |
| 92 | 7.326 | 7.310 | 7.339 | VV | 1577 | 18258 | | |
| 93 | 7.367 | 7.339 | 7.456 | VV | 952108 | 9022624 | 85 | |
| 94 | 7.487 | 7.456 | 7.507 | VV | 1511 | 35489 | | |
| 95 | 7.512 | 7.507 | 7.518 | VV | 939 | 6013 | | |
| 96 | 7.524 | 7.518 | 7.574 | VV | 1085 | 18100 | 0.17% | 0.009% |
| 97 | 7.590 | 7.574 | 7.597 | VV | 523 | 6305 | 0.06% | 0.003% |
| 98 | 7.603 | 7.597 | 7.610 | VV | 620 | 3792 | 0.04% | 0.002% |
| 99 | 7.631 | 7.610 | 7.667 | VV | 1355 | 25686 | 0.24% | 0.013% |
| 100 | 7.682 | 7.667 | 7.700 | VV | 839 | 12610 | 0.12% | 0.006% |
| 101 | 7.726 | 7.700 | 7.738 | VV | 717 | 11998 | 0.11% | 0.006% |
| 102 | 7.756 | 7.738 | 7.780 | VV | 1073 | 14650 | 0.14% | 0.007% |
| 103 | 7.790 | 7.780 | 7.802 | VV | 472 | 3912 | 0.04% | 0.002% |
| 104 | 7.809 | 7.802 | 7.815 | VV | 319 | 2059 | 0.02% | 0.001% |
| 105 | 7.838 | 7.815 | 7.867 | VV | 1220 | 21786 | 0.21% | 0.011% |
| 106 | 7.879 | 7.867 | 7.895 | VV | 1141 | 13590 | 0.13% | 0.007% |
| 107 | 7.933 | 7.895 | 7.970 | VV | 74256 | 796340 | 7.57% | 0.389% |
| 108 | 7.986 | 7.970 | 7.990 | VV | 1648 | 13333 | 0.13% | 0.007% |
| 109 | 8.020 | 7.990 | 8.102 | VV | 929879 | 9338690 | 88.72% | 4.558% |
| 110 | 8.115 | 8.102 | 8.150 | VV | 1929 | 40616 | 0.39% | 0.020% |
| 111 | 8.162 | 8.150 | 8.179 | VV | 1010 | 14529 | 0.14% | 0.007% |
| 112 | 8.217 | 8.179 | 8.269 | VV | 583138 | 5829587 | 55.38% | 2.845% |
| 113 | 8.278 | 8.269 | 8.285 | VV | 3233 | 31326 | 0.30% | 0.015% |
| 114 | 8.316 | 8.285 | 8.382 | VV | 991832 | 9956818 | 94.59% | 4.860% |
| 115 | 8.387 | 8.382 | 8.452 | VV | 1891 | 54798 | 0.52% | 0.027% |
| 116 | 8.477 | 8.452 | 8.509 | VV | 1715 | 39422 | 0.37% | 0.019% |
| 117 | 8.528 | 8.509 | 8.548 | VV | 1042 | 16531 | 0.16% | 0.008% |
| 118 | 8.568 | 8.548 | 8.579 | VV | 967 | 14880 | 0.14% | 0.007% |
| 119 | 8.582 | 8.579 | 8.589 | VV | 913 | 4157 | 0.04% | 0.002% |
| 120 | 8.608 | 8.589 | 8.626 | VV | 1451 | 21532 | 0.20% | 0.011% |
| 121 | 8.650 | 8.626 | 8.681 | VV | 59202 | 611314 | 5.81% | 0.298% |
| 122 | 8.685 | 8.681 | 8.694 | VV | 1817 | 13849 | 0.13% | 0.007% |
| 123 | 8.714 | 8.694 | 8.735 | VV | 2789 | 43349 | 0.41% | 0.021% |
| 124 | 8.763 | 8.735 | 8.776 | VV | 2393 | 35996 | 0.34% | 0.018% |
| 125 | 8.790 | 8.776 | 8.821 | VV | 2185 | 35909 | 0.34% | 0.018% |
| 126 | 8.834 | 8.821 | 8.857 | VV | 802 | 8503 | 0.08% | 0.004% |
| 127 | 8.861 | 8.857 | 8.865 | VV | 317 | 1016 | 0.01% | 0.000% |
| 128 | 8.884 | 8.865 | 8.911 | VV | 1154 | 13384 | 0.13% | 0.007% |
| 129 | 8.921 | 8.911 | 8.929 | VV | 404 | 3186 | 0.03% | 0.002% |
| 130 | 8.941 | 8.929 | 8.949 | VV | 552 | 5294 | 0.05% | 0.003% |
| 131 | 8.961 | 8.949 | 8.977 | VV | 704 | 8488 | 0.08% | 0.004% |
| 132 | 8.995 | 8.977 | 9.005 | VV | 934 | 10658 | 0.10% | 0.005% |
| 133 | 9.021 | 9.005 | 9.035 | VV | 930 | 12393 | 0.12% | 0.006% |
| 134 | 9.041 | 9.035 | 9.059 | VV | 627 | 6904 | 0.07% | 0.003% |
| 135 | 9.095 | 9.059 | 9.157 | VV | 974064 | 10021064 | 95.20% | 4.891% |
| 136 | 9.174 | 9.157 | 9.232 | VV | 2117 | 54499 | 0.52% | 0.027% |
| 137 | 9.248 | 9.232 | 9.277 | VV | 1363 | 21135 | 0.20% | 0.010% |
| 138 | 9.304 | 9.277 | 9.335 | VV | 14031 | 171996 | 1.63% | 0.084% |
| 139 | 9.350 | 9.335 | 9.358 | VV | 1818 | 21339 | 0.20% | 0.010% |
| 140 | 9.378 | 9.358 | 9.439 | VV | 28179 | 371763 | 3.53% | 0.181% |
| 141 | 9.444 | 9.439 | 9.449 | VV | 1148 | 6216 | 0.06% | 0.003% |

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**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 142 | 9.457 | 9.449 | 9.492 | VV | 1389 | 24179 | 0.23% | 0.012% |
| 143 | 9.520 | 9.492 | 9.574 | VV | 76693 | 825295 | | |
| 144 | 9.598 | 9.574 | 9.637 | VV | 783 | 18890 | | |
| 145 | 9.644 | 9.637 | 9.657 | VV | 336 | 2662 | | |
| 146 | 9.674 | 9.657 | 9.680 | VV | 272 | 2422 | | |
| 147 | 9.689 | 9.680 | 9.720 | VV | 408 | 5478 | | |
| 148 | 9.739 | 9.720 | 9.757 | VV | 424 | 6255 | 0.06% | 0.003% |
| 149 | 9.764 | 9.757 | 9.770 | VV | 245 | 1315 | 0.01% | 0.001% |
| 150 | 9.792 | 9.770 | 9.802 | VV | 498 | 7123 | 0.07% | 0.003% |
| 151 | 9.806 | 9.802 | 9.817 | VV | 397 | 3259 | 0.03% | 0.002% |
| 152 | 9.835 | 9.817 | 9.859 | VV | 618 | 12440 | 0.12% | 0.006% |
| 153 | 9.863 | 9.859 | 9.877 | VV | 481 | 3925 | 0.04% | 0.002% |
| 154 | 9.891 | 9.877 | 9.900 | VV | 425 | 5049 | 0.05% | 0.002% |
| 155 | 9.904 | 9.900 | 9.928 | VV | 557 | 7851 | 0.07% | 0.004% |
| 156 | 9.947 | 9.928 | 9.978 | VV | 799 | 16201 | 0.15% | 0.008% |
| 157 | 9.982 | 9.978 | 9.990 | VV | 565 | 3505 | 0.03% | 0.002% |
| 158 | 10.004 | 9.990 | 10.006 | VV | 516 | 4406 | 0.04% | 0.002% |
| 159 | 10.023 | 10.006 | 10.047 | VV | 1574 | 22840 | 0.22% | 0.011% |
| 160 | 10.050 | 10.047 | 10.083 | VV | 465 | 6842 | 0.06% | 0.003% |
| 161 | 10.095 | 10.083 | 10.109 | VV | 734 | 8510 | 0.08% | 0.004% |
| 162 | 10.121 | 10.109 | 10.125 | VV | 672 | 5784 | 0.05% | 0.003% |
| 163 | 10.140 | 10.125 | 10.147 | VV | 688 | 7820 | 0.07% | 0.004% |
| 164 | 10.153 | 10.147 | 10.172 | VV | 685 | 7441 | 0.07% | 0.004% |
| 165 | 10.210 | 10.172 | 10.229 | VV | 1366 | 25404 | 0.24% | 0.012% |
| 166 | 10.254 | 10.229 | 10.273 | VV | 865 | 16456 | 0.16% | 0.008% |
| 167 | 10.293 | 10.273 | 10.327 | VV | 5093 | 73353 | 0.70% | 0.036% |
| 168 | 10.336 | 10.327 | 10.351 | VV | 839 | 9561 | 0.09% | 0.005% |
| 169 | 10.382 | 10.351 | 10.412 | VV | 1372 | 26009 | 0.25% | 0.013% |
| 170 | 10.447 | 10.412 | 10.452 | VV | 6308 | 55028 | 0.52% | 0.027% |
| 171 | 10.483 | 10.452 | 10.525 | VV | 953583 | 10197289 | 96.88% | 4.977% |
| 172 | 10.560 | 10.525 | 10.667 | VV | 930305 | 10278480 | 97.65% | 5.017% |
| 173 | 10.671 | 10.667 | 10.703 | VV | 1935 | 32148 | 0.31% | 0.016% |
| 174 | 10.708 | 10.703 | 10.735 | VV | 1229 | 19072 | 0.18% | 0.009% |
| 175 | 10.741 | 10.735 | 10.745 | VV | 1084 | 5207 | 0.05% | 0.003% |
| 176 | 10.754 | 10.745 | 10.790 | VV | 1391 | 23865 | 0.23% | 0.012% |
| 177 | 10.812 | 10.790 | 10.865 | VV | 2203 | 55915 | 0.53% | 0.027% |
| 178 | 10.885 | 10.865 | 10.905 | VV | 1229 | 20797 | 0.20% | 0.010% |
| 179 | 10.911 | 10.905 | 10.915 | VV | 603 | 3522 | 0.03% | 0.002% |
| 180 | 10.953 | 10.915 | 10.999 | VV | 76028 | 864029 | 8.21% | 0.422% |
| 181 | 11.002 | 10.999 | 11.008 | VV | 470 | 2539 | 0.02% | 0.001% |
| 182 | 11.033 | 11.008 | 11.055 | VV | 1236 | 19530 | 0.19% | 0.010% |
| 183 | 11.065 | 11.055 | 11.078 | VV | 435 | 4524 | 0.04% | 0.002% |
| 184 | 11.103 | 11.078 | 11.125 | VV | 539 | 9203 | 0.09% | 0.004% |
| 185 | 11.137 | 11.125 | 11.164 | VV | 648 | 7460 | 0.07% | 0.004% |
| 186 | 11.252 | 11.194 | 11.301 | VV | 695462 | 7480977 | 71.07% | 3.651% |
| 187 | 11.317 | 11.301 | 11.324 | VV | 1042 | 11017 | 0.10% | 0.005% |
| 188 | 11.331 | 11.324 | 11.349 | VV | 935 | 12190 | 0.12% | 0.006% |
| 189 | 11.354 | 11.349 | 11.358 | VV | 609 | 2702 | 0.03% | 0.001% |
| 190 | 11.369 | 11.358 | 11.384 | VV | 911 | 12216 | 0.12% | 0.006% |
| 191 | 11.417 | 11.384 | 11.458 | VV | 1917 | 54572 | 0.52% | 0.027% |
| 192 | 11.466 | 11.458 | 11.496 | VV | 1058 | 18544 | 0.18% | 0.009% |
| 193 | 11.501 | 11.496 | 11.509 | VV | 675 | 4890 | 0.05% | 0.002% |
| 194 | 11.520 | 11.509 | 11.538 | VV | 668 | 9004 | 0.09% | 0.004% |

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**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

rteres

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

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|---|---|---|---|---|---|---|---|---|
| 195 | 11.542 | 11.538 | 11.557 | VV | 444 | 4568 | 0.04% | 0.002% |
| 196 | 11.580 | 11.557 | 11.592 | VV | 1302 | 18854 | | |
| 197 | 11.606 | 11.592 | 11.634 | VV | 1533 | 26958 | | |
| 198 | 11.672 | 11.634 | 11.695 | VV | 5469 | 80694 | | |
| 199 | 11.706 | 11.695 | 11.732 | VV | 1095 | 16429 | | |
| 200 | 11.737 | 11.732 | 11.742 | VV | 501 | 2791 | | |
| 201 | 11.751 | 11.742 | 11.770 | VV | 793 | 11088 | 0.11% | 0.005% |
| 202 | 11.774 | 11.770 | 11.789 | VV | 720 | 6860 | 0.07% | 0.003% |
| 203 | 11.796 | 11.789 | 11.801 | VV | 708 | 4166 | 0.04% | 0.002% |
| 204 | 11.835 | 11.801 | 11.850 | VV | 1041 | 24031 | 0.23% | 0.012% |
| 205 | 11.868 | 11.850 | 11.904 | VV | 4658 | 66343 | 0.63% | 0.032% |
| 206 | 11.908 | 11.904 | 11.914 | VV | 812 | 4671 | 0.04% | 0.002% |
| 207 | 11.919 | 11.914 | 11.939 | VV | 872 | 10166 | 0.10% | 0.005% |
| 208 | 11.945 | 11.939 | 11.969 | VV | 680 | 9322 | 0.09% | 0.005% |
| 209 | 11.985 | 11.969 | 11.992 | VV | 653 | 7137 | 0.07% | 0.003% |
| 210 | 11.995 | 11.992 | 12.007 | VV | 668 | 4831 | 0.05% | 0.002% |
| 211 | 12.022 | 12.007 | 12.057 | VV | 750 | 17799 | 0.17% | 0.009% |
| 212 | 12.085 | 12.057 | 12.101 | VV | 975 | 20024 | 0.19% | 0.010% |
| 213 | 12.121 | 12.101 | 12.154 | VV | 3012 | 46686 | 0.44% | 0.023% |
| 214 | 12.217 | 12.154 | 12.230 | VV | 5206 | 80988 | 0.77% | 0.040% |
| 215 | 12.255 | 12.230 | 12.261 | VV | 76017 | 717645 | 6.82% | 0.350% |
| 216 | 12.289 | 12.261 | 12.372 | VV | 881983 | 10526104 | 100.00% | 5.137% |
| 217 | 12.376 | 12.372 | 12.389 | VV | 1066 | 10107 | 0.10% | 0.005% |
| 218 | 12.393 | 12.389 | 12.425 | VV | 1078 | 18674 | 0.18% | 0.009% |
| 219 | 12.433 | 12.425 | 12.444 | VV | 748 | 6752 | 0.06% | 0.003% |
| 220 | 12.468 | 12.444 | 12.501 | VV | 6242 | 83797 | 0.80% | 0.041% |
| 221 | 12.509 | 12.501 | 12.519 | VV | 720 | 6670 | 0.06% | 0.003% |
| 222 | 12.523 | 12.519 | 12.542 | VV | 641 | 7408 | 0.07% | 0.004% |
| 223 | 12.583 | 12.542 | 12.620 | VV | 875125 | 10261370 | 97.48% | 5.008% |
| 224 | 12.640 | 12.620 | 12.665 | VV | 9131 | 142844 | 1.36% | 0.070% |
| 225 | 12.692 | 12.665 | 12.735 | VV | 95296 | 1139194 | 10.82% | 0.556% |
| 226 | 12.739 | 12.735 | 12.749 | VV | 1129 | 8421 | 0.08% | 0.004% |
| 227 | 12.773 | 12.749 | 12.812 | VV | 2881 | 53241 | 0.51% | 0.026% |
| 228 | 12.815 | 12.812 | 12.820 | VV | 826 | 3302 | 0.03% | 0.002% |
| 229 | 12.824 | 12.820 | 12.828 | VV | 676 | 2663 | 0.03% | 0.001% |
| 230 | 12.862 | 12.828 | 12.892 | VV | 72703 | 874975 | 8.31% | 0.427% |
| 231 | 12.917 | 12.892 | 12.954 | VV | 3445 | 62817 | 0.60% | 0.031% |
| 232 | 12.958 | 12.954 | 12.961 | VV | 601 | 2629 | 0.02% | 0.001% |
| 233 | 12.965 | 12.961 | 12.972 | VV | 642 | 3890 | 0.04% | 0.002% |
| 234 | 12.982 | 12.972 | 12.994 | VV | 726 | 8285 | 0.08% | 0.004% |
| 235 | 13.006 | 12.994 | 13.023 | VV | 704 | 9734 | 0.09% | 0.005% |
| 236 | 13.031 | 13.023 | 13.042 | VV | 604 | 5789 | 0.05% | 0.003% |
| 237 | 13.051 | 13.042 | 13.064 | VV | 777 | 8656 | 0.08% | 0.004% |
| 238 | 13.094 | 13.064 | 13.110 | VV | 1611 | 31584 | 0.30% | 0.015% |
| 239 | 13.117 | 13.110 | 13.129 | VV | 978 | 9990 | 0.09% | 0.005% |
| 240 | 13.133 | 13.129 | 13.181 | VV | 971 | 19242 | 0.18% | 0.009% |
| 241 | 13.214 | 13.181 | 13.225 | VV | 466 | 9151 | 0.09% | 0.004% |
| 242 | 13.239 | 13.225 | 13.267 | VV | 599 | 11534 | 0.11% | 0.006% |
| 243 | 13.285 | 13.267 | 13.310 | VV | 619 | 13061 | 0.12% | 0.006% |
| 244 | 13.318 | 13.310 | 13.335 | VV | 672 | 5957 | 0.06% | 0.003% |
| 245 | 13.400 | 13.335 | 13.417 | VV | 3075 | 52892 | 0.50% | 0.026% |
| 246 | 13.446 | 13.417 | 13.513 | VV | 72048 | 871817 | 8.28% | 0.425% |

9

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

A B C D E F G H I J

| | | | | | rteres | | | |
|---|---|---|---|---|---|---|---|---|
| 247 | 13.520 | 13.513 | 13.525 | VV | 387 | 2352 | 0.02% | 0.001% |
| 248 | 13.539 | 13.525 | 13.560 | VV | 563 | 7329 | | |
| 249 | 13.568 | 13.560 | 13.600 | VV | 223 | 3208 | | |
| 250 | 13.606 | 13.600 | 13.625 | PV | 152 | 1493 | | |
| 251 | 13.634 | 13.625 | 13.642 | VV | 264 | 1595 | | |
| 252 | 13.672 | 13.642 | 13.699 | VV | 461 | 11187 | | |
| 253 | 13.703 | 13.699 | 13.727 | VV | 415 | 4618 | 0.04% | 0.002% |
| 254 | 13.739 | 13.727 | 13.767 | VV | 399 | 6045 | 0.06% | 0.003% |
| 255 | 13.775 | 13.767 | 13.787 | VV | 505 | 4898 | 0.05% | 0.002% |
| 256 | 13.801 | 13.787 | 13.824 | VV | 809 | 11163 | 0.11% | 0.005% |
| 257 | 13.833 | 13.824 | 13.856 | VV | 744 | 12336 | 0.12% | 0.006% |
| 258 | 13.879 | 13.856 | 13.918 | VV | 1717 | 33291 | 0.32% | 0.016% |
| 259 | 13.929 | 13.918 | 13.955 | VV | 539 | 8917 | 0.08% | 0.004% |
| 260 | 13.959 | 13.955 | 13.962 | VV | 370 | 1349 | 0.01% | 0.001% |
| 261 | 13.975 | 13.962 | 13.985 | VV | 480 | 5522 | 0.05% | 0.003% |
| 262 | 14.004 | 13.985 | 14.028 | VV | 1027 | 16565 | 0.16% | 0.008% |
| 263 | 14.039 | 14.028 | 14.045 | VV | 550 | 3950 | 0.04% | 0.002% |
| 264 | 14.069 | 14.045 | 14.117 | VV | 961 | 29374 | 0.28% | 0.014% |
| 265 | 14.121 | 14.117 | 14.149 | VV | 689 | 10534 | 0.10% | 0.005% |
| 266 | 14.166 | 14.149 | 14.181 | VV | 605 | 9266 | 0.09% | 0.005% |
| 267 | 14.186 | 14.181 | 14.201 | VV | 380 | 4378 | 0.04% | 0.002% |
| 268 | 14.215 | 14.201 | 14.228 | VV | 497 | 5741 | 0.05% | 0.003% |
| 269 | 14.266 | 14.234 | 14.274 | VV | 492 | 7696 | 0.07% | 0.004% |
| 270 | 14.290 | 14.274 | 14.299 | VV | 621 | 7319 | 0.07% | 0.004% |
| 271 | 14.307 | 14.299 | 14.332 | VV | 723 | 10999 | 0.10% | 0.005% |
| 272 | 14.339 | 14.332 | 14.342 | VV | 386 | 2189 | 0.02% | 0.001% |
| 273 | 14.349 | 14.342 | 14.368 | VV | 533 | 5649 | 0.05% | 0.003% |
| 274 | 14.381 | 14.368 | 14.409 | VV | 513 | 8441 | 0.08% | 0.004% |
| 275 | 14.453 | 14.409 | 14.470 | VV | 750176 | 9669359 | 91.86% | 4.719% |
| 276 | 14.497 | 14.470 | 14.521 | VV | 798449 | 9558352 | 90.81% | 4.665% |
| 277 | 14.541 | 14.521 | 14.631 | VV | 70672 | 984113 | 9.35% | 0.480% |
| 278 | 14.640 | 14.631 | 14.655 | VV | 905 | 10996 | 0.10% | 0.005% |
| 279 | 14.659 | 14.655 | 14.690 | VV | 840 | 12722 | 0.12% | 0.006% |
| 280 | 14.716 | 14.690 | 14.722 | VV | 782 | 13723 | 0.13% | 0.007% |
| 281 | 14.726 | 14.722 | 14.745 | VV | 752 | 8435 | 0.08% | 0.004% |
| 282 | 14.777 | 14.745 | 14.800 | VV | 535 | 14003 | 0.13% | 0.007% |
| 283 | 14.812 | 14.800 | 14.817 | VV | 459 | 3879 | 0.04% | 0.002% |
| 284 | 14.841 | 14.817 | 14.855 | VV | 525 | 8714 | 0.08% | 0.004% |
| 285 | 14.876 | 14.855 | 14.892 | VV | 3430 | 45712 | 0.43% | 0.022% |
| 286 | 14.916 | 14.892 | 15.006 | VV | 11906 | 247278 | 2.35% | 0.121% |
| 287 | 15.011 | 15.006 | 15.037 | VV | 852 | 12907 | 0.12% | 0.006% |
| 288 | 15.068 | 15.037 | 15.097 | VV | 3822 | 64383 | 0.61% | 0.031% |
| 289 | 15.102 | 15.097 | 15.141 | VV | 581 | 9247 | 0.09% | 0.005% |
| 290 | 15.150 | 15.141 | 15.160 | VV | 281 | 2044 | 0.02% | 0.001% |
| 291 | 15.165 | 15.160 | 15.182 | VV | 291 | 2960 | 0.03% | 0.001% |
| 292 | 15.197 | 15.182 | 15.203 | VV | 497 | 4665 | 0.04% | 0.002% |
| 293 | 15.210 | 15.203 | 15.238 | VV | 436 | 7171 | 0.07% | 0.003% |
| 294 | 15.255 | 15.238 | 15.276 | VV | 740 | 12365 | 0.12% | 0.006% |
| 295 | 15.291 | 15.276 | 15.305 | VV | 538 | 7213 | 0.07% | 0.004% |
| 296 | 15.312 | 15.305 | 15.332 | VV | 564 | 5737 | 0.05% | 0.003% |
| 297 | 15.347 | 15.332 | 15.366 | VV | 603 | 9144 | 0.09% | 0.004% |
| 298 | 15.387 | 15.366 | 15.418 | VV | 891 | 22177 | 0.21% | 0.011% |
| 299 | 15.425 | 15.418 | 15.431 | VV | 683 | 4797 | 0.05% | 0.002% |

9

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 300 | 15.440 | 15.431 | 15.472 | VV | 892 | 12451 | 0.12% | 0.006% |
| 301 | 15.482 | 15.472 | 15.500 | VV | 520 | 6938 | | |
| 302 | 15.560 | 15.500 | 15.599 | VV | 63593 | 822749 | | |
| 303 | 15.612 | 15.599 | 15.642 | VV | 690 | 11763 | | |
| 304 | 15.654 | 15.642 | 15.662 | VV | 241 | 1968 | | |
| 305 | 15.686 | 15.662 | 15.694 | VV | 322 | 3833 | | |
| 306 | 15.702 | 15.694 | 15.728 | VV | 424 | 5633 | 0.05% | 0.003% |
| 307 | 15.739 | 15.728 | 15.757 | PV | 255 | 2167 | 0.02% | 0.001% |
| 308 | 15.763 | 15.757 | 15.783 | VV | 251 | 1370 | 0.01% | 0.001% |
| 309 | 15.818 | 15.783 | 15.837 | VV | 407 | 6870 | 0.07% | 0.003% |
| 310 | 15.866 | 15.847 | 15.875 | PV | 330 | 2581 | 0.02% | 0.001% |
| 311 | 15.889 | 15.875 | 15.899 | VV | 338 | 3174 | 0.03% | 0.002% |
| 312 | 15.929 | 15.899 | 15.958 | VV | 2008 | 38044 | 0.36% | 0.019% |
| 313 | 16.002 | 15.958 | 16.015 | VV | 666187 | 9217980 | 87.57% | 4.499% |
| 314 | 16.037 | 16.015 | 16.093 | VV | 764057 | 9191243 | 87.32% | 4.486% |
| 315 | 16.113 | 16.093 | 16.145 | VV | 4988 | 83283 | 0.79% | 0.041% |
| 316 | 16.167 | 16.145 | 16.226 | VV | 1768 | 51757 | 0.49% | 0.025% |
| 317 | 16.257 | 16.226 | 16.286 | VV | 1952 | 36235 | 0.34% | 0.018% |
| 318 | 16.293 | 16.286 | 16.306 | VV | 604 | 6477 | 0.06% | 0.003% |
| 319 | 16.311 | 16.306 | 16.320 | VV | 591 | 3673 | 0.03% | 0.002% |
| 320 | 16.326 | 16.320 | 16.329 | VV | 514 | 2472 | 0.02% | 0.001% |
| 321 | 16.378 | 16.329 | 16.447 | VV | 649204 | 8689339 | 82.55% | 4.241% |
| 322 | 16.502 | 16.447 | 16.529 | VV | 58757 | 893719 | 8.49% | 0.436% |
| 323 | 16.544 | 16.529 | 16.621 | VV | 6270 | 105931 | 1.01% | 0.052% |
| 324 | 16.629 | 16.621 | 16.642 | VV | 491 | 4812 | 0.05% | 0.002% |
| 325 | 16.647 | 16.642 | 16.652 | VV | 429 | 2068 | 0.02% | 0.001% |
| 326 | 16.667 | 16.652 | 16.674 | VV | 464 | 4826 | 0.05% | 0.002% |
| 327 | 16.700 | 16.674 | 16.705 | VV | 504 | 7694 | 0.07% | 0.004% |
| 328 | 16.711 | 16.705 | 16.726 | VV | 462 | 4565 | 0.04% | 0.002% |
| 329 | 16.732 | 16.726 | 16.736 | VV | 388 | 1988 | 0.02% | 0.001% |
| 330 | 16.741 | 16.736 | 16.760 | VV | 475 | 4303 | 0.04% | 0.002% |
| 331 | 16.794 | 16.760 | 16.809 | VV | 621 | 12532 | 0.12% | 0.006% |
| 332 | 16.819 | 16.809 | 16.841 | VV | 691 | 8659 | 0.08% | 0.004% |
| 333 | 16.867 | 16.841 | 16.902 | VV | 1564 | 36107 | 0.34% | 0.018% |
| 334 | 16.908 | 16.902 | 16.917 | VV | 589 | 4544 | 0.04% | 0.002% |
| 335 | 16.948 | 16.917 | 17.002 | VV | 2196 | 44956 | 0.43% | 0.022% |
| 336 | 17.014 | 17.002 | 17.025 | PV | 260 | 2846 | 0.03% | 0.001% |
| 337 | 17.035 | 17.025 | 17.045 | VV | 489 | 4022 | 0.04% | 0.002% |
| 338 | 17.066 | 17.045 | 17.112 | VV | 689 | 17395 | 0.17% | 0.008% |
| 339 | 17.121 | 17.112 | 17.128 | VV | 484 | 3517 | 0.03% | 0.002% |
| 340 | 17.132 | 17.128 | 17.157 | VV | 411 | 5060 | 0.05% | 0.002% |
| 341 | 17.162 | 17.157 | 17.174 | VV | 237 | 2183 | 0.02% | 0.001% |
| 342 | 17.191 | 17.174 | 17.198 | VV | 439 | 4313 | 0.04% | 0.002% |
| 343 | 17.243 | 17.198 | 17.257 | VV | 804 | 17267 | 0.16% | 0.008% |
| 344 | 17.278 | 17.257 | 17.318 | VV | 914 | 20495 | 0.19% | 0.010% |
| 345 | 17.388 | 17.318 | 17.425 | VV | 55312 | 760340 | 7.22% | 0.371% |
| 346 | 17.433 | 17.425 | 17.443 | VV | 475 | 3470 | 0.03% | 0.002% |
| 347 | 17.449 | 17.443 | 17.453 | VV | 273 | 1221 | 0.01% | 0.001% |
| 348 | 17.474 | 17.453 | 17.501 | VV | 1293 | 18336 | 0.17% | 0.009% |
| 349 | 17.523 | 17.509 | 17.551 | VV | 369 | 4933 | 0.05% | 0.002% |
| 350 | 17.556 | 17.551 | 17.561 | VV | 300 | 1221 | 0.01% | 0.001% |
| 351 | 17.583 | 17.561 | 17.597 | VV | 306 | 3511 | 0.03% | 0.002% |

**Instrument :**
FID_D
**ClientSampleId :**
EX-4-TPH-6MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 352 | 17.603 | 17.597 | 17.626 | VV | 229 | 1586 | 0.02% | 0.001% |
| 353 | 17.648 | 17.626 | 17.654 | PV | 379 | 2846 | 0 | |
| 354 | 17.682 | 17.654 | 17.695 | VV | 840 | 14173 | 0 | |
| 355 | 17.746 | 17.695 | 17.759 | VV | 600103 | 8607331 | 81 | |
| 356 | 17.783 | 17.759 | 17.951 | VV | 608980 | 8199801 | 77 | |
| 357 | 17.999 | 17.951 | 18.105 | VV | 570749 | 8226142 | 78 | |
| 358 | 18.111 | 18.105 | 18.126 | VV | 482 | 4240 | 0.04% | 0.002% |
| 359 | 18.139 | 18.126 | 18.149 | PV | 253 | 2192 | 0.02% | 0.001% |
| 360 | 18.171 | 18.149 | 18.176 | VV | 229 | 2314 | 0.02% | 0.001% |

Sum of corrected areas: 204893017

Aromatic EPH 111424.M Tue Nov 19 06:21:25 2024

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# 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: | FC111824AL | Instrument | FID_c |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4839-21 | FC067803.D | 1-chlorooctadecane (SURR) | yogesh | 11/19/2024 8:13:54 AM | Ankita | 11/19/2024 4:48:38 | Peak Integrated by Software |
| PB165032BS | FC067808.D | n-Tetracontane (C40) | yogesh | 11/19/2024 8:13:55 AM | Ankita | 11/19/2024 4:48:41 | Peak Integrated by Software |
| P4839-22MSD | FC067812.D | n-Dodecane (C12) | yogesh | 11/19/2024 8:13:57 AM | Ankita | 11/19/2024 4:48:42 | 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: | FD111824AR | Instrument | FID_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| 20 PPM AROMATIC HC | FD048757.D | benzo[b]fluoranthene (C30.41) | yogesh | 11/19/2024 9:14:39 AM | Ankita | 11/19/2024 4:49:00 | Peak Integrated by Software |
| 20 PPM AROMATIC HC | FD048757.D | Bnezo[k]fluoranthene (C30.14) | yogesh | 11/19/2024 9:14:39 AM | Ankita | 11/19/2024 4:49:00 | Peak Integrated by Software |
| P4839-21 | FD048762.D | 2-Bromonaphthalene (SURR) | yogesh | 11/19/2024 9:14:42 AM | Ankita | 11/19/2024 4:49:01 | Peak Integrated by Software |
| PB165032BS | FD048767.D | Fluoranthene (C21.85) | yogesh | 11/19/2024 9:14:43 AM | Ankita | 11/19/2024 4:49:03 | Peak Integrated by Software |
| PB165032BSD | FD048768.D | Fluoranthene (C21.85) | yogesh | 11/19/2024 9:14:44 AM | Ankita | 11/19/2024 4:49:04 | Peak Integrated by Software |
| P4839-22MS | FD048770.D | 1,2,3-Trimethylbenzene (C10.1) | yogesh | 11/19/2024 9:14:46 AM | Ankita | 11/19/2024 4:49:05 | Peak Integrated by Software |
| P4839-22MS | FD048770.D | Fluoranthene (C21.85) | yogesh | 11/19/2024 9:14:46 AM | Ankita | 11/19/2024 4:49:05 | Peak Integrated by Software |
| P4839-22MSD | FD048771.D | Fluoranthene (C21.85) | yogesh | 11/19/2024 9:14:48 AM | Ankita | 11/19/2024 4:49:07 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FF111524AR | Instrument | FID_f |
|---|---|---|---|

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

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# Manual Integration Report

| Sequence: | FF111924AR | Instrument | FID_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PP23988 | FF015094.D | Bnezo[k]fluoranthene (C30.14) | yogesh | 11/20/2024 11:53:21 AM | Ankita | 11/21/2024 10:02:32 | Peak Integrated by Software |
| PP23988 | FF015094.D | Dibenz[a,h]anthracene (C30.36) | yogesh | 11/20/2024 11:53:21 AM | Ankita | 11/21/2024 10:02:32 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FG111424AL | Instrument | FID_g |
|---|---|---|---|

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

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# Manual Integration Report

| Sequence: | FG111924AL | Instrument | FID_g |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4860-02 | FG014869.D | 1-chlorooctadecane (SURR) | yogesh | 11/20/2024 11:53:38 AM | Ankita | 11/21/2024 10:02:10 | Peak Integrated by Software |
| PB165088BS | FG014873.D | n-Tetracosane (C24) | yogesh | 11/20/2024 11:53:39 AM | Ankita | 11/21/2024 10:02:13 | Peak Integrated by Software |
| PB165088BSD | FG014874.D | n-Tetracosane (C24) | yogesh | 11/20/2024 11:53:40 AM | Ankita | 11/21/2024 10:02:16 | Peak Integrated by Software |
| P4910-01D | FG014876.D | 1-chlorooctadecane (SURR) | yogesh | 11/20/2024 11:53:42 AM | Ankita | 11/21/2024 10:02:17 | Peak Integrated by Software |
| P4910-01MS | FG014877.D | n-Tetracosane (C24) | yogesh | 11/20/2024 11:53:43 AM | Ankita | 11/21/2024 10:02:18 | Peak Integrated by Software |
| P4910-01MSD | FG014878.D | n-Tetracosane (C24) | yogesh | 11/20/2024 11:53:46 AM | Ankita | 11/21/2024 10:02:20 | 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 # FC111824AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/18/2024 12:56:08 PM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:48:46 PM | | |
| SubDirectory | FC111824AL | 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 | FC067796.D | 18 Nov 2024 07:38 | YP/AJ | Ok |
| 2 | I.BLK | FC067797.D | 18 Nov 2024 08:13 | YP/AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC STD | FC067798.D | 18 Nov 2024 08:49 | YP/AJ | Ok |
| 4 | P4839-07DL | FC067799.D | 18 Nov 2024 09:25 | YP/AJ | Ok |
| 5 | P4839-09DL | FC067800.D | 18 Nov 2024 10:02 | YP/AJ | Ok |
| 6 | P4839-10DL | FC067801.D | 18 Nov 2024 10:38 | YP/AJ | Not Ok |
| 7 | P4839-13DL | FC067802.D | 18 Nov 2024 11:41 | YP/AJ | Ok |
| 8 | P4839-21 | FC067803.D | 18 Nov 2024 12:18 | YP/AJ | Dilution |
| 9 | P4839-22 | FC067804.D | 18 Nov 2024 12:55 | YP/AJ | Ok |
| 10 | I.BLK | FC067805.D | 18 Nov 2024 14:15 | YP/AJ | Ok |
| 11 | 20 PPM ALIPHATIC HC STD | FC067806.D | 18 Nov 2024 14:50 | YP/AJ | Ok |
| 12 | PB165032BL | FC067807.D | 18 Nov 2024 15:27 | YP/AJ | Ok |
| 13 | PB165032BS | FC067808.D | 18 Nov 2024 16:03 | YP/AJ | Ok,M |
| 14 | PB165032BSD | FC067809.D | 18 Nov 2024 16:39 | YP/AJ | Ok |
| 15 | P4839-22D | FC067810.D | 18 Nov 2024 17:16 | YP/AJ | Ok |
| 16 | P4839-22MS | FC067811.D | 18 Nov 2024 23:41 | YP/AJ | Ok |
| 17 | P4839-22MSD | FC067812.D | 19 Nov 2024 00:17 | YP/AJ | Ok,M |
| 18 | P4860-03 | FC067813.D | 19 Nov 2024 00:53 | YP/AJ | Ok |
| 19 | P4860-04 | FC067814.D | 19 Nov 2024 02:45 | YP/AJ | Ok |
| 20 | P4860-06 | FC067815.D | 19 Nov 2024 07:59 | YP/AJ | Ok |
| 21 | P4860-05 | FC067816.D | 19 Nov 2024 08:37 | YP/AJ | Ok |

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**Instrument ID: FID_C**

## Daily Analysis Runlog For Sequence/QCBatch ID # FC111824AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/18/2024 12:56:08 PM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:48:46 PM | | |
| SubDirectory | FC111824AL | 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 | I.BLK | FC067817.D | 19 Nov 2024 09:20 | YP/AJ | Ok |
| 23 | 20 PPM ALIPHATIC HC STD | FC067818.D | 19 Nov 2024 10:04 | YP/AJ | Ok |
| 24 | P4839-11DL | FC067819.D | 19 Nov 2024 10:40 | YP/AJ | Ok |
| 25 | P4839-21DL | FC067820.D | 19 Nov 2024 11:17 | YP/AJ | Dilution |
| 26 | P4839-21DL2 | FC067821.D | 19 Nov 2024 11:54 | YP/AJ | Ok |
| 27 | I.BLK | FC067822.D | 19 Nov 2024 12:32 | YP/AJ | Ok |
| 28 | 20 PPM ALIPHATIC HC STD | FC067823.D | 19 Nov 2024 13:09 | YP/AJ | Ok |

M : Manual Integration

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Fax : 908 789 8922



**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 |

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**Instrument ID: FID_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # FD111824AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/18/2024 12:57:00 PM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:49:11 PM | | |
| SubDirectory | FD111824AR | 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 | FD048755.D | 18 Nov 2024 07:38 | YP/AJ | Ok |
| 2 | I.BLK | FD048756.D | 18 Nov 2024 08:13 | YP/AJ | Ok |
| 3 | 20 PPM AROMATIC HC STD | FD048757.D | 18 Nov 2024 08:49 | YP/AJ | Ok,M |
| 4 | P4839-09DL | FD048758.D | 18 Nov 2024 09:25 | YP/AJ | Ok |
| 5 | P4839-13DL | FD048759.D | 18 Nov 2024 10:02 | YP/AJ | Ok |
| 6 | P4860-01 | FD048760.D | 18 Nov 2024 10:38 | YP/AJ | Ok |
| 7 | P4860-02 | FD048761.D | 18 Nov 2024 11:41 | YP/AJ | Ok |
| 8 | P4839-21 | FD048762.D | 18 Nov 2024 12:18 | YP/AJ | Dilution |
| 9 | P4839-22 | FD048763.D | 18 Nov 2024 12:55 | YP/AJ | Ok |
| 10 | I.BLK | FD048764.D | 18 Nov 2024 14:15 | YP/AJ | Ok |
| 11 | 20 PPM AROMATIC HC STD | FD048765.D | 18 Nov 2024 14:50 | YP/AJ | Ok |
| 12 | PB165032BL | FD048766.D | 18 Nov 2024 15:27 | YP/AJ | Ok |
| 13 | PB165032BS | FD048767.D | 18 Nov 2024 16:03 | YP/AJ | Ok,M |
| 14 | PB165032BSD | FD048768.D | 18 Nov 2024 16:39 | YP/AJ | Ok,M |
| 15 | P4839-22D | FD048769.D | 18 Nov 2024 17:16 | YP/AJ | Ok |
| 16 | P4839-22MS | FD048770.D | 18 Nov 2024 23:41 | YP/AJ | Ok,M |
| 17 | P4839-22MSD | FD048771.D | 19 Nov 2024 00:17 | YP/AJ | Ok,M |
| 18 | P4860-03 | FD048772.D | 19 Nov 2024 00:53 | YP/AJ | Ok |
| 19 | P4860-04 | FD048773.D | 19 Nov 2024 02:45 | YP/AJ | Ok |
| 20 | P4860-06 | FD048774.D | 19 Nov 2024 07:59 | YP/AJ | Ok |
| 21 | P4860-05 | FD048775.D | 19 Nov 2024 08:37 | YP/AJ | Ok |

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**Instrument ID: FID_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # FD111824AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/18/2024 12:57:00 PM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:49:11 PM | | |
| SubDirectory | FD111824AR | 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 | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | I.BLK | FD048776.D | 19 Nov 2024 09:20 | YP/AJ | Ok |
| 23 | 20 PPM AROMATIC HC STD | FD048777.D | 19 Nov 2024 10:04 | YP/AJ | Ok |
| 24 | P4839-21DL | FD048778.D | 19 Nov 2024 10:40 | YP/AJ | Ok |
| 25 | I.BLK | FD048779.D | 19 Nov 2024 11:17 | YP/AJ | Ok |
| 26 | 20 PPM AROMATIC HC STD | FD048780.D | 19 Nov 2024 11:54 | YP/AJ | Ok |
| 27 | P4839-02 | FD048781.D | 19 Nov 2024 13:45 | YP/AJ | Ok |
| 28 | I.BLK | FD048782.D | 19 Nov 2024 14:59 | YP/AJ | Ok |
| 29 | 20 PPM AROMATIC HC STD | FD048783.D | 19 Nov 2024 15:36 | YP/AJ | Ok |

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**Instrument ID: FID_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # FF111524AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/14/2024 3:44:42 PM | | |
| Supervise By | Ankita | Supervise On | 11/15/2024 9:15:19 AM | | |
| SubDirectory | FF111524AR | HP Acquire Method | | HP Processing Method | FF111524AR |

| 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 | FF015041.D | 14 Nov 2024 16:37 | YP\AJ | Ok |
| 2 | I.BLK | FF015042.D | 14 Nov 2024 17:05 | YP\AJ | Ok |
| 3 | 100 PPM AROMATIC HC STD1 | FF015043.D | 14 Nov 2024 17:34 | YP\AJ | Ok |
| 4 | 50 PPM AROMATIC HC STD2 | FF015044.D | 14 Nov 2024 18:02 | YP\AJ | Ok |
| 5 | 20 PPM AROMATIC HC STD3 | FF015045.D | 14 Nov 2024 18:30 | YP\AJ | Ok |
| 6 | 10 PPM AROMATIC HC STD4 | FF015046.D | 14 Nov 2024 18:58 | YP\AJ | Ok |
| 7 | 5 PPM AROMATIC HC STD5 | FF015047.D | 14 Nov 2024 19:27 | YP\AJ | Ok |
| 8 | 20 PPM AROMATIC HC STD ICV | FF015048.D | 14 Nov 2024 19:55 | YP\AJ | Ok |
| 9 | I.BLK | FF015049.D | 14 Nov 2024 20:52 | YP\AJ | Ok |
| 10 | 20 PPM AROMATIC HC STD | FF015050.D | 14 Nov 2024 21:20 | YP\AJ | Ok |

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**Instrument ID: FID_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # FF111924AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 12:19:41 PM | | |
| Supervise By | Ankita | Supervise On | 11/21/2024 10:02:38 AM | | |
| SubDirectory | FF111924AR | HP Acquire Method | | HP Processing Method | FF111524AR |

| 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 | FF015091.D | 19 Nov 2024 08:39 | YP\AJ | Ok |
| 2 | I.BLK | FF015092.D | 19 Nov 2024 09:08 | YP\AJ | Ok |
| 3 | 20 PPM AROMATIC HC STD | FF015093.D | 19 Nov 2024 10:15 | YP\AJ | Ok |
| 4 | PP23988 | FF015094.D | 19 Nov 2024 10:51 | YP\AJ | Ok,M |
| 5 | P4860-07 | FF015095.D | 19 Nov 2024 11:19 | YP\AJ | Ok |
| 6 | P4860-08 | FF015096.D | 19 Nov 2024 11:47 | YP\AJ | Ok |
| 7 | P4860-09 | FF015097.D | 19 Nov 2024 12:16 | YP\AJ | Ok |
| 8 | P4860-10 | FF015098.D | 19 Nov 2024 12:44 | YP\AJ | Ok |
| 9 | I.BLK | FF015099.D | 19 Nov 2024 13:43 | YP\AJ | Ok |
| 10 | 20 PPM AROMATIC HC STD | FF015100.D | 19 Nov 2024 14:11 | YP\AJ | Ok |

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**Instrument ID: FID_G**

## Daily Analysis Runlog For Sequence/QCBatch ID # FG111424AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/14/2024 3:47:34 PM | | |
| Supervise By | Ankita | Supervise On | 11/15/2024 9:15:07 AM | | |
| SubDirectory | FG111424AL | HP Acquire Method | | HP Processing Method | FG111424AL |

| 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 | FG014779.D | 14 Nov 2024 13:20 | YP\AJ | Ok |
| 2 | I.BLK | FG014780.D | 14 Nov 2024 13:48 | YP\AJ | Ok |
| 3 | 100 PPM ALIPHATIC HC STD1 | FG014781.D | 14 Nov 2024 14:16 | YP\AJ | Ok |
| 4 | 50 PPM ALIPHATIC HC STD2 | FG014782.D | 14 Nov 2024 14:44 | YP\AJ | Ok |
| 5 | 20 PPM ALIPHATIC HC STD3 | FG014783.D | 14 Nov 2024 15:12 | YP\AJ | Ok |
| 6 | 10 PPM ALIPHATIC HC STD4 | FG014784.D | 14 Nov 2024 15:41 | YP\AJ | Ok |
| 7 | 5 PPM ALIPHATIC HC STD5 | FG014785.D | 14 Nov 2024 16:09 | YP\AJ | Ok |
| 8 | 20 PPM ALIPHATIC HC STD ICV | FG014786.D | 14 Nov 2024 16:37 | YP\AJ | Ok |
| 9 | I.BLK | FG014787.D | 14 Nov 2024 17:34 | YP\AJ | Ok |
| 10 | 20 PPM ALIPHATIC HC STD | FG014788.D | 14 Nov 2024 18:02 | YP\AJ | Ok |

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**Instrument ID: FID_G**

## Daily Analysis Runlog For Sequence/QCBatch ID # FG111924AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 12:22:16 PM | | |
| Supervise By | Ankita | Supervise On | 11/21/2024 10:02:24 AM | | |
| SubDirectory | FG111924AL | HP Acquire Method | | HP Processing Method | FG111424AL |

| 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 | FG014860.D | 19 Nov 2024 08:39 | YP\AJ | Ok |
| 2 | I.BLK | FG014861.D | 19 Nov 2024 09:08 | YP\AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC STD | FG014862.D | 19 Nov 2024 10:15 | YP\AJ | Ok |
| 4 | PP23989 | FG014863.D | 19 Nov 2024 10:51 | YP\AJ | Ok |
| 5 | P4860-07 | FG014864.D | 19 Nov 2024 11:19 | YP\AJ | Ok |
| 6 | P4860-08 | FG014865.D | 19 Nov 2024 11:47 | YP\AJ | Ok |
| 7 | P4860-09 | FG014866.D | 19 Nov 2024 12:16 | YP\AJ | Ok |
| 8 | P4860-10 | FG014867.D | 19 Nov 2024 12:44 | YP\AJ | Ok |
| 9 | P4860-01 | FG014868.D | 19 Nov 2024 13:12 | YP\AJ | Ok |
| 10 | P4860-02 | FG014869.D | 19 Nov 2024 13:43 | YP\AJ | Ok,M |
| 11 | I.BLK | FG014870.D | 19 Nov 2024 14:11 | YP\AJ | Ok |
| 12 | 20 PPM ALIPHATIC HC STD | FG014871.D | 19 Nov 2024 14:40 | YP\AJ | Ok |
| 13 | PB165088BL | FG014872.D | 19 Nov 2024 15:12 | YP\AJ | Ok |
| 14 | PB165088BS | FG014873.D | 19 Nov 2024 15:40 | YP\AJ | Ok,M |
| 15 | PB165088BSD | FG014874.D | 19 Nov 2024 16:09 | YP\AJ | Ok,M |
| 16 | P4910-01 | FG014875.D | 19 Nov 2024 16:37 | YP\AJ | Ok |
| 17 | P4910-01D | FG014876.D | 19 Nov 2024 17:05 | YP\AJ | Ok,M |
| 18 | P4910-01MS | FG014877.D | 19 Nov 2024 17:34 | YP\AJ | Ok,M |
| 19 | P4910-01MSD | FG014878.D | 19 Nov 2024 18:02 | YP\AJ | Ok,M |
| 20 | P4910-02 | FG014879.D | 19 Nov 2024 18:30 | YP\AJ | Ok |
| 21 | I.BLK | FG014880.D | 19 Nov 2024 18:59 | YP\AJ | Ok |

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**Instrument ID: FID_G**

## Daily Analysis Runlog For Sequence/QCBatch ID # FG111924AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 12:22:16 PM | | |
| Supervise By | Ankita | Supervise On | 11/21/2024 10:02:24 AM | | |
| SubDirectory | FG111924AL | HP Acquire Method | | HP Processing Method | FG111424AL |

| 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 | FG014881.D | 19 Nov 2024 19:27 | 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 | |

| 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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**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 |

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**Instrument ID:** FID_C

## Daily Analysis Runlog For Sequence/QCBatch ID # FC111824AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/18/2024 12:56:08 PM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:48:46 PM | | |
| SubDirectory | FC111824AL | 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 | FC067796.D | 18 Nov 2024 07:38 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FC067797.D | 18 Nov 2024 08:13 | | YP/AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC067798.D | 18 Nov 2024 08:49 | | YP/AJ | Ok |
| 4 | P4839-07DL | EX-9-TPH-15DL | FC067799.D | 18 Nov 2024 09:25 | | YP/AJ | Ok |
| 5 | P4839-09DL | EX-9-TPH-17DL | FC067800.D | 18 Nov 2024 10:02 | | YP/AJ | Ok |
| 6 | P4839-10DL | P4839-10DL | FC067801.D | 18 Nov 2024 10:38 | not required | YP/AJ | Not Ok |
| 7 | P4839-13DL | EX-9-TPH-21DL | FC067802.D | 18 Nov 2024 11:41 | | YP/AJ | Ok |
| 8 | P4839-21 | EX-4-TPH-5 | FC067803.D | 18 Nov 2024 12:18 | Need 10X,20X | YP/AJ | Dilution |
| 9 | P4839-22 | EX-4-TPH-6 | FC067804.D | 18 Nov 2024 12:55 | | YP/AJ | Ok |
| 10 | I.BLK | I.BLK | FC067805.D | 18 Nov 2024 14:15 | | YP/AJ | Ok |
| 11 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC067806.D | 18 Nov 2024 14:50 | | YP/AJ | Ok |
| 12 | PB165032BL | PB165032BL | FC067807.D | 18 Nov 2024 15:27 | | YP/AJ | Ok |
| 13 | PB165032BS | PB165032BS | FC067808.D | 18 Nov 2024 16:03 | | YP/AJ | Ok,M |
| 14 | PB165032BSD | PB165032BSD | FC067809.D | 18 Nov 2024 16:39 | | YP/AJ | Ok |
| 15 | P4839-22D | P4839-22D | FC067810.D | 18 Nov 2024 17:16 | | YP/AJ | Ok |
| 16 | P4839-22MS | EX-4-TPH-6MS | FC067811.D | 18 Nov 2024 23:41 | FC067804.D | YP/AJ | Ok |
| 17 | P4839-22MSD | EX-4-TPH-6MSD | FC067812.D | 19 Nov 2024 00:17 | FC067804.D!FC067811.D | YP/AJ | Ok,M |
| 18 | P4860-03 | PH2-BOT-002 | FC067813.D | 19 Nov 2024 00:53 | | YP/AJ | Ok |

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**Instrument ID:** FID_C

## Daily Analysis Runlog For Sequence/QCBatch ID # FC111824AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/18/2024 12:56:08 PM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:48:46 PM | | |
| SubDirectory | FC111824AL | 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 | P4860-04 | PH2-BOT-003 | FC067814.D | 19 Nov 2024 02:45 | | YP/AJ | Ok |
| 20 | P4860-06 | PH2-BOT-009 | FC067815.D | 19 Nov 2024 07:59 | | YP/AJ | Ok |
| 21 | P4860-05 | PH2-BOT-004 | FC067816.D | 19 Nov 2024 08:37 | | YP/AJ | Ok |
| 22 | I.BLK | I.BLK | FC067817.D | 19 Nov 2024 09:20 | | YP/AJ | Ok |
| 23 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC067818.D | 19 Nov 2024 10:04 | | YP/AJ | Ok |
| 24 | P4839-11DL | EX-9-TPH-19DL | FC067819.D | 19 Nov 2024 10:40 | | YP/AJ | Ok |
| 25 | P4839-21DL | EX-4-TPH-5DL | FC067820.D | 19 Nov 2024 11:17 | Need-more Dilution | YP/AJ | Dilution |
| 26 | P4839-21DL2 | EX-4-TPH-5DL2 | FC067821.D | 19 Nov 2024 11:54 | | YP/AJ | Ok |
| 27 | I.BLK | I.BLK | FC067822.D | 19 Nov 2024 12:32 | | YP/AJ | Ok |
| 28 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC067823.D | 19 Nov 2024 13:09 | | YP/AJ | Ok |

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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 |

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**Instrument ID:** FID_D

## Daily Analysis Runlog For Sequence/QCBatch ID # FD111824AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/18/2024 12:57:00 PM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:49:11 PM | | |
| SubDirectory | FD111824AR | 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 | FD048755.D | 18 Nov 2024 07:38 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FD048756.D | 18 Nov 2024 08:13 | | YP/AJ | Ok |
| 3 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD048757.D | 18 Nov 2024 08:49 | | YP/AJ | Ok,M |
| 4 | P4839-09DL | EX-9-TPH-17DL | FD048758.D | 18 Nov 2024 09:25 | | YP/AJ | Ok |
| 5 | P4839-13DL | EX-9-TPH-21DL | FD048759.D | 18 Nov 2024 10:02 | | YP/AJ | Ok |
| 6 | P4860-01 | DUP-01 | FD048760.D | 18 Nov 2024 10:38 | | YP/AJ | Ok |
| 7 | P4860-02 | PH2-BOT-001 | FD048761.D | 18 Nov 2024 11:41 | | YP/AJ | Ok |
| 8 | P4839-21 | EX-4-TPH-5 | FD048762.D | 18 Nov 2024 12:18 | Need 10X | YP/AJ | Dilution |
| 9 | P4839-22 | EX-4-TPH-6 | FD048763.D | 18 Nov 2024 12:55 | | YP/AJ | Ok |
| 10 | I.BLK | I.BLK | FD048764.D | 18 Nov 2024 14:15 | | YP/AJ | Ok |
| 11 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD048765.D | 18 Nov 2024 14:50 | | YP/AJ | Ok |
| 12 | PB165032BL | PB165032BL | FD048766.D | 18 Nov 2024 15:27 | | YP/AJ | Ok |
| 13 | PB165032BS | PB165032BS | FD048767.D | 18 Nov 2024 16:03 | | YP/AJ | Ok,M |
| 14 | PB165032BSD | PB165032BSD | FD048768.D | 18 Nov 2024 16:39 | | YP/AJ | Ok,M |
| 15 | P4839-22D | P4839-22D | FD048769.D | 18 Nov 2024 17:16 | | YP/AJ | Ok |
| 16 | P4839-22MS | EX-4-TPH-6MS | FD048770.D | 18 Nov 2024 23:41 | FD048763.D | YP/AJ | Ok,M |
| 17 | P4839-22MSD | EX-4-TPH-6MSD | FD048771.D | 19 Nov 2024 00:17 | FD048763.D!FD048770.D | YP/AJ | Ok,M |
| 18 | P4860-03 | PH2-BOT-002 | FD048772.D | 19 Nov 2024 00:53 | | YP/AJ | Ok |

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**Instrument ID:** FID_D

## Daily Analysis Runlog For Sequence/QCBatch ID # FD111824AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/18/2024 12:57:00 PM | | |
| Supervise By | Ankita | Supervise On | 11/19/2024 4:49:11 PM | | |
| SubDirectory | FD111824AR | 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 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4860-04 | PH2-BOT-003 | FD048773.D | 19 Nov 2024 02:45 | | YP/AJ | Ok |
| 20 | P4860-06 | PH2-BOT-009 | FD048774.D | 19 Nov 2024 07:59 | | YP/AJ | Ok |
| 21 | P4860-05 | PH2-BOT-004 | FD048775.D | 19 Nov 2024 08:37 | | YP/AJ | Ok |
| 22 | I.BLK | I.BLK | FD048776.D | 19 Nov 2024 09:20 | | YP/AJ | Ok |
| 23 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD048777.D | 19 Nov 2024 10:04 | | YP/AJ | Ok |
| 24 | P4839-21DL | EX-4-TPH-5DL | FD048778.D | 19 Nov 2024 10:40 | | YP/AJ | Ok |
| 25 | I.BLK | I.BLK | FD048779.D | 19 Nov 2024 11:17 | | YP/AJ | Ok |
| 26 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD048780.D | 19 Nov 2024 11:54 | | YP/AJ | Ok |
| 27 | P4839-02 | EX-9-TPH-10 | FD048781.D | 19 Nov 2024 13:45 | | YP/AJ | Ok |
| 28 | I.BLK | I.BLK | FD048782.D | 19 Nov 2024 14:59 | | YP/AJ | Ok |
| 29 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD048783.D | 19 Nov 2024 15:36 | | YP/AJ | Ok |

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**Instrument ID:** FID_F

## Daily Analysis Runlog For Sequence/QCBatch ID # FF111524AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/14/2024 3:44:42 PM | | |
| Supervise By | Ankita | Supervise On | 11/15/2024 9:15:19 AM | | |
| SubDirectory | FF111524AR | HP Acquire Method | | HP Processing Method | FF111524AR |

| 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 | FF015041.D | 14 Nov 2024 16:37 | | YP\AJ | Ok |
| 2 | I.BLK | I.BLK | FF015042.D | 14 Nov 2024 17:05 | | YP\AJ | Ok |
| 3 | 100 PPM AROMATIC H | 100 PPM AROMATIC H | FF015043.D | 14 Nov 2024 17:34 | | YP\AJ | Ok |
| 4 | 50 PPM AROMATIC HC | 50 PPM AROMATIC HC | FF015044.D | 14 Nov 2024 18:02 | | YP\AJ | Ok |
| 5 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FF015045.D | 14 Nov 2024 18:30 | | YP\AJ | Ok |
| 6 | 10 PPM AROMATIC HC | 10 PPM AROMATIC HC | FF015046.D | 14 Nov 2024 18:58 | | YP\AJ | Ok |
| 7 | 5 PPM AROMATIC HC | 5 PPM AROMATIC HC | FF015047.D | 14 Nov 2024 19:27 | | YP\AJ | Ok |
| 8 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FF015048.D | 14 Nov 2024 19:55 | | YP\AJ | Ok |
| 9 | I.BLK | I.BLK | FF015049.D | 14 Nov 2024 20:52 | | YP\AJ | Ok |
| 10 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FF015050.D | 14 Nov 2024 21:20 | | YP\AJ | Ok |

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**Instrument ID:** FID_F

## Daily Analysis Runlog For Sequence/QCBatch ID # FF111924AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 12:19:41 PM | | |
| Supervise By | Ankita | Supervise On | 11/21/2024 10:02:38 AM | | |
| SubDirectory | FF111924AR | HP Acquire Method | | HP Processing Method | FF111524AR |

| 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 | FF015091.D | 19 Nov 2024 08:39 | | YP\AJ | Ok |
| 2 | I.BLK | I.BLK | FF015092.D | 19 Nov 2024 09:08 | | YP\AJ | Ok |
| 3 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FF015093.D | 19 Nov 2024 10:15 | | YP\AJ | Ok |
| 4 | PP23988 | PP23988 | FF015094.D | 19 Nov 2024 10:51 | | YP\AJ | Ok,M |
| 5 | P4860-07 | PH2-BOT-008 | FF015095.D | 19 Nov 2024 11:19 | | YP\AJ | Ok |
| 6 | P4860-08 | PH2-BOT-007 | FF015096.D | 19 Nov 2024 11:47 | | YP\AJ | Ok |
| 7 | P4860-09 | PH2-BOT-006 | FF015097.D | 19 Nov 2024 12:16 | | YP\AJ | Ok |
| 8 | P4860-10 | PH2-BOT-005 | FF015098.D | 19 Nov 2024 12:44 | | YP\AJ | Ok |
| 9 | I.BLK | I.BLK | FF015099.D | 19 Nov 2024 13:43 | | YP\AJ | Ok |
| 10 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FF015100.D | 19 Nov 2024 14:11 | | YP\AJ | Ok |

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**Instrument ID:** FID_G

## Daily Analysis Runlog For Sequence/QCBatch ID # FG111424AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/14/2024 3:47:34 PM | | |
| Supervise By | Ankita | Supervise On | 11/15/2024 9:15:07 AM | | |
| SubDirectory | FG111424AL | HP Acquire Method | | HP Processing Method | FG111424AL |

| 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 | FG014779.D | 14 Nov 2024 13:20 | | YP\AJ | Ok |
| 2 | I.BLK | I.BLK | FG014780.D | 14 Nov 2024 13:48 | | YP\AJ | Ok |
| 3 | 100 PPM ALIPHATIC H | 100 PPM ALIPHATIC H | FG014781.D | 14 Nov 2024 14:16 | | YP\AJ | Ok |
| 4 | 50 PPM ALIPHATIC HC | 50 PPM ALIPHATIC HC | FG014782.D | 14 Nov 2024 14:44 | | YP\AJ | Ok |
| 5 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FG014783.D | 14 Nov 2024 15:12 | | YP\AJ | Ok |
| 6 | 10 PPM ALIPHATIC HC | 10 PPM ALIPHATIC HC | FG014784.D | 14 Nov 2024 15:41 | | YP\AJ | Ok |
| 7 | 5 PPM ALIPHATIC HC | 5 PPM ALIPHATIC HC | FG014785.D | 14 Nov 2024 16:09 | | YP\AJ | Ok |
| 8 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FG014786.D | 14 Nov 2024 16:37 | | YP\AJ | Ok |
| 9 | I.BLK | I.BLK | FG014787.D | 14 Nov 2024 17:34 | | YP\AJ | Ok |
| 10 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FG014788.D | 14 Nov 2024 18:02 | | YP\AJ | Ok |

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**Instrument ID:** FID_G

## Daily Analysis Runlog For Sequence/QCBatch ID # FG111924AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 12:22:16 PM | | |
| Supervise By | Ankita | Supervise On | 11/21/2024 10:02:24 AM | | |
| SubDirectory | FG111924AL | HP Acquire Method | | HP Processing Method | FG111424AL |

| 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 | FG014860.D | 19 Nov 2024 08:39 | | YP\AJ | Ok |
| 2 | I.BLK | I.BLK | FG014861.D | 19 Nov 2024 09:08 | | YP\AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FG014862.D | 19 Nov 2024 10:15 | | YP\AJ | Ok |
| 4 | PP23989 | PP23989 | FG014863.D | 19 Nov 2024 10:51 | | YP\AJ | Ok |
| 5 | P4860-07 | PH2-BOT-008 | FG014864.D | 19 Nov 2024 11:19 | | YP\AJ | Ok |
| 6 | P4860-08 | PH2-BOT-007 | FG014865.D | 19 Nov 2024 11:47 | | YP\AJ | Ok |
| 7 | P4860-09 | PH2-BOT-006 | FG014866.D | 19 Nov 2024 12:16 | | YP\AJ | Ok |
| 8 | P4860-10 | PH2-BOT-005 | FG014867.D | 19 Nov 2024 12:44 | | YP\AJ | Ok |
| 9 | P4860-01 | DUP-01 | FG014868.D | 19 Nov 2024 13:12 | | YP\AJ | Ok |
| 10 | P4860-02 | PH2-BOT-001 | FG014869.D | 19 Nov 2024 13:43 | | YP\AJ | Ok,M |
| 11 | I.BLK | I.BLK | FG014870.D | 19 Nov 2024 14:11 | | YP\AJ | Ok |
| 12 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FG014871.D | 19 Nov 2024 14:40 | | YP\AJ | Ok |
| 13 | PB165088BL | PB165088BL | FG014872.D | 19 Nov 2024 15:12 | | YP\AJ | Ok |
| 14 | PB165088BS | PB165088BS | FG014873.D | 19 Nov 2024 15:40 | | YP\AJ | Ok,M |
| 15 | PB165088BSD | PB165088BSD | FG014874.D | 19 Nov 2024 16:09 | | YP\AJ | Ok,M |
| 16 | P4910-01 | MH-COTTAGE | FG014875.D | 19 Nov 2024 16:37 | | YP\AJ | Ok |
| 17 | P4910-01D | P4910-01D | FG014876.D | 19 Nov 2024 17:05 | | YP\AJ | Ok,M |
| 18 | P4910-01MS | MH-COTTAGEMS | FG014877.D | 19 Nov 2024 17:34 | FG014875.D | YP\AJ | Ok,M |

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**Instrument ID:** FID_G

## Daily Analysis Runlog For Sequence/QCBatch ID # FG111924AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/19/2024 12:22:16 PM | | |
| Supervise By | Ankita | Supervise On | 11/21/2024 10:02:24 AM | | |
| SubDirectory | FG111924AL | HP Acquire Method | | HP Processing Method | FG111424AL |

| 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 | P4910-01MSD | MH-COTTAGEMSD | FG014878.D | 19 Nov 2024 18:02 | FG014875.D!FG014877.D | YP\AJ | Ok,M |
| 20 | P4910-02 | MH-COTTAGE-EPH | FG014879.D | 19 Nov 2024 18:30 | | YP\AJ | Ok |
| 21 | I.BLK | I.BLK | FG014880.D | 19 Nov 2024 18:59 | | YP\AJ | Ok |
| 22 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FG014881.D | 19 Nov 2024 19:27 | | YP\AJ | Ok |

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**EXTRACTION LOGPAGE**

PB165032

| | | | | | |
|---|---|---|---|---|---|
| **SOP ID:** | MNJDEP-EPH-7 | | | | |
| **Clean Up SOP #:** | N/A | | | **Extraction Start Date :** | 11/16/2024 |
| **Matrix :** | Solid | | | **Extraction Start Time :** | 09:30 |
| **Weigh By:** | RJ | **Extraction By:** | RJ | **Extraction End Date :** | 11/16/2024 |
| **Balance check:** | RJ | **Filter By:** | RJ | **Extraction End Time :** | 16:50 |
| **Balance ID:** | EX-SC-2 | **pH Meter ID:** | N/A | **Concentration By:** | EH |
| **pH Strip Lot#:** | N/A | **Hood ID:** | 3,7 | **Supervisor By :** | rajesh |

**Extraction Method:** ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 100 PPM | PP23916 |
| Surrogate | 1.0ML | 100 PPM | PP23934 |
| 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:**

1.5 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 |
|---|---|---|
| 11/18/24 | RP (Ext. Lab) | Y.P. Post 1103. |
| 9:05 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB165032**

**Analytical Method:** MNJDEP-EPH-7

**Concentration Date:** 11/16/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB165032BL | PB165032BL | EPH | 30.01 | N/A | ritesh | Evelyn | 2 | | | U5-1 |
| PB165032BS | PB165032BS | EPH | 30.02 | N/A | ritesh | Evelyn | 2 | | | 2 |
| PB165032BSD | PB165032BSD | EPH | 30.03 | N/A | ritesh | Evelyn | 2 | | | 3 |
| P4839-21 | EX-4-TPH-5 | EPH | 30.06 | N/A | ritesh | Evelyn | 2 | E | | 4 |
| P4839-22 | EX-4-TPH-6 | EPH | 30.07 | N/A | ritesh | Evelyn | 2 | E | | 5 |
| P4839-22DUP | EX-4-TPH-6DUP | EPH | 30.02 | N/A | ritesh | Evelyn | 2 | E | | 6 |
| P4839-22MS | EX-4-TPH-6MS | EPH | 30.03 | N/A | ritesh | Evelyn | 2 | E | | U6-1 |
| P4839-22MSD | EX-4-TPH-6MSD | EPH | 30.05 | N/A | ritesh | Evelyn | 2 | E | | 2 |
| P4860-01 | DUP-01 | EPH | 30.10 | N/A | ritesh | Evelyn | 2 | E | | 3 |
| P4860-02 | PH2-BPT-001 | EPH | 30.03 | N/A | ritesh | Evelyn | 2 | E | | 4 |
| P4860-03 | PH2-BPT-002 | EPH | 30.02 | N/A | ritesh | Evelyn | 2 | E | | 5 |
| P4860-04 | PH2-BPT-003 | EPH | 30.09 | N/A | ritesh | Evelyn | 2 | E | | 6 |
| P4860-05 | PH2-BPT-004 | EPH | 30.05 | N/A | ritesh | Evelyn | 2 | E | | U1-1 |
| P4860-06 | PH2-BPT-009 | EPH | 30.04 | N/A | ritesh | Evelyn | 2 | E | | 2 |
| P4860-07 | PH2-BPT-008 | EPH | 30.01 | N/A | ritesh | Evelyn | 2 | E | | 3 |
| P4860-08 | PH2-BPT-007 | EPH | 30.08 | N/A | ritesh | Evelyn | 2 | E | | 4 |
| P4860-09 | PH2-BPT-006 | EPH | 30.03 | N/A | ritesh | Evelyn | 2 | E | | 5 |
| P4860-10 | PH2-BPT-005 | EPH | 30.06 | N/A | ritesh | Evelyn | 2 | E | | 6 |

* **Extracts relinquished on the same date as received.**

11/16/24

4860 9:30

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** P4860N **WorkList ID :** 185500 **Department :** Extraction **Date :** 11-16-2024 08:05:16

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4839-21 | EX-4-TPH-5 | Solid | EPH | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | NJEPH |
| P4839-22 | EX-4-TPH-6 | Solid | EPH | Cool 4 deg C | ENTA05 | L31 | 11/13/2024 | NJEPH |
| P4860-01 | DUP-01 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-02 | PH2-BPT-001 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-03 | PH2-BPT-002 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-04 | PH2-BPT-003 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-05 | PH2-BPT-004 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-06 | PH2-BPT-009 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-07 | PH2-BPT-008 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-08 | PH2-BPT-007 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-09 | PH2-BPT-006 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |
| P4860-10 | PH2-BPT-005 | Solid | EPH | Cool 4 deg C | CORN02 | L41 | 11/14/2024 | NJEPH |

1296 of 1443

**Date/Time** 11/16/24 9:25
**Raw Sample Received by:** RJ (Cert Corr)
**Raw Sample Relinquished by:** [illegible]



**Date/Time** 11/16/24 10:04
**Raw Sample Received by:** [illegible]
**Raw Sample Relinquished by:** RJ (Cert Corr)

C I H G F E D C B A 9

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4860 | **OrderDate:** | 11/14/2024 1:36:41 PM |
| **Client:** | Tetra Tech | **Project:** | Ocean County Landfill 2024 |
| **Contact:** | John Giuliano | **Location:** | L41 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4860-01** | **DUP-01** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/18/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-02** | **PH2-BOT-001** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/18/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-03** | **PH2-BOT-002** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-04** | **PH2-BOT-003** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-05** | **PH2-BOT-004** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-06** | **PH2-BOT-009** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-07** | **PH2-BOT-008** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-08** | **PH2-BOT-007** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |

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## LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-09** | **PH2-BOT-006** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |
| **P4860-10** | **PH2-BOT-005** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | PCB | 8082A | | 11/18/24 | 11/19/24 | |
| | | | EPH | NJEPH | | 11/16/24 | 11/19/24 | |

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Fax : 908 789 8922



# Hit Summary Sheet
**SW-846**

**SDG No.:** P4860 **Order ID:** P4860

**Client:** Tetra Tech **Project ID:** Ocean County Landfill 2024

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : DUP-01** | | | | | | | | |
| P4860-01 | DUP-01 | SOIL | Aluminum | 237 | | 2.12 | 4.40 | mg/Kg |
| P4860-01 | DUP-01 | SOIL | Antimony | 0.22 | J | 0.13 | 2.20 | mg/Kg |
| P4860-01 | DUP-01 | SOIL | Barium | 0.80 | J | 0.56 | 4.40 | mg/Kg |
| P4860-01 | DUP-01 | SOIL | Beryllium | 0.024 | J | 0.011 | 0.26 | mg/Kg |
| P4860-01 | DUP-01 | SOIL | Cadmium | 0.038 | J | 0.014 | 0.26 | mg/Kg |
| P4860-01 | DUP-01 | SOIL | Calcium | 107 | | 2.46 | 87.9 | mg/Kg |
| P4860-01 | DUP-01 | SOIL | Chromium | 1.80 | | 0.047 | 0.44 | mg/Kg |
| P4860-01 | DUP-01 | SOIL | Cobalt | 0.079 | J | 0.051 | 1.32 | mg/Kg |
| P4860-01 | DUP-01 | SOIL | Copper | 1.13 | | 0.41 | 0.88 | mg/Kg |
| P4860-01 | DUP-01 | SOIL | Iron | 1340 | | 2.37 | 4.40 | mg/Kg |
| P4860-01 | DUP-01 | SOIL | Lead | 0.86 | | 0.13 | 0.53 | mg/Kg |
| P4860-01 | DUP-01 | SOIL | Magnesium | 11.6 | J | 3.02 | 87.9 | mg/Kg |
| P4860-01 | DUP-01 | SOIL | Manganese | 3.14 | | 0.062 | 0.88 | mg/Kg |
| P4860-01 | DUP-01 | SOIL | Nickel | 0.30 | J | 0.079 | 1.76 | mg/Kg |
| P4860-01 | DUP-01 | SOIL | Potassium | 35.6 | J | 25.2 | 87.9 | mg/Kg |
| P4860-01 | DUP-01 | SOIL | Vanadium | 2.98 | | 0.24 | 1.76 | mg/Kg |
| P4860-01 | DUP-01 | SOIL | Zinc | 3.98 | | 0.097 | 1.76 | mg/Kg |
| **Client ID : PH2-BOT-001** | | | | | | | | |
| P4860-02 | PH2-BOT-001 | SOIL | Aluminum | 802 | | 2.07 | 4.29 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Barium | 3.59 | J | 0.55 | 4.29 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Beryllium | 0.042 | J | 0.010 | 0.26 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Cadmium | 0.095 | J | 0.014 | 0.26 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Calcium | 245 | | 2.40 | 85.7 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Chromium | 4.30 | | 0.046 | 0.43 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Cobalt | 0.15 | J | 0.050 | 1.29 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Copper | 4.12 | | 0.40 | 0.86 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Iron | 1740 | | 2.31 | 4.29 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Lead | 3.02 | | 0.13 | 0.51 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Magnesium | 32.0 | J | 2.94 | 85.7 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Manganese | 7.09 | | 0.061 | 0.86 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Mercury | 0.016 | | 0.0060 | 0.012 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Nickel | 1.70 | J | 0.077 | 1.71 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Potassium | 54.3 | J | 24.6 | 85.7 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Silver | 0.11 | J | 0.045 | 0.43 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Vanadium | 3.79 | | 0.23 | 1.71 | mg/Kg |
| P4860-02 | PH2-BOT-001 | SOIL | Zinc | 17.9 | | 0.094 | 1.71 | mg/Kg |

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Fax : 908 789 8922



# Hit Summary Sheet
**SW-846**

**SDG No.:** P4860 **Order ID:** P4860

**Client:** Tetra Tech **Project ID:** Ocean County Landfill 2024

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : PH2-BOT-002** | | | | | | | | |
| P4860-03 | PH2-BOT-002 | SOIL | Aluminum | 842 | | 2.08 | 4.31 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Barium | 5.21 | | 0.55 | 4.31 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Beryllium | 0.032 | J | 0.010 | 0.26 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Cadmium | 0.093 | J | 0.014 | 0.26 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Calcium | 446 | | 2.42 | 86.3 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Chromium | 4.64 | | 0.047 | 0.43 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Cobalt | 0.19 | J | 0.050 | 1.29 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Copper | 6.86 | | 0.41 | 0.86 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Iron | 1280 | | 2.32 | 4.31 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Lead | 3.61 | | 0.13 | 0.52 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Magnesium | 77.8 | J | 2.96 | 86.3 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Manganese | 6.98 | | 0.061 | 0.86 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Mercury | 0.025 | | 0.0060 | 0.014 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Nickel | 3.03 | | 0.078 | 1.73 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Potassium | 57.9 | J | 24.8 | 86.3 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Silver | 0.19 | J | 0.045 | 0.43 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Vanadium | 2.83 | | 0.23 | 1.73 | mg/Kg |
| P4860-03 | PH2-BOT-002 | SOIL | Zinc | 14.4 | | 0.095 | 1.73 | mg/Kg |
| **Client ID : PH2-BOT-003** | | | | | | | | |
| P4860-04 | PH2-BOT-003 | SOIL | Aluminum | 1300 | | 2.16 | 4.48 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Arsenic | 0.55 | J | 0.26 | 0.90 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Barium | 3.61 | J | 0.57 | 4.48 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Beryllium | 0.21 | J | 0.011 | 0.27 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Cadmium | 0.36 | | 0.014 | 0.27 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Calcium | 348 | | 2.51 | 89.7 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Chromium | 17.9 | | 0.048 | 0.45 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Cobalt | 0.44 | J | 0.052 | 1.35 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Copper | 5.12 | | 0.42 | 0.90 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Iron | 10100 | | 2.41 | 4.48 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Lead | 2.93 | | 0.14 | 0.54 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Magnesium | 37.6 | J | 3.08 | 89.7 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Manganese | 2.89 | | 0.064 | 0.90 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Mercury | 0.039 | | 0.0060 | 0.014 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Nickel | 1.01 | J | 0.081 | 1.79 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Potassium | 39.3 | J | 25.7 | 89.7 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Silver | 0.094 | J | 0.047 | 0.45 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Vanadium | 10.8 | | 0.24 | 1.79 | mg/Kg |
| P4860-04 | PH2-BOT-003 | SOIL | Zinc | 7.61 | | 0.099 | 1.79 | mg/Kg |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4860 **Order ID:** P4860

**Client:** Tetra Tech **Project ID:** Ocean County Landfill 2024

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : PH2-BOT-004** | | | | | | | | |
| P4860-05 | PH2-BOT-004 | SOIL | Aluminum | 816 | | 2.24 | 4.65 | mg/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Arsenic | 0.70 | J | 0.27 | 0.93 | mg/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Barium | 2.23 | J | 0.60 | 4.65 | mg/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Beryllium | 0.12 | J | 0.011 | 0.28 | mg/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Cadmium | 0.18 | J | 0.015 | 0.28 | mg/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Calcium | 103 | | 2.61 | 93.1 | mg/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Chromium | 4.73 | | 0.050 | 0.47 | mg/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Cobalt | 0.30 | J | 0.054 | 1.40 | mg/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Copper | 2.47 | | 0.44 | 0.93 | mg/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Iron | 5890 | | 2.50 | 4.65 | mg/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Lead | 1.55 | | 0.14 | 0.56 | mg/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Magnesium | 58.4 | J | 3.19 | 93.1 | mg/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Manganese | 3.41 | | 0.066 | 0.93 | mg/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Nickel | 0.65 | J | 0.084 | 1.86 | mg/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Potassium | 84.0 | J | 26.7 | 93.1 | mg/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Vanadium | 5.62 | | 0.25 | 1.86 | mg/Kg |
| P4860-05 | PH2-BOT-004 | SOIL | Zinc | 4.29 | | 0.10 | 1.86 | mg/Kg |
| **Client ID : PH2-BOT-009** | | | | | | | | |
| P4860-06 | PH2-BOT-009 | SOIL | Aluminum | 568 | | 2.19 | 4.54 | mg/Kg |
| P4860-06 | PH2-BOT-009 | SOIL | Barium | 0.83 | J | 0.58 | 4.54 | mg/Kg |
| P4860-06 | PH2-BOT-009 | SOIL | Beryllium | 0.083 | J | 0.011 | 0.27 | mg/Kg |
| P4860-06 | PH2-BOT-009 | SOIL | Cadmium | 0.11 | J | 0.015 | 0.27 | mg/Kg |
| P4860-06 | PH2-BOT-009 | SOIL | Calcium | 54.4 | J | 2.54 | 90.8 | mg/Kg |
| P4860-06 | PH2-BOT-009 | SOIL | Chromium | 2.90 | | 0.049 | 0.45 | mg/Kg |
| P4860-06 | PH2-BOT-009 | SOIL | Cobalt | 0.15 | J | 0.053 | 1.36 | mg/Kg |
| P4860-06 | PH2-BOT-009 | SOIL | Copper | 1.51 | | 0.43 | 0.91 | mg/Kg |
| P4860-06 | PH2-BOT-009 | SOIL | Iron | 3990 | | 2.44 | 4.54 | mg/Kg |
| P4860-06 | PH2-BOT-009 | SOIL | Lead | 1.08 | | 0.14 | 0.55 | mg/Kg |
| P4860-06 | PH2-BOT-009 | SOIL | Magnesium | 17.6 | J | 3.12 | 90.8 | mg/Kg |
| P4860-06 | PH2-BOT-009 | SOIL | Manganese | 1.95 | | 0.064 | 0.91 | mg/Kg |
| P4860-06 | PH2-BOT-009 | SOIL | Nickel | 0.33 | J | 0.082 | 1.82 | mg/Kg |
| P4860-06 | PH2-BOT-009 | SOIL | Vanadium | 3.73 | | 0.25 | 1.82 | mg/Kg |
| P4860-06 | PH2-BOT-009 | SOIL | Zinc | 2.73 | | 0.10 | 1.82 | mg/Kg |
| **Client ID : PH2-BOT-008** | | | | | | | | |
| P4860-07 | PH2-BOT-008 | SOIL | Aluminum | 564 | | 2.12 | 4.40 | mg/Kg |
| P4860-07 | PH2-BOT-008 | SOIL | Barium | 3.91 | J | 0.56 | 4.40 | mg/Kg |
| P4860-07 | PH2-BOT-008 | SOIL | Beryllium | 0.052 | J | 0.011 | 0.26 | mg/Kg |
| P4860-07 | PH2-BOT-008 | SOIL | Cadmium | 0.095 | J | 0.014 | 0.26 | mg/Kg |

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Fax : 908 789 8922



# Hit Summary Sheet
**SW-846**

**SDG No.:** P4860 **Order ID:** P4860

**Client:** Tetra Tech **Project ID:** Ocean County Landfill 2024

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| P4860-07 | PH2-BOT-008 | SOIL | Calcium | 272 | | 2.46 | 87.9 | mg/Kg |
| P4860-07 | PH2-BOT-008 | SOIL | Chromium | 3.39 | | 0.047 | 0.44 | mg/Kg |
| P4860-07 | PH2-BOT-008 | SOIL | Cobalt | 0.23 | J | 0.051 | 1.32 | mg/Kg |
| P4860-07 | PH2-BOT-008 | SOIL | Copper | 2.61 | | 0.41 | 0.88 | mg/Kg |
| P4860-07 | PH2-BOT-008 | SOIL | Iron | 2250 | | 2.37 | 4.40 | mg/Kg |
| P4860-07 | PH2-BOT-008 | SOIL | Lead | 10.2 | | 0.13 | 0.53 | mg/Kg |
| P4860-07 | PH2-BOT-008 | SOIL | Magnesium | 72.0 | J | 3.02 | 87.9 | mg/Kg |
| P4860-07 | PH2-BOT-008 | SOIL | Manganese | 6.35 | | 0.062 | 0.88 | mg/Kg |
| P4860-07 | PH2-BOT-008 | SOIL | Mercury | 0.0080 | J | 0.0060 | 0.013 | mg/Kg |
| P4860-07 | PH2-BOT-008 | SOIL | Nickel | 0.57 | J | 0.079 | 1.76 | mg/Kg |
| P4860-07 | PH2-BOT-008 | SOIL | Potassium | 35.0 | J | 25.2 | 87.9 | mg/Kg |
| P4860-07 | PH2-BOT-008 | SOIL | Vanadium | 3.70 | | 0.24 | 1.76 | mg/Kg |
| P4860-07 | PH2-BOT-008 | SOIL | Zinc | 7.06 | | 0.097 | 1.76 | mg/Kg |
| **Client ID :** | **PH2-BOT-007** | | | | | | | |
| P4860-08 | PH2-BOT-007 | SOIL | Aluminum | 908 | | 2.11 | 4.38 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Barium | 2.89 | J | 0.56 | 4.38 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Beryllium | 0.090 | J | 0.011 | 0.26 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Cadmium | 0.16 | J | 0.014 | 0.26 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Calcium | 570 | | 2.45 | 87.6 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Chromium | 4.93 | | 0.047 | 0.44 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Cobalt | 0.23 | J | 0.051 | 1.31 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Copper | 3.37 | | 0.41 | 0.88 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Iron | 4420 | | 2.36 | 4.38 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Lead | 2.07 | | 0.13 | 0.53 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Magnesium | 58.0 | J | 3.00 | 87.6 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Manganese | 3.22 | | 0.062 | 0.88 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Mercury | 0.0090 | J | 0.0060 | 0.013 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Nickel | 0.45 | J | 0.079 | 1.75 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Potassium | 80.9 | J | 25.1 | 87.6 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Silver | 0.15 | J | 0.046 | 0.44 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Sodium | 56.2 | J | 31.6 | 87.6 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Vanadium | 5.76 | | 0.24 | 1.75 | mg/Kg |
| P4860-08 | PH2-BOT-007 | SOIL | Zinc | 8.05 | | 0.096 | 1.75 | mg/Kg |
| **Client ID :** | **PH2-BOT-006** | | | | | | | |
| P4860-09 | PH2-BOT-006 | SOIL | Aluminum | 528 | | 2.12 | 4.40 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Barium | 0.69 | J | 0.56 | 4.40 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Beryllium | 0.054 | J | 0.011 | 0.26 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Cadmium | 0.097 | J | 0.014 | 0.26 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Calcium | 135 | | 2.47 | 88.0 | mg/Kg |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4860 **Order ID:** P4860

**Client:** Tetra Tech **Project ID:** Ocean County Landfill 2024

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| P4860-09 | PH2-BOT-006 | SOIL | Chromium | 7.11 | | 0.048 | 0.44 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Cobalt | 0.14 | J | 0.051 | 1.32 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Copper | 1.78 | | 0.41 | 0.88 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Iron | 2880 | | 2.37 | 4.40 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Lead | 1.13 | | 0.13 | 0.53 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Magnesium | 21.3 | J | 3.02 | 88.0 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Manganese | 2.65 | | 0.063 | 0.88 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Mercury | 0.0090 | J | 0.0060 | 0.014 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Nickel | 0.40 | J | 0.079 | 1.76 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Potassium | 51.7 | J | 25.3 | 88.0 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Silver | 0.056 | J | 0.046 | 0.44 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Sodium | 54.2 | J | 31.8 | 88.0 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Vanadium | 5.99 | | 0.24 | 1.76 | mg/Kg |
| P4860-09 | PH2-BOT-006 | SOIL | Zinc | 4.95 | | 0.097 | 1.76 | mg/Kg |
| **Client ID :** | **PH2-BOT-005** | | | | | | | |
| P4860-10 | PH2-BOT-005 | SOIL | Aluminum | 220 | | 2.19 | 4.55 | mg/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Beryllium | 0.029 | J | 0.011 | 0.27 | mg/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Cadmium | 0.041 | J | 0.015 | 0.27 | mg/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Calcium | 81.8 | J | 2.55 | 91.1 | mg/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Chromium | 2.58 | | 0.049 | 0.46 | mg/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Cobalt | 0.073 | J | 0.053 | 1.37 | mg/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Copper | 0.96 | | 0.43 | 0.91 | mg/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Iron | 1550 | | 2.45 | 4.55 | mg/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Lead | 0.55 | | 0.14 | 0.55 | mg/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Magnesium | 9.02 | J | 3.12 | 91.1 | mg/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Manganese | 2.02 | | 0.065 | 0.91 | mg/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Nickel | 0.46 | J | 0.082 | 1.82 | mg/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Vanadium | 3.33 | | 0.25 | 1.82 | mg/Kg |
| P4860-10 | PH2-BOT-005 | SOIL | Zinc | 2.59 | | 0.10 | 1.82 | mg/Kg |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 96.8 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 237 | | 1 | 2.12 | 4.40 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7440-36-0 | Antimony | 0.22 | JN | 1 | 0.13 | 2.20 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7440-38-2 | Arsenic | 0.26 | U | 1 | 0.26 | 0.88 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 0.80 | J | 1 | 0.56 | 4.40 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7440-41-7 | Beryllium | 0.024 | J | 1 | 0.011 | 0.26 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 0.038 | J | 1 | 0.014 | 0.26 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7440-70-2 | Calcium | 107 | | 1 | 2.46 | 87.9 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 1.80 | | 1 | 0.047 | 0.44 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7440-48-4 | Cobalt | 0.079 | J | 1 | 0.051 | 1.32 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7440-50-8 | Copper | 1.13 | N | 1 | 0.41 | 0.88 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7439-89-6 | Iron | 1340 | | 1 | 2.37 | 4.40 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 0.86 | | 1 | 0.13 | 0.53 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7439-95-4 | Magnesium | 11.6 | J | 1 | 3.02 | 87.9 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7439-96-5 | Manganese | 3.14 | | 1 | 0.062 | 0.88 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.0060 | U | 1 | 0.0060 | 0.013 | mg/Kg | 11/21/24 14:40 | 11/22/24 14:18 | SW7471B | |
| 7440-02-0 | Nickel | 0.30 | J | 1 | 0.079 | 1.76 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7440-09-7 | Potassium | 35.6 | J | 1 | 25.2 | 87.9 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7782-49-2 | Selenium | 0.29 | UN | 1 | 0.29 | 0.88 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 0.046 | U | 1 | 0.046 | 0.44 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7440-23-5 | Sodium | 31.7 | U | 1 | 31.7 | 87.9 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7440-28-0 | Thallium | 0.39 | U | 1 | 0.39 | 1.76 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7440-62-2 | Vanadium | 2.98 | | 1 | 0.24 | 1.76 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |
| 7440-66-6 | Zinc | 3.98 | | 1 | 0.097 | 1.76 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:01 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Light brown | Clarity Before: | | Texture: | Medium |
| Color After: | Light Green | Clarity After: | | Artifacts: | |
| Comments: | TCL+30/TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 96.8 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 802 | | 1 | 2.07 | 4.29 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7440-36-0 | Antimony | 0.13 | UN | 1 | 0.13 | 2.14 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7440-38-2 | Arsenic | 0.25 | U | 1 | 0.25 | 0.86 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 3.59 | J | 1 | 0.55 | 4.29 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7440-41-7 | Beryllium | 0.042 | J | 1 | 0.010 | 0.26 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 0.095 | J | 1 | 0.014 | 0.26 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7440-70-2 | Calcium | 245 | | 1 | 2.40 | 85.7 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 4.30 | | 1 | 0.046 | 0.43 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7440-48-4 | Cobalt | 0.15 | J | 1 | 0.050 | 1.29 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7440-50-8 | Copper | 4.12 | N | 1 | 0.40 | 0.86 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7439-89-6 | Iron | 1740 | | 1 | 2.31 | 4.29 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 3.02 | | 1 | 0.13 | 0.51 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7439-95-4 | Magnesium | 32.0 | J | 1 | 2.94 | 85.7 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7439-96-5 | Manganese | 7.09 | | 1 | 0.061 | 0.86 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.016 | | 1 | 0.0060 | 0.012 | mg/Kg | 11/21/24 14:40 | 11/22/24 14:27 | SW7471B | |
| 7440-02-0 | Nickel | 1.70 | J | 1 | 0.077 | 1.71 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7440-09-7 | Potassium | 54.3 | J | 1 | 24.6 | 85.7 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7782-49-2 | Selenium | 0.28 | UN | 1 | 0.28 | 0.86 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 0.11 | J | 1 | 0.045 | 0.43 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7440-23-5 | Sodium | 30.9 | U | 1 | 30.9 | 85.7 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7440-28-0 | Thallium | 0.38 | U | 1 | 0.38 | 1.71 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7440-62-2 | Vanadium | 3.79 | | 1 | 0.23 | 1.71 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |
| 7440-66-6 | Zinc | 17.9 | | 1 | 0.094 | 1.71 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:06 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Light brown | Clarity Before: | | Texture: | Medium |
| Color After: | Light Green | Clarity After: | | Artifacts: | |
| Comments: | TCL+30/TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 96.6 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 842 | | 1 | 2.08 | 4.31 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7440-36-0 | Antimony | 0.13 | UN | 1 | 0.13 | 2.16 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7440-38-2 | Arsenic | 0.25 | U | 1 | 0.25 | 0.86 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 5.21 | | 1 | 0.55 | 4.31 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7440-41-7 | Beryllium | 0.032 | J | 1 | 0.010 | 0.26 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 0.093 | J | 1 | 0.014 | 0.26 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7440-70-2 | Calcium | 446 | | 1 | 2.42 | 86.3 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 4.64 | | 1 | 0.047 | 0.43 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7440-48-4 | Cobalt | 0.19 | J | 1 | 0.050 | 1.29 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7440-50-8 | Copper | 6.86 | N | 1 | 0.41 | 0.86 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7439-89-6 | Iron | 1280 | | 1 | 2.32 | 4.31 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 3.61 | | 1 | 0.13 | 0.52 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7439-95-4 | Magnesium | 77.8 | J | 1 | 2.96 | 86.3 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7439-96-5 | Manganese | 6.98 | | 1 | 0.061 | 0.86 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.025 | | 1 | 0.0060 | 0.014 | mg/Kg | 11/21/24 14:40 | 11/22/24 14:34 | SW7471B | |
| 7440-02-0 | Nickel | 3.03 | | 1 | 0.078 | 1.73 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7440-09-7 | Potassium | 57.9 | J | 1 | 24.8 | 86.3 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7782-49-2 | Selenium | 0.28 | UN | 1 | 0.28 | 0.86 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 0.19 | J | 1 | 0.045 | 0.43 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7440-23-5 | Sodium | 31.1 | U | 1 | 31.1 | 86.3 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7440-28-0 | Thallium | 0.38 | U | 1 | 0.38 | 1.73 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7440-62-2 | Vanadium | 2.83 | | 1 | 0.23 | 1.73 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |
| 7440-66-6 | Zinc | 14.4 | | 1 | 0.095 | 1.73 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:10 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | LightBrown | Clarity Before: | | Texture: | Medium |
| Color After: | Light Green | Clarity After: | | Artifacts: | |
| Comments: | TCL+30/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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 97.8 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 1300 | | 1 | 2.16 | 4.48 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7440-36-0 | Antimony | 0.14 | UN | 1 | 0.14 | 2.24 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7440-38-2 | Arsenic | 0.55 | J | 1 | 0.26 | 0.90 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 3.61 | J | 1 | 0.57 | 4.48 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7440-41-7 | Beryllium | 0.21 | J | 1 | 0.011 | 0.27 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 0.36 | | 1 | 0.014 | 0.27 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7440-70-2 | Calcium | 348 | | 1 | 2.51 | 89.7 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 17.9 | | 1 | 0.048 | 0.45 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7440-48-4 | Cobalt | 0.44 | J | 1 | 0.052 | 1.35 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7440-50-8 | Copper | 5.12 | N | 1 | 0.42 | 0.90 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7439-89-6 | Iron | 10100 | | 1 | 2.41 | 4.48 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 2.93 | | 1 | 0.14 | 0.54 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7439-95-4 | Magnesium | 37.6 | J | 1 | 3.08 | 89.7 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7439-96-5 | Manganese | 2.89 | | 1 | 0.064 | 0.90 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.039 | | 1 | 0.0060 | 0.014 | mg/Kg | 11/21/24 14:40 | 11/22/24 14:36 | SW7471B | |
| 7440-02-0 | Nickel | 1.01 | J | 1 | 0.081 | 1.79 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7440-09-7 | Potassium | 39.3 | J | 1 | 25.7 | 89.7 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7782-49-2 | Selenium | 0.30 | UN | 1 | 0.30 | 0.90 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 0.094 | J | 1 | 0.047 | 0.45 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7440-23-5 | Sodium | 32.4 | U | 1 | 32.4 | 89.7 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7440-28-0 | Thallium | 0.40 | U | 1 | 0.40 | 1.79 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7440-62-2 | Vanadium | 10.8 | | 1 | 0.24 | 1.79 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |
| 7440-66-6 | Zinc | 7.61 | | 1 | 0.099 | 1.79 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:14 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | LightBrown | Clarity Before: | | Texture: | Medium |
| Color After: | Light Green | Clarity After: | | Artifacts: | |
| Comments: | TCL+30/TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 98.1 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 816 | | 1 | 2.24 | 4.65 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7440-36-0 | Antimony | 0.14 | UN | 1 | 0.14 | 2.33 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7440-38-2 | Arsenic | 0.70 | J | 1 | 0.27 | 0.93 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 2.23 | J | 1 | 0.60 | 4.65 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7440-41-7 | Beryllium | 0.12 | J | 1 | 0.011 | 0.28 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 0.18 | J | 1 | 0.015 | 0.28 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7440-70-2 | Calcium | 103 | | 1 | 2.61 | 93.1 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 4.73 | | 1 | 0.050 | 0.47 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7440-48-4 | Cobalt | 0.30 | J | 1 | 0.054 | 1.40 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7440-50-8 | Copper | 2.47 | N | 1 | 0.44 | 0.93 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7439-89-6 | Iron | 5890 | | 1 | 2.50 | 4.65 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 1.55 | | 1 | 0.14 | 0.56 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7439-95-4 | Magnesium | 58.4 | J | 1 | 3.19 | 93.1 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7439-96-5 | Manganese | 3.41 | | 1 | 0.066 | 0.93 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.0060 | U | 1 | 0.0060 | 0.013 | mg/Kg | 11/21/24 14:40 | 11/22/24 14:39 | SW7471B | |
| 7440-02-0 | Nickel | 0.65 | J | 1 | 0.084 | 1.86 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7440-09-7 | Potassium | 84.0 | J | 1 | 26.7 | 93.1 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7782-49-2 | Selenium | 0.31 | UN | 1 | 0.31 | 0.93 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 0.048 | U | 1 | 0.048 | 0.47 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7440-23-5 | Sodium | 33.6 | U | 1 | 33.6 | 93.1 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7440-28-0 | Thallium | 0.41 | U | 1 | 0.41 | 1.86 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7440-62-2 | Vanadium | 5.62 | | 1 | 0.25 | 1.86 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |
| 7440-66-6 | Zinc | 4.29 | | 1 | 0.10 | 1.86 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:27 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | LightBrown | Clarity Before: | | Texture: | Medium |
| Color After: | Light Green | Clarity After: | | Artifacts: | |
| Comments: | TCL+30/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: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 98.3 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 568 | | 1 | 2.19 | 4.54 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7440-36-0 | Antimony | 0.14 | UN | 1 | 0.14 | 2.27 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7440-38-2 | Arsenic | 0.26 | U | 1 | 0.26 | 0.91 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 0.83 | J | 1 | 0.58 | 4.54 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7440-41-7 | Beryllium | 0.083 | J | 1 | 0.011 | 0.27 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 0.11 | J | 1 | 0.015 | 0.27 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7440-70-2 | Calcium | 54.4 | J | 1 | 2.54 | 90.8 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 2.90 | | 1 | 0.049 | 0.45 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7440-48-4 | Cobalt | 0.15 | J | 1 | 0.053 | 1.36 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7440-50-8 | Copper | 1.51 | N | 1 | 0.43 | 0.91 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7439-89-6 | Iron | 3990 | | 1 | 2.44 | 4.54 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 1.08 | | 1 | 0.14 | 0.55 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7439-95-4 | Magnesium | 17.6 | J | 1 | 3.12 | 90.8 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7439-96-5 | Manganese | 1.95 | | 1 | 0.064 | 0.91 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.0060 | U | 1 | 0.0060 | 0.014 | mg/Kg | 11/21/24 14:40 | 11/22/24 14:41 | SW7471B | |
| 7440-02-0 | Nickel | 0.33 | J | 1 | 0.082 | 1.82 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7440-09-7 | Potassium | 26.1 | U | 1 | 26.1 | 90.8 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7782-49-2 | Selenium | 0.30 | UN | 1 | 0.30 | 0.91 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 0.047 | U | 1 | 0.047 | 0.45 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7440-23-5 | Sodium | 32.8 | U | 1 | 32.8 | 90.8 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7440-28-0 | Thallium | 0.40 | U | 1 | 0.40 | 1.82 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7440-62-2 | Vanadium | 3.73 | | 1 | 0.25 | 1.82 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |
| 7440-66-6 | Zinc | 2.73 | | 1 | 0.10 | 1.82 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:31 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | LightBrown | Clarity Before: | | Texture: | Medium |
| Color After: | Light Green | Clarity After: | | Artifacts: | |
| Comments: | TCL+30/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,
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 96.8 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 564 | | 1 | 2.12 | 4.40 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7440-36-0 | Antimony | 0.13 | UN | 1 | 0.13 | 2.20 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7440-38-2 | Arsenic | 0.26 | U | 1 | 0.26 | 0.88 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 3.91 | J | 1 | 0.56 | 4.40 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7440-41-7 | Beryllium | 0.052 | J | 1 | 0.011 | 0.26 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 0.095 | J | 1 | 0.014 | 0.26 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7440-70-2 | Calcium | 272 | | 1 | 2.46 | 87.9 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 3.39 | | 1 | 0.047 | 0.44 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7440-48-4 | Cobalt | 0.23 | J | 1 | 0.051 | 1.32 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7440-50-8 | Copper | 2.61 | N | 1 | 0.41 | 0.88 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7439-89-6 | Iron | 2250 | | 1 | 2.37 | 4.40 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 10.2 | | 1 | 0.13 | 0.53 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7439-95-4 | Magnesium | 72.0 | J | 1 | 3.02 | 87.9 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7439-96-5 | Manganese | 6.35 | | 1 | 0.062 | 0.88 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.0080 | J | 1 | 0.0060 | 0.013 | mg/Kg | 11/21/24 14:40 | 11/22/24 14:43 | SW7471B | |
| 7440-02-0 | Nickel | 0.57 | J | 1 | 0.079 | 1.76 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7440-09-7 | Potassium | 35.0 | J | 1 | 25.2 | 87.9 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7782-49-2 | Selenium | 0.29 | UN | 1 | 0.29 | 0.88 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 0.046 | U | 1 | 0.046 | 0.44 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7440-23-5 | Sodium | 31.7 | U | 1 | 31.7 | 87.9 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7440-28-0 | Thallium | 0.39 | U | 1 | 0.39 | 1.76 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7440-62-2 | Vanadium | 3.70 | | 1 | 0.24 | 1.76 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |
| 7440-66-6 | Zinc | 7.06 | | 1 | 0.097 | 1.76 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:35 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Light Brown | Clarity Before: | | Texture: | Medium |
| Color After: | Light Green | Clarity After: | | Artifacts: | |
| Comments: | TCL+30/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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 98 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 908 | | 1 | 2.11 | 4.38 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7440-36-0 | Antimony | 0.13 | UN | 1 | 0.13 | 2.19 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7440-38-2 | Arsenic | 0.25 | U | 1 | 0.25 | 0.88 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 2.89 | J | 1 | 0.56 | 4.38 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7440-41-7 | Beryllium | 0.090 | J | 1 | 0.011 | 0.26 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 0.16 | J | 1 | 0.014 | 0.26 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7440-70-2 | Calcium | 570 | | 1 | 2.45 | 87.6 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 4.93 | | 1 | 0.047 | 0.44 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7440-48-4 | Cobalt | 0.23 | J | 1 | 0.051 | 1.31 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7440-50-8 | Copper | 3.37 | N | 1 | 0.41 | 0.88 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7439-89-6 | Iron | 4420 | | 1 | 2.36 | 4.38 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 2.07 | | 1 | 0.13 | 0.53 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7439-95-4 | Magnesium | 58.0 | J | 1 | 3.00 | 87.6 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7439-96-5 | Manganese | 3.22 | | 1 | 0.062 | 0.88 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.0090 | J | 1 | 0.0060 | 0.013 | mg/Kg | 11/21/24 14:40 | 11/22/24 14:46 | SW7471B | |
| 7440-02-0 | Nickel | 0.45 | J | 1 | 0.079 | 1.75 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7440-09-7 | Potassium | 80.9 | J | 1 | 25.1 | 87.6 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7782-49-2 | Selenium | 0.29 | UN | 1 | 0.29 | 0.88 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 0.15 | J | 1 | 0.046 | 0.44 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7440-23-5 | Sodium | 56.2 | J | 1 | 31.6 | 87.6 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7440-28-0 | Thallium | 0.39 | U | 1 | 0.39 | 1.75 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7440-62-2 | Vanadium | 5.76 | | 1 | 0.24 | 1.75 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |
| 7440-66-6 | Zinc | 8.05 | | 1 | 0.096 | 1.75 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:39 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Light Brown | Clarity Before: | | Texture: | Medium |
| Color After: | Light Green | Clarity After: | | Artifacts: | |
| Comments: | TCL+30/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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 97.5 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 528 | | 1 | 2.12 | 4.40 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7440-36-0 | Antimony | 0.13 | UN | 1 | 0.13 | 2.20 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7440-38-2 | Arsenic | 0.26 | U | 1 | 0.26 | 0.88 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 0.69 | J | 1 | 0.56 | 4.40 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7440-41-7 | Beryllium | 0.054 | J | 1 | 0.011 | 0.26 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 0.097 | J | 1 | 0.014 | 0.26 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7440-70-2 | Calcium | 135 | | 1 | 2.47 | 88.0 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 7.11 | | 1 | 0.048 | 0.44 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7440-48-4 | Cobalt | 0.14 | J | 1 | 0.051 | 1.32 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7440-50-8 | Copper | 1.78 | N | 1 | 0.41 | 0.88 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7439-89-6 | Iron | 2880 | | 1 | 2.37 | 4.40 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 1.13 | | 1 | 0.13 | 0.53 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7439-95-4 | Magnesium | 21.3 | J | 1 | 3.02 | 88.0 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7439-96-5 | Manganese | 2.65 | | 1 | 0.063 | 0.88 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.0090 | J | 1 | 0.0060 | 0.014 | mg/Kg | 11/21/24 14:40 | 11/22/24 14:48 | SW7471B | |
| 7440-02-0 | Nickel | 0.40 | J | 1 | 0.079 | 1.76 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7440-09-7 | Potassium | 51.7 | J | 1 | 25.3 | 88.0 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7782-49-2 | Selenium | 0.29 | UN | 1 | 0.29 | 0.88 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 0.056 | J | 1 | 0.046 | 0.44 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7440-23-5 | Sodium | 54.2 | J | 1 | 31.8 | 88.0 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7440-28-0 | Thallium | 0.39 | U | 1 | 0.39 | 1.76 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7440-62-2 | Vanadium | 5.99 | | 1 | 0.24 | 1.76 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |
| 7440-66-6 | Zinc | 4.95 | | 1 | 0.097 | 1.76 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:44 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Light Brown | Clarity Before: | | Texture: | Medium |
| Color After: | Light Green | Clarity After: | | Artifacts: | |
| Comments: | TCL+30/TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 97.6 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 220 | | 1 | 2.19 | 4.55 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7440-36-0 | Antimony | 0.14 | UN | 1 | 0.14 | 2.28 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7440-38-2 | Arsenic | 0.26 | U | 1 | 0.26 | 0.91 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 0.58 | U | 1 | 0.58 | 4.55 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7440-41-7 | Beryllium | 0.029 | J | 1 | 0.011 | 0.27 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 0.041 | J | 1 | 0.015 | 0.27 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7440-70-2 | Calcium | 81.8 | J | 1 | 2.55 | 91.1 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 2.58 | | 1 | 0.049 | 0.46 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7440-48-4 | Cobalt | 0.073 | J | 1 | 0.053 | 1.37 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7440-50-8 | Copper | 0.96 | N | 1 | 0.43 | 0.91 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7439-89-6 | Iron | 1550 | | 1 | 2.45 | 4.55 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 0.55 | | 1 | 0.14 | 0.55 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7439-95-4 | Magnesium | 9.02 | J | 1 | 3.12 | 91.1 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7439-96-5 | Manganese | 2.02 | | 1 | 0.065 | 0.91 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.0060 | U | 1 | 0.0060 | 0.013 | mg/Kg | 11/21/24 14:40 | 11/22/24 14:50 | SW7471B | |
| 7440-02-0 | Nickel | 0.46 | J | 1 | 0.082 | 1.82 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7440-09-7 | Potassium | 26.1 | U | 1 | 26.1 | 91.1 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7782-49-2 | Selenium | 0.30 | UN | 1 | 0.30 | 0.91 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 0.047 | U | 1 | 0.047 | 0.46 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7440-23-5 | Sodium | 32.9 | U | 1 | 32.9 | 91.1 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7440-28-0 | Thallium | 0.40 | U | 1 | 0.40 | 1.82 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7440-62-2 | Vanadium | 3.33 | | 1 | 0.25 | 1.82 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |
| 7440-66-6 | Zinc | 2.59 | | 1 | 0.10 | 1.82 | mg/Kg | 11/18/24 09:30 | 11/19/24 16:48 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Light Brown | Clarity Before: | | Texture: | Medium |
| Color After: | Light Green | Clarity After: | | Artifacts: | |
| Comments: | TCL+30/TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICB98** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/22/2024 | 14:00 | LB133581 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB37** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/22/2024 | 14:04 | LB133581 |
| **CCB38** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/22/2024 | 14:32 | LB133581 |
| **CCB39** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/22/2024 | 14:59 | LB133581 |
| **CCB40** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/22/2024 | 15:26 | LB133581 |
| **CCB41** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/22/2024 | 15:49 | LB133581 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

| 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 | 11/18/2024 | 13:15 | LB133502 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/18/2024 | 13:15 | LB133502 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/18/2024 | 13:15 | LB133502 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/18/2024 | 13:15 | LB133502 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 13:15 | LB133502 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/18/2024 | 13:15 | LB133502 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 13:15 | LB133502 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 13:15 | LB133502 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 13:15 | LB133502 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 13:15 | LB133502 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 13:15 | LB133502 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

| 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 | 11/18/2024 | 14:02 | LB133502 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/18/2024 | 14:02 | LB133502 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/18/2024 | 14:02 | LB133502 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/18/2024 | 14:02 | LB133502 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 14:02 | LB133502 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/18/2024 | 14:02 | LB133502 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 14:02 | LB133502 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 14:02 | LB133502 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 14:02 | LB133502 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 14:02 | LB133502 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 14:02 | LB133502 |
| CCB02 | Aluminum | 100 | +/-100 | U | 100 | P | 11/18/2024 | 14:35 | LB133502 |
| | Antimony | 4.42 | +/-50.0 | J | 50.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Barium | 18.0 | +/-100 | J | 100 | P | 11/18/2024 | 14:35 | LB133502 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/18/2024 | 14:35 | LB133502 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/18/2024 | 14:35 | LB133502 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 14:35 | LB133502 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/18/2024 | 14:35 | LB133502 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 14:35 | LB133502 |
| | Manganese | 5.73 | +/-20.0 | J | 20.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 14:35 | LB133502 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 14:35 | LB133502 |

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Fax : 908 789 8922



# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

| 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 | 11/18/2024 | 14:35 | LB133502 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 14:35 | LB133502 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Vanadium | 6.17 | +/-40.0 | J | 40.0 | P | 11/18/2024 | 14:35 | LB133502 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 14:35 | LB133502 |
| **CCB03** | Aluminum | 100 | +/-100 | U | 100 | P | 11/18/2024 | 15:39 | LB133502 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/18/2024 | 15:39 | LB133502 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/18/2024 | 15:39 | LB133502 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/18/2024 | 15:39 | LB133502 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 15:39 | LB133502 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/18/2024 | 15:39 | LB133502 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 15:39 | LB133502 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 15:39 | LB133502 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 15:39 | LB133502 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 15:39 | LB133502 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 15:39 | LB133502 |
| **CCB04** | Aluminum | 100 | +/-100 | U | 100 | P | 11/18/2024 | 16:29 | LB133502 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/18/2024 | 16:29 | LB133502 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/18/2024 | 16:29 | LB133502 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/18/2024 | 16:29 | LB133502 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 16:29 | LB133502 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/18/2024 | 16:29 | LB133502 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/18/2024 | 16:29 | LB133502 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

| 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 | 11/18/2024 | 16:29 | LB133502 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 16:29 | LB133502 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 16:29 | LB133502 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 16:29 | LB133502 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 16:29 | LB133502 |
| **CCB05** | Aluminum | 100 | +/-100 | U | 100 | P | 11/18/2024 | 17:06 | LB133502 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/18/2024 | 17:06 | LB133502 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/18/2024 | 17:06 | LB133502 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/18/2024 | 17:06 | LB133502 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 17:06 | LB133502 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/18/2024 | 17:06 | LB133502 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 17:06 | LB133502 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 17:06 | LB133502 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 17:06 | LB133502 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 17:06 | LB133502 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 17:06 | LB133502 |
| **CCB06** | Aluminum | 100 | +/-100 | U | 100 | P | 11/18/2024 | 18:08 | LB133502 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/18/2024 | 18:08 | LB133502 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/18/2024 | 18:08 | LB133502 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/18/2024 | 18:08 | LB133502 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 18:08 | LB133502 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

| 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 | 11/18/2024 | 18:08 | LB133502 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/18/2024 | 18:08 | LB133502 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 18:08 | LB133502 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 18:08 | LB133502 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 18:08 | LB133502 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 18:08 | LB133502 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 18:08 | LB133502 |
| CCB07 | Aluminum | 100 | +/-100 | U | 100 | P | 11/18/2024 | 18:58 | LB133502 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/18/2024 | 18:58 | LB133502 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/18/2024 | 18:58 | LB133502 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/18/2024 | 18:58 | LB133502 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 18:58 | LB133502 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/18/2024 | 18:58 | LB133502 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 18:58 | LB133502 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 18:58 | LB133502 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/18/2024 | 18:58 | LB133502 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 18:58 | LB133502 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/18/2024 | 18:58 | LB133502 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

| 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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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

| 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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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

| 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

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

| 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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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

| 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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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Instrument:** CV1

| Sample ID | Analyte | Result (mg/Kg) | Acceptance Limit | Conc Qual | CRQL mg/Kg | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB165177BL** | | **SOLID** | | **Batch Number:** | **PB165177** | | **Prep Date:** | **11/21/2024** | |
| | Mercury | 0.013 | <0.013 | U | 0.013 | CV | 11/22/2024 | 14:13 | LB133581 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Instrument:** P4

| Sample ID | Analyte | Result (mg/Kg) | Acceptance Limit | Conc Qual | CRQL mg/Kg | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB165047BL** | | **SOLID** | | **Batch Number:** | **PB165047** | | **Prep Date:** | **11/18/2024** | |
| | Aluminum | 4.48 | <4.48 | U | 4.48 | P | 11/19/2024 | 17:28 | LB133524 |
| | Antimony | 2.24 | <2.24 | U | 2.24 | P | 11/19/2024 | 17:28 | LB133524 |
| | Arsenic | 0.90 | <0.90 | U | 0.90 | P | 11/19/2024 | 17:28 | LB133524 |
| | Barium | 4.48 | <4.48 | U | 4.48 | P | 11/19/2024 | 17:28 | LB133524 |
| | Beryllium | 0.27 | <0.27 | U | 0.27 | P | 11/19/2024 | 17:28 | LB133524 |
| | Cadmium | 0.27 | <0.27 | U | 0.27 | P | 11/19/2024 | 17:28 | LB133524 |
| | Calcium | 89.7 | <89.7 | U | 89.7 | P | 11/19/2024 | 17:28 | LB133524 |
| | Chromium | 0.45 | <0.45 | U | 0.45 | P | 11/19/2024 | 17:28 | LB133524 |
| | Cobalt | 1.35 | <1.35 | U | 1.35 | P | 11/19/2024 | 17:28 | LB133524 |
| | Copper | 0.90 | <0.90 | U | 0.90 | P | 11/19/2024 | 17:28 | LB133524 |
| | Iron | 4.48 | <4.48 | U | 4.48 | P | 11/19/2024 | 17:28 | LB133524 |
| | Lead | 0.54 | <0.54 | U | 0.54 | P | 11/19/2024 | 17:28 | LB133524 |
| | Magnesium | 89.7 | <89.7 | U | 89.7 | P | 11/19/2024 | 17:28 | LB133524 |
| | Manganese | 0.90 | <0.90 | U | 0.90 | P | 11/19/2024 | 17:28 | LB133524 |
| | Nickel | 1.79 | <1.79 | U | 1.79 | P | 11/19/2024 | 17:28 | LB133524 |
| | Potassium | 89.7 | <89.7 | U | 89.7 | P | 11/19/2024 | 17:28 | LB133524 |
| | Selenium | 0.90 | <0.90 | U | 0.90 | P | 11/19/2024 | 17:28 | LB133524 |
| | Silver | 0.45 | <0.45 | U | 0.45 | P | 11/19/2024 | 17:28 | LB133524 |
| | Sodium | 89.7 | <89.7 | U | 89.7 | P | 11/19/2024 | 17:28 | LB133524 |
| | Thallium | 1.79 | <1.79 | U | 1.79 | P | 11/19/2024 | 17:28 | LB133524 |
| | Vanadium | 1.79 | <1.79 | U | 1.79 | P | 11/19/2024 | 17:28 | LB133524 |
| | Zinc | 1.79 | <1.79 | U | 1.79 | P | 11/19/2024 | 17:28 | LB133524 |

# METAL CALIBRATION DATA

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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 |
|---|---|---|---|---|---|---|---|---|---|
| ICV98 | Mercury | 3.65 | 4.0 | 91 | 90 - 110 | CV | 11/22/2024 | 13:57 | LB133581 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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 |
|---|---|---|---|---|---|---|---|---|---|
| CCV37 | Mercury | 4.87 | 5.0 | 97 | 90 - 110 | CV | 11/22/2024 | 14:02 | LB133581 |
| CCV38 | Mercury | 4.74 | 5.0 | 95 | 90 - 110 | CV | 11/22/2024 | 14:30 | LB133581 |
| CCV39 | Mercury | 4.73 | 5.0 | 94 | 90 - 110 | CV | 11/22/2024 | 14:57 | LB133581 |
| CCV40 | Mercury | 4.97 | 5.0 | 99 | 90 - 110 | CV | 11/22/2024 | 15:24 | LB133581 |
| CCV41 | Mercury | 4.85 | 5.0 | 97 | 90 - 110 | CV | 11/22/2024 | 15:47 | LB133581 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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 | 2680 | 2500 | 107 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Antimony | 1040 | 1000 | 104 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Arsenic | 1040 | 1000 | 104 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Barium | 533 | 520 | 102 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Beryllium | 521 | 510 | 102 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Cadmium | 523 | 510 | 103 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Calcium | 10400 | 10000 | 104 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Chromium | 554 | 520 | 107 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Cobalt | 530 | 520 | 102 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Copper | 544 | 510 | 107 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Iron | 10500 | 10000 | 105 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Lead | 1030 | 1000 | 104 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Magnesium | 6150 | 6000 | 102 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Manganese | 534 | 520 | 103 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Nickel | 531 | 530 | 100 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Potassium | 10400 | 9900 | 105 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Selenium | 1070 | 1000 | 107 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Silver | 264 | 250 | 106 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Sodium | 9990 | 10000 | 100 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Thallium | 1040 | 1000 | 104 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Vanadium | 522 | 500 | 104 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |
| | Zinc | 1080 | 1000 | 108 | 90 - 110 | P | 11/18/2024 | 12:57 | LB133502 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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 | 11/18/2024 | 13:11 | LB133502 |
| | Antimony | 49.6 | 50.0 | 99 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Arsenic | 18.9 | 20.0 | 94 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Barium | 101 | 100 | 101 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Beryllium | 6.06 | 6.0 | 101 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Cadmium | 6.99 | 6.0 | 116 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Calcium | 2060 | 2000 | 103 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Chromium | 10.5 | 10.0 | 105 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Cobalt | 29.4 | 30.0 | 98 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Copper | 22.1 | 20.0 | 110 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Iron | 100 | 100 | 100 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Lead | 12.1 | 12.0 | 101 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Magnesium | 2050 | 2000 | 102 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Manganese | 20.8 | 20.0 | 104 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Nickel | 39.0 | 40.0 | 97 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Potassium | 1900 | 2000 | 95 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Selenium | 20.9 | 20.0 | 105 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Silver | 10.8 | 10.0 | 108 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Sodium | 1650 | 2000 | 82 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Thallium | 39.6 | 40.0 | 99 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Vanadium | 40.1 | 40.0 | 100 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |
| | Zinc | 43.9 | 40.0 | 110 | 80 - 120 | P | 11/18/2024 | 13:11 | LB133502 |

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Fax : 908 789 8922



# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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 | 10100 | 10000 | 101 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Antimony | 5090 | 5000 | 102 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Arsenic | 4990 | 5000 | 100 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Barium | 9590 | 10000 | 96 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Beryllium | 243 | 250 | 97 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Cadmium | 2460 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Calcium | 24300 | 25000 | 97 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Cobalt | 2460 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Copper | 1270 | 1250 | 101 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Iron | 4940 | 5000 | 99 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Lead | 4930 | 5000 | 99 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Magnesium | 24500 | 25000 | 98 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Manganese | 2370 | 2500 | 95 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Nickel | 2460 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Potassium | 24900 | 25000 | 99 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Selenium | 5110 | 5000 | 102 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Sodium | 24500 | 25000 | 98 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Thallium | 5140 | 5000 | 103 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Vanadium | 2470 | 2500 | 99 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| | Zinc | 2550 | 2500 | 102 | 90 - 110 | P | 11/18/2024 | 13:52 | LB133502 |
| CCV02 | Aluminum | 10200 | 10000 | 102 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Antimony | 5150 | 5000 | 103 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Arsenic | 5030 | 5000 | 101 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Barium | 9540 | 10000 | 95 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Beryllium | 243 | 250 | 97 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Cadmium | 2490 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Calcium | 24500 | 25000 | 98 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Chromium | 1030 | 1000 | 103 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Cobalt | 2490 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Copper | 1280 | 1250 | 102 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Iron | 4940 | 5000 | 99 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Lead | 4980 | 5000 | 100 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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 | 24700 | 25000 | 99 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Manganese | 2370 | 2500 | 95 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Nickel | 2490 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Potassium | 25400 | 25000 | 102 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Selenium | 5160 | 5000 | 103 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Silver | 1260 | 1250 | 100 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Sodium | 24400 | 25000 | 98 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Thallium | 5110 | 5000 | 102 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Vanadium | 2500 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| | Zinc | 2550 | 2500 | 102 | 90 - 110 | P | 11/18/2024 | 14:31 | LB133502 |
| CCV03 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Antimony | 5130 | 5000 | 102 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Arsenic | 5000 | 5000 | 100 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Barium | 9430 | 10000 | 94 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Beryllium | 239 | 250 | 96 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Cadmium | 2450 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Calcium | 23900 | 25000 | 96 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Cobalt | 2450 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Copper | 1270 | 1250 | 101 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Iron | 4850 | 5000 | 97 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Lead | 4910 | 5000 | 98 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Magnesium | 24100 | 25000 | 96 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Manganese | 2320 | 2500 | 93 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Nickel | 2450 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Potassium | 24900 | 25000 | 100 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Selenium | 5130 | 5000 | 103 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Silver | 1240 | 1250 | 100 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Sodium | 24100 | 25000 | 96 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Thallium | 5000 | 5000 | 100 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Vanadium | 2450 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| | Zinc | 2550 | 2500 | 102 | 90 - 110 | P | 11/18/2024 | 15:35 | LB133502 |
| CCV04 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Antimony | 5140 | 5000 | 103 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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 | 5020 | 5000 | 100 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Barium | 9440 | 10000 | 94 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Beryllium | 241 | 250 | 96 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Cadmium | 2460 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Calcium | 24000 | 25000 | 96 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Chromium | 1030 | 1000 | 103 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Cobalt | 2450 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Copper | 1270 | 1250 | 102 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Iron | 4880 | 5000 | 98 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Lead | 4910 | 5000 | 98 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Magnesium | 24400 | 25000 | 97 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Manganese | 2310 | 2500 | 92 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Nickel | 2450 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Potassium | 24900 | 25000 | 100 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Selenium | 5210 | 5000 | 104 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Sodium | 24000 | 25000 | 96 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Thallium | 5310 | 5000 | 106 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Vanadium | 2460 | 2500 | 98 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| | Zinc | 2570 | 2500 | 103 | 90 - 110 | P | 11/18/2024 | 16:25 | LB133502 |
| CCV05 | Aluminum | 10200 | 10000 | 102 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Antimony | 5270 | 5000 | 105 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Arsenic | 5120 | 5000 | 102 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Barium | 9720 | 10000 | 97 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Beryllium | 246 | 250 | 98 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Cadmium | 2500 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Calcium | 24400 | 25000 | 98 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Chromium | 1040 | 1000 | 104 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Cobalt | 2500 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Copper | 1300 | 1250 | 104 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Iron | 4970 | 5000 | 99 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Lead | 5000 | 5000 | 100 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Magnesium | 24700 | 25000 | 99 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Manganese | 2370 | 2500 | 95 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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 | 2500 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Potassium | 25600 | 25000 | 102 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Selenium | 5040 | 5000 | 101 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Silver | 1280 | 1250 | 102 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Sodium | 25200 | 25000 | 101 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Thallium | 5140 | 5000 | 103 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Vanadium | 2510 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| | Zinc | 2550 | 2500 | 102 | 90 - 110 | P | 11/18/2024 | 17:01 | LB133502 |
| CCV06 | Aluminum | 10100 | 10000 | 101 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Antimony | 5200 | 5000 | 104 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Arsenic | 5080 | 5000 | 102 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Barium | 9550 | 10000 | 96 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Beryllium | 245 | 250 | 98 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Cadmium | 2490 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Calcium | 24400 | 25000 | 97 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Chromium | 1040 | 1000 | 104 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Cobalt | 2490 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Copper | 1280 | 1250 | 102 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Iron | 4960 | 5000 | 99 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Lead | 4980 | 5000 | 100 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Magnesium | 24600 | 25000 | 98 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Manganese | 2360 | 2500 | 94 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Nickel | 2490 | 2500 | 99 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Potassium | 25300 | 25000 | 101 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Selenium | 4980 | 5000 | 100 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Silver | 1270 | 1250 | 102 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Sodium | 24700 | 25000 | 99 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Thallium | 5170 | 5000 | 104 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Vanadium | 2490 | 2500 | 100 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| | Zinc | 2570 | 2500 | 103 | 90 - 110 | P | 11/18/2024 | 18:04 | LB133502 |
| CCV07 | Aluminum | 10500 | 10000 | 105 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Antimony | 5440 | 5000 | 109 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Arsenic | 5290 | 5000 | 106 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Barium | 9680 | 10000 | 97 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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 | 251 | 250 | 100 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Cadmium | 2570 | 2500 | 103 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Calcium | 25000 | 25000 | 100 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Chromium | 1070 | 1000 | 107 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Cobalt | 2570 | 2500 | 103 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Copper | 1330 | 1250 | 106 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Iron | 5050 | 5000 | 101 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Lead | 5140 | 5000 | 103 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Magnesium | 25300 | 25000 | 101 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Manganese | 2410 | 2500 | 96 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Nickel | 2560 | 2500 | 103 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Potassium | 25800 | 25000 | 103 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Selenium | 5260 | 5000 | 105 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Silver | 1300 | 1250 | 104 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Sodium | 24400 | 25000 | 97 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Thallium | 5370 | 5000 | 108 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Vanadium | 2570 | 2500 | 103 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |
| | Zinc | 2650 | 2500 | 106 | 90 - 110 | P | 11/18/2024 | 18:54 | LB133502 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV05 | Nickel | 2590 | 2500 | 104 | 90 - 110 | P | 11/19/2024 | 16:18 | LB133524 |
| | Potassium | 25700 | 25000 | 103 | 90 - 110 | P | 11/19/2024 | 16:18 | LB133524 |
| | Selenium | 5240 | 5000 | 105 | 90 - 110 | P | 11/19/2024 | 16:18 | LB133524 |
| | Silver | 1290 | 1250 | 103 | 90 - 110 | P | 11/19/2024 | 16:18 | LB133524 |
| | Sodium | 25300 | 25000 | 101 | 90 - 110 | P | 11/19/2024 | 16:18 | LB133524 |
| | Thallium | 5210 | 5000 | 104 | 90 - 110 | P | 11/19/2024 | 16:18 | LB133524 |
| | Vanadium | 2590 | 2500 | 104 | 90 - 110 | P | 11/19/2024 | 16:18 | LB133524 |
| | Zinc | 2640 | 2500 | 106 | 90 - 110 | P | 11/19/2024 | 16:18 | LB133524 |
| CCV06 | Aluminum | 10500 | 10000 | 105 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Antimony | 5280 | 5000 | 106 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Arsenic | 5270 | 5000 | 105 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Barium | 10400 | 10000 | 104 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Beryllium | 261 | 250 | 104 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Cadmium | 2610 | 2500 | 104 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Calcium | 25800 | 25000 | 103 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Chromium | 1060 | 1000 | 106 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Cobalt | 2600 | 2500 | 104 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Copper | 1330 | 1250 | 106 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Iron | 5190 | 5000 | 104 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Lead | 5240 | 5000 | 105 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Magnesium | 25800 | 25000 | 103 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Manganese | 2540 | 2500 | 102 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Nickel | 2610 | 2500 | 104 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Potassium | 25900 | 25000 | 104 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Selenium | 5310 | 5000 | 106 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Silver | 1310 | 1250 | 105 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Sodium | 25900 | 25000 | 103 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Thallium | 5300 | 5000 | 106 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Vanadium | 2600 | 2500 | 104 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| | Zinc | 2680 | 2500 | 107 | 90 - 110 | P | 11/19/2024 | 17:19 | LB133524 |
| CCV07 | Aluminum | 10300 | 10000 | 102 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Antimony | 5080 | 5000 | 102 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Arsenic | 5070 | 5000 | 101 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Barium | 10600 | 10000 | 106 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV07 | Beryllium | 256 | 250 | 102 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Cadmium | 2490 | 2500 | 99 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Calcium | 25100 | 25000 | 100 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Cobalt | 2490 | 2500 | 100 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Copper | 1290 | 1250 | 104 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Iron | 4990 | 5000 | 100 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Lead | 5020 | 5000 | 100 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Magnesium | 25100 | 25000 | 100 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Manganese | 2600 | 2500 | 104 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Nickel | 2500 | 2500 | 100 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Potassium | 25200 | 25000 | 101 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Selenium | 5100 | 5000 | 102 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Silver | 1270 | 1250 | 101 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Sodium | 25600 | 25000 | 102 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Thallium | 4940 | 5000 | 99 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Vanadium | 2540 | 2500 | 102 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |
| | Zinc | 2480 | 2500 | 99 | 90 - 110 | P | 11/19/2024 | 18:01 | LB133524 |

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# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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 | 11/18/2024 | 13:20 | LB133502 |
| | Antimony | 51.5 | 50.0 | 103 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Arsenic | 19.8 | 20.0 | 99 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Barium | 98.9 | 100 | 99 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Beryllium | 5.98 | 6.0 | 100 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Cadmium | 7.02 | 6.0 | 117 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Calcium | 2040 | 2000 | 102 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Chromium | 10.5 | 10.0 | 105 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Cobalt | 29.7 | 30.0 | 99 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Copper | 22.7 | 20.0 | 113 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Iron | 99.2 | 100 | 99 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Lead | 11.7 | 12.0 | 97 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Magnesium | 2030 | 2000 | 102 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Manganese | 20.0 | 20.0 | 100 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Nickel | 39.4 | 40.0 | 98 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Potassium | 1920 | 2000 | 96 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Selenium | 21.8 | 20.0 | 109 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Silver | 11.0 | 10.0 | 110 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Sodium | 1640 | 2000 | 82 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Thallium | 40.7 | 40.0 | 102 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Vanadium | 41.7 | 40.0 | 104 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| | Zinc | 44.6 | 40.0 | 111 | 40 - 160 | P | 11/18/2024 | 13:20 | LB133502 |
| 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 |

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# Metals

## - 2b -

## CRDL STANDARD FOR AA & ICP

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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 | 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 | 0.22 | 0.2 | 112 | 40 - 160 | CV | 11/22/2024 | 14:07 | LB133581 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICSA01 | Aluminum | 255000 | 255000 | 100 | 216000 | 294000 | 11/18/2024 | 13:30 | LB133502 |
| | Antimony | -3.34 | | | -50 | 50 | 11/18/2024 | 13:30 | LB133502 |
| | Arsenic | 6.18 | | | -20 | 20 | 11/18/2024 | 13:30 | LB133502 |
| | Barium | 2.50 | 6.0 | 42 | -94 | 106 | 11/18/2024 | 13:30 | LB133502 |
| | Beryllium | 1.39 | | | -6 | 6 | 11/18/2024 | 13:30 | LB133502 |
| | Cadmium | 4.50 | 1.0 | 450 | -5 | 7 | 11/18/2024 | 13:30 | LB133502 |
| | Calcium | 234000 | 245000 | 96 | 208000 | 282000 | 11/18/2024 | 13:30 | LB133502 |
| | Chromium | 56.3 | 52.0 | 108 | 42 | 62 | 11/18/2024 | 13:30 | LB133502 |
| | Cobalt | 1.87 | | | -30 | 30 | 11/18/2024 | 13:30 | LB133502 |
| | Copper | 14.3 | 2.0 | 715 | -18 | 22 | 11/18/2024 | 13:30 | LB133502 |
| | Iron | 96400 | 101000 | 95 | 85600 | 116500 | 11/18/2024 | 13:30 | LB133502 |
| | Lead | 8.39 | | | -12 | 12 | 11/18/2024 | 13:30 | LB133502 |
| | Magnesium | 257000 | 255000 | 101 | 216000 | 294000 | 11/18/2024 | 13:30 | LB133502 |
| | Manganese | 3.33 | 7.0 | 48 | -13 | 27 | 11/18/2024 | 13:30 | LB133502 |
| | Nickel | 2.89 | 2.0 | 144 | -38 | 42 | 11/18/2024 | 13:30 | LB133502 |
| | Potassium | 43.3 | | | 0 | 0 | 11/18/2024 | 13:30 | LB133502 |
| | Selenium | -16.2 | | | -20 | 20 | 11/18/2024 | 13:30 | LB133502 |
| | Silver | -0.11 | | | -10 | 10 | 11/18/2024 | 13:30 | LB133502 |
| | Sodium | -43.4 | | | 0 | 0 | 11/18/2024 | 13:30 | LB133502 |
| | Thallium | -4.41 | | | -40 | 40 | 11/18/2024 | 13:30 | LB133502 |
| | Vanadium | 7.77 | | | -40 | 40 | 11/18/2024 | 13:30 | LB133502 |
| | Zinc | 5.14 | | | -40 | 40 | 11/18/2024 | 13:30 | LB133502 |
| ICSAB01 | Aluminum | 263000 | 247000 | 106 | 209000 | 285000 | 11/18/2024 | 13:42 | LB133502 |
| | Antimony | 633 | 618 | 102 | 525 | 711 | 11/18/2024 | 13:42 | LB133502 |
| | Arsenic | 116 | 104 | 112 | 88.4 | 120 | 11/18/2024 | 13:42 | LB133502 |
| | Barium | 493 | 537 | 92 | 437 | 637 | 11/18/2024 | 13:42 | LB133502 |
| | Beryllium | 495 | 495 | 100 | 420 | 570 | 11/18/2024 | 13:42 | LB133502 |
| | Cadmium | 1020 | 972 | 105 | 826 | 1120 | 11/18/2024 | 13:42 | LB133502 |
| | Calcium | 238000 | 235000 | 101 | 199000 | 271000 | 11/18/2024 | 13:42 | LB133502 |
| | Chromium | 579 | 542 | 107 | 460 | 624 | 11/18/2024 | 13:42 | LB133502 |
| | Cobalt | 508 | 476 | 107 | 404 | 548 | 11/18/2024 | 13:42 | LB133502 |
| | Copper | 506 | 511 | 99 | 434 | 588 | 11/18/2024 | 13:42 | LB133502 |
| | Iron | 98700 | 99300 | 99 | 84400 | 114500 | 11/18/2024 | 13:42 | LB133502 |
| | Lead | 57.7 | 49.0 | 118 | 37 | 61 | 11/18/2024 | 13:42 | LB133502 |
| | Magnesium | 262000 | 248000 | 106 | 210000 | 286000 | 11/18/2024 | 13:42 | LB133502 |
| | Manganese | 475 | 507 | 94 | 430 | 584 | 11/18/2024 | 13:42 | LB133502 |
| | Nickel | 1000 | 954 | 105 | 810 | 1100 | 11/18/2024 | 13:42 | LB133502 |
| | Potassium | -18.9 | | | 0 | 0 | 11/18/2024 | 13:42 | LB133502 |
| | Selenium | 32.7 | 46.0 | 71 | 26 | 66 | 11/18/2024 | 13:42 | LB133502 |
| | Silver | 202 | 201 | 100 | 170 | 232 | 11/18/2024 | 13:42 | LB133502 |
| | Sodium | -170 | | | 0 | 0 | 11/18/2024 | 13:42 | LB133502 |
| | Thallium | 91.6 | 108 | 85 | 68 | 148 | 11/18/2024 | 13:42 | LB133502 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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 | 499 | 491 | 102 | 417 | 565 | 11/18/2024 | 13:42 | LB133502 |
| | Zinc | 894 | 952 | 94 | 809 | 1095 | 11/18/2024 | 13:42 | LB133502 |
| **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 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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 | 62.8 | | | 0 | 0 | 11/19/2024 | 11:51 | LB133524 |
| | Thallium | 91.5 | 108 | 85 | 68 | 148 | 11/19/2024 | 11:51 | LB133524 |
| | Vanadium | 509 | 491 | 104 | 417 | 565 | 11/19/2024 | 11:51 | LB133524 |
| | Zinc | 1090 | 952 | 114 | 809 | 1095 | 11/19/2024 | 11:51 | LB133524 |

# METAL QC DATA

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** Tetra Tech **level:** low **sdg no.:** P4860

**contract:** CORN02 **lab code:** CHEM **case no.:** P4860 **sas no.:** P4860

**matrix:** Solid **sample id:** P4860-01 **client id:** DUP-01MS

**Percent Solids for Sample:** 96.8 **Spiked ID:** P4860-01MS **Percent Solids for Spike Sample:** 96.8

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 80 - 120 | 0.25 | | 0.013 | U | 0.27 | 93 | | CV |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** Tetra Tech **level:** low **sdg no.:** P4860

**contract:** CORN02 **lab code:** CHEM **case no.:** P4860 **sas no.:** P4860

**matrix:** Solid **sample id:** P4860-01 **client id:** DUP-01MSD

**Percent Solids for Sample:** 96.8 **Spiked ID:** P4860-01MSD **Percent Solids for Spike Sample:** 96.8

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 80 - 120 | 0.26 | | 0.013 | U | 0.27 | 95 | | CV |

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** Tetra Tech **level:** low **sdg no.:** P4860

**contract:** CORN02 **lab code:** CHEM **case no.:** P4860 **sas no.:** P4860

**matrix:** Solid **sample id:** P4889-05 **client id:** #72-11930MS

**Percent Solids for Sample:** 93.4 **Spiked ID:** P4889-05MS **Percent Solids for Spike Sample:** 93.4

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 75 - 125 | 6620 | | 5730 | | 93.5 | 950 | | P |
| Antimony | mg/Kg | 75 - 125 | 19.3 | | 2.39 | U | 37.4 | 52 | N | P |
| Arsenic | mg/Kg | 75 - 125 | 31.9 | | 2.76 | | 37.4 | 78 | | P |
| Barium | mg/Kg | 75 - 125 | 47.6 | | 38.5 | | 9.4 | 97 | | P |
| Beryllium | mg/Kg | 75 - 125 | 7.87 | | 0.46 | | 9.4 | 79 | | P |
| Cadmium | mg/Kg | 75 - 125 | 9.09 | | 0.68 | | 9.4 | 89 | | P |
| Calcium | mg/Kg | 75 - 125 | 1160 | | 1040 | | 46.8 | 253 | | P |
| Chromium | mg/Kg | 75 - 125 | 25.9 | | 9.39 | | 18.7 | 88 | | P |
| Cobalt | mg/Kg | 75 - 125 | 13.0 | | 4.00 | | 9.4 | 96 | | P |
| Copper | mg/Kg | 75 - 125 | 27.0 | | 17.5 | | 14.0 | 68 | N | P |
| Iron | mg/Kg | 75 - 125 | 7810 | | 6970 | | 140 | 604 | | P |
| Lead | mg/Kg | 75 - 125 | 99.2 | | 56.5 | | 46.8 | 91 | | P |
| Magnesium | mg/Kg | 75 - 125 | 1580 | | 1350 | | 93.5 | 250 | | P |
| Manganese | mg/Kg | 75 - 125 | 192 | | 167 | | 9.4 | 264 | | P |
| Nickel | mg/Kg | 75 - 125 | 30.3 | | 8.65 | | 23.4 | 93 | | P |
| Potassium | mg/Kg | 75 - 125 | 936 | | 516 | | 470 | 89 | | P |
| Selenium | mg/Kg | 75 - 125 | 67.5 | | 0.41 | J | 93.5 | 72 | N | P |
| Silver | mg/Kg | 75 - 125 | 2.96 | | 0.12 | J | 3.5 | 81 | | P |
| Sodium | mg/Kg | 75 - 125 | 273 | | 155 | | 140 | 84 | | P |
| Thallium | mg/Kg | 75 - 125 | 79.1 | | 1.91 | U | 93.5 | 85 | | P |
| Vanadium | mg/Kg | 75 - 125 | 25.4 | | 13.1 | | 14.0 | 88 | | P |
| Zinc | mg/Kg | 75 - 125 | 75.4 | | 63.1 | | 9.4 | 131 | | P |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** Tetra Tech **level:** low **sdg no.:** P4860

**contract:** CORN02 **lab code:** CHEM **case no.:** P4860 **sas no.:** P4860

**matrix:** Solid **sample id:** P4889-05 **client id:** #72-11930MSD

**Percent Solids for Sample:** 93.4 **Spiked ID:** P4889-05MSD **Percent Solids for Spike Sample:** 93.4

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 75 - 125 | 6510 | | 5730 | | 92.3 | 845 | | P |
| Antimony | mg/Kg | 75 - 125 | 19.1 | | 2.39 | U | 36.9 | 52 | N | P |
| Arsenic | mg/Kg | 75 - 125 | 31.4 | | 2.76 | | 36.9 | 78 | | P |
| Barium | mg/Kg | 75 - 125 | 47.4 | | 38.5 | | 9.2 | 96 | | P |
| Beryllium | mg/Kg | 75 - 125 | 7.81 | | 0.46 | | 9.2 | 80 | | P |
| Cadmium | mg/Kg | 75 - 125 | 8.99 | | 0.68 | | 9.2 | 90 | | P |
| Calcium | mg/Kg | 75 - 125 | 1130 | | 1040 | | 46.1 | 180 | | P |
| Chromium | mg/Kg | 75 - 125 | 25.8 | | 9.39 | | 18.5 | 89 | | P |
| Cobalt | mg/Kg | 75 - 125 | 12.9 | | 4.00 | | 9.2 | 96 | | P |
| Copper | mg/Kg | 75 - 125 | 26.7 | | 17.5 | | 13.8 | 67 | N | P |
| Iron | mg/Kg | 75 - 125 | 7720 | | 6970 | | 140 | 537 | | P |
| Lead | mg/Kg | 75 - 125 | 98.3 | | 56.5 | | 46.1 | 91 | | P |
| Magnesium | mg/Kg | 75 - 125 | 1560 | | 1350 | | 92.3 | 231 | | P |
| Manganese | mg/Kg | 75 - 125 | 189 | | 167 | | 9.2 | 243 | | P |
| Nickel | mg/Kg | 75 - 125 | 30.0 | | 8.65 | | 23.1 | 93 | | P |
| Potassium | mg/Kg | 75 - 125 | 924 | | 516 | | 460 | 89 | | P |
| Selenium | mg/Kg | 75 - 125 | 66.6 | | 0.41 | J | 92.3 | 72 | N | P |
| Silver | mg/Kg | 75 - 125 | 2.93 | | 0.12 | J | 3.5 | 80 | | P |
| Sodium | mg/Kg | 75 - 125 | 268 | | 155 | | 140 | 80 | | P |
| Thallium | mg/Kg | 75 - 125 | 80.0 | | 1.91 | U | 92.3 | 87 | | P |
| Vanadium | mg/Kg | 75 - 125 | 25.1 | | 13.1 | | 13.8 | 88 | | P |
| Zinc | mg/Kg | 75 - 125 | 73.5 | | 63.1 | | 9.2 | 113 | | P |

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# Metals
## - 5b -
## POST DIGEST SPIKE SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**Matrix:** Solid **Level:** LOW **Client ID:** #72-11930A

**Sample ID:** P4889-05 **Spiked ID:** P4889-05A

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/Kg | 75 - 125 | 18.8 | | 2.39 | U | 38.2 | 49 | | P |
| Copper | mg/Kg | 75 - 125 | 26.0 | | 17.5 | | 14.3 | 59 | | P |
| Selenium | mg/Kg | 75 - 125 | 65.7 | | 0.41 | J | 95.6 | 68 | | P |

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# Metals

## - 6 -
## DUPLICATE SAMPLE SUMMARY

**Client:** Tetra Tech **Level:** LOW **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**Matrix:** Solid **Sample ID:** P4860-01 **Client ID:** DUP-01DUP

**Percent Solids for Sample:** 96.8 **Duplicate ID** P4860-01DUP **Percent Solids for Spike Sample:** 96.8

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 20 | 0.013 | U | 0.013 | 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

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** Tetra Tech **Level:** LOW **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**Matrix:** Solid **Sample ID:** P4860-01MS **Client ID:** DUP-01MSD

**Percent Solids for Sample:** 96.8 **Duplicate ID** P4860-01MSD **Percent Solids for Spike Sample:** 96.8

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 20 | 0.25 | | 0.26 | | 3 | | 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

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** Tetra Tech **Level:** LOW **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**Matrix:** Solid **Sample ID:** P4889-05 **Client ID:** #72-11930DUP

**Percent Solids for Sample:** 93.4 **Duplicate ID** P4889-05DUP **Percent Solids for Spike Sample:** 93.4

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 20 | 5730 | | 5930 | | 3 | | P |
| Antimony | mg/Kg | 20 | 2.39 | U | 2.46 | U | | | P |
| Arsenic | mg/Kg | 20 | 2.76 | | 2.89 | | 5 | | P |
| Barium | mg/Kg | 20 | 38.5 | | 39.6 | | 3 | | P |
| Beryllium | mg/Kg | 20 | 0.46 | | 0.47 | | 2 | | P |
| Cadmium | mg/Kg | 20 | 0.68 | | 0.75 | | 10 | | P |
| Calcium | mg/Kg | 20 | 1040 | | 1040 | | 0 | | P |
| Chromium | mg/Kg | 20 | 9.39 | | 9.88 | | 5 | | P |
| Cobalt | mg/Kg | 20 | 4.00 | | 4.28 | | 7 | | P |
| Copper | mg/Kg | 20 | 17.5 | | 18.7 | | 7 | | P |
| Iron | mg/Kg | 20 | 6970 | | 7270 | | 4 | | P |
| Lead | mg/Kg | 20 | 56.5 | | 60.4 | | 7 | | P |
| Magnesium | mg/Kg | 20 | 1350 | | 1390 | | 3 | | P |
| Manganese | mg/Kg | 20 | 167 | | 172 | | 3 | | P |
| Nickel | mg/Kg | 20 | 8.65 | | 9.19 | | 6 | | P |
| Potassium | mg/Kg | 20 | 516 | | 544 | | 5 | | P |
| Selenium | mg/Kg | 20 | 0.41 | J | 0.39 | J | 3 | | P |
| Silver | mg/Kg | 20 | 0.12 | J | 0.11 | J | 9 | | P |
| Sodium | mg/Kg | 20 | 155 | | 158 | | 2 | | P |
| Thallium | mg/Kg | 20 | 1.91 | U | 1.96 | U | | | P |
| Vanadium | mg/Kg | 20 | 13.1 | | 13.5 | | 3 | | P |
| Zinc | mg/Kg | 20 | 63.1 | | 64.0 | | 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:** Tetra Tech **Level:** LOW **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**Matrix:** Solid **Sample ID:** P4889-05MS **Client ID:** #72-11930MSD

**Percent Solids for Sample:** 93.4 **Duplicate ID** P4889-05MSD **Percent Solids for Spike Sample:** 93.4

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 20 | 6620 | | 6510 | | 2 | | P |
| Antimony | mg/Kg | 20 | 19.3 | | 19.1 | | 1 | | P |
| Arsenic | mg/Kg | 20 | 31.9 | | 31.4 | | 2 | | P |
| Barium | mg/Kg | 20 | 47.6 | | 47.4 | | 0 | | P |
| Beryllium | mg/Kg | 20 | 7.87 | | 7.81 | | 1 | | P |
| Cadmium | mg/Kg | 20 | 9.09 | | 8.99 | | 1 | | P |
| Calcium | mg/Kg | 20 | 1160 | | 1130 | | 3 | | P |
| Chromium | mg/Kg | 20 | 25.9 | | 25.8 | | 0 | | P |
| Cobalt | mg/Kg | 20 | 13.0 | | 12.9 | | 1 | | P |
| Copper | mg/Kg | 20 | 27.0 | | 26.7 | | 1 | | P |
| Iron | mg/Kg | 20 | 7810 | | 7720 | | 1 | | P |
| Lead | mg/Kg | 20 | 99.2 | | 98.3 | | 1 | | P |
| Magnesium | mg/Kg | 20 | 1580 | | 1560 | | 1 | | P |
| Manganese | mg/Kg | 20 | 192 | | 189 | | 2 | | P |
| Nickel | mg/Kg | 20 | 30.3 | | 30.0 | | 1 | | P |
| Potassium | mg/Kg | 20 | 936 | | 924 | | 1 | | P |
| Selenium | mg/Kg | 20 | 67.5 | | 66.6 | | 1 | | P |
| Silver | mg/Kg | 20 | 2.96 | | 2.93 | | 1 | | P |
| Sodium | mg/Kg | 20 | 273 | | 268 | | 2 | | P |
| Thallium | mg/Kg | 20 | 79.1 | | 80.0 | | 1 | | P |
| Vanadium | mg/Kg | 20 | 25.4 | | 25.1 | | 1 | | P |
| Zinc | mg/Kg | 20 | 75.4 | | 73.5 | | 3 | | P |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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## Metals



### LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB165047BS | | | | | | | |
| Aluminum | mg/Kg | 89.7 | 95.0 | | 106 | 80 - 120 | P |
| Antimony | mg/Kg | 35.9 | 36.4 | | 101 | 80 - 120 | P |
| Arsenic | mg/Kg | 35.9 | 37.2 | | 104 | 80 - 120 | P |
| Barium | mg/Kg | 9.0 | 9.72 | | 108 | 80 - 120 | P |
| Beryllium | mg/Kg | 9.0 | 10.1 | | 112 | 80 - 120 | P |
| Cadmium | mg/Kg | 9.0 | 9.45 | | 105 | 80 - 120 | P |
| Calcium | mg/Kg | 44.8 | 50.5 | J | 113 | 80 - 120 | P |
| Chromium | mg/Kg | 17.9 | 19.3 | | 108 | 80 - 120 | P |
| Cobalt | mg/Kg | 9.0 | 9.50 | | 106 | 80 - 120 | P |
| Copper | mg/Kg | 13.5 | 14.8 | | 110 | 80 - 120 | P |
| Iron | mg/Kg | 130 | 138 | | 106 | 80 - 120 | P |
| Lead | mg/Kg | 44.8 | 47.2 | | 105 | 80 - 120 | P |
| Magnesium | mg/Kg | 89.7 | 96.1 | | 107 | 80 - 120 | P |
| Manganese | mg/Kg | 9.0 | 9.98 | | 111 | 80 - 120 | P |
| Nickel | mg/Kg | 22.4 | 23.8 | | 106 | 80 - 120 | P |
| Potassium | mg/Kg | 450 | 440 | | 98 | 80 - 120 | P |
| Selenium | mg/Kg | 89.7 | 93.6 | | 104 | 80 - 120 | P |
| Silver | mg/Kg | 3.4 | 3.53 | | 104 | 80 - 120 | P |
| Sodium | mg/Kg | 130 | 128 | | 98 | 80 - 120 | P |
| Thallium | mg/Kg | 89.7 | 101 | | 113 | 80 - 120 | P |
| Vanadium | mg/Kg | 13.5 | 14.6 | | 108 | 80 - 120 | P |
| Zinc | mg/Kg | 9.0 | 9.92 | | 110 | 80 - 120 | P |

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## Metals



### LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB165177BS | | | | | | | |
| Mercury | mg/Kg | 0.26 | 0.24 | | 94 | 80 - 120 | CV |

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# Metals

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## ICP SERIAL DILUTIONS

SAMPLE NO.

DUP-01L

**Lab Name:** Chemtech Consulting Group **Contract:** CORN02

**Lab Code:** CHEM **Lb No.:** lb133581 **Lab Sample ID :** P4860-01L **SDG No.:** P4860

**Matrix (soil/water):** Solid **Level (low/med):** LOW

**Concentration Units:** mg/Kg

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Mercury | 0.013 | U | 0.066 | U | | | CV |

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# Metals

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## ICP SERIAL DILUTIONS

SAMPLE NO.

#72-11930L

**Lab Name:** Chemtech Consulting Group **Contract:** CORN02

**Lab Code:** CHEM **Lb No.:** lb133502 **Lab Sample ID :** P4889-05L **SDG No.:** P4860

**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 | 5730 | | 6710 | | 17 | | P |
| Antimony | 2.39 | U | 11.9 | U | | | P |
| Arsenic | 2.76 | | 2.30 | J | 17 | | P |
| Barium | 38.5 | | 44.1 | | 14 | | P |
| Beryllium | 0.46 | | 0.58 | J | 25 | | P |
| Cadmium | 0.68 | | 0.52 | J | 23 | | P |
| Calcium | 1040 | | 1220 | | 17 | | P |
| Chromium | 9.39 | | 11.4 | | 21 | | P |
| Cobalt | 4.00 | | 4.35 | J | 9 | | P |
| Copper | 17.5 | | 22.9 | | 31 | | P |
| Iron | 6970 | | 8270 | | 19 | | P |
| Lead | 56.5 | | 64.3 | | 14 | | P |
| Magnesium | 1350 | | 1600 | | 19 | | P |
| Manganese | 167 | | 202 | | 21 | | P |
| Nickel | 8.65 | | 9.41 | J | 9 | | P |
| Potassium | 516 | | 586 | | 14 | | P |
| Selenium | 0.41 | J | 4.78 | U | 100.0 | | P |
| Silver | 0.12 | J | 2.39 | U | 100.0 | | P |
| Sodium | 155 | | 478 | U | 100.0 | | P |
| Thallium | 1.91 | U | 9.56 | U | | | P |
| Vanadium | 13.1 | | 15.8 | | 21 | | P |
| Zinc | 63.1 | | 73.8 | | 17 | | P |

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# metals
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## ANALYSIS RUN LOG

**Client:** Tetra Tech **Contract:** CORN02

**Lab code:** CHEM **Case no.:** P4860 **Sas no.:** P4860 **Sdg no.:** P4860

**Instrument id number:** **Method:** **Run number:** LB133502

**Start date:** 11/18/2024 **End date:** 11/18/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1231 | 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 | 1236 | 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 | 1240 | 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 | 1244 | 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 | 1249 | 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 | 1253 | 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 | 1257 | 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 | 1311 | 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 | 1315 | 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 | 1320 | 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 | 1342 | 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 | 1352 | 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 | 1402 | 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 | 1431 | 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 | 1435 | 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 | 1535 | 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 | 1539 | 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 | 1625 | 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 | 1629 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV05 | CCV05 | 1 | 1701 | 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 | 1706 | 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 | 1804 | 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 | 1808 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4889-05DUP | #72-11930DUP | 1 | 1833 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4889-05L | #72-11930L | 5 | 1837 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4889-05MS | #72-11930MS | 1 | 1842 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4889-05MSD | #72-11930MSD | 1 | 1846 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4889-05A | #72-11930A | 1 | 1850 | Cu,Sb,Se |
| CCV07 | CCV07 | 1 | 1854 | 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 | 1858 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |

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# metals
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## ANALYSIS RUN LOG

**Client:** Tetra Tech **Contract:** CORN02

**Lab code:** CHEM **Case no.:** P4860 **Sas no.:** P4860 **Sdg no.:** P4860

**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 |
| CCV02 | CCV02 | 1 | 1334 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB02 | CCB02 | 1 | 1338 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV03 | CCV03 | 1 | 1424 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB03 | CCB03 | 1 | 1428 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV04 | CCV04 | 1 | 1531 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB04 | CCB04 | 1 | 1536 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4860-01 | DUP-01 | 1 | 1601 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4860-02 | PH2-BOT-001 | 1 | 1606 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4860-03 | PH2-BOT-002 | 1 | 1610 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4860-04 | PH2-BOT-003 | 1 | 1614 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV05 | CCV05 | 1 | 1618 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB05 | CCB05 | 1 | 1622 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4860-05 | PH2-BOT-004 | 1 | 1627 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4860-06 | PH2-BOT-009 | 1 | 1631 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4860-07 | PH2-BOT-008 | 1 | 1635 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4860-08 | PH2-BOT-007 | 1 | 1639 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4860-09 | PH2-BOT-006 | 1 | 1644 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4860-10 | PH2-BOT-005 | 1 | 1648 | 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 |
| PB165047BL | PB165047BL | 1 | 1728 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB165047BS | PB165047BS | 1 | 1732 | 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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**metals**
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**ANALYSIS RUN LOG**

**Client:** Tetra Tech **Contract:** CORN02

**Lab code:** CHEM **Case no.:** P4860 **Sas no.:** P4860 **Sdg no.:** P4860

**Instrument id number:** **Method:** **Run number:** LB133581

**Start date:** 11/22/2024 **End date:** 11/22/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1337 | HG |
| S0.2 | S0.2 | 1 | 1340 | HG |
| S2.5 | S2.5 | 1 | 1342 | HG |
| S5 | S5 | 1 | 1344 | HG |
| S7.5 | S7.5 | 1 | 1349 | HG |
| S10 | S10 | 1 | 1355 | HG |
| ICV98 | ICV98 | 1 | 1357 | HG |
| ICB98 | ICB98 | 1 | 1400 | HG |
| CCV37 | CCV37 | 1 | 1402 | HG |
| CCB37 | CCB37 | 1 | 1404 | HG |
| CRA | CRA | 1 | 1407 | HG |
| PB165177BL | PB165177BL | 1 | 1413 | HG |
| PB165177BS | PB165177BS | 1 | 1416 | HG |
| P4860-01 | DUP-01 | 1 | 1418 | HG |
| P4860-01DUP | DUP-01DUP | 1 | 1420 | HG |
| P4860-01MS | DUP-01MS | 1 | 1423 | HG |
| P4860-01MSD | DUP-01MSD | 1 | 1425 | HG |
| P4860-02 | PH2-BOT-001 | 1 | 1427 | HG |
| CCV38 | CCV38 | 1 | 1430 | HG |
| CCB38 | CCB38 | 1 | 1432 | HG |
| P4860-03 | PH2-BOT-002 | 1 | 1434 | HG |
| P4860-04 | PH2-BOT-003 | 1 | 1436 | HG |
| P4860-05 | PH2-BOT-004 | 1 | 1439 | HG |
| P4860-06 | PH2-BOT-009 | 1 | 1441 | HG |
| P4860-07 | PH2-BOT-008 | 1 | 1443 | HG |
| P4860-08 | PH2-BOT-007 | 1 | 1446 | HG |
| P4860-09 | PH2-BOT-006 | 1 | 1448 | HG |
| P4860-10 | PH2-BOT-005 | 1 | 1450 | HG |
| CCV39 | CCV39 | 1 | 1457 | HG |
| CCB39 | CCB39 | 1 | 1459 | HG |
| CCV40 | CCV40 | 1 | 1524 | HG |
| CCB40 | CCB40 | 1 | 1526 | HG |
| P4860-01L | DUP-01L | 5 | 1538 | HG |
| CCV41 | CCV41 | 1 | 1547 | HG |
| CCB41 | CCB41 | 1 | 1549 | HG |

# METAL PREPARATION & INSTRUMENT DATA

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



# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Al | Ca | Fe | Mg | Ag |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | -0.0002060 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.833 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | -0.0000440 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000930 | 0.0000000 | 0.0000000 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | -0.0075970 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 224.700 | 0.0000000 | 0.0000000 | 0.0007850 | 0.0000000 | 0.0000000 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | -0.0000920 | 0.0000000 | 0.0000380 | 0.0000000 | 0.0000000 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | -0.0001440 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | -0.0001490 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.402 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.800 | 0.0000000 | 0.0000000 | 0.0001050 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Na | Ni | Pb | Sb | Se |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0012800 | 0.0000000 | 0.0000000 |
| Antimony | 206.833 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 224.700 | 0.0000000 | -0.0047000 | 0.0036100 | 0.0000000 | 0.0000000 |
| Iron | 240.488 | 0.0000000 | -0.0017000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0006580 | 0.0000000 | 0.0000000 | 0.0001290 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0003330 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.402 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.800 | 0.0000000 | 0.0067600 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Case No.:** P4860 **SAS No.:** P4860

**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:** | P4860 | **OrderDate:** | 11/14/2024 1:36:41 PM |
| **Client:** | Tetra Tech | **Project:** | Ocean County Landfill 2024 |
| **Contact:** | John Giuliano | **Location:** | L41 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4860-01** | **DUP-01** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | Mercury | 7471B | | 11/21/24 | 11/22/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/18/24 | 11/19/24 | |
| **P4860-02** | **PH2-BOT-001** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | Mercury | 7471B | | 11/21/24 | 11/22/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/18/24 | 11/19/24 | |
| **P4860-03** | **PH2-BOT-002** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | Mercury | 7471B | | 11/21/24 | 11/22/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/18/24 | 11/19/24 | |
| **P4860-04** | **PH2-BOT-003** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | Mercury | 7471B | | 11/21/24 | 11/22/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/18/24 | 11/19/24 | |
| **P4860-05** | **PH2-BOT-004** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | Mercury | 7471B | | 11/21/24 | 11/22/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/18/24 | 11/19/24 | |
| **P4860-06** | **PH2-BOT-009** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | Mercury | 7471B | | 11/21/24 | 11/22/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/18/24 | 11/19/24 | |
| **P4860-07** | **PH2-BOT-008** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | Mercury | 7471B | | 11/21/24 | 11/22/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/18/24 | 11/19/24 | |
| **P4860-08** | **PH2-BOT-007** | **SOIL** | | | **11/14/24** | | | **11/14/24** |
| | | | Mercury | 7471B | | 11/21/24 | 11/22/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/18/24 | 11/19/24 | |
| **P4860-09** | **PH2-BOT-006** | **SOIL** | | | **11/14/24** | | | **11/14/24** |

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## LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Mercury | 7471B | | 11/21/24 | 11/22/24 |
| | | | Metals ICP-TAL | 6010D | | 11/18/24 | 11/19/24 |
| **P4860-10** | **PH2-BOT-005** | **SOIL** | | | **11/14/24** | | **11/14/24** |
| | | | Mercury | 7471B | | 11/21/24 | 11/22/24 |
| | | | Metals ICP-TAL | 6010D | | 11/18/24 | 11/19/24 |

# METAL PREPARATION & ANALYICAL SUMMARY

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Fax : 908 789 8922



# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Method:**

**Case No.:** P4860 **SAS No.:** P4860

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB165047** | | | | | | |
| P4860-01 | DUP-01 | SAM | SOLID | 11/18/2024 | 2.35 | 100.0 | 96.80 |
| P4860-02 | PH2-BOT-001 | SAM | SOLID | 11/18/2024 | 2.41 | 100.0 | 96.80 |
| P4860-03 | PH2-BOT-002 | SAM | SOLID | 11/18/2024 | 2.40 | 100.0 | 96.60 |
| P4860-04 | PH2-BOT-003 | SAM | SOLID | 11/18/2024 | 2.28 | 100.0 | 97.80 |
| P4860-05 | PH2-BOT-004 | SAM | SOLID | 11/18/2024 | 2.19 | 100.0 | 98.10 |
| P4860-06 | PH2-BOT-009 | SAM | SOLID | 11/18/2024 | 2.24 | 100.0 | 98.30 |
| P4860-07 | PH2-BOT-008 | SAM | SOLID | 11/18/2024 | 2.35 | 100.0 | 96.80 |
| P4860-08 | PH2-BOT-007 | SAM | SOLID | 11/18/2024 | 2.33 | 100.0 | 98.00 |
| P4860-09 | PH2-BOT-006 | SAM | SOLID | 11/18/2024 | 2.33 | 100.0 | 97.50 |
| P4860-10 | PH2-BOT-005 | SAM | SOLID | 11/18/2024 | 2.25 | 100.0 | 97.60 |
| P4889-05DUP | #72-11930DUP | DUP | SOLID | 11/18/2024 | 2.18 | 100.0 | 93.40 |
| P4889-05MS | #72-11930MS | MS | SOLID | 11/18/2024 | 2.29 | 100.0 | 93.40 |
| P4889-05MSD | #72-11930MSD | MSD | SOLID | 11/18/2024 | 2.32 | 100.0 | 93.40 |
| PB165047BL | PB165047BL | MB | SOLID | 11/18/2024 | 2.23 | 100.0 | 100.00 |
| PB165047BS | PB165047BS | LCS | SOLID | 11/18/2024 | 2.23 | 100.0 | 100.00 |

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Tetra Tech **SDG No.:** P4860

**Contract:** CORN02 **Lab Code:** CHEM **Method:**

**Case No.:** P4860 **SAS No.:** P4860

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB165177** | | | | | | |
| P4860-01 | DUP-01 | SAM | SOLID | 11/21/2024 | 0.55 | 35.0 | 96.80 |
| P4860-01DUP | DUP-01DUP | DUP | SOLID | 11/21/2024 | 0.57 | 35.0 | 96.80 |
| P4860-01MS | DUP-01MS | MS | SOLID | 11/21/2024 | 0.53 | 35.0 | 96.80 |
| P4860-01MSD | DUP-01MSD | MSD | SOLID | 11/21/2024 | 0.53 | 35.0 | 96.80 |
| P4860-02 | PH2-BOT-001 | SAM | SOLID | 11/21/2024 | 0.58 | 35.0 | 96.80 |
| P4860-03 | PH2-BOT-002 | SAM | SOLID | 11/21/2024 | 0.52 | 35.0 | 96.60 |
| P4860-04 | PH2-BOT-003 | SAM | SOLID | 11/21/2024 | 0.50 | 35.0 | 97.80 |
| P4860-05 | PH2-BOT-004 | SAM | SOLID | 11/21/2024 | 0.54 | 35.0 | 98.10 |
| P4860-06 | PH2-BOT-009 | SAM | SOLID | 11/21/2024 | 0.50 | 35.0 | 98.30 |
| P4860-07 | PH2-BOT-008 | SAM | SOLID | 11/21/2024 | 0.55 | 35.0 | 96.80 |
| P4860-08 | PH2-BOT-007 | SAM | SOLID | 11/21/2024 | 0.57 | 35.0 | 98.00 |
| P4860-09 | PH2-BOT-006 | SAM | SOLID | 11/21/2024 | 0.52 | 35.0 | 97.50 |
| P4860-10 | PH2-BOT-005 | SAM | SOLID | 11/21/2024 | 0.55 | 35.0 | 97.60 |
| PB165177BL | PB165177BL | MB | SOLID | 11/21/2024 | 0.52 | 35.0 | 100.00 |
| PB165177BS | PB165177BS | LCS | SOLID | 11/21/2024 | 0.54 | 35.0 | 100.00 |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133502

| | | | |
|---|---|---|---|
| Review By | kareem | Review On | 11/19/2024 9:23:02 AM |
| Supervise By | jaswal | Supervise On | 11/19/2024 10:28:07 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 | 11/18/24 12:31 | | Kareem | OK |
| 2 | S1 | S1 | CAL2 | 11/18/24 12:36 | | Kareem | OK |
| 3 | S2 | S2 | CAL3 | 11/18/24 12:40 | | Kareem | OK |
| 4 | S3 | S3 | CAL4 | 11/18/24 12:44 | | Kareem | OK |
| 5 | S4 | S4 | CAL5 | 11/18/24 12:49 | | Kareem | OK |
| 6 | S5 | S5 | CAL6 | 11/18/24 12:53 | | Kareem | OK |
| 7 | ICV01 | ICV01 | ICV | 11/18/24 12:57 | | Kareem | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 11/18/24 13:11 | | Kareem | OK |
| 9 | ICB01 | ICB01 | ICB | 11/18/24 13:15 | | Kareem | OK |
| 10 | CRI01 | CRI01 | CRDL | 11/18/24 13:20 | | Kareem | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 11/18/24 13:30 | | Kareem | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 11/18/24 13:42 | | Kareem | OK |
| 13 | CCV01 | CCV01 | CCV | 11/18/24 13:52 | | Kareem | OK |
| 14 | CCB01 | CCB01 | CCB | 11/18/24 14:02 | | Kareem | OK |
| 15 | P4857-01 | ETGI-328 | SAM | 11/18/24 14:06 | | Kareem | OK |
| 16 | P4857-03 | VNJ-226 | SAM | 11/18/24 14:10 | | Kareem | OK |
| 17 | P4859-01 | NB-08-111424 | SAM | 11/18/24 14:14 | | Kareem | OK |
| 18 | P4867-02 | TT-070-IDWGW-2024 | SAM | 11/18/24 14:18 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133502

| | | | |
|---|---|---|---|
| Review By | kareem | Review On | 11/19/2024 9:23:02 AM |
| Supervise By | jaswal | Supervise On | 11/19/2024 10:28:07 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 | P4867-03 | TT-071-IDWGW-2024 | SAM | 11/18/24 14:23 | | Kareem | OK |
| 20 | P4867-04 | TT-072-IDWGW-2024 | SAM | 11/18/24 14:27 | | Kareem | OK |
| 21 | CCV02 | CCV02 | CCV | 11/18/24 14:31 | | Kareem | OK |
| 22 | CCB02 | CCB02 | CCB | 11/18/24 14:35 | | Kareem | OK |
| 23 | PB165011BL | PB165011BL | MB | 11/18/24 14:40 | Not Use | Kareem | Not Ok |
| 24 | PB165011BS | PB165011BS | LCS | 11/18/24 14:45 | Not Use | Kareem | Not Ok |
| 25 | PB165003BL | PB165003BL | MB | 11/18/24 14:49 | | Kareem | OK |
| 26 | PB165003BS | PB165003BS | LCS | 11/18/24 14:53 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 27 | P4848-01 | TP-1 | SAM | 11/18/24 15:10 | Cr high | Kareem | Dilution |
| 28 | P4849-01 | RR-1 | SAM | 11/18/24 15:14 | | Kareem | OK |
| 29 | P4850-01 | OR-03-11142024 | SAM | 11/18/24 15:18 | | Kareem | OK |
| 30 | P4851-01 | OK-02-11142024 | SAM | 11/18/24 15:22 | | Kareem | OK |
| 31 | P4852-01 | COMP-1 | SAM | 11/18/24 15:26 | | Kareem | OK |
| 32 | P4852-02 | COMP-2 | SAM | 11/18/24 15:31 | | Kareem | OK |
| 33 | CCV03 | CCV03 | CCV | 11/18/24 15:35 | | Kareem | OK |
| 34 | CCB03 | CCB03 | CCB | 11/18/24 15:39 | | Kareem | OK |
| 35 | P4852-03 | COMP-3 | SAM | 11/18/24 15:43 | | Kareem | OK |
| 36 | P4859-01DUP | NB-08-111424DUP | DUP | 11/18/24 15:48 | | Kareem | OK |
| 37 | P4859-01L | NB-08-111424L | SD | 11/18/24 15:52 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133502

| | | | |
|---|---|---|---|
| Review By | kareem | Review On | 11/19/2024 9:23:02 AM |
| Supervise By | jaswal | Supervise On | 11/19/2024 10:28:07 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 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | P4859-01MS | NB-08-111424MS | MS | 11/18/24 15:56 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 39 | P4859-01MSD | NB-08-111424MSD | MSD | 11/18/24 16:00 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 40 | P4859-01A | NB-08-111424A | PS | 11/18/24 16:04 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 41 | P4868-01 | RW5-SP100-2024111 | SAM | 11/18/24 16:08 | | Kareem | OK |
| 42 | P4868-03 | RW5-SP303-2024111 | SAM | 11/18/24 16:12 | | Kareem | OK |
| 43 | P4868-03DUP | RW5-SP303-2024111 | DUP | 11/18/24 16:16 | | Kareem | OK |
| 44 | P4868-03MSD | RW5-SP303-2024111 | MSD | 11/18/24 16:21 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 45 | CCV04 | CCV04 | CCV | 11/18/24 16:25 | | Kareem | OK |
| 46 | CCB04 | CCB04 | CCB | 11/18/24 16:29 | | Kareem | OK |
| 47 | P4848-01DL | TP-1DL | SAM | 11/18/24 16:33 | 10x for Cr | Kareem | Confirms |
| 48 | P4868-03A | RW5-SP303-2024111 | PS | 11/18/24 16:37 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 49 | P4868-03L | RW5-SP303-2024111 | SD | 11/18/24 16:41 | | Kareem | OK |
| 50 | P4868-03MS | RW5-SP303-2024111 | MS | 11/18/24 16:46 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 51 | LR1 | LR1 | HIGH STD | 11/18/24 16:51 | | Kareem | OK |
| 52 | LR2 | LR2 | HIGH STD | 11/18/24 16:56 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133502

| | | | |
|---|---|---|---|
| Review By | kareem | Review On | 11/19/2024 9:23:02 AM |
| Supervise By | jaswal | Supervise On | 11/19/2024 10:28:07 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 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 53 | CCV05 | CCV05 | CCV | 11/18/24 17:01 | | Kareem | OK |
| 54 | CCB05 | CCB05 | CCB | 11/18/24 17:06 | | Kareem | OK |
| 55 | P4861-01 | WC-11-A-202411 | SAM | 11/18/24 17:27 | | Kareem | OK |
| 56 | P4861-01DUP | WC-11-A-202411DUP | DUP | 11/18/24 17:31 | | Kareem | OK |
| 57 | P4861-01L | WC-11-A-202411L | SD | 11/18/24 17:35 | | Kareem | OK |
| 58 | P4861-01MS | WC-11-A-202411MS | MS | 11/18/24 17:40 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 59 | P4861-01MSD | WC-11-A-202411MSD | MSD | 11/18/24 17:44 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 60 | P4861-01A | WC-11-A-202411A | PS | 11/18/24 17:48 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 61 | P4871-01 | WC-10-A-202411 | SAM | 11/18/24 17:51 | | Kareem | OK |
| 62 | P4848-02 | TP-1 | SAM | 11/18/24 17:56 | | Kareem | OK |
| 63 | P4869-01 | EO-02-11152024 | SAM | 11/18/24 18:00 | | Kareem | OK |
| 64 | CCV06 | CCV06 | CCV | 11/18/24 18:04 | | Kareem | OK |
| 65 | CCB06 | CCB06 | CCB | 11/18/24 18:08 | | Kareem | OK |
| 66 | P4887-01 | MH-739 | SAM | 11/18/24 18:13 | | Kareem | OK |
| 67 | P4887-05 | MH-760 | SAM | 11/18/24 18:17 | | Kareem | OK |
| 68 | P4889-01 | VNJ-228 | SAM | 11/18/24 18:21 | | Kareem | OK |
| 69 | P4889-03 | #72-11978 | SAM | 11/18/24 18:25 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133502

| | | | |
|---|---|---|---|
| Review By | kareem | Review On | 11/19/2024 9:23:02 AM |
| Supervise By | jaswal | Supervise On | 11/19/2024 10:28:07 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 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 70 | P4889-05 | #72-11930 | SAM | 11/18/24 18:29 | | Kareem | OK |
| 71 | P4889-05DUP | #72-11930DUP | DUP | 11/18/24 18:33 | | Kareem | OK |
| 72 | P4889-05L | #72-11930L | SD | 11/18/24 18:37 | | Kareem | OK |
| 73 | P4889-05MS | #72-11930MS | MS | 11/18/24 18:42 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 74 | P4889-05MSD | #72-11930MSD | MSD | 11/18/24 18:46 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 75 | P4889-05A | #72-11930A | PS | 11/18/24 18:50 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 76 | CCV07 | CCV07 | CCV | 11/18/24 18:54 | | Kareem | OK |
| 77 | CCB07 | CCB07 | CCB | 11/18/24 18:58 | | 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 |

| 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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Fax : 908 789 8922



**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133524

| | | | |
|---|---|---|---|
| Review By | kareem | Review On | 11/20/2024 11:25:14 AM |
| Supervise By | Jaswal | Supervise On | 11/20/2024 11:38:44 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83078,MP83079,MP73080,MP83081,MP83082,MP83084 |
| ICV Standard | MP83085 |
| CCV Standard | MP83088 |
| ICSA Standard | MP83086,MP83087 |
| CRI Standard | MP83084 |
| LCS Standard | |
| Chk Standard | MP83091,MP83092 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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 |

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|---|---|---|---|---|---|---|---|
| 35 | P4909-01A | BU-02-111824A | PS | 11/19/24 14:16 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE | Kareem | OK |
| 36 | P4890-01 | #3711 | SAM | 11/19/24 14:20 | | Kareem | OK |
| 37 | CCV03 | CCV03 | CCV | 11/19/24 14:24 | | Kareem | OK |
| 38 | CCB03 | CCB03 | CCB | 11/19/24 14:28 | | Kareem | OK |
| 39 | P4890-02 | D3617 | SAM | 11/19/24 14:37 | | Kareem | OK |
| 40 | P4890-03 | D3690 | SAM | 11/19/24 14:41 | | Kareem | OK |
| 41 | P4849-02 | RR-1 | SAM | 11/19/24 14:56 | | Kareem | OK |
| 42 | PB165019TB | PB165019TB | MB | 11/19/24 15:00 | | Kareem | OK |
| 43 | P4870-13 | TP-1 | SAM | 11/19/24 15:05 | | Kareem | OK |
| 44 | P4870-14 | MH-735 | SAM | 11/19/24 15:09 | | Kareem | OK |
| 45 | P4870-15 | MH-736 | SAM | 11/19/24 15:13 | | Kareem | OK |
| 46 | P4870-16 | TP-15 | SAM | 11/19/24 15:18 | | Kareem | OK |
| 47 | P4887-02 | MH-739 | SAM | 11/19/24 15:22 | | Kareem | OK |
| 48 | P4887-06 | MH-760 | SAM | 11/19/24 15:27 | | Kareem | OK |
| 49 | CCV04 | CCV04 | CCV | 11/19/24 15:31 | | Kareem | OK |
| 50 | CCB04 | CCB04 | CCB | 11/19/24 15:36 | | Kareem | OK |
| 51 | PB164986TB | PB164986TB | MB | 11/19/24 15:40 | fail for Cr | Kareem | Not Ok |
| 52 | PB165049BL | PB165049BL | MB | 11/19/24 15:44 | | Kareem | OK |
| | | | | | | | |

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Fax : 908 789 8922



**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133524

| | | | |
|---|---|---|---|
| Review By | kareem | Review On | 11/20/2024 11:25:14 AM |
| Supervise By | Jaswal | Supervise On | 11/20/2024 11:38:44 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83078,MP83079,MP73080,MP83081,MP83082,MP83084 |
| ICV Standard | MP83085 |
| CCV Standard | MP83088 |
| ICSA Standard | MP83086,MP83087 |
| CRI Standard | MP83084 |
| LCS Standard | |
| Chk Standard | MP83091,MP83092 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 53 | PB165049BS | PB165049BS | LCS | 11/19/24 15:49 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE | Kareem | OK |
| 54 | P4892-01DL | WB-310-TOPDL | SAM | 11/19/24 15:53 | 5x for Cr | Kareem | Confirms |
| 55 | P4341-02 | 10324-0 | SAM | 11/19/24 15:57 | | Kareem | OK |
| 56 | P4860-01 | DUP-01 | SAM | 11/19/24 16:01 | | Kareem | OK |
| 57 | P4860-02 | PH2-BOT-001 | SAM | 11/19/24 16:06 | | Kareem | OK |
| 58 | P4860-03 | PH2-BOT-002 | SAM | 11/19/24 16:10 | | Kareem | OK |
| 59 | P4860-04 | PH2-BOT-003 | SAM | 11/19/24 16:14 | | Kareem | OK |
| 60 | CCV05 | CCV05 | CCV | 11/19/24 16:18 | | Kareem | OK |
| 61 | CCB05 | CCB05 | CCB | 11/19/24 16:22 | | Kareem | OK |
| 62 | P4860-05 | PH2-BOT-004 | SAM | 11/19/24 16:27 | | Kareem | OK |
| 63 | P4860-06 | PH2-BOT-009 | SAM | 11/19/24 16:31 | | Kareem | OK |
| 64 | P4860-07 | PH2-BOT-008 | SAM | 11/19/24 16:35 | | Kareem | OK |
| 65 | P4860-08 | PH2-BOT-007 | SAM | 11/19/24 16:39 | | Kareem | OK |
| 66 | P4860-09 | PH2-BOT-006 | SAM | 11/19/24 16:44 | | Kareem | OK |
| 67 | P4860-10 | PH2-BOT-005 | SAM | 11/19/24 16:48 | | Kareem | OK |
| 68 | P4870-01 | TP-1 | SAM | 11/19/24 16:52 | | Kareem | OK |
| 69 | P4870-04 | MH-735 | SAM | 11/19/24 16:57 | | Kareem | OK |
| 70 | P4870-07 | MH-736 | SAM | 11/19/24 17:01 | | Kareem | OK |
| 71 | P4870-10 | TP-15 | SAM | 11/19/24 17:05 | | Kareem | OK |

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Fax : 908 789 8922



**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133524

| | | | |
|---|---|---|---|
| Review By | kareem | Review On | 11/20/2024 11:25:14 AM |
| Supervise By | Jaswal | Supervise On | 11/20/2024 11:38:44 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83078,MP83079,MP73080,MP83081,MP83082,MP83084 |
| ICV Standard | MP83085 |
| CCV Standard | MP83088 |
| ICSA Standard | MP83086,MP83087 |
| CRI Standard | MP83084 |
| LCS Standard | |
| Chk Standard | MP83091,MP83092 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 72 | CCV06 | CCV06 | CCV | 11/19/24 17:19 | | Kareem | OK |
| 73 | CCB06 | CCB06 | CCB | 11/19/24 17:24 | | Kareem | OK |
| 74 | PB165047BL | PB165047BL | MB | 11/19/24 17:28 | | Kareem | OK |
| 75 | PB165047BS | PB165047BS | LCS | 11/19/24 17:32 | | Kareem | OK |
| 76 | LR1 | LR1 | HIGH STD | 11/19/24 17:51 | | Kareem | OK |
| 77 | LR2 | LR2 | HIGH STD | 11/19/24 17:56 | | Kareem | OK |
| 78 | CCV07 | CCV07 | CCV | 11/19/24 18:01 | | Kareem | OK |
| 79 | CCB07 | CCB07 | CCB | 11/19/24 18:05 | | Kareem | OK |

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Fax : 908 789 8922



**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133581

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 11/22/2024 9:51:42 PM |
| Supervise By | mohan | Supervise On | 11/22/2024 9:53:32 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 13:37 | | Mohan | OK |
| 2 | S0.2 | S0.2 | CAL2 | 11/22/24 13:40 | | Mohan | OK |
| 3 | S2.5 | S2.5 | CAL3 | 11/22/24 13:42 | | Mohan | OK |
| 4 | S5 | S5 | CAL4 | 11/22/24 13:44 | | Mohan | OK |
| 5 | S7.5 | S7.5 | CAL5 | 11/22/24 13:49 | | Mohan | OK |
| 6 | S10 | S10 | CAL6 | 11/22/24 13:55 | | Mohan | OK |
| 7 | ICV98 | ICV98 | ICV | 11/22/24 13:57 | | Mohan | OK |
| 8 | ICB98 | ICB98 | ICB | 11/22/24 14:00 | | Mohan | OK |
| 9 | CCV37 | CCV37 | CCV | 11/22/24 14:02 | | Mohan | OK |
| 10 | CCB37 | CCB37 | CCB | 11/22/24 14:04 | | Mohan | OK |
| 11 | CRA | CRA | CRDL | 11/22/24 14:07 | | Mohan | OK |
| 12 | HighStd | HighStd | HIGH STD | 11/22/24 14:09 | | Mohan | OK |
| 13 | ChkStd | ChkStd | SAM | 11/22/24 14:11 | | Mohan | OK |
| 14 | PB165177BL | PB165177BL | MB | 11/22/24 14:13 | | Mohan | OK |
| 15 | PB165177BS | PB165177BS | LCS | 11/22/24 14:16 | | Mohan | OK |
| 16 | P4860-01 | DUP-01 | SAM | 11/22/24 14:18 | | Mohan | OK |
| 17 | P4860-01DUP | DUP-01DUP | DUP | 11/22/24 14:20 | | Mohan | OK |
| 18 | P4860-01MS | DUP-01MS | MS | 11/22/24 14:23 | | Mohan | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133581

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 11/22/2024 9:51:42 PM |
| Supervise By | mohan | Supervise On | 11/22/2024 9:53:32 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 | P4860-01MSD | DUP-01MSD | MSD | 11/22/24 14:25 | | Mohan | OK |
| 20 | P4860-02 | PH2-BOT-001 | SAM | 11/22/24 14:27 | | Mohan | OK |
| 21 | CCV38 | CCV38 | CCV | 11/22/24 14:30 | | Mohan | OK |
| 22 | CCB38 | CCB38 | CCB | 11/22/24 14:32 | | Mohan | OK |
| 23 | P4860-03 | PH2-BOT-002 | SAM | 11/22/24 14:34 | | Mohan | OK |
| 24 | P4860-04 | PH2-BOT-003 | SAM | 11/22/24 14:36 | | Mohan | OK |
| 25 | P4860-05 | PH2-BOT-004 | SAM | 11/22/24 14:39 | | Mohan | OK |
| 26 | P4860-06 | PH2-BOT-009 | SAM | 11/22/24 14:41 | | Mohan | OK |
| 27 | P4860-07 | PH2-BOT-008 | SAM | 11/22/24 14:43 | | Mohan | OK |
| 28 | P4860-08 | PH2-BOT-007 | SAM | 11/22/24 14:46 | | Mohan | OK |
| 29 | P4860-09 | PH2-BOT-006 | SAM | 11/22/24 14:48 | | Mohan | OK |
| 30 | P4860-10 | PH2-BOT-005 | SAM | 11/22/24 14:50 | | Mohan | OK |
| 31 | PB165178BL | PB165178BL | MB | 11/22/24 14:52 | | Mohan | OK |
| 32 | PB165178BS | PB165178BS | LCS | 11/22/24 14:55 | | Mohan | OK |
| 33 | CCV39 | CCV39 | CCV | 11/22/24 14:57 | | Mohan | OK |
| 34 | CCB39 | CCB39 | CCB | 11/22/24 14:59 | | Mohan | OK |
| 35 | P4916-01 | TP-1-WC | SAM | 11/22/24 15:02 | | Mohan | OK |
| 36 | P4916-05 | TP-2-WC | SAM | 11/22/24 15:04 | | Mohan | OK |
| 37 | P4916-09 | TP-3-WC | SAM | 11/22/24 15:06 | | Mohan | OK |
| 38 | P4923-06 | 72-11991 | SAM | 11/22/24 15:08 | | Mohan | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133581

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 11/22/2024 9:51:42 PM |
| Supervise By | mohan | Supervise On | 11/22/2024 9:53:32 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 | P4924-01 | MH-4 | SAM | 11/22/24 15:11 | | Mohan | OK |
| 40 | P4925-01 | MH-741 | SAM | 11/22/24 15:13 | | Mohan | OK |
| 41 | P4925-05 | MH-758 | SAM | 11/22/24 15:15 | | Mohan | OK |
| 42 | P4929-01 | ARS520 | SAM | 11/22/24 15:17 | | Mohan | OK |
| 43 | P4936-01 | PL-01-11202024 | SAM | 11/22/24 15:20 | | Mohan | OK |
| 44 | P4938-01 | MH-732 | SAM | 11/22/24 15:22 | | Mohan | OK |
| 45 | CCV40 | CCV40 | CCV | 11/22/24 15:24 | | Mohan | OK |
| 46 | CCB40 | CCB40 | CCB | 11/22/24 15:26 | | Mohan | OK |
| 47 | P4938-05 | MH-734 | SAM | 11/22/24 15:29 | | Mohan | OK |
| 48 | P4938-05DUP | MH-734DUP | DUP | 11/22/24 15:31 | | Mohan | OK |
| 49 | P4938-05MS | MH-734MS | MS | 11/22/24 15:33 | | Mohan | OK |
| 50 | P4938-05MSD | MH-734MSD | MSD | 11/22/24 15:36 | | Mohan | OK |
| 51 | P4860-01L | DUP-01L | SD | 11/22/24 15:38 | | Mohan | OK |
| 52 | P4860-01A | DUP-01A | PS | 11/22/24 15:40 | | Mohan | OK |
| 53 | P4938-05L | MH-734L | SD | 11/22/24 15:43 | | Mohan | OK |
| 54 | P4938-05A | MH-734A | PS | 11/22/24 15:45 | | Mohan | OK |
| 55 | CCV41 | CCV41 | CCV | 11/22/24 15:47 | | Mohan | OK |
| 56 | CCB41 | CCB41 | CCB | 11/22/24 15:49 | | Mohan | OK |

Alliance TECHNICAL GROUP

**Soil/Sludge Metals Preparation Sheet**

PB165047

**SOP ID :** M3050B-Digestion-20

**SDG No :** N/A

**Matrix :** SOLID

**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 :** 09:30 **Temp :** 96 °C

**End Digest Date:** 11/18/2024 **Time :** 11:45 **Temp :** 96 °C

**Digestion tube ID:** M6054

**Block thermometer ID:** MET-DIG. #2

**Dig Technician Signature:** jgp

**Supervisor Signature:** SJ

**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 12:00 | jgp / Met dig | SJ (Metals lab) |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**Soil/Sludge Metals Preparation Sheet**

**PB165047**

| Lab Sample ID | Client Sample ID | pH | Initial Weight (g) | Final Vol (ml) | Color Before | Color After | Texture | Artifact | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| P4860-01 | DUP-01 | N/A | 2.35 | 100 | Light brown | Light Green | Medium | N/A | N/A | 1 |
| P4860-02 | PH2-BPT-001 | N/A | 2.41 | 100 | Light brown | Light Green | Medium | N/A | N/A | 2 |
| P4860-03 | PH2-BPT-002 | N/A | 2.40 | 100 | LightBrown | Light Green | Medium | N/A | N/A | 3 |
| P4860-04 | PH2-BPT-003 | N/A | 2.28 | 100 | LightBrown | Light Green | Medium | N/A | N/A | 4 |
| P4860-05 | PH2-BPT-004 | N/A | 2.19 | 100 | LightBrown | Light Green | Medium | N/A | N/A | 5 |
| P4860-06 | PH2-BPT-009 | N/A | 2.24 | 100 | LightBrown | Light Green | Medium | N/A | N/A | 6 |
| P4860-07 | PH2-BPT-008 | N/A | 2.35 | 100 | Light Brown | Light Green | Medium | N/A | N/A | 7 |
| P4860-08 | PH2-BPT-007 | N/A | 2.33 | 100 | Light Brown | Light Green | Medium | N/A | N/A | 8 |
| P4860-09 | PH2-BPT-006 | N/A | 2.33 | 100 | Light Brown | Light Green | Medium | N/A | N/A | 9 |
| P4860-10 | PH2-BPT-005 | N/A | 2.25 | 100 | Light Brown | Light Green | Medium | N/A | N/A | 10 |
| P4869-01 | EO-02-11152024 | N/A | 2.35 | 100 | Brown | Yellow | Medium | N/A | N/A | 11 |
| P4870-01 | TP-1 | N/A | 2.36 | 100 | Brown | Yellow | Medium | N/A | N/A | 12 |
| P4870-04 | MH-735 | N/A | 2.27 | 100 | Brown | Yellow | Medium | N/A | N/A | 13 |
| P4870-07 | MH-736 | N/A | 2.39 | 100 | Brown | Yellow | Medium | N/A | N/A | 14 |
| P4870-10 | TP-15 | N/A | 2.32 | 100 | Brown | Yellow | Medium | N/A | N/A | 15 |
| P4887-01 | MH-739 | N/A | 2.23 | 100 | Brown | Yellow | Medium | N/A | N/A | 16 |
| P4887-05 | MH-760 | N/A | 2.37 | 100 | Brown | Yellow | Medium | N/A | N/A | 17 |
| P4889-01 | VNJ-228 | N/A | 2.21 | 100 | Brown | Yellow | Medium | N/A | N/A | 18 |
| P4889-03 | #72-11978 | N/A | 2.28 | 100 | Brown | Yellow | Medium | N/A | N/A | 19 |
| P4889-05 | #72-11930 | N/A | 2.24 | 100 | Brown | Yellow | Medium | N/A | N/A | 20 |
| P4889-05MS | #72-11930MS | N/A | 2.29 | 100 | Brown | Yellow | Medium | N/A | M6000,M6009 | 22 |
| P4889-05MSD | #72-11930MSD | N/A | 2.32 | 100 | Brown | Yellow | Medium | N/A | M6000,M6009 | 23 |
| P4889-05DUP | #72-11930DUP | N/A | 2.18 | 100 | Brown | Yellow | Medium | N/A | N/A | 21 |
| PB165047BL | PBS047 | N/A | 2.23 | 100 | colorless | colorless | Fine | N/A | N/A | 24 |
| PB165047BS | LCS047 | N/A | 2.23 | 100 | colorless | colorless | Fine | N/A | M6000,M6009 | 25 |

Alliance TECHNICAL GROUP

**Soil/Sludge Mercury Preparation Sheet**

PB165177

10

A B C D E F G H I J

**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:** 11/21/2024 **Time :** 14:40 **Temp :** 95 °C

**End Digest Date:** 11/21/2024 **Time :** 15:10 **Temp :** 94 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** HG-DIG#3

**Dig Technician Signature:**

**Supervisor Signature:**

**Temp :** 1. 95°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| ICV | 30mL | MP83336 |
| CCV | 30mL | MP83338 |
| CRA | 30mL | MP83340 |
| Blank Spike | 0.48mL | MP83329 |
| Matrix Spike | N/A | MP83329 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| AQUA REGIA | 1.5mL | MP83342 |
| 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 | 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 @ 15:30 | MB - DIG. LAB | MB - ORGANICS LAB |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

## Soil/Sludge Mercury Preparation Sheet

**PB165177**

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Comment | Prep Pos |
|---|---|---|---|---|---|---|
| P4860-01 | DUP-01 | 0.55 | 35 | NA | N/A | 3-1 |
| P4860-01DUP | DUP-01DUP | 0.57 | 35 | NA | N/A | 2 |
| P4860-01MS | DUP-01MS | 0.53 | 35 | NA | MP83329 | 3 |
| P4860-01MSD | DUP-01MSD | 0.53 | 35 | NA | MP83329 | 4 |
| P4860-02 | PH2-BOT-001 | 0.58 | 35 | NA | N/A | 5 |
| P4860-03 | PH2-BOT-002 | 0.52 | 35 | NA | N/A | 6 |
| P4860-04 | PH2-BOT-003 | 0.50 | 35 | NA | N/A | 7 |
| P4860-05 | PH2-BOT-004 | 0.54 | 35 | NA | N/A | 8 |
| P4860-06 | PH2-BOT-009 | 0.50 | 35 | NA | N/A | 9 |
| P4860-07 | PH2-BOT-008 | 0.55 | 35 | NA | N/A | 10 |
| P4860-08 | PH2-BOT-007 | 0.57 | 35 | NA | N/A | 11 |
| P4860-09 | PH2-BOT-006 | 0.52 | 35 | NA | N/A | 12 |
| P4860-10 | PH2-BOT-005 | 0.55 | 35 | NA | N/A | 13 |
| PB165177BL | PBS177 | 0.52 | 35 | NA | N/A | 14 |
| PB165177BS | LCS177 | 0.54 | 35 | NA | MP83329 | 15 |

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 00:00 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | DUP-01 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-01 | Matrix: | SOIL |
| | | % Solid: | 96.8 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.15 | J | 1 | 0.045 | 0.26 | mg/Kg | 11/15/24 12:20 | 11/15/24 16:48 | 9012B |
| Hexavalent Chromium | 0.080 | U | 1 | 0.080 | 0.41 | mg/Kg | 11/18/24 09:20 | 11/18/24 15:44 | 7196A |
| pH | 8.30 | H | 1 | 0 | 0 | pH | | 11/15/24 17:33 | 9045D |

Comments: pH result reported at temperature 23.3 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 08:20 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-001 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-02 | Matrix: | SOIL |
| | | % Solid: | 96.8 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.61 | | 1 | 0.045 | 0.25 | mg/Kg | 11/15/24 12:20 | 11/15/24 16:48 | 9012B |
| Hexavalent Chromium | 0.081 | U | 1 | 0.081 | 0.41 | mg/Kg | 11/18/24 09:20 | 11/18/24 15:49 | 7196A |
| pH | 6.72 | H | 1 | 0 | 0 | pH | | 11/15/24 17:37 | 9045D |

Comments: pH result reported at temperature 23.4 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 08:45 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-002 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-03 | Matrix: | SOIL |
| | | % Solid: | 96.6 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.38 | | 1 | 0.044 | 0.25 | mg/Kg | 11/15/24 12:20 | 11/15/24 16:48 | 9012B |
| Hexavalent Chromium | 0.080 | U | 1 | 0.080 | 0.41 | mg/Kg | 11/18/24 09:20 | 11/18/24 15:50 | 7196A |
| pH | 7.03 | H | 1 | 0 | 0 | pH | | 11/15/24 17:40 | 9045D |

Comments: pH result reported at temperature 23.0 °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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 09:05 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-003 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-04 | Matrix: | SOIL |
| | | % Solid: | 97.8 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.15 | J | 1 | 0.043 | 0.25 | mg/Kg | 11/15/24 12:20 | 11/15/24 16:48 | 9012B |
| Hexavalent Chromium | 0.28 | J | 1 | 0.080 | 0.41 | mg/Kg | 11/18/24 09:20 | 11/18/24 15:51 | 7196A |
| pH | 6.95 | H | 1 | 0 | 0 | pH | | 11/15/24 17:44 | 9045D |

Comments: pH result reported at temperature 23.0 °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: | Tetra Tech | Date Collected: | 11/14/24 09:25 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-004 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-05 | Matrix: | SOIL |
| | | % Solid: | 98.1 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.057 | J | 1 | 0.043 | 0.24 | mg/Kg | 11/15/24 12:20 | 11/15/24 16:48 | 9012B |
| Hexavalent Chromium | 0.080 | U | 1 | 0.080 | 0.41 | mg/Kg | 11/18/24 09:20 | 11/18/24 15:54 | 7196A |
| pH | 6.91 | H | 1 | 0 | 0 | pH | | 11/15/24 17:47 | 9045D |

Comments: pH result reported at temperature 22.7 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 09:45 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-009 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-06 | Matrix: | SOIL |
| | | % Solid: | 98.3 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.066 | J | 1 | 0.044 | 0.25 | mg/Kg | 11/15/24 12:20 | 11/15/24 16:56 | 9012B |
| Hexavalent Chromium | 0.079 | U | 1 | 0.079 | 0.40 | mg/Kg | 11/18/24 09:20 | 11/18/24 15:55 | 7196A |
| pH | 6.88 | H | 1 | 0 | 0 | pH | | 11/15/24 17:50 | 9045D |

Comments: pH result reported at temperature 22.1 °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: | Tetra Tech | Date Collected: | 11/14/24 10:00 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-008 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-07 | Matrix: | SOIL |
| | | % Solid: | 96.8 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.18 | J | 1 | 0.044 | 0.25 | mg/Kg | 11/15/24 12:20 | 11/15/24 16:56 | 9012B |
| Hexavalent Chromium | 0.081 | U | 1 | 0.081 | 0.41 | mg/Kg | 11/18/24 09:20 | 11/18/24 15:56 | 7196A |
| pH | 7.29 | H | 1 | 0 | 0 | pH | | 11/15/24 17:55 | 9045D |

Comments: pH result reported at temperature 23.1 °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: | Tetra Tech | Date Collected: | 11/14/24 10:15 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-007 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-08 | Matrix: | SOIL |
| | | % Solid: | 98 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.11 | J | 1 | 0.044 | 0.25 | mg/Kg | 11/15/24 12:20 | 11/15/24 16:56 | 9012B |
| Hexavalent Chromium | 0.079 | U | 1 | 0.079 | 0.40 | mg/Kg | 11/18/24 09:20 | 11/18/24 15:57 | 7196A |
| pH | 7.33 | H | 1 | 0 | 0 | pH | | 11/15/24 18:00 | 9045D |

Comments: pH result reported at temperature 23.0 °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: | Tetra Tech | Date Collected: | 11/14/24 10:30 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-006 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-09 | Matrix: | SOIL |
| | | % Solid: | 97.5 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.080 | J | 1 | 0.043 | 0.24 | mg/Kg | 11/15/24 12:20 | 11/15/24 16:56 | 9012B |
| Hexavalent Chromium | 0.29 | J | 1 | 0.081 | 0.41 | mg/Kg | 11/18/24 09:20 | 11/18/24 15:58 | 7196A |
| pH | 6.73 | H | 1 | 0 | 0 | pH | | 11/15/24 18:10 | 9045D |

Comments: pH result reported at temperature 22.7 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech | Date Collected: | 11/14/24 10:45 |
| Project: | Ocean County Landfill 2024 | Date Received: | 11/14/24 |
| Client Sample ID: | PH2-BOT-005 | SDG No.: | P4860 |
| Lab Sample ID: | P4860-10 | Matrix: | SOIL |
| | | % Solid: | 97.6 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.044 | U | 1 | 0.044 | 0.25 | mg/Kg | 11/15/24 12:20 | 11/15/24 16:56 | 9012B |
| Hexavalent Chromium | 0.080 | U | 1 | 0.080 | 0.40 | mg/Kg | 11/18/24 09:20 | 11/18/24 15:59 | 7196A |
| pH | 8.41 | H | 1 | 0 | 0 | pH | | 11/15/24 18:25 | 9045D |

Comments: pH result reported at temperature 23.2 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

# QC RESULT SUMMARY

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# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client:** | Tetra Tech | **SDG No.:** | P4860 |
| **Project:** | Ocean County Landfill 2024 | **RunNo.:** | LB133478 |

| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID:** | **ICV** | | | | | | |
| pH | | pH | 7.01 | 7 | 100 | 90-110 | 11/15/2024 |
| **Sample ID:** | **CCV1** | | | | | | |
| pH | | pH | 2.01 | 2.00 | 101 | 90-110 | 11/15/2024 |
| **Sample ID:** | **CCV2** | | | | | | |
| pH | | pH | 12.02 | 12.00 | 100 | 90-110 | 11/15/2024 |
| **Sample ID:** | **CCV3** | | | | | | |
| pH | | pH | 2.01 | 2.00 | 101 | 90-110 | 11/15/2024 |

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# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client:** | Tetra Tech | **SDG No.:** | P4860 |
| **Project:** | Ocean County Landfill 2024 | **RunNo.:** | LB133487 |

| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID:** | **ICV1** | | | | | | |
| Cyanide | | mg/L | 0.097 | 0.099 | 98 | 90-110 | 11/15/2024 |
| **Sample ID:** | **CCV1** | | | | | | |
| Cyanide | | mg/L | 0.25 | 0.25 | 100 | 90-110 | 11/15/2024 |
| **Sample ID:** | **CCV2** | | | | | | |
| Cyanide | | mg/L | 0.25 | 0.25 | 100 | 90-110 | 11/15/2024 |
| **Sample ID:** | **CCV3** | | | | | | |
| Cyanide | | mg/L | 0.25 | 0.25 | 100 | 90-110 | 11/15/2024 |
| **Sample ID:** | **CCV4** | | | | | | |
| Cyanide | | mg/L | 0.25 | 0.25 | 100 | 90-110 | 11/15/2024 |

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# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client:** | Tetra Tech | **SDG No.:** | P4860 |
| **Project:** | Ocean County Landfill 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 Blank Summary

| | | | |
|---|---|---|---|
| **Client:** | Tetra Tech | **SDG No.:** | P4860 |
| **Project:** | Ocean County Landfill 2024 | **RunNo.:** | LB133487 |

| Analyte | | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| Sample ID: | ICB1 | | | | | | | |
| Cyanide | | mg/L | < 0.0025 | 0.0025 | U | 0.00099 | 0.005 | 11/15/2024 |
| Sample ID: | CCB1 | | | | | | | |
| Cyanide | | mg/L | < 0.0025 | 0.0025 | U | 0.00099 | 0.005 | 11/15/2024 |
| Sample ID: | CCB2 | | | | | | | |
| Cyanide | | mg/L | < 0.0025 | 0.0025 | U | 0.00099 | 0.005 | 11/15/2024 |
| Sample ID: | CCB3 | | | | | | | |
| Cyanide | | mg/L | < 0.0025 | 0.0025 | U | 0.00099 | 0.005 | 11/15/2024 |
| Sample ID: | CCB4 | | | | | | | |
| Cyanide | | mg/L | < 0.0025 | 0.0025 | U | 0.00099 | 0.005 | 11/15/2024 |

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# Initial and Continuing Calibration Blank Summary

| | | | |
|---|---|---|---|
| **Client:** | Tetra Tech | **SDG No.:** | P4860 |
| **Project:** | Ocean County Landfill 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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# Preparation Blank Summary

**Client:** Tetra Tech **SDG No.:** P4860

**Project:** Ocean County Landfill 2024

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| Sample ID: PB165016BL | | | | | | | |
| Cyanide | mg/Kg | < 0.1250 | 0.1250 | U | 0.044 | 0.25 | 11/15/2024 |
| Sample ID: PB165024BL | | | | | | | |
| Hexavalent Chromium | mg/Kg | < 0.2000 | 0.2000 | U | 0.079 | 0.4 | 11/18/2024 |

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# Matrix Spike Summary

**Client:** Tetra Tech
**Project:** Ocean County Landfill 2024
**Client ID:** SOIL-1MS
**SDG No.:** P4860
**Sample ID:** P4822-02
**Percent Solids for Spike Sample:** 92.4

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | mg/Kg | 75-125 | 2.60 | | 0.15 | J | 2.1 | 1 | 117 | | 11/15/2024 |

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# Matrix Spike Summary

**Client:** Tetra Tech
**Project:** Ocean County Landfill 2024
**Client ID:** SOIL-1MSD
**SDG No.:** P4860
**Sample ID:** P4822-02
**Percent Solids for Spike Sample:** 92.4

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | mg/Kg | 75-125 | 2.60 | | 0.15 | J | 2.1 | 1 | 117 | | 11/15/2024 |

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# Matrix Spike Summary

**Client:** Tetra Tech
**Project:** Ocean County Landfill 2024
**Client ID:** DUP-01MS
**SDG No.:** P4860
**Sample ID:** P4860-01
**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:** Tetra Tech
**Project:** Ocean County Landfill 2024
**Client ID:** DUP-01MS
**SDG No.:** P4860
**Sample ID:** P4860-01
**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:** Tetra Tech
**Project:** Ocean County Landfill 2024
**Client ID:** DUP-01MS
**SDG No.:** P4860
**Sample ID:** P4860-01
**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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# Duplicate Sample Summary

**Client:** Tetra Tech
**Project:** Ocean County Landfill 2024
**Client ID:** SOIL-1DUP
**SDG No.:** P4860
**Sample ID:** P4822-02
**Percent Solids for Spike Sample:** 92.4

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | mg/Kg | +/-20 | 0.15 | J | 0.14 | J | 1 | 7 | | 11/15/2024 |

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# Duplicate Sample Summary

**Client:** Tetra Tech
**Project:** Ocean County Landfill 2024
**Client ID:** SOIL-1MSD
**SDG No.:** P4860
**Sample ID:** P4822-02
**Percent Solids for Spike Sample:** 92.4

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | mg/Kg | +/-20 | 2.60 | | 2.60 | | 1 | 0 | | 11/15/2024 |

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# Duplicate Sample Summary

**Client:** Tetra Tech
**Project:** Ocean County Landfill 2024
**Client ID:** DUP-01DUP
**SDG No.:** P4860
**Sample ID:** P4860-01
**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:** Tetra Tech
**Project:** Ocean County Landfill 2024
**Client ID:** DUP-01DUP
**SDG No.:** P4860
**Sample ID:** P4860-01
**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 |
|---|---|---|---|---|---|---|---|---|---|---|
| pH | pH | +/-20 | 8.30 | | 8.31 | | 1 | 0.12 | | 11/15/2024 |

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# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Tetra Tech | **SDG No.:** | P4860 |
| **Project:** | Ocean County Landfill 2024 | **Run No.:** | LB133487 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID** PB165016BS | | | | | | | | |
| Cyanide | mg/Kg | 5 | 4.80 | | 96 | 1 | 85-115 | 11/15/2024 |

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# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Tetra Tech | **SDG No.:** | P4860 |
| **Project:** | Ocean County Landfill 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:** WC PH METER-1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133478

| | | | |
|---|---|---|---|
| Review By | jignesh | Review On | 11/16/2024 8:43:34 AM |
| Supervise By | Iwona | Supervise On | 11/18/2024 10:20:41 AM |
| SubDirectory | LB133478 | Test | pH |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | N/A |
| ICV Standard | N/A |
| CCV Standard | N/A |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | N/A |
| Chk Standard | W3107,W3093,W3094,W3071,W3005,W3072 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | CAL1 | CAL1 | CAL | 11/15/24 17:20 | | Jignesh | OK |
| 2 | CAL2 | CAL2 | CAL | 11/15/24 17:21 | | Jignesh | OK |
| 3 | CAL3 | CAL3 | CAL | 11/15/24 17:22 | | Jignesh | OK |
| 4 | ICV | ICV | ICV | 11/15/24 17:25 | | Jignesh | OK |
| 5 | CCV1 | CCV1 | CCV | 11/15/24 17:30 | | Jignesh | OK |
| 6 | P4860-01 | DUP-01 | SAM | 11/15/24 17:33 | | Jignesh | OK |
| 7 | P4860-01DUP | DUP-01DUP | DUP | 11/15/24 17:34 | | Jignesh | OK |
| 8 | P4860-02 | PH2-BOT-001 | SAM | 11/15/24 17:37 | | Jignesh | OK |
| 9 | P4860-03 | PH2-BOT-002 | SAM | 11/15/24 17:40 | | Jignesh | OK |
| 10 | P4860-04 | PH2-BOT-003 | SAM | 11/15/24 17:44 | | Jignesh | OK |
| 11 | P4860-05 | PH2-BOT-004 | SAM | 11/15/24 17:47 | | Jignesh | OK |
| 12 | P4860-06 | PH2-BOT-009 | SAM | 11/15/24 17:50 | | Jignesh | OK |
| 13 | P4860-07 | PH2-BOT-008 | SAM | 11/15/24 17:55 | | Jignesh | OK |
| 14 | P4860-08 | PH2-BOT-007 | SAM | 11/15/24 18:00 | | Jignesh | OK |
| 15 | P4860-09 | PH2-BOT-006 | SAM | 11/15/24 18:10 | | Jignesh | OK |
| 16 | CCV2 | CCV2 | CCV | 11/15/24 18:15 | | Jignesh | OK |
| 17 | P4860-10 | PH2-BOT-005 | SAM | 11/15/24 18:25 | | Jignesh | OK |
| 18 | CCV3 | CCV3 | CCV | 11/15/24 18:26 | | Jignesh | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133487

| | | | |
|---|---|---|---|
| Review By | Niha | Review On | 11/19/2024 4:10:49 PM |
| Supervise By | Iwona | Supervise On | 11/19/2024 4:31:25 PM |
| SubDirectory | LB133487 | Test | Cyanide |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP110724,WP110725,WP110726,WP110727,WP110728,WP110729,WP110730 |
| ICV Standard | W3011 |
| CCV Standard | WP110725 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP109549 |
| Chk Standard | WP109068,WP110103,WP110731 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | 0.0PPBCN | 0.0PPBCN | CAL1 | 11/15/24 10:43 | | Niha | OK |
| 2 | 5.0PPBCN | 5.0PPBCN | CAL2 | 11/15/24 10:43 | | Niha | OK |
| 3 | 10PPBCN | 10PPBCN | CAL3 | 11/15/24 10:43 | | Niha | OK |
| 4 | 50PPBCN | 50PPBCN | CAL4 | 11/15/24 10:43 | | Niha | OK |
| 5 | 100PPBCN | 100PPBCN | CAL5 | 11/15/24 10:43 | | Niha | OK |
| 6 | 250PPBCN | 250PPBCN | CAL6 | 11/15/24 10:43 | | Niha | OK |
| 7 | 500PPBCN | 500PPBCN | CAL7 | 11/15/24 10:43 | | Niha | OK |
| 8 | ICV1 | ICV1 | ICV | 11/15/24 16:33 | | Niha | OK |
| 9 | ICB1 | ICB1 | ICB | 11/15/24 16:33 | | Niha | OK |
| 10 | CCV1 | CCV1 | CCV | 11/15/24 16:33 | | Niha | OK |
| 11 | CCB1 | CCB1 | CCB | 11/15/24 16:33 | | Niha | OK |
| 12 | PB165016BL | PB165016BL | MB | 11/15/24 16:33 | | Niha | OK |
| 13 | PB165016BS | PB165016BS | LCS | 11/15/24 16:33 | | Niha | OK |
| 14 | LOWPB165016 | LOWPB165016 | SAM | 11/15/24 16:40 | | Niha | OK |
| 15 | HIGHPB165016 | HIGHPB165016 | SAM | 11/15/24 16:40 | | Niha | OK |
| 16 | P4822-02 | SOIL-1 | SAM | 11/15/24 16:40 | | Niha | OK |
| 17 | P4822-02DUP | SOIL-1DUP | DUP | 11/15/24 16:41 | | Niha | OK |
| 18 | P4822-02MS | SOIL-1MS | MS | 11/15/24 16:41 | | Niha | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133487

| | | | |
|---|---|---|---|
| Review By | Niha | Review On | 11/19/2024 4:10:49 PM |
| Supervise By | Iwona | Supervise On | 11/19/2024 4:31:25 PM |
| SubDirectory | LB133487 | Test | Cyanide |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP110724,WP110725,WP110726,WP110727,WP110728,WP110729,WP110730 |
| ICV Standard | W3011 |
| CCV Standard | WP110725 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP109549 |
| Chk Standard | WP109068,WP110103,WP110731 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4822-02MSD | SOIL-1MSD | MSD | 11/15/24 16:41 | | Niha | OK |
| 20 | P4822-04 | SOIL-2 | SAM | 11/15/24 16:48 | | Niha | OK |
| 21 | P4822-06 | SOIL-3 | SAM | 11/15/24 16:48 | | Niha | OK |
| 22 | CCV2 | CCV2 | CCV | 11/15/24 16:48 | | Niha | OK |
| 23 | CCB2 | CCB2 | CCB | 11/15/24 16:48 | | Niha | OK |
| 24 | P4822-08 | SOIL-4 | SAM | 11/15/24 16:48 | | Niha | OK |
| 25 | P4822-10 | SOIL-5 | SAM | 11/15/24 16:48 | | Niha | OK |
| 26 | P4860-01 | DUP-01 | SAM | 11/15/24 16:48 | | Niha | OK |
| 27 | P4860-02 | PH2-BOT-001 | SAM | 11/15/24 16:48 | | Niha | OK |
| 28 | P4860-03 | PH2-BOT-002 | SAM | 11/15/24 16:48 | | Niha | OK |
| 29 | P4860-04 | PH2-BOT-003 | SAM | 11/15/24 16:48 | | Niha | OK |
| 30 | P4860-05 | PH2-BOT-004 | SAM | 11/15/24 16:48 | | Niha | OK |
| 31 | P4860-06 | PH2-BOT-009 | SAM | 11/15/24 16:56 | | Niha | OK |
| 32 | P4860-07 | PH2-BOT-008 | SAM | 11/15/24 16:56 | | Niha | OK |
| 33 | P4860-08 | PH2-BOT-007 | SAM | 11/15/24 16:56 | | Niha | OK |
| 34 | CCV3 | CCV3 | CCV | 11/15/24 16:56 | | Niha | OK |
| 35 | CCB3 | CCB3 | CCB | 11/15/24 16:56 | | Niha | OK |
| 36 | P4860-09 | PH2-BOT-006 | SAM | 11/15/24 16:56 | | Niha | OK |
| 37 | P4860-10 | PH2-BOT-005 | SAM | 11/15/24 16:56 | | Niha | OK |
| 38 | P4822-12 | SOIL-6 | SAM | 11/15/24 17:03 | | Niha | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133487

| | | | |
|---|---|---|---|
| Review By | Niha | Review On | 11/19/2024 4:10:49 PM |
| Supervise By | Iwona | Supervise On | 11/19/2024 4:31:25 PM |
| SubDirectory | LB133487 | Test | Cyanide |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP110724,WP110725,WP110726,WP110727,WP110728,WP110729,WP110730 |
| ICV Standard | W3011 |
| CCV Standard | WP110725 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP109549 |
| Chk Standard | WP109068,WP110103,WP110731 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | CCV4 | CCV4 | CCV | 11/15/24 17:03 | | Niha | OK |
| 40 | CCB4 | CCB4 | CCB | 11/15/24 17:03 | | Niha | 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 | 11/18/2024 4:49:53 PM |
| 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 | 11/18/2024 4:49:53 PM |
| 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 | Iwona | Supervise On | 11/18/2024 4:49:53 PM |
| 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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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4860 | **OrderDate:** | 11/14/2024 1:36:41 PM |
| **Client:** | Tetra Tech | **Project:** | Ocean County Landfill 2024 |
| **Contact:** | John Giuliano | **Location:** | L41 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4860-01** | **DUP-01** | **SOIL** | | | **11/14/24 12:00** | | | **11/14/24** |
| | | | Hexavalent Chromium | 7196A | | 11/18/24 | 11/18/24 15:44 | |
| | | | pH | 9045D | | | 11/15/24 17:33 | |
| | | | Cyanide | 9012B | | 11/15/24 | 11/15/24 16:48 | |
| **P4860-02** | **PH2-BOT-001** | **SOIL** | | | **11/14/24 08:20** | | | **11/14/24** |
| | | | Cyanide | 9012B | | 11/15/24 | 11/15/24 16:48 | |
| | | | Hexavalent Chromium | 7196A | | 11/18/24 | 11/18/24 15:49 | |
| | | | pH | 9045D | | | 11/15/24 17:37 | |
| **P4860-03** | **PH2-BOT-002** | **SOIL** | | | **11/14/24 08:45** | | | **11/14/24** |
| | | | Cyanide | 9012B | | 11/15/24 | 11/15/24 16:48 | |
| | | | Hexavalent Chromium | 7196A | | 11/18/24 | 11/18/24 15:50 | |
| | | | pH | 9045D | | | 11/15/24 17:40 | |
| **P4860-04** | **PH2-BOT-003** | **SOIL** | | | **11/14/24 09:05** | | | **11/14/24** |
| | | | Cyanide | 9012B | | 11/15/24 | 11/15/24 16:48 | |
| | | | Hexavalent Chromium | 7196A | | 11/18/24 | 11/18/24 15:51 | |

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## LAB CHRONICLE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | pH | 9045D | | | 11/15/24 17:44 | |
| **P4860-05** | **PH2-BOT-004** | **SOIL** | | | **11/14/24 09:25** | | | **11/14/24** |
| | | | Cyanide | 9012B | | 11/15/24 | 11/15/24 16:48 | |
| | | | Hexavalent Chromium | 7196A | | 11/18/24 | 11/18/24 15:54 | |
| | | | pH | 9045D | | | 11/15/24 17:47 | |
| **P4860-06** | **PH2-BOT-009** | **SOIL** | | | **11/14/24 09:45** | | | **11/14/24** |
| | | | Cyanide | 9012B | | 11/15/24 | 11/15/24 16:56 | |
| | | | Hexavalent Chromium | 7196A | | 11/18/24 | 11/18/24 15:55 | |
| | | | pH | 9045D | | | 11/15/24 17:50 | |
| **P4860-07** | **PH2-BOT-008** | **SOIL** | | | **11/14/24 10:00** | | | **11/14/24** |
| | | | Cyanide | 9012B | | 11/15/24 | 11/15/24 16:56 | |
| | | | Hexavalent Chromium | 7196A | | 11/18/24 | 11/18/24 15:56 | |
| | | | pH | 9045D | | | 11/15/24 17:55 | |
| **P4860-08** | **PH2-BOT-007** | **SOIL** | | | **11/14/24 10:15** | | | **11/14/24** |
| | | | Cyanide | 9012B | | 11/15/24 | 11/15/24 16:56 | |
| | | | Hexavalent Chromium | 7196A | | 11/18/24 | 11/18/24 15:57 | |
| | | | pH | 9045D | | | 11/15/24 18:00 | |
| **P4860-09** | **PH2-BOT-006** | **SOIL** | | | **11/14/24 10:30** | | | **11/14/24** |

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## LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Cyanide | 9012B | | 11/15/24 | 11/15/24 16:56 |
| | | | Hexavalent Chromium | 7196A | | 11/18/24 | 11/18/24 15:58 |
| | | | pH | 9045D | | | 11/15/24 18:10 |
| **P4860-10** | **PH2-BOT-005** | **SOIL** | | | **11/14/24 10:45** | | **11/14/24** |
| | | | Cyanide | 9012B | | 11/15/24 | 11/15/24 16:56 |
| | | | Hexavalent Chromium | 7196A | | 11/18/24 | 11/18/24 15:59 |
| | | | pH | 9045D | | | 11/15/24 18:25 |

Alliance TECHNICAL GROUP

**Soil/Sludge Cyanide Preparation Sheet**

PB165016

11

**SOP ID :** M9012B-Total, Amenable and Reactive Cyanide-20

**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 :** JP

**Start Digest Date:** 11/15/2024 **Time :** 12:20 **Temp :** 123 °C

**End Digest Date:** 11/15/2024 **Time :** 13:50 **Temp :** 126 °C

II batch 11/15/2024 14:15 123 °C

11/15/2024 15:45 126 °C

**Digestion tube ID :** M5595

**Filter paper ID :** N/A

**pH Meter ID :** N/A

**Block Thermometer ID :** WC CYANIDE

**Prep Technician Signature:** JP

**Supervisor Signature:** 12

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LCSS | 1.0ML | WP109549 |
| MS/MSD SPIKE SOL. | 0.40ML | WP110035 |
| PBS003 | 50ML | W3112 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| 0.25N NaOH | 50.0ML | WP108640 |
| 50% v/v H2SO4 | 5.0ML | WP110391 |
| 51% w/v MgCL2 | 2.0ML | WP110390 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| 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 |
|---|---|---|---|
| S0 | S0 | N/A | N/A |
| S5.0 | S5.0 | N/A | N/A |
| S10.0 | S10.0 | N/A | N/A |
| S100.0 | S100.0 | N/A | N/A |
| S250.0 | S250.0 | N/A | N/A |
| S500.0 | S500.0 | N/A | N/A |
| ICV | ICV | 0.5ML | W3011 |
| ICB | ICB | N/A | N/A |
| CCV | CCV | N/A | N/A |
| CCB | CCB | N/A | N/A |
| Midrange | Midrange | N/A | N/A |
| HIGHSTD | HIGHSTD | 5.0ML | WP110035 |
| LOWSTD | LOWSTD | 0.1ML | WP110035 |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11.15.2024, 16:00 | JP / WC | NF(WC) |
| | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

## Soil/Sludge Cyanide Preparation Sheet

**PB165016**

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|
| P4822-02 | SOIL-1 | 1.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4822-02DUP | SOIL-1DUP | 1.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4822-02MS | SOIL-1MS | 1.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4822-02MSD | SOIL-1MSD | 1.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4822-04 | SOIL-2 | 1.05 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4822-06 | SOIL-3 | 1.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4822-08 | SOIL-4 | 1.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4822-10 | SOIL-5 | 1.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4822-12 | SOIL-6 | 1.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4860-01 | DUP-01 | 1.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4860-02 | PH2-BPT-001 | 1.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4860-03 | PH2-BPT-002 | 1.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4860-04 | PH2-BPT-003 | 1.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4860-05 | PH2-BPT-004 | 1.05 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4860-06 | PH2-BPT-009 | 1.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4860-07 | PH2-BPT-008 | 1.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4860-08 | PH2-BPT-007 | 1.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4860-09 | PH2-BPT-006 | 1.05 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| P4860-10 | PH2-BPT-005 | 1.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| PB165016BL | PBS016 | 1.00 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| PB165016BS | LCS016 | 1.00 | 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 JRM

**Digestion tube ID :** M6054

**Filter paper ID :** 400213

**pH Meter ID :** WC pH meter-1

**Block Thermometer ID :** WC-Block#1

**Prep Technician Signature:** RM

**Supervisor Signature:** 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 |

# 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. P4860
QUOTE NO.
COC Number 2042292

12
12.1

### CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Cornerstone Env. Group
ADDRESS: 100 Crystal Run Rd Suite 101
CITY Middletown STATE: NY ZIP: 10941
ATTENTION:
PHONE: 845-695-0200 FAX:

### CLIENT PROJECT INFORMATION

PROJECT NAME: OCLF Ph 2 Post-Excavation Sample
PROJECT NO.: 209-424325 LOCATION: Manchester NJ
PROJECT MANAGER: John Guiliano
e-mail: John.Guiliano@tetratech.com
PHONE: 845-695-0200 FAX:

### CLIENT BILLING INFORMATION

BILL TO: Cornerstone Env. Group PO#:
ADDRESS: 100 Crystal Run Rd Suite 101
CITY Middletown STATE: NY ZIP: 10941
ATTENTION: PHONE:

### DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

### DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☒ EDD FORMAT _____

### ANALYSIS

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| TCL T+30 TAL 8260B & 8270E | 8081B | 8082A | 6010D/7471B | 9012B | NJEPH | 7196A | 9045D | 8260D | Chemtech - SOP |

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | DUP - 01 | Soil | X | | 11-14-24 | 12:00 | 10 | X | X | X | X | X | X | X | X | X | |
| 2. | PH2 - BOT - 001 | | | | | 8:20 | | X | X | X | X | X | X | X | X | X | |
| 3. | PH2 - BOT - 002 | | | | | 8:45 | | X | X | X | X | X | X | X | X | X | |
| 4. | PH2 - BOT - 003 | | | | | 9:05 | | X | X | X | X | X | X | X | X | X | |
| 5. | PH2 - BOT - 004 | | | | | 9:25 | | X | X | X | X | X | X | X | X | X | |
| 6. | PH2 - BOT - 009 | | | | | 9:45 | | X | X | X | X | X | X | X | X | X | |
| 7. | PH2 - BOT - 008 | | | | | 10:00 | | X | X | X | X | X | X | X | X | X | |
| 8. | PH2 - BOT - 007 | | | | | 10:15 | | X | X | X | X | X | X | X | X | X | |
| 9. | PH2 - BOT - 006 | | | | | 10:30 | | X | X | X | X | X | X | X | X | X | |
| 10. | PH2 - BOT - 005 | | | | | 10:45 | | X | X | X | X | X | X | X | X | X | |

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. | 11-14-24 11:15 | 1. 1115 11-14-24 |
| 2. | DATE/TIME: | 2. |
| 3. | DATE/TIME: 1830 11-14-24 | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0 °C
Comments:

Page 1 of 1

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

# 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 :** P4860 CORN02
**Client Name :** Tetra Tech
**Client Contact :** John Giuliano
**Invoice Name :** Tetra Tech
**Invoice Contact :** John Giuliano

**Order Date :** 11/14/2024 1:36:41 PM
**Project Name :** Ocean County Landfill 202
**Receive DateTime :** 11/14/2024 6:30:00 PM
**Purchase Order :**

**Project Mgr :**
**Report Type :** NJ Reduced
**EDD Type :** Excel NJ
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| P4860-01 | DUP-01 | Solid | 11/14/2024 | 12:00 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |
| P4860-02 | BOT PH2-BPT-001 | Solid | 11/14/2024 | 08:20 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |
| P4860-03 | BOT PH2-BPT-002 | Solid | 11/14/2024 | 08:45 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |
| P4860-04 | BOT PH2-BPT-003 | Solid | 11/14/2024 | 09:05 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |
| P4860-05 | BOT PH2-BPT-004 | Solid | 11/14/2024 | 09:25 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |
| P4860-06 | BOT PH2-BPT-009 | Solid | 11/14/2024 | 09:45 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |
| P4860-07 | BOT PH2-BPT-008 | Solid | 11/14/2024 | 10:00 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |
| P4860-08 | BOT PH2-BPT-007 | Solid | 11/14/2024 | 10:15 | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | | 10 Bus. Days |

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



# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** P4860 CORN02
**Client Name :** Tetra Tech
**Client Contact :** John Giuliano
**Invoice Name :** Tetra Tech
**Invoice Contact :** John Giuliano

**Order Date :** 11/14/2024 1:36:41 PM
**Project Name :** Ocean County Landfill 202
**Receive DateTime :** 11/14/2024 6:30:00 PM
**Purchase Order :**

**Project Mgr :**
**Report Type :** NJ Reduced
**EDD Type :** Excel NJ
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | 10 Bus. Days | |
| P4860-09 | BOT PH2-BPT-006 | Solid | 11/14/2024 | 10:30 | | | | | |
| | | | | | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | 10 Bus. Days | |
| P4860-10 | BOT PH2-BPT-005 | Solid | 11/14/2024 | 10:45 | | | | | |
| | | | | | VOC-TCLVOA-10 | TCL+30/TAL | 8260D | 10 Bus. Days | |

**Relinguished By :** _____
**Date / Time :** 11/15/24 1130

**Received By :** _____
**Date / Time :** 11.15.24 1:30

**Storage Area :** VOA Refridgerator Room