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

Laboratory Name : Alliance Technical Group LLC  Client : HDR, Inc.

Project Location : Passaic,NJ  Project Number : 10367568

Laboratory Sample ID(s) : Q3662  Sampling Date(s) : 11/17/2025

List DKQP Methods Used (e.g., 8260,8270, et Cetra) **1030,1311,6010D,7196A,7470A,7471B,8081B,8082A,8260D,8270E,9012B,9034,9045D,9095B,NJEPH,SMO,SOP**

| | | |
|---|---|---|
| 1 | For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards? | ☑ Yes ☐ No |
| 1A | Were the method specified handling, preservation, and holding time requirements met? | ☑ Yes ☐ No |
| 1B | EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods) | ☑ Yes ☐ No ☐ N/A |
| 2 | Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)? | ☑ Yes ☐ No |
| 3 | Were samples received at an appropriate temperature (4±2° C)? | ☑ Yes ☐ No ☐ N/A |
| 4 | Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved? | ☐ Yes ☑ No |
| 5 | a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?<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 :** Q3662

**Project ID :** PVWC Linear Construction

**Client :** HDR, Inc.

| Lab Sample Number | Client Sample Number |
|---|---|
| Q3662-01 | B3-0.5-1.0-20251117 |
| Q3662-02 | B3-0.0-1.0-20251117 |
| Q3662-03 | B1-0.5-1.0-20251117 |
| Q3662-04 | B1-0.0-1.0-20251117 |
| Q3662-05 | B1-0.0-1.0-20251117 |

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: 11/26/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**HDR, Inc.**
**Project Name: PVWC Linear Construction**
**Project # N/A**
**Order ID # Q3662**
**Test Name: VOC-TCLVOA-10,SVOC-TCL BNA -20,EPH_NF,PCB,Pesticide-TCL,Mercury,Metals ICP-TAL,TCLP ICP Metals,TCLP Mercury,Corrosivity,Cyanide,Hexavalent Chromium,Ignitability,Paint Filter,Reactive Cyanide,Reactive Sulfide**

**A. Number of Samples and Date of Receipt:**
5 Solid samples were received on 11/18/2025.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10,SVOC-TCL BNA -20,EPH_NF,PCB,Pesticide-TCL,Mercury,Metals ICP-TAL,TCLP ICP Metals,TCLP Mercury,Corrosivity,Cyanide,Hexavalent Chromium,Ignitability,Paint Filter,Reactive Cyanide,Reactive Sulfide. This data package contains results for VOC-TCLVOA-10(8260D),SVOC-TCL BNA -20(8270E),EPH_NF(NJEPH),PCB(8082A),Pesticide-TCL(8081B),Mercury(7471B),Metals ICP-TAL(6010D),TCLP ICP Metals(6010D),TCLP Mercury(7470A),Corrosivity(9045D),Cyanide(9012B),Hexavalent Chromium(7196A),Ignitability(1030),Paint Filter(9095B),Reactive Cyanide(9012B),Reactive Sulfide(9034).

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

SVOC-TCL BNA -20 : The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df. The samples were analyzed on instrument BNA_G using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

EPH_NF : The analysis were performed on instrument FID_E. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis of EPH_NFs was based on method NJEPH and extraction was done based on method 3541.

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

Pesticide-TCL : The analysis was performed on instrument ECD_D. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11.The analysis of Pesticide-TCLs was based on method 8081B and extraction was done based on method 3541.

Mercury,Metals ICP-TAL : 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.

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

Wetchem : The analysis of Ignitability was based on method 1030, The analysis of Hexavalent Chromium was based on method 7196A, The analysis of Cyanide,Reactive Cyanide was based on method 9012B, The analysis of Reactive Sulfide was based on method 9034, The analysis of Corrosivity was based on method 9045D and The analysis of Paint Filter was based on method 9095B.

**D. QA/ QC Samples:**

The Holding Times were met for all analysis except following Wetchem : B1-0.0-1.0-20251117 of Corrosivity as sample was Receive out of holding time.

The Surrogate recoveries were met for all analysis except following
SVOC-TCL BNA -20 : B1-0.0-1.0-20251117 [Terphenyl-d14 - 27%]. This compound did not meet the NJDKQP criteria but met the in-house criteria.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds except following
SVOC-TCL BNA -20 : The MS {Q3662-02MS} with File ID: BF144303.D recoveries met the requirements for all compounds except for 3,3-Dichlorobenzidine[65%], 3-Nitroaniline[65%], 4,6-Dinitro-2-methylphenol[11%] and 4-Chloroaniline[23%].This

compound did not meet the NJDKQP criteria but met the in-house criteria and 2,4-Dinitrophenol[7%] failed This compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

EPH_NF : The MS {Q3669-01MS} with File ID: FE056946.D recoveries met the requirements for all compounds except for Aliphatic [n-Nonane (C9)- 36%] due to matrix interference.

Mercury,Metals ICP-TAL : The Matrix Spike (EO-01-11182025MS) analysis met criteria for all compounds except for Antimony, Beryllium, Lead, Silver, Sodium and Vanadium due to Chemical Interference during Digestion Process.

TCLP ICP Metals,TCLP Mercury : The Matrix Spike (TP-1MS) analysis met criteria for all compounds except for Barium due to Chemical Interference during Digestion Process.

The MSD recoveries met the requirements for all compounds except following
SVOC-TCL BNA -20 : The MSD {Q3662-02MSD} with File ID: BF144304.D recoveries met the requirements for all compounds except for4,6-Dinitro-2-methylphenol[11%] and 4-Chloroaniline[25%]. This compound did not meet the NJDKQP criteria but met the in-house criteria and 2,4-Dinitrophenol[0%] failed This compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

EPH_NF : The MSD {Q3669-01MSD} with File ID: FE056947.D recoveries met the requirements for all compounds except for Aliphatic [n-Nonane (C9)- 36%] due to matrix interference.

Mercury,Metals ICP-TAL : The Matrix Spike Duplicate (EO-01-11182025MSD) analysis met criteria for all compounds except for Antimony, Lead, Silver, Sodium and Zinc due to Chemical Interference during Digestion Process.

TCLP ICP Metals,TCLP Mercury : The Matrix Spike Duplicate (TP-1MSD) analysis met criteria for all compounds except for Barium due to Chemical Interference during Digestion Process.

The RPD were met for all analysis except following
SVOC-TCL BNA -20 : The RPD for {Q3662-02MSD} with File ID: BF144304.D met criteria except for 2,4-Dinitrophenol[200%], RPD failed due to result difference between MS and MSD , Therefore no further corrective action was taken.

Pesticide-TCL : The RPD for {Q3662-02MSD} with File ID: PD091280.D met criteria except for [4,4-DDT(1)-32%], [Endrin aldehyde(1)-43%,Endrin aldehyde(2)-44%], [Endrin ketone(1)-34%] these compounds did not meet the NJDKQP criteria and in-house criteria due to difference in results of MS-MSD.

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The Blank Spike met requirements for all compounds except following
SVOC-TCL BNA -20 : The Blank Spike for {PB170631BS} with File ID: BF144292.D met requirements for all compounds except for 3-Nitroaniline[65%], 4-Chloroaniline[52%]. This compound did not meet the NJDKQP criteria but met the in-house criteria.

The Blank Spike Duplicate met requirements for all compounds
The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements except following
SVOC-TCL BNA -20 : The %RSD is greater than 20% in the Method 8270-BF110525.M for Hexachlorocyclopentadiene is passing on Quadratic regression.

The Continuous Calibration met the requirements except following
SVOC-TCL BNA -20 : The Continuous Calibration File ID BF144290.D met the requirements except for 2,4-Dinitrophenol. Associated samples does not have hit for this comound, Therefor no further corrective action was taken.

The Tuning criteria met requirements.

The Duplicate analysis met criteria for all compoundsexcept following
Mercury,Metals ICP-TAL : The Duplicate (EO-01-11182025MSD) analysis met criteria for all compounds except for Lead due to Chemical Interference during Digestion Process.

The Duplicate analysis met criteria for all compoundsexcept following
Wetchem : The Duplicate (B1-0.0-1.0-20251117DUP) analysis met criteria for all compounds except for Reactive Cyanide due to the Results are Below Reporting Limit.

The Serial Dilution met criteria for all compounds except following
Mercury,Metals ICP-TAL : The Serial Dilution (EO-01-11182025L) met criteria for all compounds except for Aluminum, Calcium, Iron and Manganese due to Sample matrix interference.

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

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

Mercury,Metals ICP-TAL : The Post Digest Spike (EO-01-11182025A) analysis met criteria for all compounds except for Antimony, Beryllium, Lead, Silver, Sodium, Vanadium and Zinc due to unknown chemical interference of matrix with the addition of

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spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

Pesticide-TCL : The Sample #B3-0.0-1.0-20251117 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

VOC-TCLVOA-10 : 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.

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

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

Signature_____

Alliance TECHNICAL GROUP

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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 #:** **Q3662**

| | 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:** **MOHAMMAD AHMED** **Date:** **11/26/2025**

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3662

**Client:** HDR, Inc.

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|

**Client ID:**

0

**Total Voc :**

**Total Concentration:**

# SAMPLE DATA

Raw Data: **VW032485.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.5-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-01 | Matrix: | SOIL |
| Analytical Method: | 8260D Level: LOW | % Solid: | 91.2 |
| Sample Wt/Vol: | 6.4 g Final Vol: 5000 uL | Test: | VOC-TCLVOA-10 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.98 | U | 1 | 0.98 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 74-87-3 | Chloromethane | 0.98 | U | 1 | 0.98 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 75-01-4 | Vinyl Chloride | 0.68 | U | 1 | 0.68 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 74-83-9 | Bromomethane | 0.92 | U | 1 | 0.92 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 75-00-3 | Chloroethane | 1.10 | U | 1 | 1.10 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 75-69-4 | Trichlorofluoromethane | 1.00 | U | 1 | 1.00 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.91 | U | 1 | 0.91 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 75-35-4 | 1,1-Dichloroethene | 0.86 | U | 1 | 0.86 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 67-64-1 | Acetone | 4.10 | U | 1 | 4.10 | 21.4 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 75-15-0 | Carbon Disulfide | 0.91 | U | 1 | 0.91 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 1634-04-4 | Methyl tert-butyl Ether | 0.63 | U | 1 | 0.63 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 79-20-9 | Methyl Acetate | 1.30 | U | 1 | 1.30 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 75-09-2 | Methylene Chloride | 3.00 | U | 1 | 3.00 | 8.60 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.74 | U | 1 | 0.74 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 75-34-3 | 1,1-Dichloroethane | 0.69 | U | 1 | 0.69 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 110-82-7 | Cyclohexane | 0.68 | U | 1 | 0.68 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 78-93-3 | 2-Butanone | 5.60 | U | 1 | 5.60 | 21.4 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 56-23-5 | Carbon Tetrachloride | 0.83 | U | 1 | 0.83 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.64 | U | 1 | 0.64 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 74-97-5 | Bromochloromethane | 0.99 | U | 1 | 0.99 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 67-66-3 | Chloroform | 0.72 | U | 1 | 0.72 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.80 | U | 1 | 0.80 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 108-87-2 | Methylcyclohexane | 0.78 | U | 1 | 0.78 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 71-43-2 | Benzene | 0.68 | U | 1 | 0.68 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 107-06-2 | 1,2-Dichloroethane | 0.68 | U | 1 | 0.68 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 79-01-6 | Trichloroethene | 0.69 | U | 1 | 0.69 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 78-87-5 | 1,2-Dichloropropane | 0.78 | U | 1 | 0.78 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 75-27-4 | Bromodichloromethane | 0.67 | U | 1 | 0.67 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.10 | U | 1 | 3.10 | 21.4 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 108-88-3 | Toluene | 0.67 | U | 1 | 0.67 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 10061-02-6 | t-1,3-Dichloropropene | 0.56 | U | 1 | 0.56 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.53 | U | 1 | 0.53 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.79 | U | 1 | 0.79 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 591-78-6 | 2-Hexanone | 3.20 | U | 1 | 3.20 | 21.4 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 124-48-1 | Dibromochloromethane | 0.75 | U | 1 | 0.75 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 106-93-4 | 1,2-Dibromoethane | 0.75 | U | 1 | 0.75 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 127-18-4 | Tetrachloroethene | 0.90 | U | 1 | 0.90 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 108-90-7 | Chlorobenzene | 0.78 | U | 1 | 0.78 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 100-41-4 | Ethyl Benzene | 0.57 | U | 1 | 0.57 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 179601-23-1 | m/p-Xylenes | 1.10 | U | 1 | 1.10 | 8.60 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 95-47-6 | o-Xylene | 0.70 | U | 1 | 0.70 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 100-42-5 | Styrene | 0.61 | U | 1 | 0.61 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 75-25-2 | Bromoform | 0.74 | U | 1 | 0.74 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |

Raw Data: **VW032485.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.5-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-01 | Matrix: | SOIL |
| Analytical Method: | 8260D Level: LOW | % Solid: | 91.2 |
| Sample Wt/Vol: | 6.4 g Final Vol: 5000 uL | Test: | VOC-TCLVOA-10 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| 98-82-8 | Isopropylbenzene | 0.67 | U | 1 | 0.67 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.00 | U | 1 | 1.00 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.50 | U | 1 | 1.50 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.30 | U | 1 | 1.30 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.20 | U | 1 | 1.20 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.60 | U | 1 | 1.60 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.50 | U | 1 | 2.50 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2.70 | U | 1 | 2.70 | 4.30 | ug/Kg | 11/18/25 16:36 | VW111825 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.3 | | | 70 (63) - 130 (155) | 111% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 47.5 | | | 70 (70) - 130 (134) | 95% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 43.5 | | | 70 (74) - 130 (123) | 87% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 52.1 | | | 70 (52) - 130 (138) | 104% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 225000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 534000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 545000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 237000 | | | | | | | |

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

Raw Data: **VW032486.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B1-0.5-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-03 | Matrix: | SOIL |
| Analytical Method: | 8260D Level: LOW | % Solid: | 92.6 |
| Sample Wt/Vol: | 6.12 g Final Vol: 5000 uL | Test: | VOC-TCLVOA-10 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.00 | U | 1 | 1.00 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 74-87-3 | Chloromethane | 1.00 | U | 1 | 1.00 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 75-01-4 | Vinyl Chloride | 0.70 | U | 1 | 0.70 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 74-83-9 | Bromomethane | 0.94 | U | 1 | 0.94 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 75-00-3 | Chloroethane | 1.10 | U | 1 | 1.10 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 75-69-4 | Trichlorofluoromethane | 1.10 | U | 1 | 1.10 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.94 | U | 1 | 0.94 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 75-35-4 | 1,1-Dichloroethene | 0.88 | U | 1 | 0.88 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 67-64-1 | Acetone | 4.20 | U | 1 | 4.20 | 22.1 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 75-15-0 | Carbon Disulfide | 0.94 | U | 1 | 0.94 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 1634-04-4 | Methyl tert-butyl Ether | 0.64 | U | 1 | 0.64 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 79-20-9 | Methyl Acetate | 1.40 | U | 1 | 1.40 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 75-09-2 | Methylene Chloride | 3.10 | U | 1 | 3.10 | 8.80 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.76 | U | 1 | 0.76 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 75-34-3 | 1,1-Dichloroethane | 0.71 | U | 1 | 0.71 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 110-82-7 | Cyclohexane | 0.70 | U | 1 | 0.70 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 78-93-3 | 2-Butanone | 5.80 | U | 1 | 5.80 | 22.1 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 56-23-5 | Carbon Tetrachloride | 0.86 | U | 1 | 0.86 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.66 | U | 1 | 0.66 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 74-97-5 | Bromochloromethane | 1.00 | U | 1 | 1.00 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 67-66-3 | Chloroform | 0.74 | U | 1 | 0.74 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.82 | U | 1 | 0.82 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 108-87-2 | Methylcyclohexane | 0.80 | U | 1 | 0.80 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 71-43-2 | Benzene | 0.70 | U | 1 | 0.70 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 107-06-2 | 1,2-Dichloroethane | 0.70 | U | 1 | 0.70 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 79-01-6 | Trichloroethene | 0.71 | U | 1 | 0.71 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 78-87-5 | 1,2-Dichloropropane | 0.80 | U | 1 | 0.80 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 75-27-4 | Bromodichloromethane | 0.69 | U | 1 | 0.69 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.20 | U | 1 | 3.20 | 22.1 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 108-88-3 | Toluene | 0.69 | U | 1 | 0.69 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 10061-02-6 | t-1,3-Dichloropropene | 0.57 | U | 1 | 0.57 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.55 | U | 1 | 0.55 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.81 | U | 1 | 0.81 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 591-78-6 | 2-Hexanone | 3.30 | U | 1 | 3.30 | 22.1 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 124-48-1 | Dibromochloromethane | 0.77 | U | 1 | 0.77 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 106-93-4 | 1,2-Dibromoethane | 0.78 | U | 1 | 0.78 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 127-18-4 | Tetrachloroethene | 0.93 | U | 1 | 0.93 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 108-90-7 | Chlorobenzene | 0.80 | U | 1 | 0.80 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 100-41-4 | Ethyl Benzene | 0.59 | U | 1 | 0.59 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 179601-23-1 | m/p-Xylenes | 1.10 | U | 1 | 1.10 | 8.80 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 95-47-6 | o-Xylene | 0.72 | U | 1 | 0.72 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 100-42-5 | Styrene | 0.63 | U | 1 | 0.63 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 75-25-2 | Bromoform | 0.76 | U | 1 | 0.76 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B1-0.5-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-03 | Matrix: | SOIL |
| Analytical Method: | 8260D Level: LOW | % Solid: | 92.6 |
| Sample Wt/Vol: | 6.12 g Final Vol: 5000 uL | Test: | VOC-TCLVOA-10 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| 98-82-8 | Isopropylbenzene | 0.69 | U | 1 | 0.69 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.10 | U | 1 | 1.10 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.50 | U | 1 | 1.50 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.40 | U | 1 | 1.40 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.30 | U | 1 | 1.30 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.60 | U | 1 | 1.60 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.60 | U | 1 | 2.60 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2.80 | U | 1 | 2.80 | 4.40 | ug/Kg | 11/18/25 16:58 | VW111825 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 57.3 | | | 70 (63) - 130 (155) | 115% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 47.7 | | | 70 (70) - 130 (134) | 95% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 44.4 | | | 70 (74) - 130 (123) | 89% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 56.1 | | | 70 (52) - 130 (138) | 112% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 221000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 524000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 583000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 283000 | | | | | | | |

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

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

# QC SUMMARY

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

**SDG No.:** Q3662

**Client:** HDR, Inc.

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| Q3662-01 | B3-0.5-1.0-20251117 | 1,2-Dichloroethane-d4 | 50 | 55.3 | 111 | | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 47.5 | 95 | | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 43.5 | 87 | | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 52.1 | 104 | | 70 (52) | 130 (138) |
| Q3662-03 | B1-0.5-1.0-20251117 | 1,2-Dichloroethane-d4 | 50 | 57.3 | 115 | | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 47.8 | 95 | | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 44.4 | 89 | | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 56.1 | 112 | | 70 (52) | 130 (138) |
| VW1118SBL01 | VW1118SBL01 | 1,2-Dichloroethane-d4 | 50 | 64.7 | 129 | | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 52.3 | 105 | | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 47.4 | 95 | | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 52.0 | 104 | | 70 (52) | 130 (138) |
| VW1118SBS01 | VW1118SBS01 | 1,2-Dichloroethane-d4 | 50 | 53.7 | 107 | | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 52.0 | 104 | | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 52.0 | 104 | | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 51.7 | 103 | | 70 (52) | 130 (138) |
| VW1118SBSD0 | VW1118SBSD01 | 1,2-Dichloroethane-d4 | 50 | 52.1 | 104 | | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 50.5 | 101 | | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 51.2 | 102 | | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 49.7 | 99 | | 70 (52) | 130 (138) |

( ) = LABORATORY INHOUSE LIMIT

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

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3662 **Analytical Method:** SW8260D

**Client:** HDR, Inc. **Datafile :** VW032470.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VW1118SBS01 | Dichlorodifluoromethane | 20 | 20.6 | ug/Kg | 103 | | | 40 (64) | 160 (136) | |
| | Chloromethane | 20 | 22.4 | ug/Kg | 112 | | | 40 (73) | 160 (129) | |
| | Vinyl chloride | 20 | 22.2 | ug/Kg | 111 | | | 70 (73) | 130 (133) | |
| | Bromomethane | 20 | 21.5 | ug/Kg | 108 | | | 40 (77) | 160 (137) | |
| | Chloroethane | 20 | 21.2 | ug/Kg | 106 | | | 40 (69) | 160 (130) | |
| | Trichlorofluoromethane | 20 | 18.4 | ug/Kg | 92 | | | 40 (69) | 160 (134) | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.8 | ug/Kg | 109 | | | 70 (81) | 130 (123) | |
| | 1,1-Dichloroethene | 20 | 21.9 | ug/Kg | 110 | | | 70 (79) | 130 (121) | |
| | Acetone | 100 | 110 | ug/Kg | 110 | | | 40 (60) | 160 (174) | |
| | Carbon disulfide | 20 | 21.0 | ug/Kg | 105 | | | 40 (73) | 160 (125) | |
| | Methyl tert-butyl Ether | 20 | 20.8 | ug/Kg | 104 | | | 70 (77) | 130 (129) | |
| | Methyl Acetate | 20 | 20.2 | ug/Kg | 101 | | | 70 (51) | 130 (140) | |
| | Methylene Chloride | 20 | 24.2 | ug/Kg | 121 | | | 70 (54) | 130 (158) | |
| | trans-1,2-Dichloroethene | 20 | 21.8 | ug/Kg | 109 | | | 70 (80) | 130 (123) | |
| | 1,1-Dichloroethane | 20 | 22.2 | ug/Kg | 111 | | | 70 (82) | 130 (123) | |
| | Cyclohexane | 20 | 21.9 | ug/Kg | 110 | | | 70 (76) | 130 (122) | |
| | 2-Butanone | 100 | 100 | ug/Kg | 100 | | | 40 (69) | 160 (131) | |
| | Carbon Tetrachloride | 20 | 21.6 | ug/Kg | 108 | | | 70 (76) | 130 (129) | |
| | cis-1,2-Dichloroethene | 20 | 21.1 | ug/Kg | 106 | | | 70 (82) | 130 (123) | |
| | Bromochloromethane | 20 | 22.7 | ug/Kg | 114 | | | 70 (80) | 130 (127) | |
| | Chloroform | 20 | 22.5 | ug/Kg | 113 | | | 70 (82) | 130 (125) | |
| | 1,1,1-Trichloroethane | 20 | 21.7 | ug/Kg | 109 | | | 70 (80) | 130 (126) | |
| | Methylcyclohexane | 20 | 20.6 | ug/Kg | 103 | | | 70 (77) | 130 (123) | |
| | Benzene | 20 | 21.9 | ug/Kg | 110 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichloroethane | 20 | 22.2 | ug/Kg | 111 | | | 70 (81) | 130 (126) | |
| | Trichloroethene | 20 | 21.3 | ug/Kg | 106 | | | 70 (83) | 130 (122) | |
| | 1,2-Dichloropropane | 20 | 22.1 | ug/Kg | 111 | | | 70 (83) | 130 (122) | |
| | Bromodichloromethane | 20 | 21.8 | ug/Kg | 109 | | | 70 (82) | 130 (123) | |
| | 4-Methyl-2-Pentanone | 100 | 110 | ug/Kg | 110 | | | 40 (70) | 160 (135) | |
| | Toluene | 20 | 21.6 | ug/Kg | 108 | | | 70 (83) | 130 (122) | |
| | t-1,3-Dichloropropene | 20 | 20.5 | ug/Kg | 103 | | | 70 (78) | 130 (124) | |
| | cis-1,3-Dichloropropene | 20 | 20.8 | ug/Kg | 104 | | | 70 (81) | 130 (122) | |
| | 1,1,2-Trichloroethane | 20 | 21.3 | ug/Kg | 106 | | | 70 (82) | 130 (125) | |
| | 2-Hexanone | 100 | 100 | ug/Kg | 100 | | | 40 (66) | 160 (138) | |
| | Dibromochloromethane | 20 | 20.9 | ug/Kg | 104 | | | 70 (79) | 130 (125) | |
| | 1,2-Dibromoethane | 20 | 21.4 | ug/Kg | 107 | | | 70 (80) | 130 (125) | |
| | Tetrachloroethene | 20 | 21.7 | ug/Kg | 109 | | | 70 (83) | 130 (125) | |
| | Chlorobenzene | 20 | 21.6 | ug/Kg | 108 | | | 70 (84) | 130 (122) | |
| | Ethyl Benzene | 20 | 21.2 | ug/Kg | 106 | | | 70 (82) | 130 (124) | |
| | m/p-Xylenes | 40 | 43.5 | ug/Kg | 109 | | | 70 (83) | 130 (124) | |
| | o-Xylene | 20 | 21.4 | ug/Kg | 107 | | | 70 (83) | 130 (123) | |
| | Styrene | 20 | 21.6 | ug/Kg | 108 | | | 70 (82) | 130 (124) | |
| | Bromoform | 20 | 20.1 | ug/Kg | 101 | | | 70 (75) | 130 (127) | |
| | Isopropylbenzene | 20 | 20.1 | ug/Kg | 101 | | | 70 (82) | 130 (124) | |
| | 1,1,2,2-Tetrachloroethane | 20 | 21.1 | ug/Kg | 106 | | | 70 (77) | 130 (127) | |
| | 1,3-Dichlorobenzene | 20 | 21.2 | ug/Kg | 106 | | | 70 (83) | 130 (122) | |
| | 1,4-Dichlorobenzene | 20 | 20.7 | ug/Kg | 104 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichlorobenzene | 20 | 21.1 | ug/Kg | 106 | | | 70 (83) | 130 (124) | |

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3662 **Analytical Method:** SW8260D

**Client:** HDR, Inc. **Datafile :** VW032470.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VW1118SBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 19.2 | ug/Kg | 96 | | | 40 (66) | 160 (134) | |
| | 1,2,4-Trichlorobenzene | 20 | 20.1 | ug/Kg | 101 | | | 70 (78) | 130 (127) | |
| | 1,2,3-Trichlorobenzene | 20 | 20.0 | ug/Kg | 100 | | | 70 (70) | 130 (137) | |

( ) = LABORATORY INHOUSE LIMIT

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3662 **Analytical Method:** SW8260D

**Client:** HDR, Inc. **Datafile :** VW032471.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VW1118SBSD01 | Dichlorodifluoromethane | 20 | 21.9 | ug/Kg | 110 | 7 | | 40 (64) | 160 (136) | 30 (20) |
| | Chloromethane | 20 | 22.0 | ug/Kg | 110 | 2 | | 40 (73) | 160 (129) | 30 (15) |
| | Vinyl chloride | 20 | 22.5 | ug/Kg | 113 | 2 | | 70 (73) | 130 (133) | 30 (15) |
| | Bromomethane | 20 | 22.2 | ug/Kg | 111 | 3 | | 40 (77) | 160 (137) | 30 (15) |
| | Chloroethane | 20 | 21.7 | ug/Kg | 109 | 3 | | 40 (69) | 160 (130) | 30 (15) |
| | Trichlorofluoromethane | 20 | 22.1 | ug/Kg | 111 | 19 | | 40 (69) | 160 (134) | 30 (27) |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 22.7 | ug/Kg | 114 | 4 | | 70 (81) | 130 (123) | 30 (20) |
| | 1,1-Dichloroethene | 20 | 22.3 | ug/Kg | 112 | 2 | | 70 (79) | 130 (121) | 30 (16) |
| | Acetone | 100 | 100 | ug/Kg | 100 | 10 | | 40 (60) | 160 (174) | 30 (28) |
| | Carbon disulfide | 20 | 21.5 | ug/Kg | 108 | 3 | | 40 (73) | 160 (125) | 30 (15) |
| | Methyl tert-butyl Ether | 20 | 20.7 | ug/Kg | 104 | 0 | | 70 (77) | 130 (129) | 30 (20) |
| | Methyl Acetate | 20 | 20.0 | ug/Kg | 100 | 1 | | 70 (51) | 130 (140) | 30 (30) |
| | Methylene Chloride | 20 | 23.6 | ug/Kg | 118 | 3 | | 70 (54) | 130 (158) | 30 (20) |
| | trans-1,2-Dichloroethene | 20 | 22.1 | ug/Kg | 111 | 2 | | 70 (80) | 130 (123) | 30 (15) |
| | 1,1-Dichloroethane | 20 | 22.6 | ug/Kg | 113 | 2 | | 70 (82) | 130 (123) | 30 (15) |
| | Cyclohexane | 20 | 22.0 | ug/Kg | 110 | 0 | | 70 (76) | 130 (122) | 30 (15) |
| | 2-Butanone | 100 | 100 | ug/Kg | 100 | 0 | | 40 (69) | 160 (131) | 30 (29) |
| | Carbon Tetrachloride | 20 | 22.5 | ug/Kg | 113 | 5 | | 70 (76) | 130 (129) | 30 (15) |
| | cis-1,2-Dichloroethene | 20 | 21.6 | ug/Kg | 108 | 2 | | 70 (82) | 130 (123) | 30 (15) |
| | Bromochloromethane | 20 | 22.8 | ug/Kg | 114 | 0 | | 70 (80) | 130 (127) | 30 (15) |
| | Chloroform | 20 | 22.7 | ug/Kg | 114 | 1 | | 70 (82) | 130 (125) | 30 (15) |
| | 1,1,1-Trichloroethane | 20 | 22.3 | ug/Kg | 112 | 3 | | 70 (80) | 130 (126) | 30 (15) |
| | Methylcyclohexane | 20 | 20.8 | ug/Kg | 104 | 1 | | 70 (77) | 130 (123) | 30 (15) |
| | Benzene | 20 | 21.8 | ug/Kg | 109 | 1 | | 70 (84) | 130 (121) | 30 (15) |
| | 1,2-Dichloroethane | 20 | 21.8 | ug/Kg | 109 | 2 | | 70 (81) | 130 (126) | 30 (15) |
| | Trichloroethene | 20 | 21.3 | ug/Kg | 106 | 0 | | 70 (83) | 130 (122) | 30 (15) |
| | 1,2-Dichloropropane | 20 | 21.8 | ug/Kg | 109 | 2 | | 70 (83) | 130 (122) | 30 (15) |
| | Bromodichloromethane | 20 | 21.4 | ug/Kg | 107 | 2 | | 70 (82) | 130 (123) | 30 (15) |
| | 4-Methyl-2-Pentanone | 100 | 110 | ug/Kg | 110 | 0 | | 40 (70) | 160 (135) | 30 (26) |
| | Toluene | 20 | 21.9 | ug/Kg | 110 | 2 | | 70 (83) | 130 (122) | 30 (15) |
| | t-1,3-Dichloropropene | 20 | 20.4 | ug/Kg | 102 | 1 | | 70 (78) | 130 (124) | 30 (15) |
| | cis-1,3-Dichloropropene | 20 | 20.8 | ug/Kg | 104 | 0 | | 70 (81) | 130 (122) | 30 (15) |
| | 1,1,2-Trichloroethane | 20 | 21.2 | ug/Kg | 106 | 0 | | 70 (82) | 130 (125) | 30 (15) |
| | 2-Hexanone | 100 | 100 | ug/Kg | 100 | 0 | | 40 (66) | 160 (138) | 30 (27) |
| | Dibromochloromethane | 20 | 20.7 | ug/Kg | 104 | 0 | | 70 (79) | 130 (125) | 30 (15) |
| | 1,2-Dibromoethane | 20 | 20.9 | ug/Kg | 104 | 3 | | 70 (80) | 130 (125) | 30 (16) |
| | Tetrachloroethene | 20 | 21.2 | ug/Kg | 106 | 3 | | 70 (83) | 130 (125) | 30 (15) |
| | Chlorobenzene | 20 | 21.5 | ug/Kg | 108 | 0 | | 70 (84) | 130 (122) | 30 (15) |
| | Ethyl Benzene | 20 | 21.9 | ug/Kg | 110 | 4 | | 70 (82) | 130 (124) | 30 (15) |
| | m/p-Xylenes | 40 | 44.4 | ug/Kg | 111 | 2 | | 70 (83) | 130 (124) | 30 (15) |
| | o-Xylene | 20 | 21.2 | ug/Kg | 106 | 1 | | 70 (83) | 130 (123) | 30 (15) |
| | Styrene | 20 | 21.9 | ug/Kg | 110 | 2 | | 70 (82) | 130 (124) | 30 (15) |
| | Bromoform | 20 | 19.3 | ug/Kg | 97 | 4 | | 70 (75) | 130 (127) | 30 (16) |
| | Isopropylbenzene | 20 | 21.7 | ug/Kg | 109 | 8 | | 70 (82) | 130 (124) | 30 (15) |
| | 1,1,2,2-Tetrachloroethane | 20 | 22.3 | ug/Kg | 112 | 6 | | 70 (77) | 130 (127) | 30 (21) |
| | 1,3-Dichlorobenzene | 20 | 22.5 | ug/Kg | 113 | 6 | | 70 (83) | 130 (122) | 30 (15) |
| | 1,4-Dichlorobenzene | 20 | 21.6 | ug/Kg | 108 | 4 | | 70 (84) | 130 (121) | 30 (15) |
| | 1,2-Dichlorobenzene | 20 | 21.7 | ug/Kg | 109 | 3 | | 70 (83) | 130 (124) | 30 (15) |

( ) = LABORATORY INHOUSE LIMIT

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3662 **Analytical Method:** SW8260D

**Client:** HDR, Inc. **Datafile :** VW032471.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VW1118SBSD01 | 1,2-Dibromo-3-Chloropropane | 20 | 19.8 | ug/Kg | 99 | 3 | | 40 (66) | 160 (134) | 30 (20) |
| | 1,2,4-Trichlorobenzene | 20 | 19.9 | ug/Kg | 100 | 1 | | 70 (78) | 130 (127) | 30 (20) |
| | 1,2,3-Trichlorobenzene | 20 | 20.5 | ug/Kg | 103 | 3 | | 70 (70) | 130 (137) | 30 (16) |

( ) = LABORATORY INHOUSE LIMIT

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# VOLATILE METHOD BLANK SUMMARY

Client ID: VW1118SBL01

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG NO.: Q3662

Lab File ID: VW032469.D Lab Sample ID: VW1118SBL01

Date Analyzed: 11/18/2025 Time Analyzed: 10:13

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

Instrument ID: MSVOA_W

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VW1118SBS01 | VW1118SBS01 | VW032470.D | 11/18/2025 |
| VW1118SBSD01 | VW1118SBSD01 | VW032471.D | 11/18/2025 |
| B3-0.5-1.0-20251117 | Q3662-01 | VW032485.D | 11/18/2025 |
| B1-0.5-1.0-20251117 | Q3662-03 | VW032486.D | 11/18/2025 |

COMMENTS:

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

Lab Name: Alliance | Contract: HDRI08

Lab Code: ACE | SDG NO.: Q3662

Lab File ID: VW032405.D | BFB Injection Date: 11/10/2025

Instrument ID: MSVOA_W | BFB Injection Time: 14:20

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 | 18.7 |
| 75 | 30.0 - 60.0% of mass 95 | 49.7 |
| 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 | 67.1 |
| 175 | 5.0 - 9.0% of mass 174 | 5.1 ( 7.6 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 66.1 ( 98.5 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.1 ( 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:

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC005 | VSTDICC005 | VW032406.D | 11/10/2025 | 15:11 |
| VSTDICC010 | VSTDICC010 | VW032407.D | 11/10/2025 | 15:33 |
| VSTDICC020 | VSTDICC020 | VW032408.D | 11/10/2025 | 15:55 |
| VSTDICCC050 | VSTDICCC050 | VW032409.D | 11/10/2025 | 16:17 |
| VSTDICC100 | VSTDICC100 | VW032410.D | 11/10/2025 | 16:39 |
| VSTDICC150 | VSTDICC150 | VW032411.D | 11/10/2025 | 17:00 |

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

Lab Name: Alliance | Contract: HDRI08

Lab Code: ACE | SDG NO.: Q3662

Lab File ID: VW032467.D | BFB Injection Date: 11/18/2025

Instrument ID: MSVOA_W | BFB Injection Time: 09:15

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 | 18.3 |
| 75 | 30.0 - 60.0% of mass 95 | 49.3 |
| 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 | 0.0 ( 0.0 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 64.4 |
| 175 | 5.0 - 9.0% of mass 174 | 4.9 ( 7.7 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 61.6 ( 95.7 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 3.9 ( 6.3 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VW032468.D | 11/18/2025 | 09:46 |
| VW1118SBL01 | VW1118SBL01 | VW032469.D | 11/18/2025 | 10:13 |
| VW1118SBS01 | VW1118SBS01 | VW032470.D | 11/18/2025 | 10:40 |
| VW1118SBSD01 | VW1118SBSD01 | VW032471.D | 11/18/2025 | 11:02 |
| B3-0.5-1.0-20251117 | Q3662-01 | VW032485.D | 11/18/2025 | 16:36 |
| B1-0.5-1.0-20251117 | Q3662-03 | VW032486.D | 11/18/2025 | 16:58 |

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG NO.: Q3662

Lab File ID: VW032468.D Date Analyzed: 11/18/2025

Instrument ID: MSVOA_W Time Analyzed: 09:46

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 | 361815 | 7.95 | 661363 | 8.85 | 600329 | 11.63 |
| UPPER LIMIT | 723630 | 8.453 | 1322730 | 9.349 | 1200660 | 12.129 |
| LOWER LIMIT | 180908 | 7.453 | 330682 | 8.349 | 300165 | 11.129 |
| EPA SAMPLE NO. | | | | | | |
| B3-0.5-1.0-20251117 | 225287 | 7.97 | 534048 | 8.85 | 544672 | 11.63 |
| B1-0.5-1.0-20251117 | 221426 | 7.97 | 523942 | 8.85 | 582743 | 11.63 |
| VW1118SBL01 | 212726 | 7.96 | 511741 | 8.85 | 533709 | 11.63 |
| VW1118SBS01 | 368383 | 7.96 | 685400 | 8.85 | 608119 | 11.63 |
| VW1118SBSD01 | 367695 | 7.96 | 692034 | 8.85 | 614192 | 11.63 |

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: Alliance Contract: HDRI08

Lab Code: ACE SDG NO.: Q3662

Lab File ID: VW032468.D Date Analyzed: 11/18/2025

Instrument ID: MSVOA_W Time Analyzed: 09:46

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 279351 | 13.556 | | | | |
| UPPER LIMIT | 558702 | 14.056 | | | | |
| LOWER LIMIT | 139676 | 13.056 | | | | |
| EPA SAMPLE NO. | | | | | | |
| B3-0.5-1.0-20251117 | 237264 | 13.56 | | | | |
| B1-0.5-1.0-20251117 | 283484 | 13.56 | | | | |
| VW1118SBL01 | 261053 | 13.56 | | | | |
| VW1118SBS01 | 294055 | 13.56 | | | | |
| VW1118SBSD01 | 277057 | 13.56 | | | | |

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

Raw Data: **VW032469.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | |
| Project: | PVWC Linear Construction | Date Received: | |
| Client Sample ID: | VW1118SBL01 | SDG No.: | Q3662 |
| Lab Sample ID: | VW1118SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | Level: LOW | % Solid: 100 |
| Sample Wt/Vol: | 5 g | Final Vol: 5000 uL | Test: VOC-TCLVOA-10 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.10 | U | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 74-87-3 | Chloromethane | 1.10 | U | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 75-01-4 | Vinyl Chloride | 0.79 | U | 1 | 0.79 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 74-83-9 | Bromomethane | 1.10 | U | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 75-00-3 | Chloroethane | 1.30 | U | 1 | 1.30 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 75-69-4 | Trichlorofluoromethane | 1.20 | U | 1 | 1.20 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.10 | U | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 75-35-4 | 1,1-Dichloroethene | 1.00 | U | 1 | 1.00 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 67-64-1 | Acetone | 4.70 | U | 1 | 4.70 | 25.0 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 75-15-0 | Carbon Disulfide | 1.10 | U | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 1634-04-4 | Methyl tert-butyl Ether | 0.73 | U | 1 | 0.73 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 79-20-9 | Methyl Acetate | 1.50 | U | 1 | 1.50 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 75-09-2 | Methylene Chloride | 3.50 | U | 1 | 3.50 | 10.0 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.86 | U | 1 | 0.86 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 75-34-3 | 1,1-Dichloroethane | 0.80 | U | 1 | 0.80 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 110-82-7 | Cyclohexane | 0.79 | U | 1 | 0.79 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 78-93-3 | 2-Butanone | 6.50 | U | 1 | 6.50 | 25.0 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 56-23-5 | Carbon Tetrachloride | 0.97 | U | 1 | 0.97 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.75 | U | 1 | 0.75 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 74-97-5 | Bromochloromethane | 1.20 | U | 1 | 1.20 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 67-66-3 | Chloroform | 0.84 | U | 1 | 0.84 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.93 | U | 1 | 0.93 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 108-87-2 | Methylcyclohexane | 0.91 | U | 1 | 0.91 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 71-43-2 | Benzene | 0.79 | U | 1 | 0.79 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 107-06-2 | 1,2-Dichloroethane | 0.79 | U | 1 | 0.79 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 79-01-6 | Trichloroethene | 0.81 | U | 1 | 0.81 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 78-87-5 | 1,2-Dichloropropane | 0.91 | U | 1 | 0.91 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 75-27-4 | Bromodichloromethane | 0.78 | U | 1 | 0.78 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.60 | U | 1 | 3.60 | 25.0 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 108-88-3 | Toluene | 0.78 | U | 1 | 0.78 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 10061-02-6 | t-1,3-Dichloropropene | 0.65 | U | 1 | 0.65 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.62 | U | 1 | 0.62 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.92 | U | 1 | 0.92 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 591-78-6 | 2-Hexanone | 3.70 | U | 1 | 3.70 | 25.0 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 124-48-1 | Dibromochloromethane | 0.87 | U | 1 | 0.87 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 106-93-4 | 1,2-Dibromoethane | 0.88 | U | 1 | 0.88 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 127-18-4 | Tetrachloroethene | 1.10 | U | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 108-90-7 | Chlorobenzene | 0.91 | U | 1 | 0.91 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 100-41-4 | Ethyl Benzene | 0.67 | U | 1 | 0.67 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 179601-23-1 | m/p-Xylenes | 1.20 | U | 1 | 1.20 | 10.0 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 95-47-6 | o-Xylene | 0.82 | U | 1 | 0.82 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 100-42-5 | Styrene | 0.71 | U | 1 | 0.71 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 75-25-2 | Bromoform | 0.86 | U | 1 | 0.86 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |

Raw Data: **VW032469.D**

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | VW1118SBL01 | | | SDG No.: | Q3662 |
| Lab Sample ID: | VW1118SBL01 | | | Matrix: | SOIL |
| Analytical Method: | 8260D | Level: | LOW | % Solid: | 100 |
| Sample Wt/Vol: | 5 g | Final Vol: | 5000 uL | Test: | VOC-TCLVOA-10 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| 98-82-8 | Isopropylbenzene | 0.78 | U | 1 | 0.78 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.20 | U | 1 | 1.20 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.70 | U | 1 | 1.70 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.60 | U | 1 | 1.60 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.50 | U | 1 | 1.50 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.80 | U | 1 | 1.80 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.00 | U | 1 | 3.00 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.20 | U | 1 | 3.20 | 5.00 | ug/Kg | 11/18/25 10:13 | VW111825 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 64.7 | | | 70 (63) - 130 (155) | 129% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 52.3 | | | 70 (70) - 130 (134) | 105% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 47.4 | | | 70 (74) - 130 (123) | 95% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 52.0 | | | 70 (52) - 130 (138) | 104% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 213000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 512000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 534000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 261000 | | | | | | | |

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

Raw Data: **VW032470.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | |
| Project: | PVWC Linear Construction | Date Received: | |
| Client Sample ID: | VW1118SBS01 | SDG No.: | Q3662 |
| Lab Sample ID: | VW1118SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | Level: LOW | % Solid: 100 |
| Sample Wt/Vol: | 5 g | Final Vol: 5000 uL | Test: VOC-TCLVOA-10 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 20.6 | | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 74-87-3 | Chloromethane | 22.4 | | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 75-01-4 | Vinyl Chloride | 22.2 | | 1 | 0.79 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 74-83-9 | Bromomethane | 21.5 | | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 75-00-3 | Chloroethane | 21.2 | | 1 | 1.30 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 75-69-4 | Trichlorofluoromethane | 18.4 | | 1 | 1.20 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 21.8 | | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 75-35-4 | 1,1-Dichloroethene | 21.9 | | 1 | 1.00 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 67-64-1 | Acetone | 110 | | 1 | 4.70 | 25.0 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 75-15-0 | Carbon Disulfide | 21.0 | | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 1634-04-4 | Methyl tert-butyl Ether | 20.8 | | 1 | 0.73 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 79-20-9 | Methyl Acetate | 20.2 | | 1 | 1.50 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 75-09-2 | Methylene Chloride | 24.2 | | 1 | 3.50 | 10.0 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 156-60-5 | trans-1,2-Dichloroethene | 21.8 | | 1 | 0.86 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 75-34-3 | 1,1-Dichloroethane | 22.2 | | 1 | 0.80 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 110-82-7 | Cyclohexane | 21.9 | | 1 | 0.79 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 78-93-3 | 2-Butanone | 100 | | 1 | 6.50 | 25.0 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 56-23-5 | Carbon Tetrachloride | 21.6 | | 1 | 0.97 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 156-59-2 | cis-1,2-Dichloroethene | 21.1 | | 1 | 0.75 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 74-97-5 | Bromochloromethane | 22.7 | | 1 | 1.20 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 67-66-3 | Chloroform | 22.5 | | 1 | 0.84 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 71-55-6 | 1,1,1-Trichloroethane | 21.7 | | 1 | 0.93 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 108-87-2 | Methylcyclohexane | 20.6 | | 1 | 0.91 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 71-43-2 | Benzene | 21.9 | | 1 | 0.79 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 107-06-2 | 1,2-Dichloroethane | 22.2 | | 1 | 0.79 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 79-01-6 | Trichloroethene | 21.3 | | 1 | 0.81 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 78-87-5 | 1,2-Dichloropropane | 22.1 | | 1 | 0.91 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 75-27-4 | Bromodichloromethane | 21.8 | | 1 | 0.78 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | | 1 | 3.60 | 25.0 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 108-88-3 | Toluene | 21.6 | | 1 | 0.78 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 10061-02-6 | t-1,3-Dichloropropene | 20.5 | | 1 | 0.65 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.8 | | 1 | 0.62 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 79-00-5 | 1,1,2-Trichloroethane | 21.3 | | 1 | 0.92 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 591-78-6 | 2-Hexanone | 100 | | 1 | 3.70 | 25.0 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 124-48-1 | Dibromochloromethane | 20.9 | | 1 | 0.87 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 106-93-4 | 1,2-Dibromoethane | 21.4 | | 1 | 0.88 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 127-18-4 | Tetrachloroethene | 21.7 | | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 108-90-7 | Chlorobenzene | 21.6 | | 1 | 0.91 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 100-41-4 | Ethyl Benzene | 21.2 | | 1 | 0.67 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 179601-23-1 | m/p-Xylenes | 43.5 | | 1 | 1.20 | 10.0 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 95-47-6 | o-Xylene | 21.4 | | 1 | 0.82 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 100-42-5 | Styrene | 21.6 | | 1 | 0.71 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 75-25-2 | Bromoform | 20.1 | | 1 | 0.86 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |

Raw Data: **VW032470.D**

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | VW1118SBS01 | | | SDG No.: | Q3662 |
| Lab Sample ID: | VW1118SBS01 | | | Matrix: | SOIL |
| Analytical Method: | 8260D | Level: | LOW | % Solid: | 100 |
| Sample Wt/Vol: | 5 g | Final Vol: | 5000 uL | Test: | VOC-TCLVOA-10 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| 98-82-8 | Isopropylbenzene | 20.1 | | 1 | 0.78 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 21.1 | | 1 | 1.20 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 541-73-1 | 1,3-Dichlorobenzene | 21.2 | | 1 | 1.70 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 106-46-7 | 1,4-Dichlorobenzene | 20.7 | | 1 | 1.60 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 95-50-1 | 1,2-Dichlorobenzene | 21.1 | | 1 | 1.50 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 19.2 | | 1 | 1.80 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20.1 | | 1 | 3.00 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.0 | | 1 | 3.20 | 5.00 | ug/Kg | 11/18/25 10:40 | VW111825 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.7 | | | 70 (63) - 130 (155) | 107% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 52.0 | | | 70 (70) - 130 (134) | 104% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 52.0 | | | 70 (74) - 130 (123) | 104% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 51.7 | | | 70 (52) - 130 (138) | 103% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 368000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 685000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 608000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 294000 | | | | | | | |

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

Raw Data: **VW032471.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | |
| Project: | PVWC Linear Construction | Date Received: | |
| Client Sample ID: | VW1118SBSD01 | SDG No.: | Q3662 |
| Lab Sample ID: | VW1118SBSD01 | Matrix: | SOIL |
| Analytical Method: | 8260D | Level: LOW | % Solid: 100 |
| Sample Wt/Vol: | 5 g | Final Vol: 5000 uL | Test: VOC-TCLVOA-10 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 21.9 | | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 74-87-3 | Chloromethane | 22.0 | | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 75-01-4 | Vinyl Chloride | 22.5 | | 1 | 0.79 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 74-83-9 | Bromomethane | 22.2 | | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 75-00-3 | Chloroethane | 21.7 | | 1 | 1.30 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 75-69-4 | Trichlorofluoromethane | 22.1 | | 1 | 1.20 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 22.7 | | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 75-35-4 | 1,1-Dichloroethene | 22.3 | | 1 | 1.00 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 67-64-1 | Acetone | 100 | | 1 | 4.70 | 25.0 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 75-15-0 | Carbon Disulfide | 21.5 | | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 1634-04-4 | Methyl tert-butyl Ether | 20.7 | | 1 | 0.73 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 79-20-9 | Methyl Acetate | 20.0 | | 1 | 1.50 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 75-09-2 | Methylene Chloride | 23.6 | | 1 | 3.50 | 10.0 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 156-60-5 | trans-1,2-Dichloroethene | 22.1 | | 1 | 0.86 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 75-34-3 | 1,1-Dichloroethane | 22.6 | | 1 | 0.80 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 110-82-7 | Cyclohexane | 22.0 | | 1 | 0.79 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 78-93-3 | 2-Butanone | 100 | | 1 | 6.50 | 25.0 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 56-23-5 | Carbon Tetrachloride | 22.5 | | 1 | 0.97 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 156-59-2 | cis-1,2-Dichloroethene | 21.6 | | 1 | 0.75 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 74-97-5 | Bromochloromethane | 22.8 | | 1 | 1.20 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 67-66-3 | Chloroform | 22.7 | | 1 | 0.84 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 71-55-6 | 1,1,1-Trichloroethane | 22.3 | | 1 | 0.93 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 108-87-2 | Methylcyclohexane | 20.8 | | 1 | 0.91 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 71-43-2 | Benzene | 21.8 | | 1 | 0.79 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 107-06-2 | 1,2-Dichloroethane | 21.8 | | 1 | 0.79 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 79-01-6 | Trichloroethene | 21.3 | | 1 | 0.81 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 78-87-5 | 1,2-Dichloropropane | 21.8 | | 1 | 0.91 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 75-27-4 | Bromodichloromethane | 21.4 | | 1 | 0.78 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | | 1 | 3.60 | 25.0 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 108-88-3 | Toluene | 21.9 | | 1 | 0.78 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 10061-02-6 | t-1,3-Dichloropropene | 20.4 | | 1 | 0.65 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.8 | | 1 | 0.62 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 79-00-5 | 1,1,2-Trichloroethane | 21.2 | | 1 | 0.92 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 591-78-6 | 2-Hexanone | 100 | | 1 | 3.70 | 25.0 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 124-48-1 | Dibromochloromethane | 20.7 | | 1 | 0.87 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 106-93-4 | 1,2-Dibromoethane | 20.9 | | 1 | 0.88 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 127-18-4 | Tetrachloroethene | 21.2 | | 1 | 1.10 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 108-90-7 | Chlorobenzene | 21.5 | | 1 | 0.91 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 100-41-4 | Ethyl Benzene | 21.9 | | 1 | 0.67 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 179601-23-1 | m/p-Xylenes | 44.4 | | 1 | 1.20 | 10.0 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 95-47-6 | o-Xylene | 21.2 | | 1 | 0.82 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 100-42-5 | Styrene | 21.9 | | 1 | 0.71 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 75-25-2 | Bromoform | 19.3 | | 1 | 0.86 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |

Raw Data: **VW032471.D**

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | VW1118SBSD01 | | | SDG No.: | Q3662 |
| Lab Sample ID: | VW1118SBSD01 | | | Matrix: | SOIL |
| Analytical Method: | 8260D | Level: | LOW | % Solid: | 100 |
| Sample Wt/Vol: | 5 g | Final Vol: | 5000 uL | Test: | VOC-TCLVOA-10 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| 98-82-8 | Isopropylbenzene | 21.7 | | 1 | 0.78 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 22.3 | | 1 | 1.20 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 541-73-1 | 1,3-Dichlorobenzene | 22.5 | | 1 | 1.70 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 106-46-7 | 1,4-Dichlorobenzene | 21.6 | | 1 | 1.60 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 95-50-1 | 1,2-Dichlorobenzene | 21.7 | | 1 | 1.50 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 19.8 | | 1 | 1.80 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 19.9 | | 1 | 3.00 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.5 | | 1 | 3.20 | 5.00 | ug/Kg | 11/18/25 11:02 | VW111825 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.2 | | | 70 (63) - 130 (155) | 104% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 50.5 | | | 70 (70) - 130 (134) | 101% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 51.2 | | | 70 (74) - 130 (123) | 102% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 49.7 | | | 70 (52) - 130 (138) | 99% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 368000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 692000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 614000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 277000 | | | | | | | |

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

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

# CALIBRATION SUMMARY

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG No.: Q3662

Instrument ID: MSVOA_W Calibration Date(s): 11/10/2025 11/10/2025

Heated Purge: (Y/N) Y Calibration Time(s): 15:11 17:00

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

LAB FILE ID: RRF005 = VW032406.D RRF010 = VW032407.D RRF020 = VW032408.D
RRF050 = VW032409.D RRF100 = VW032410.D RRF150 = VW032411.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.288 | 0.282 | 0.231 | 0.248 | 0.243 | 0.230 | 0.254 | 10 |
| Chloromethane | 0.476 | 0.439 | 0.408 | 0.408 | 0.438 | 0.440 | 0.435 | 5.8 |
| Vinyl Chloride | 0.591 | 0.567 | 0.525 | 0.538 | 0.543 | 0.528 | 0.549 | 4.6 |
| Bromomethane | 0.402 | 0.371 | 0.350 | 0.358 | 0.364 | 0.358 | 0.367 | 5.1 |
| Chloroethane | 0.382 | 0.361 | 0.340 | 0.355 | 0.362 | 0.354 | 0.359 | 3.9 |
| Trichlorofluoromethane | 0.420 | 0.416 | 0.392 | 0.459 | 0.442 | 0.452 | 0.430 | 5.9 |
| 1,1,2-Trichlorotrifluoroethane | 0.506 | 0.495 | 0.438 | 0.467 | 0.458 | 0.449 | 0.469 | 5.6 |
| 1,1-Dichloroethene | 0.576 | 0.541 | 0.506 | 0.540 | 0.539 | 0.523 | 0.537 | 4.3 |
| Acetone | 0.216 | 0.194 | 0.183 | 0.186 | 0.190 | 0.188 | 0.193 | 6.3 |
| Carbon Disulfide | 1.604 | 1.574 | 1.497 | 1.608 | 1.644 | 1.603 | 1.588 | 3.1 |
| Methyl tert-butyl Ether | 1.186 | 1.163 | 1.107 | 1.139 | 1.126 | 1.076 | 1.133 | 3.5 |
| Methyl Acetate | 0.486 | 0.494 | 0.459 | 0.463 | 0.476 | 0.487 | 0.478 | 2.9 |
| Methylene Chloride | 0.789 | 0.741 | 0.682 | 0.640 | 0.658 | 0.629 | 0.690 | 9.1 |
| trans-1,2-Dichloroethene | 0.646 | 0.619 | 0.596 | 0.603 | 0.624 | 0.598 | 0.615 | 3.1 |
| 1,1-Dichloroethane | 1.217 | 1.156 | 1.091 | 1.148 | 1.168 | 1.138 | 1.153 | 3.5 |
| Cyclohexane | 1.236 | 1.141 | 1.016 | 1.027 | 1.003 | 0.976 | 1.066 | 9.5 |
| 2-Butanone | 0.292 | 0.288 | 0.282 | 0.280 | 0.284 | 0.278 | 0.284 | 1.9 |
| Carbon Tetrachloride | 0.392 | 0.398 | 0.386 | 0.399 | 0.386 | 0.391 | 0.392 | 1.4 |
| cis-1,2-Dichloroethene | 0.764 | 0.727 | 0.713 | 0.729 | 0.748 | 0.723 | 0.734 | 2.5 |
| Bromochloromethane | 0.606 | 0.563 | 0.533 | 0.502 | 0.538 | 0.527 | 0.545 | 6.6 |
| Chloroform | 1.164 | 1.165 | 1.089 | 1.109 | 1.141 | 1.103 | 1.129 | 2.9 |
| 1,1,1-Trichloroethane | 0.831 | 0.820 | 0.776 | 0.817 | 0.817 | 0.777 | 0.806 | 2.9 |
| Methylcyclohexane | 0.560 | 0.575 | 0.562 | 0.598 | 0.562 | 0.572 | 0.571 | 2.5 |
| Benzene | 1.410 | 1.473 | 1.410 | 1.437 | 1.413 | 1.380 | 1.420 | 2.2 |
| 1,2-Dichloroethane | 0.425 | 0.423 | 0.416 | 0.421 | 0.409 | 0.409 | 0.417 | 1.7 |
| Trichloroethene | 0.336 | 0.340 | 0.327 | 0.335 | 0.323 | 0.323 | 0.331 | 2.2 |
| 1,2-Dichloropropane | 0.356 | 0.360 | 0.354 | 0.356 | 0.350 | 0.346 | 0.354 | 1.4 |
| Bromodichloromethane | 0.460 | 0.469 | 0.456 | 0.482 | 0.481 | 0.482 | 0.471 | 2.5 |
| 4-Methyl-2-Pentanone | 0.304 | 0.329 | 0.330 | 0.336 | 0.317 | 0.311 | 0.321 | 3.9 |
| Toluene | 0.875 | 0.896 | 0.870 | 0.894 | 0.870 | 0.859 | 0.877 | 1.7 |

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

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Fax : 908 789 8922

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG No.: Q3662

Instrument ID: MSVOA_W Calibration Date(s): 11/10/2025 11/10/2025

Heated Purge: (Y/N) Y Calibration Time(s): 15:11 17:00

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

LAB FILE ID: RRF005 = VW032406.D RRF010 = VW032407.D RRF020 = VW032408.D
RRF050 = VW032409.D RRF100 = VW032410.D RRF150 = VW032411.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.445 | 0.481 | 0.469 | 0.504 | 0.508 | 0.507 | 0.486 | 5.2 |
| cis-1,3-Dichloropropene | 0.531 | 0.553 | 0.556 | 0.579 | 0.576 | 0.574 | 0.562 | 3.2 |
| 1,1,2-Trichloroethane | 0.288 | 0.283 | 0.282 | 0.293 | 0.278 | 0.277 | 0.284 | 2.1 |
| 2-Hexanone | 0.223 | 0.245 | 0.241 | 0.244 | 0.231 | 0.226 | 0.235 | 4 |
| Dibromochloromethane | 0.306 | 0.317 | 0.314 | 0.320 | 0.320 | 0.322 | 0.317 | 1.9 |
| 1,2-Dibromoethane | 0.261 | 0.292 | 0.279 | 0.281 | 0.272 | 0.272 | 0.276 | 3.8 |
| Tetrachloroethene | 0.298 | 0.304 | 0.285 | 0.300 | 0.303 | 0.287 | 0.296 | 2.8 |
| Chlorobenzene | 1.087 | 1.088 | 1.042 | 1.133 | 1.093 | 1.023 | 1.078 | 3.7 |
| Ethyl Benzene | 1.875 | 1.853 | 1.822 | 1.944 | 1.915 | 1.779 | 1.865 | 3.2 |
| m/p-Xylenes | 0.692 | 0.713 | 0.679 | 0.732 | 0.708 | 0.677 | 0.700 | 3 |
| o-Xylene | 0.668 | 0.659 | 0.662 | 0.682 | 0.699 | 0.653 | 0.670 | 2.5 |
| Styrene | 1.104 | 1.146 | 1.132 | 1.208 | 1.212 | 1.118 | 1.153 | 4 |
| Bromoform | 0.187 | 0.201 | 0.193 | 0.203 | 0.205 | 0.196 | 0.198 | 3.5 |
| Isopropylbenzene | 3.523 | 3.562 | 3.511 | 3.968 | 3.781 | 3.689 | 3.672 | 4.9 |
| 1,1,2,2-Tetrachloroethane | 0.886 | 0.869 | 0.845 | 0.927 | 0.871 | 0.831 | 0.871 | 3.8 |
| 1,3-Dichlorobenzene | 1.665 | 1.630 | 1.620 | 1.721 | 1.659 | 1.596 | 1.648 | 2.7 |
| 1,4-Dichlorobenzene | 1.776 | 1.680 | 1.644 | 1.774 | 1.658 | 1.602 | 1.689 | 4.2 |
| 1,2-Dichlorobenzene | 1.547 | 1.528 | 1.464 | 1.545 | 1.509 | 1.488 | 1.513 | 2.2 |
| 1,2-Dibromo-3-Chloropropane | 0.145 | 0.146 | 0.145 | 0.159 | 0.152 | 0.154 | 0.150 | 3.8 |
| 1,2,4-Trichlorobenzene | 0.943 | 0.917 | 0.923 | 1.032 | 0.972 | 0.992 | 0.963 | 4.6 |
| 1,2,3-Trichlorobenzene | 0.892 | 0.831 | 0.836 | 0.901 | 0.880 | 0.906 | 0.874 | 3.8 |
| 1,2-Dichloroethane-d4 | 0.691 | 0.654 | 0.647 | 0.605 | 0.640 | 0.630 | 0.645 | 4.4 |
| Dibromofluoromethane | 0.314 | 0.302 | 0.305 | 0.287 | 0.297 | 0.291 | 0.299 | 3.3 |
| Toluene-d8 | 1.171 | 1.176 | 1.152 | 1.130 | 1.136 | 1.125 | 1.148 | 1.9 |
| 4-Bromofluorobenzene | 0.444 | 0.444 | 0.454 | 0.415 | 0.426 | 0.421 | 0.434 | 3.6 |

* 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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Fax : 908 789 8922

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: HDRI08
Lab Code: ACE
SDG No.: Q3662
Instrument ID: MSVOA_W
Calibration Date/Time: 11/18/2025 09:46
Lab File ID: VW032468.D
Init. Calib. Date(s): 11/10/2025 11/10/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 15:11 17:00
GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.254 | 0.247 | | -2.76 | 20 |
| Chloromethane | 0.435 | 0.410 | 0.1 | -5.75 | 20 |
| Vinyl Chloride | 0.549 | 0.573 | | 4.37 | 20 |
| Bromomethane | 0.367 | 0.375 | | 2.18 | 20 |
| Chloroethane | 0.359 | 0.380 | | 5.85 | 20 |
| Trichlorofluoromethane | 0.430 | 0.445 | | 3.49 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.469 | 0.492 | | 4.9 | 20 |
| 1,1-Dichloroethene | 0.537 | 0.549 | | 2.23 | 20 |
| Acetone | 0.193 | 0.208 | | 7.77 | 20 |
| Carbon Disulfide | 1.588 | 1.625 | | 2.33 | 20 |
| Methyl tert-butyl Ether | 1.133 | 1.200 | | 5.91 | 20 |
| Methyl Acetate | 0.478 | 0.544 | | 13.81 | 20 |
| Methylene Chloride | 0.690 | 0.704 | | 2.03 | 20 |
| trans-1,2-Dichloroethene | 0.615 | 0.640 | | 4.07 | 20 |
| 1,1-Dichloroethane | 1.153 | 1.234 | 0.1 | 7.03 | 20 |
| Cyclohexane | 1.066 | 1.052 | | -1.31 | 20 |
| 2-Butanone | 0.284 | 0.296 | | 4.22 | 20 |
| Carbon Tetrachloride | 0.392 | 0.418 | | 6.63 | 20 |
| cis-1,2-Dichloroethene | 0.734 | 0.773 | | 5.31 | 20 |
| Bromochloromethane | 0.545 | 0.588 | | 7.89 | 20 |
| Chloroform | 1.129 | 1.213 | | 7.44 | 20 |
| 1,1,1-Trichloroethane | 0.806 | 0.852 | | 5.71 | 20 |
| Methylcyclohexane | 0.571 | 0.590 | | 3.33 | 20 |
| Benzene | 1.420 | 1.504 | | 5.91 | 20 |
| 1,2-Dichloroethane | 0.417 | 0.458 | | 9.83 | 20 |
| Trichloroethene | 0.331 | 0.339 | | 2.42 | 20 |
| 1,2-Dichloropropane | 0.354 | 0.380 | | 7.34 | 20 |
| Bromodichloromethane | 0.471 | 0.501 | | 6.37 | 20 |
| 4-Methyl-2-Pentanone | 0.321 | 0.360 | | 12.15 | 20 |
| Toluene | 0.877 | 0.931 | | 6.16 | 20 |
| t-1,3-Dichloropropene | 0.486 | 0.516 | | 6.17 | 20 |
| cis-1,3-Dichloropropene | 0.562 | 0.601 | | 6.94 | 20 |
| 1,1,2-Trichloroethane | 0.284 | 0.305 | | 7.39 | 20 |
| 2-Hexanone | 0.235 | 0.255 | | 8.51 | 20 |
| Dibromochloromethane | 0.317 | 0.346 | | 9.15 | 20 |
| 1,2-Dibromoethane | 0.276 | 0.291 | | 5.43 | 20 |
| Tetrachloroethene | 0.296 | 0.303 | | 2.37 | 20 |
| Chlorobenzene | 1.078 | 1.138 | 0.3 | 5.57 | 20 |

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

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Fax : 908 789 8922

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG No.: Q3662

Instrument ID: MSVOA_W Calibration Date/Time: 11/18/2025 09:46

Lab File ID: VW032468.D Init. Calib. Date(s): 11/10/2025 11/10/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 15:11 17:00

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.865 | 1.941 | | 4.07 | 20 |
| m/p-Xylenes | 0.700 | 0.733 | | 4.71 | 20 |
| o-Xylene | 0.670 | 0.694 | | 3.58 | 20 |
| Styrene | 1.153 | 1.249 | | 8.33 | 20 |
| Bromoform | 0.198 | 0.203 | 0.1 | 2.53 | 20 |
| Isopropylbenzene | 3.672 | 3.748 | | 2.07 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.871 | 0.927 | 0.3 | 6.43 | 20 |
| 1,3-Dichlorobenzene | 1.648 | 1.713 | | 3.94 | 20 |
| 1,4-Dichlorobenzene | 1.689 | 1.691 | | 0.12 | 20 |
| 1,2-Dichlorobenzene | 1.513 | 1.598 | | 5.62 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.150 | 0.155 | | 3.33 | 20 |
| 1,2,4-Trichlorobenzene | 0.963 | 0.914 | | -5.09 | 20 |
| 1,2,3-Trichlorobenzene | 0.874 | 0.850 | | -2.75 | 20 |
| 1,2-Dichloroethane-d4 | 0.645 | 0.695 | | 7.75 | 20 |
| Dibromofluoromethane | 0.299 | 0.310 | | 3.68 | 20 |
| Toluene-d8 | 1.148 | 1.197 | | 4.27 | 20 |
| 4-Bromofluorobenzene | 0.434 | 0.457 | | 5.3 | 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_W\Data\VW111825\
Data File : VW032485.D
Acq On : 18 Nov 2025 16:36
Operator : SY/MD
Sample : Q3662-01
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
B3-0.5-1.0-20251117

Quant Time: Nov 19 00:29:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.965 | 168 | 225287 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 534048 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 544672 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 237264 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 160596 | 55.292 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 110.580% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 152037 | 47.549 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 95.100% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 533491 | 43.491 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 86.980% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 241626 | 52.144 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 104.280% | | | |

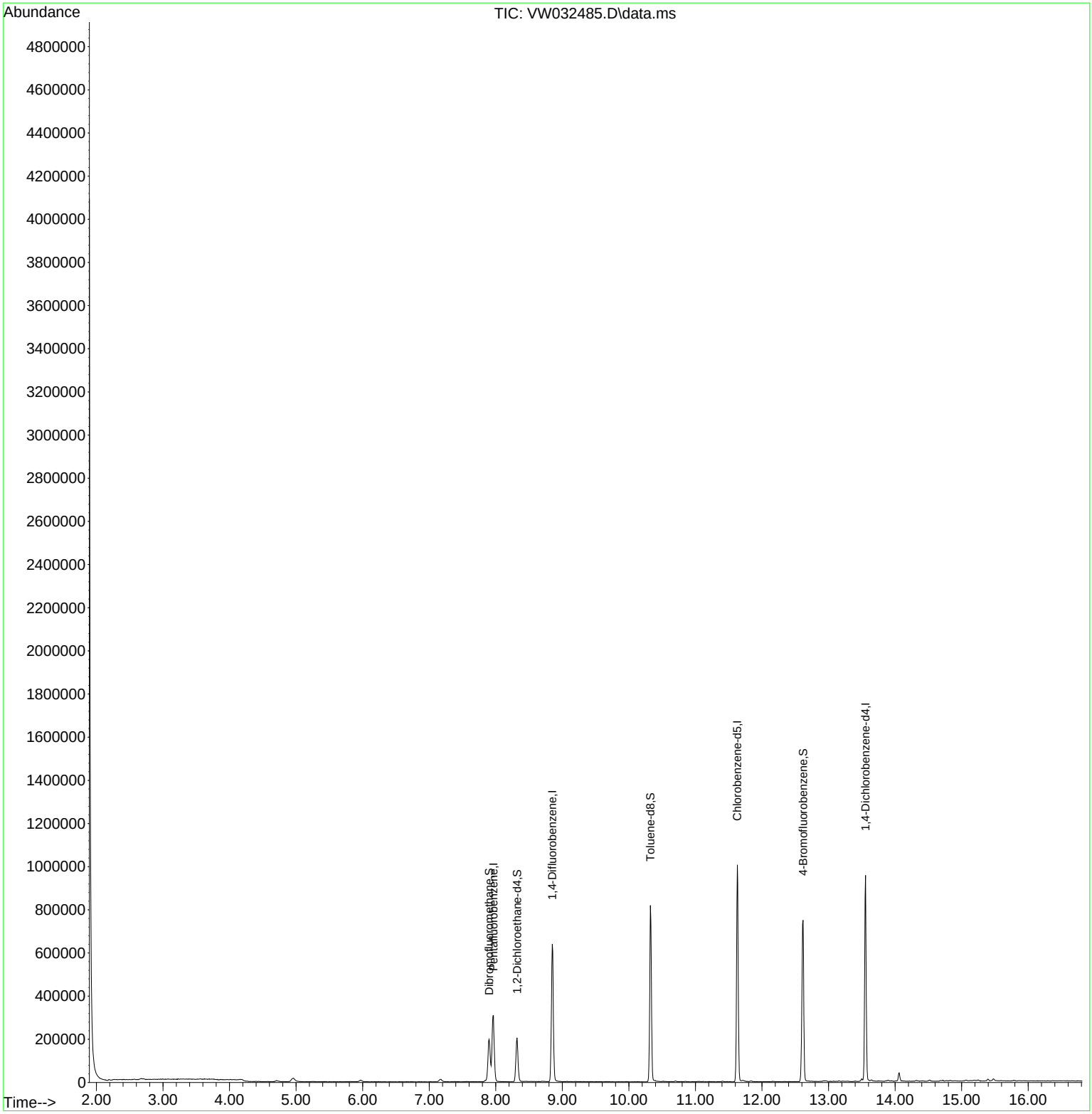
Target Compounds Qvalue

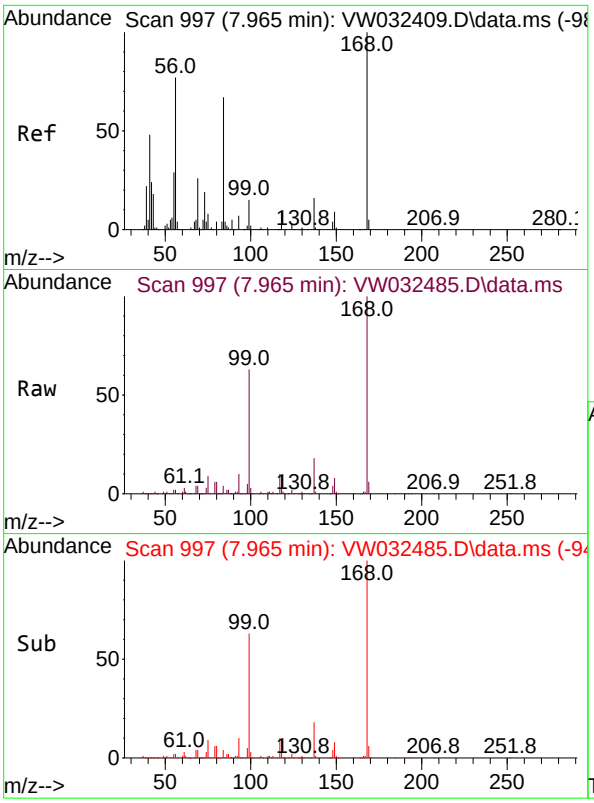
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032485.D
Acq On : 18 Nov 2025 16:36
Operator : SY/MD
Sample : Q3662-01
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
B3-0.5-1.0-20251117

Quant Time: Nov 19 00:29:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration



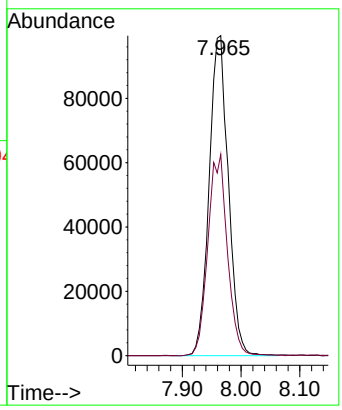


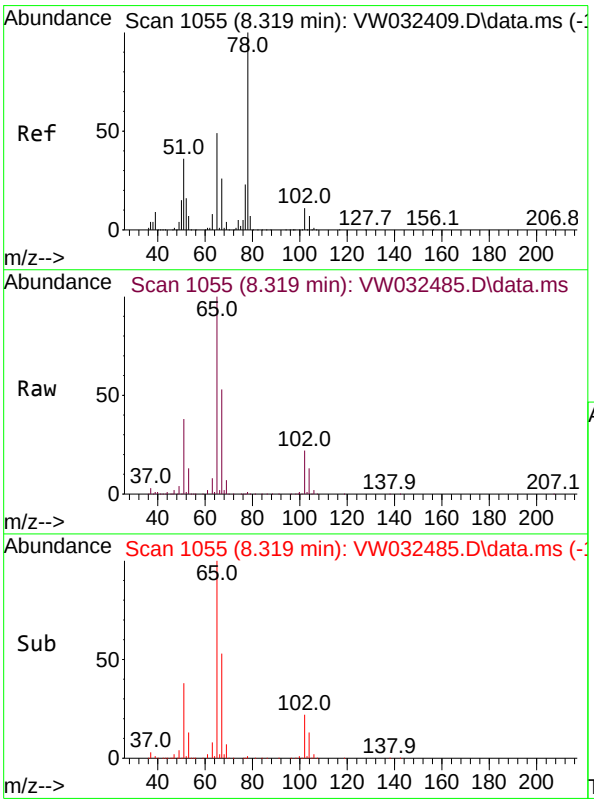

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 99
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

**Instrument :**
MSVOA_W
**ClientSampleId :**
B3-0.5-1.0-20251117

Tgt Ion:168 Resp: 225287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.9 | 45.4 | 68.2 |

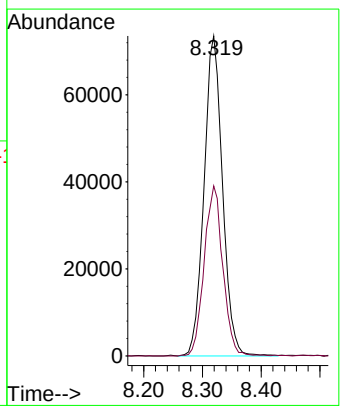


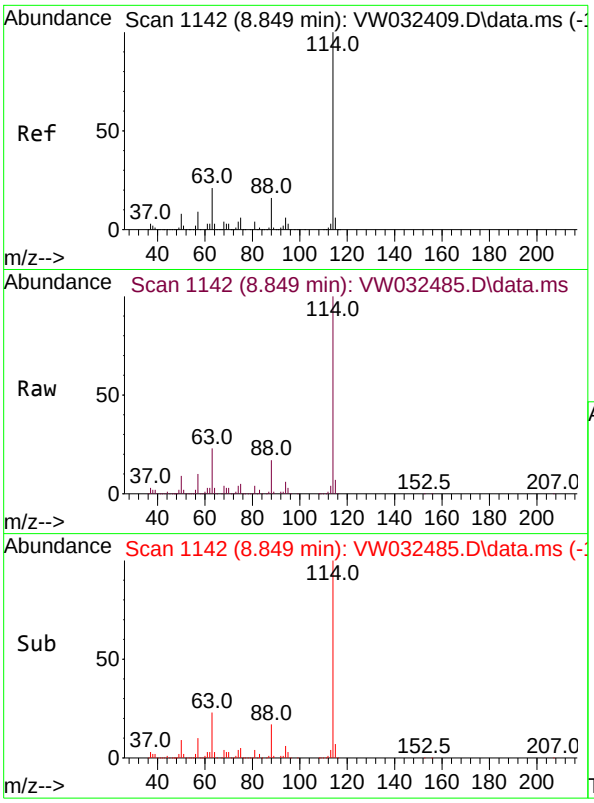




#33
1,2-Dichloroethane-d4
Concen: 55.292 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

Tgt Ion: 65 Resp: 160596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.5 | 0.0 | 106.8 |



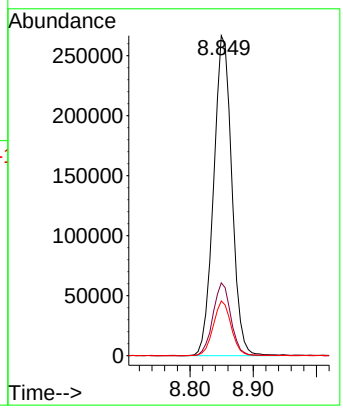


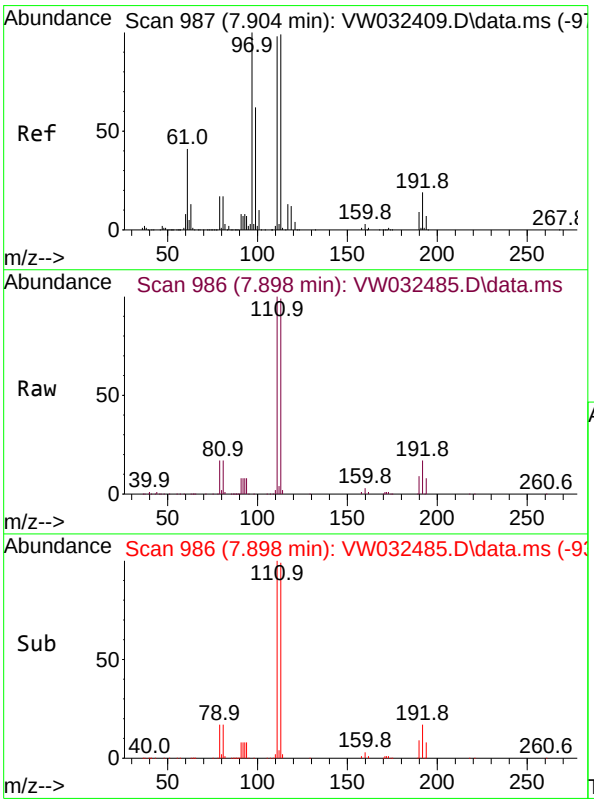

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

**Instrument :**
MSVOA_W
**ClientSampleId :**
B3-0.5-1.0-20251117

Tgt Ion:114 Resp: 534048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.7 | 0.0 | 41.8 |
| 88 | 17.1 | 0.0 | 32.6 |

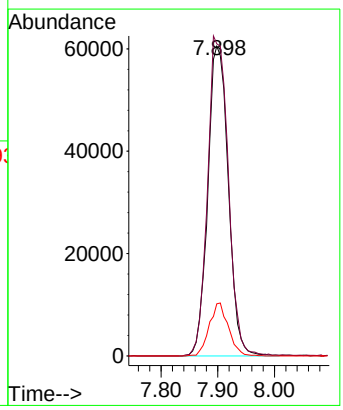


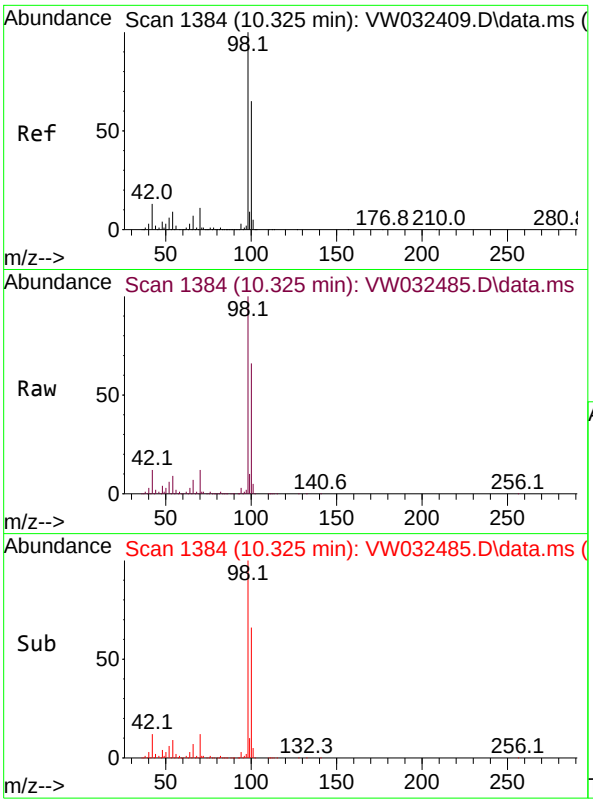




#35
Dibromofluoromethane
Concen: 47.549 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

Tgt Ion:113 Resp: 152037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.4 | 83.1 | 124.7 |
| 192 | 15.9 | 13.4 | 20.2 |



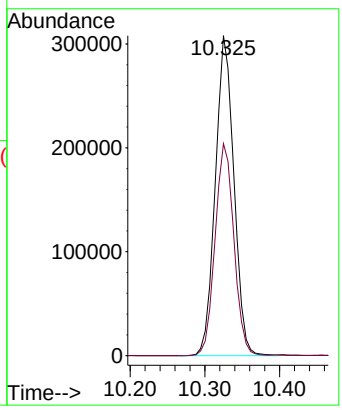


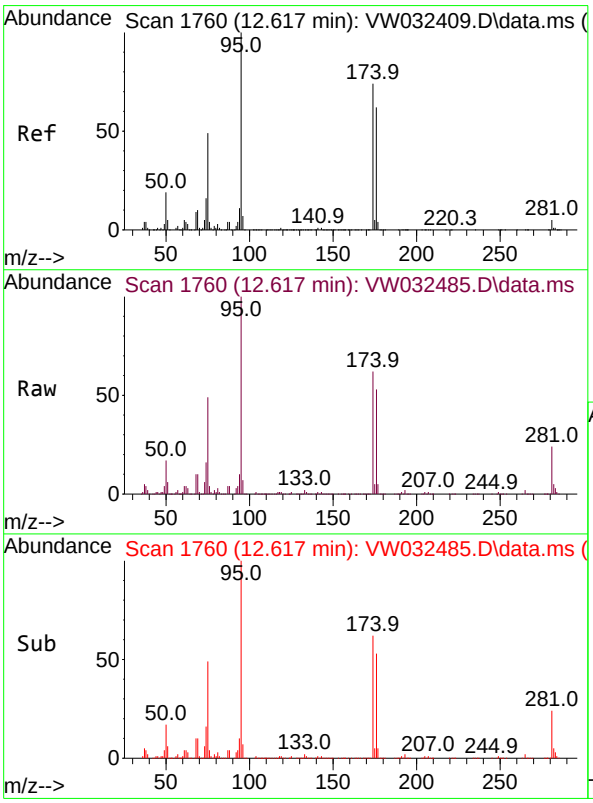

#50
Toluene-d8
Concen: 43.491 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

**Instrument :**
MSVOA_W
**ClientSampleId :**
B3-0.5-1.0-20251117

Tgt Ion: 98 Resp: 533491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 67.0 | 53.3 | 79.9 |

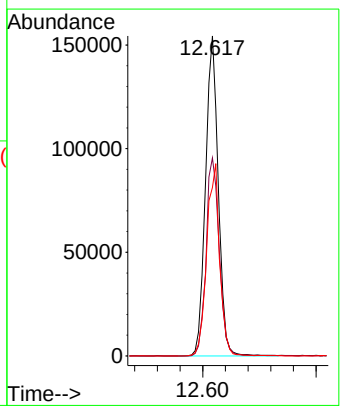


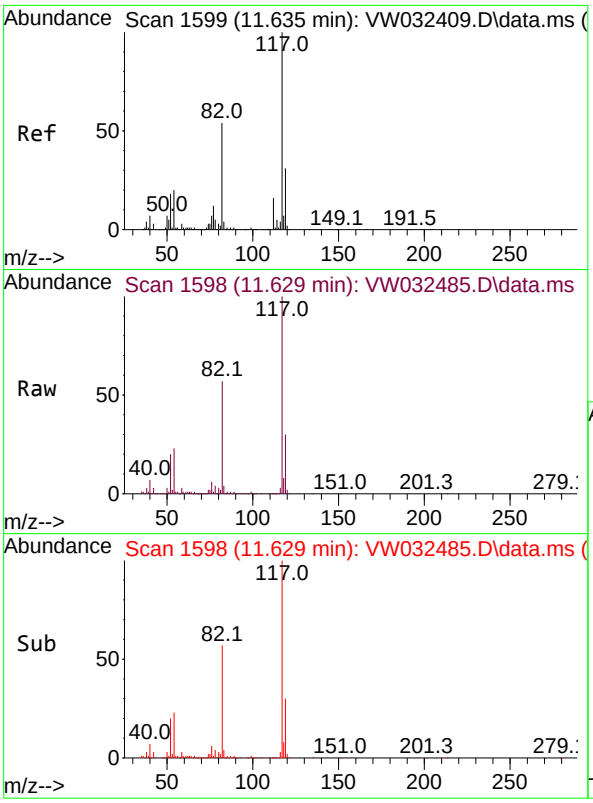




#62
4-Bromofluorobenzene
Concen: 52.144 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

Tgt Ion: 95 Resp: 241626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.6 | 0.0 | 135.4 |
| 176 | 60.6 | 0.0 | 131.8 |



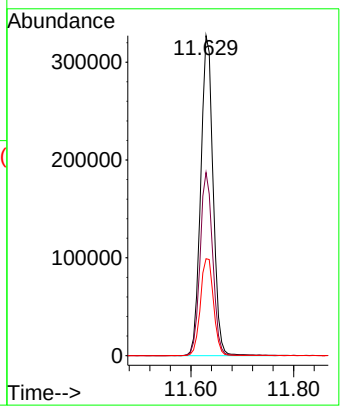


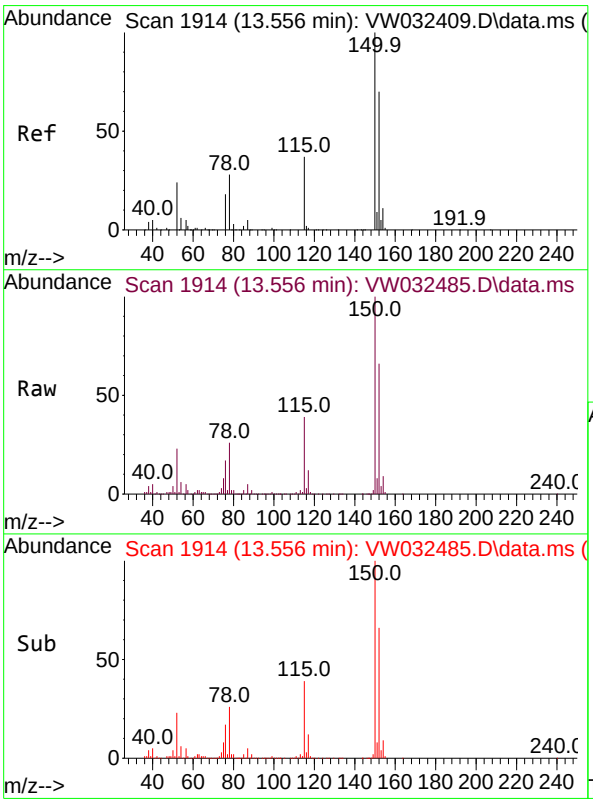

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

**Instrument :**
MSVOA_W
**ClientSampleId :**
B3-0.5-1.0-20251117

Tgt Ion:117 Resp: 544672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.2 | 43.0 | 64.4 |
| 119 | 30.2 | 25.0 | 37.6 |

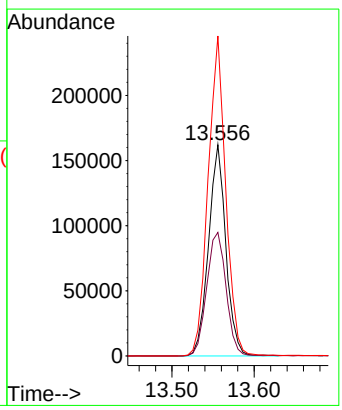



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

Tgt Ion:152 Resp: 237264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.3 | 32.8 | 98.3 |
| 150 | 154.1 | 0.0 | 356.6 |



Sample Results: **VW032485.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032485.D
Acq On : 18 Nov 2025 16:36
Operator : SY/MD
Sample : Q3662-01
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
B3-0.5-1.0-20251117

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_W\Method\82W111025S.M
Title : SW846 8260

Signal : TIC: VW032485.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.960 | 493 | 504 | 515 | rBV2 | 15888 | 57734 | 3.39% | 0.630% |
| 2 | 7.179 | 858 | 868 | 877 | rBV2 | 11880 | 39991 | 2.35% | 0.436% |
| 3 | 7.898 | 971 | 986 | 991 | rBV2 | 196437 | 504434 | 29.66% | 5.500% |
| 4 | 7.965 | 991 | 997 | 1007 | rVB | 305472 | 710312 | 41.76% | 7.745% |
| 5 | 8.319 | 1044 | 1055 | 1066 | rBV | 203992 | 455277 | 26.77% | 4.964% |
| 6 | 8.849 | 1134 | 1142 | 1153 | rBV | 637856 | 1281267 | 75.33% | 13.971% |
| 7 | 10.325 | 1376 | 1384 | 1394 | rBV | 817366 | 1451132 | 85.32% | 15.823% |
| 8 | 11.629 | 1590 | 1598 | 1608 | rBV | 1004693 | 1700783 | 100.00% | 18.546% |
| 9 | 12.617 | 1750 | 1760 | 1772 | rBV3 | 748228 | 1421781 | 83.60% | 15.503% |
| 10 | 13.556 | 1907 | 1914 | 1924 | rVB | 951785 | 1484417 | 87.28% | 16.186% |
| 11 | 14.062 | 1991 | 1997 | 2002 | rVB | 38361 | 63648 | 3.74% | 0.694% |

Sum of corrected areas: 9170776

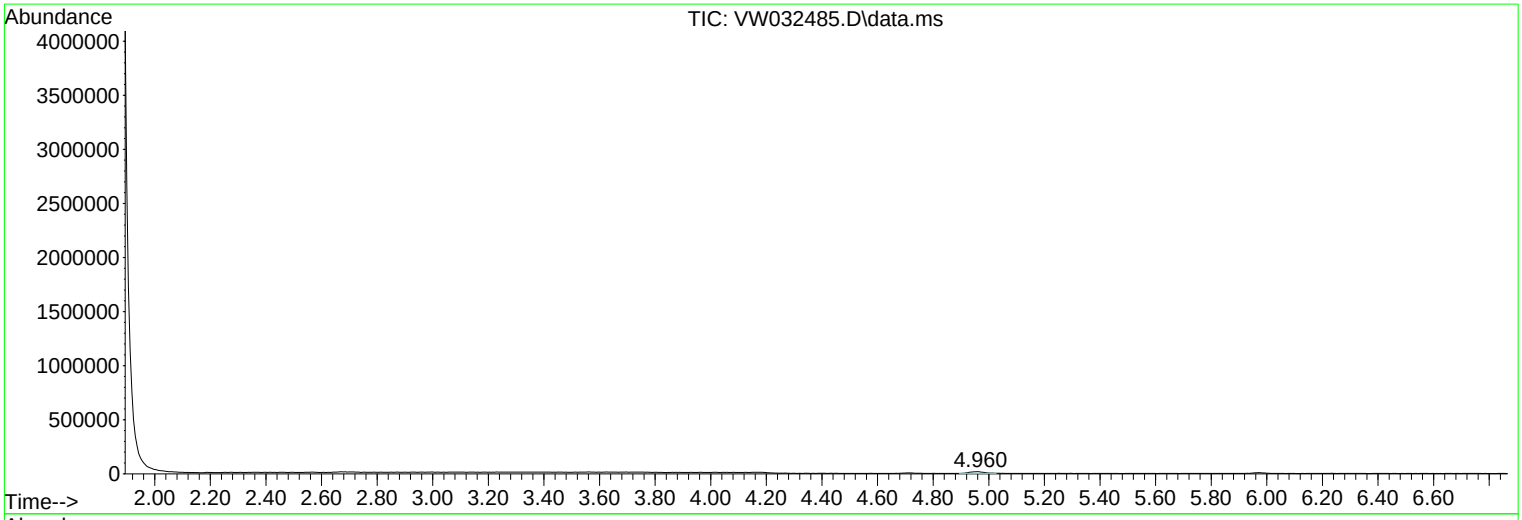
Sample Results: **VW032485.D**

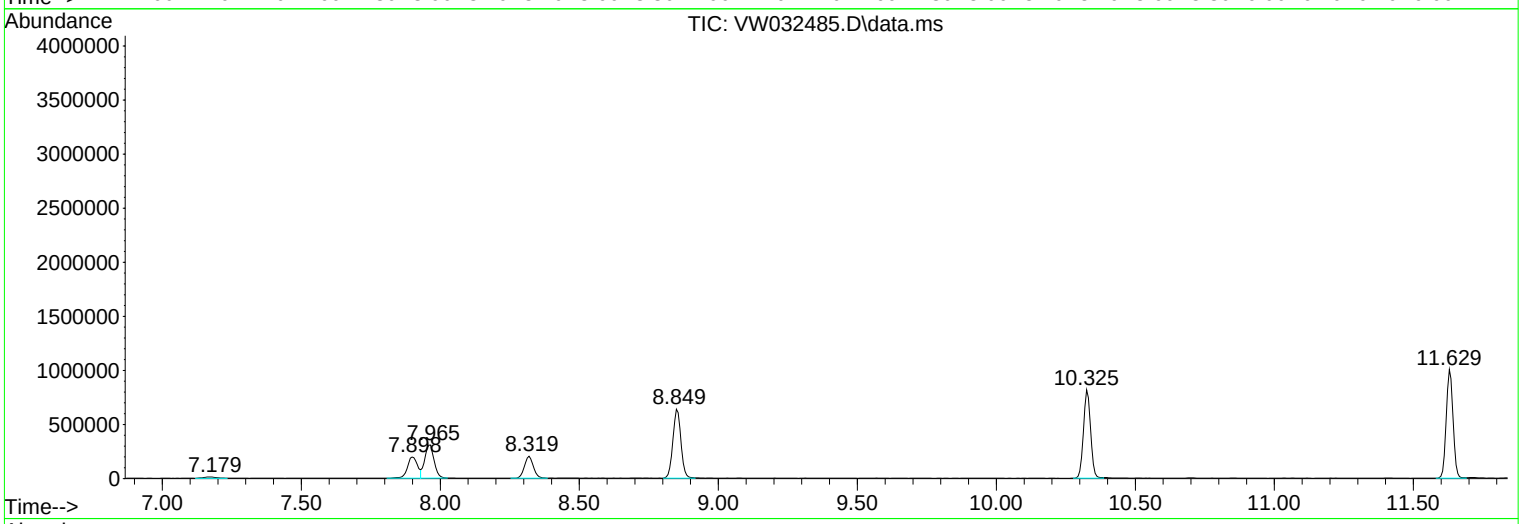
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032485.D
Acq On : 18 Nov 2025 16:36
Operator : SY/MD
Sample : Q3662-01
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

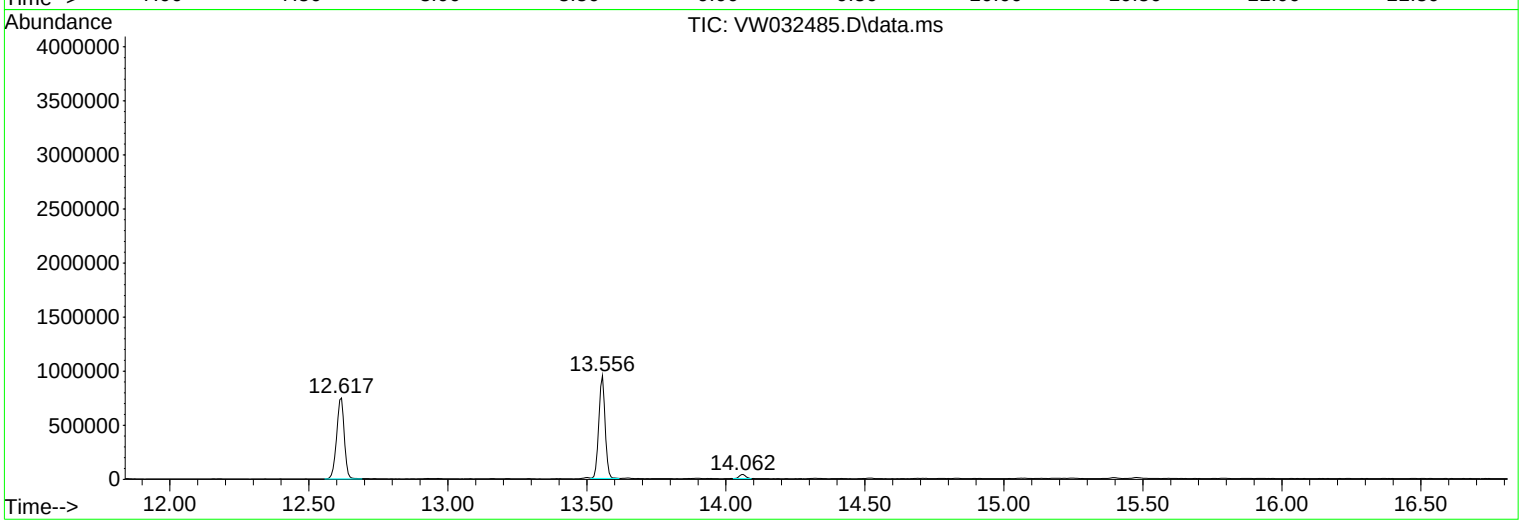
**Instrument :**
MSVOA_W
**ClientSampleId :**
B3-0.5-1.0-20251117

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VW032485.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032485.D
Acq On : 18 Nov 2025 16:36
Operator : SY/MD
Sample : Q3662-01
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
B3-0.5-1.0-20251117

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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_W\Data\VW111825\
Data File : VW032485.D
Acq On : 18 Nov 2025 16:36
Operator : SY/MD
Sample : Q3662-01
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
B3-0.5-1.0-20251117

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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_W\Data\VW111825\
Data File : VW032486.D
Acq On : 18 Nov 2025 16:58
Operator : SY/MD
Sample : Q3662-03
Misc : 6.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
B1-0.5-1.0-20251117

Quant Time: Nov 19 00:30:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.965 | 168 | 221426 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 523942 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 582743 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 283484 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 163693 | 57.341 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 114.680% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 149778 | 47.746 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 95.500% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 534007 | 44.373 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 88.740% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 255198 | 56.135 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 112.280% | | | |

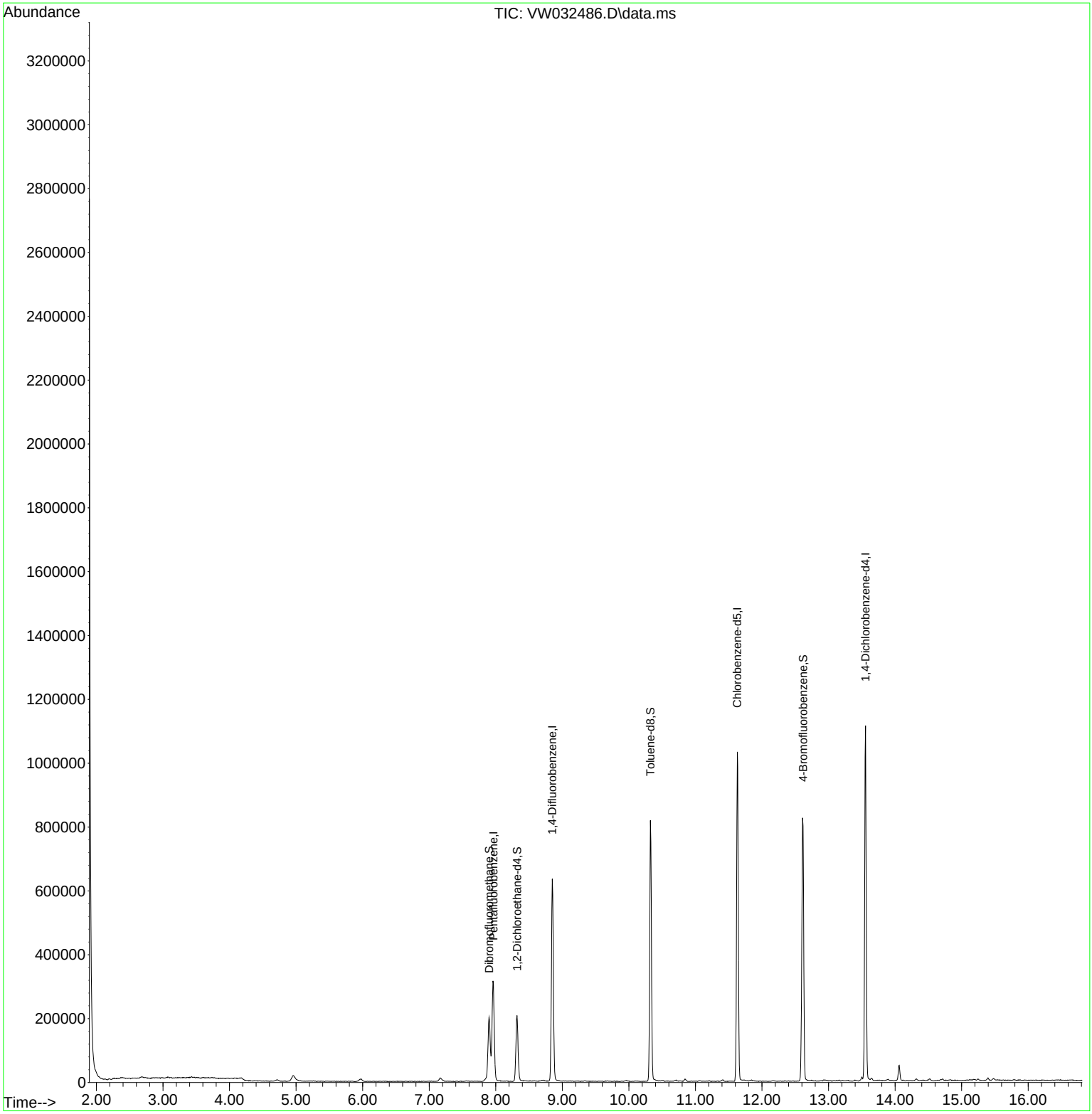
Target Compounds Qvalue

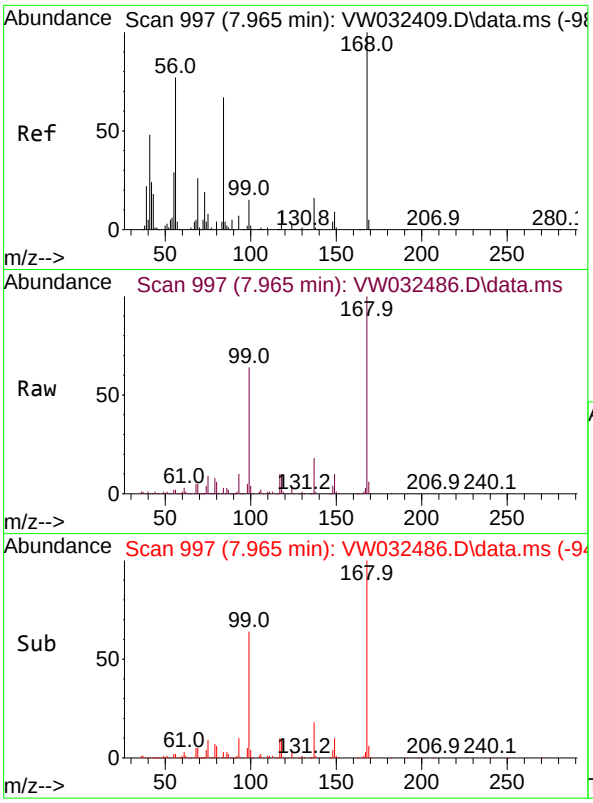
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032486.D
Acq On : 18 Nov 2025 16:58
Operator : SY/MD
Sample : Q3662-03
Misc : 6.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
B1-0.5-1.0-20251117

Quant Time: Nov 19 00:30:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration



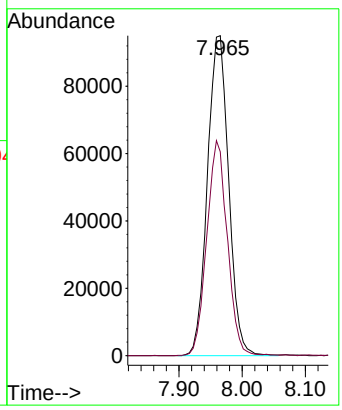


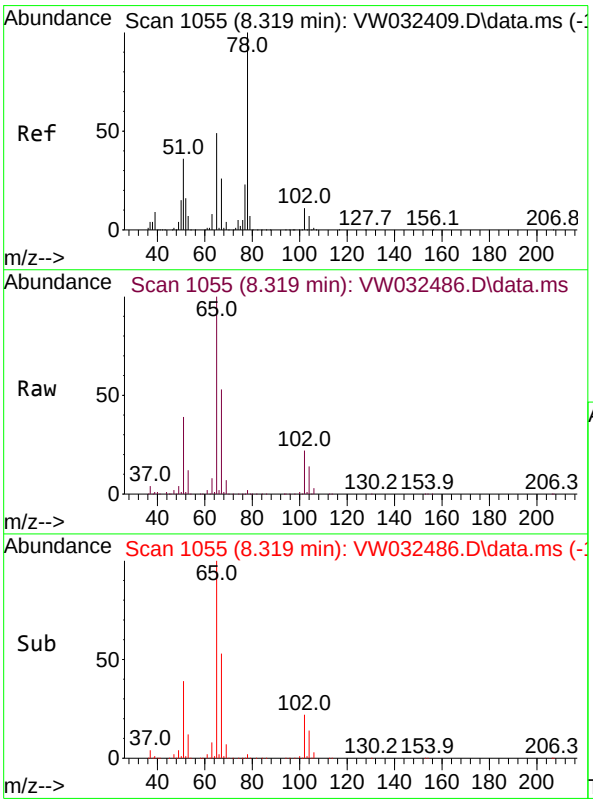

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 99
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

**Instrument :**
MSVOA_W
**ClientSampleId :**
B1-0.5-1.0-20251117

Tgt Ion:168 Resp: 221426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.6 | 45.4 | 68.2 |

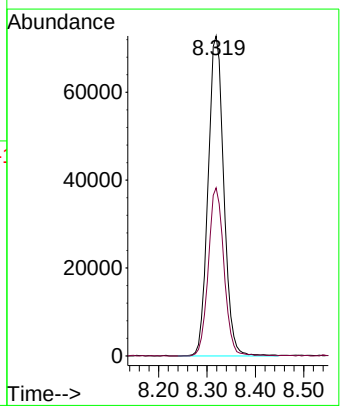


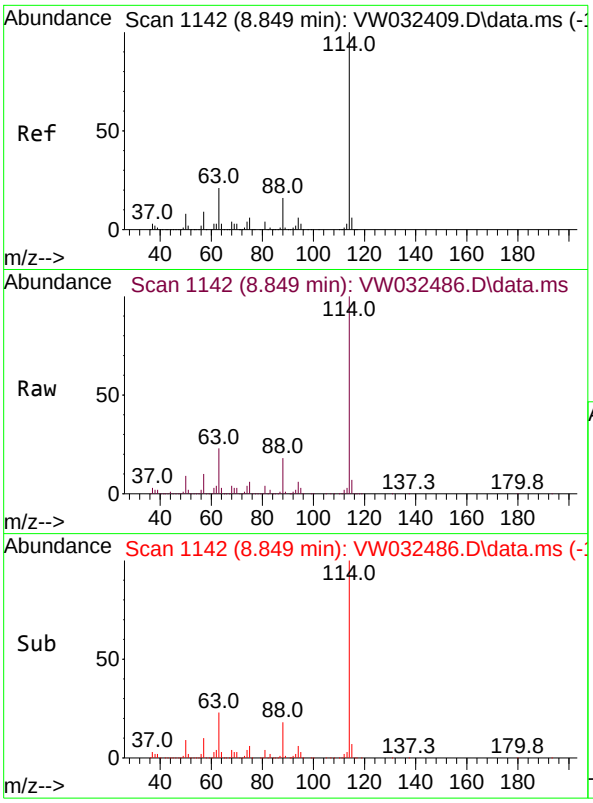




#33
1,2-Dichloroethane-d4
Concen: 57.341 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

Tgt Ion: 65 Resp: 163693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.4 | 0.0 | 106.8 |



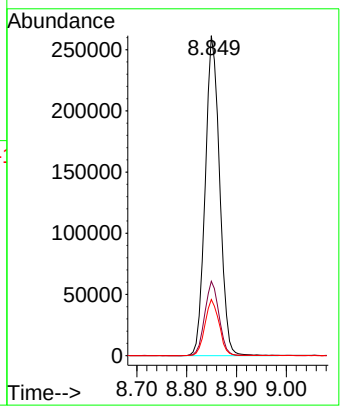


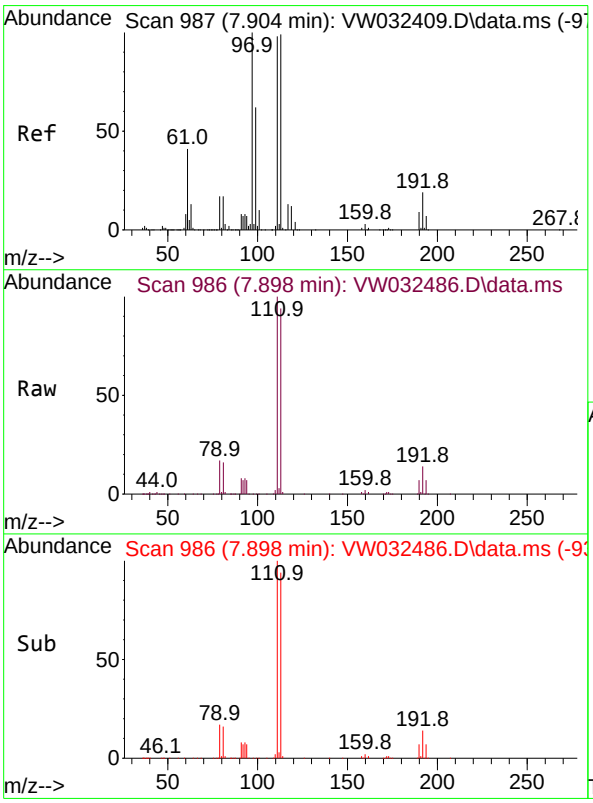

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

**Instrument :**
MSVOA_W
**ClientSampleId :**
B1-0.5-1.0-20251117

Tgt Ion:114 Resp: 523942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.2 | 0.0 | 41.8 |
| 88 | 17.5 | 0.0 | 32.6 |

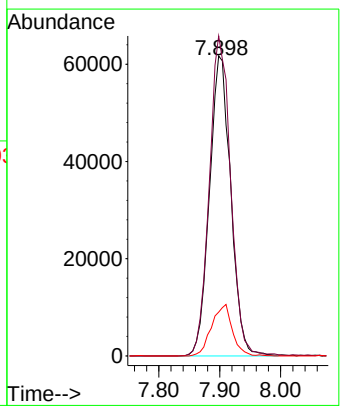


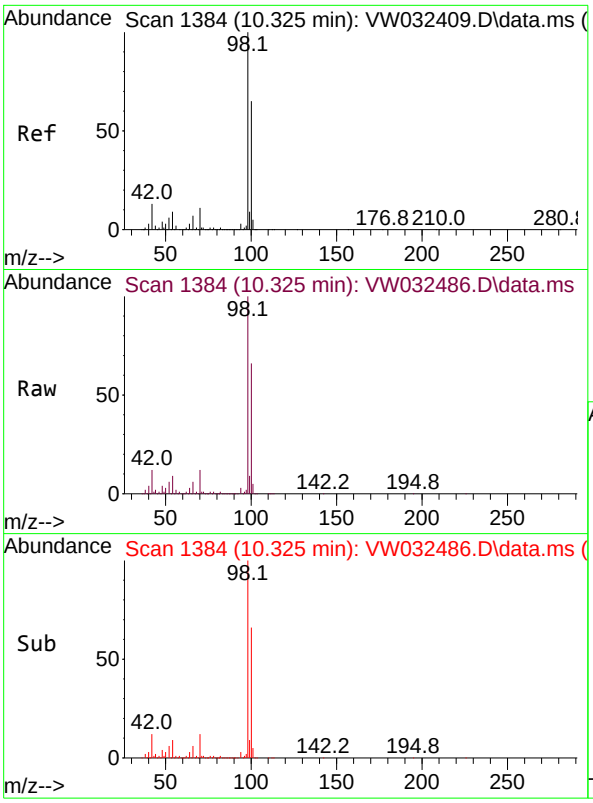




#35
Dibromofluoromethane
Concen: 47.746 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

Tgt Ion:113 Resp: 149778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 107.1 | 83.1 | 124.7 |
| 192 | 16.6 | 13.4 | 20.2 |



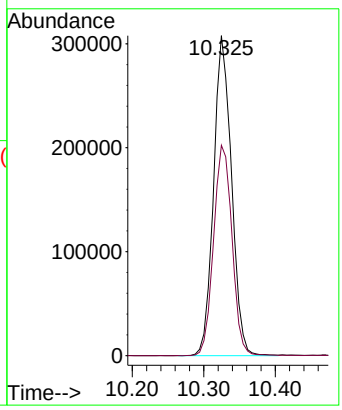


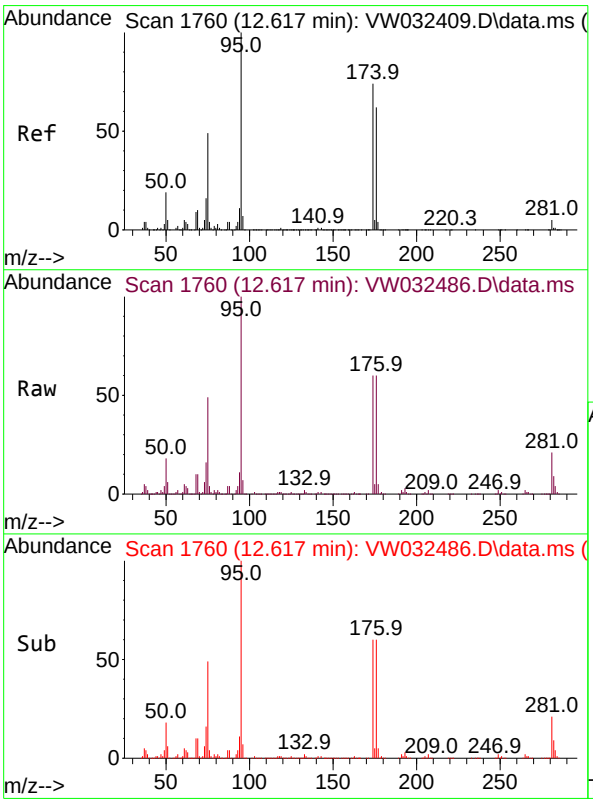

#50
Toluene-d8
Concen: 44.373 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

**Instrument :**
MSVOA_W
**ClientSampleId :**
B1-0.5-1.0-20251117

Tgt Ion: 98 Resp: 534007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 67.8 | 53.3 | 79.9 |

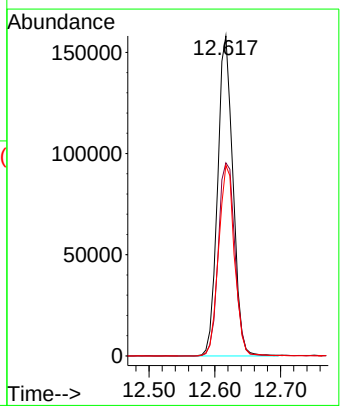


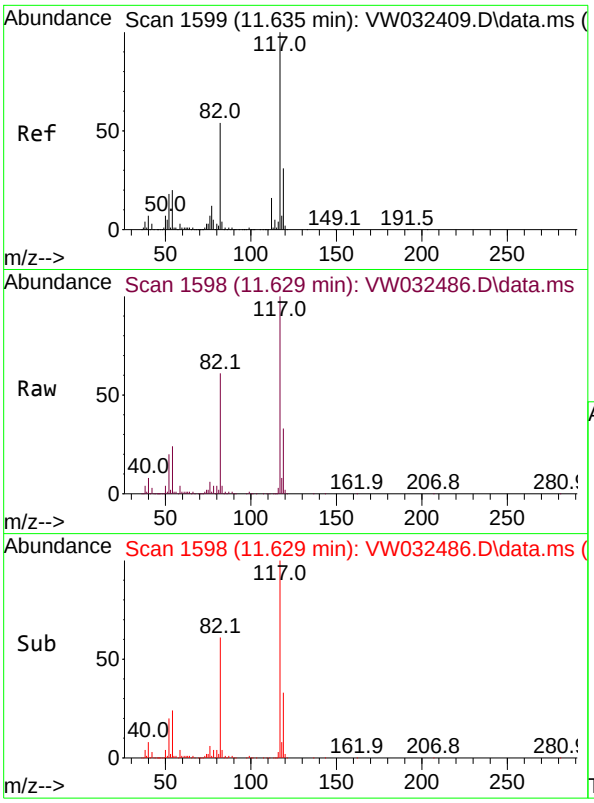




#62
4-Bromofluorobenzene
Concen: 56.135 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

Tgt Ion: 95 Resp: 255198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.0 | 0.0 | 135.4 |
| 176 | 61.6 | 0.0 | 131.8 |



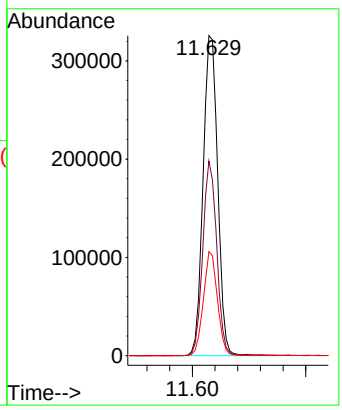


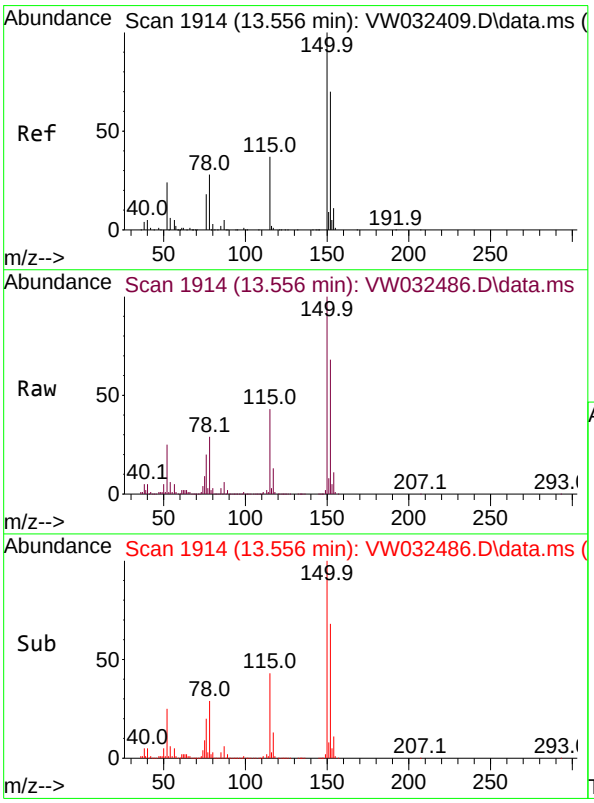

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

**Instrument :**
MSVOA_W
**ClientSampleId :**
B1-0.5-1.0-20251117

Tgt Ion:117 Resp: 582743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 60.8 | 43.0 | 64.4 |
| 119 | 32.5 | 25.0 | 37.6 |

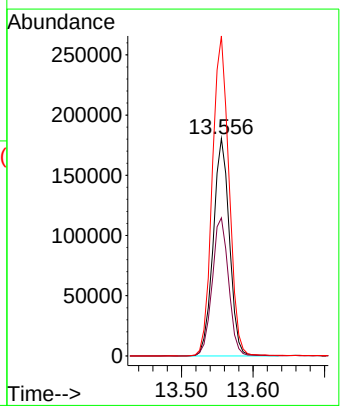



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

Tgt Ion:152 Resp: 283484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.1 | 32.8 | 98.3 |
| 150 | 151.4 | 0.0 | 356.6 |



Sample Results: **VW032486.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032486.D
Acq On : 18 Nov 2025 16:58
Operator : SY/MD
Sample : Q3662-03
Misc : 6.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
B1-0.5-1.0-20251117

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_W\Method\82W111025S.M
Title : SW846 8260

Signal : TIC: VW032486.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.960 | 494 | 504 | 518 | rBV5 | 17297 | 69680 | 3.85% | 0.710% |
| 2 | 7.167 | 858 | 866 | 881 | rVB | 10897 | 34092 | 1.88% | 0.347% |
| 3 | 7.898 | 968 | 986 | 991 | rBV2 | 200772 | 513403 | 28.36% | 5.229% |
| 4 | 7.959 | 991 | 996 | 1008 | rVB | 313407 | 713388 | 39.41% | 7.266% |
| 5 | 8.319 | 1043 | 1055 | 1066 | rBV | 206780 | 473159 | 26.14% | 4.819% |
| 6 | 8.849 | 1132 | 1142 | 1154 | rBV | 634071 | 1279881 | 70.70% | 13.035% |
| 7 | 10.325 | 1376 | 1384 | 1399 | rBV | 817230 | 1460219 | 80.66% | 14.872% |
| 8 | 11.629 | 1590 | 1598 | 1611 | rBV | 1032067 | 1810323 | 100.00% | 18.437% |
| 9 | 12.611 | 1748 | 1759 | 1771 | rBV2 | 824783 | 1621250 | 89.56% | 16.512% |
| 10 | 13.556 | 1907 | 1914 | 1925 | rVB | 1108852 | 1761577 | 97.31% | 17.941% |
| 11 | 14.062 | 1991 | 1997 | 2005 | rVB2 | 47191 | 81740 | 4.52% | 0.832% |

Sum of corrected areas: 9818712

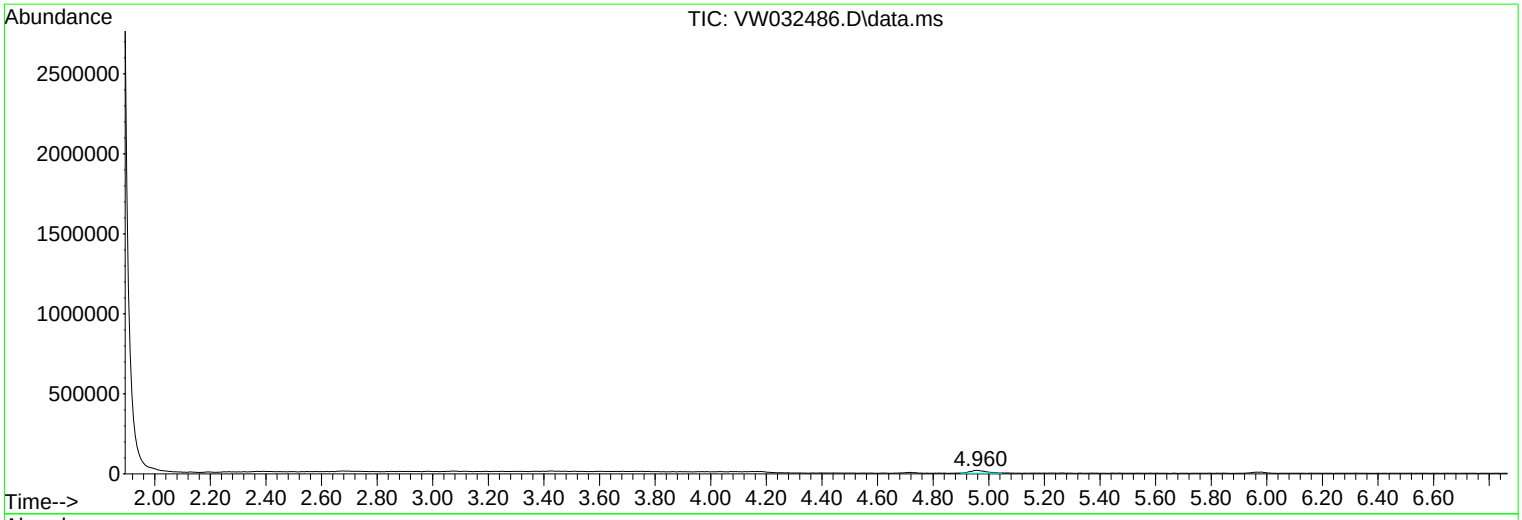
Sample Results: **VW032486.D**

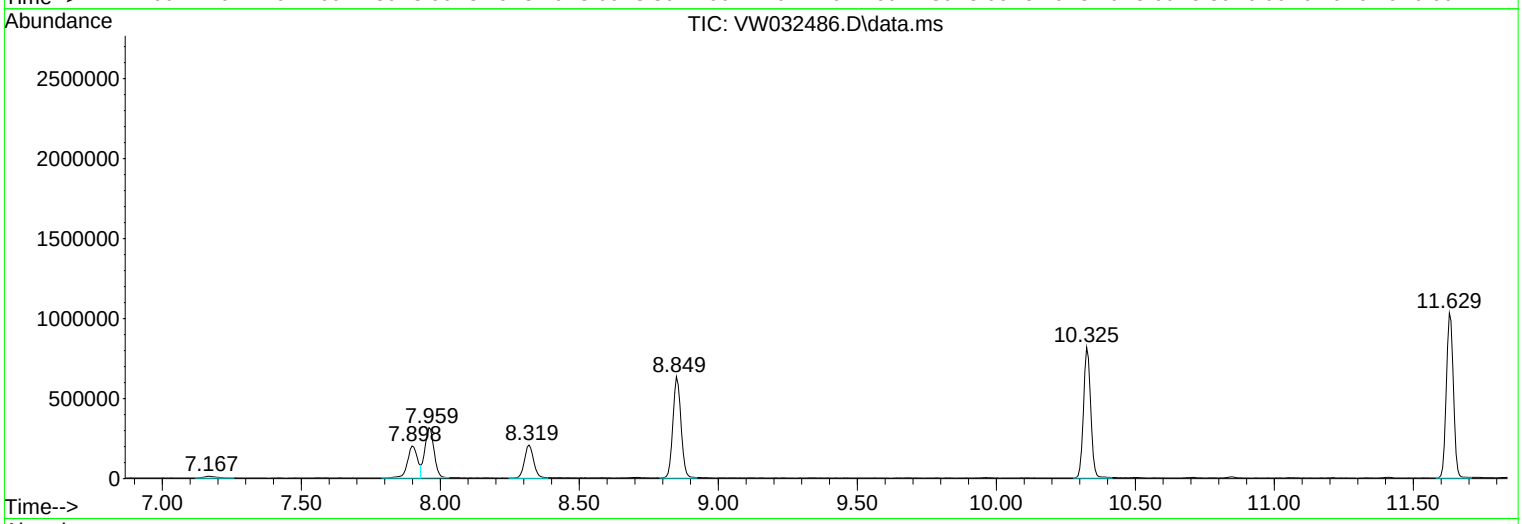
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032486.D
Acq On : 18 Nov 2025 16:58
Operator : SY/MD
Sample : Q3662-03
Misc : 6.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

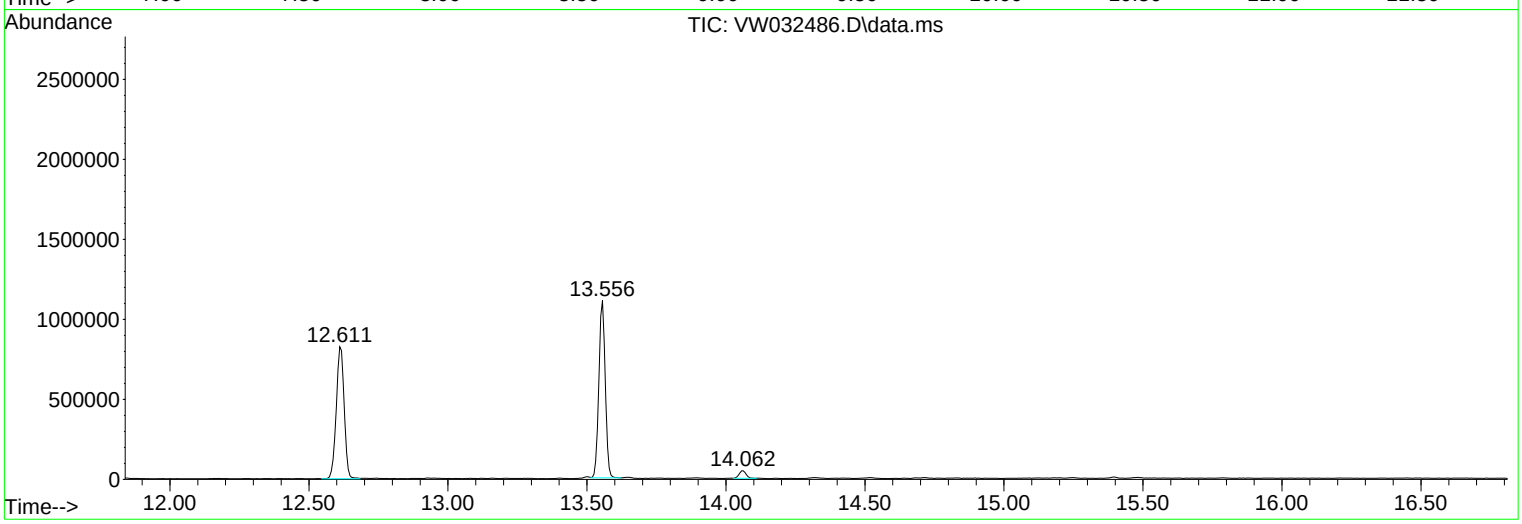
**Instrument :**
MSVOA_W
**ClientSampleId :**
B1-0.5-1.0-20251117

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032486.D
Acq On : 18 Nov 2025 16:58
Operator : SY/MD
Sample : Q3662-03
Misc : 6.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
B1-0.5-1.0-20251117

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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_W\Data\VW111825\
Data File : VW032486.D
Acq On : 18 Nov 2025 16:58
Operator : SY/MD
Sample : Q3662-03
Misc : 6.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
B1-0.5-1.0-20251117

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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_W\Data\VW111825\
Data File : VW032469.D
Acq On : 18 Nov 2025 10:13
Operator : SY/MD
Sample : VW1118SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBL01

Quant Time: Nov 19 00:24:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

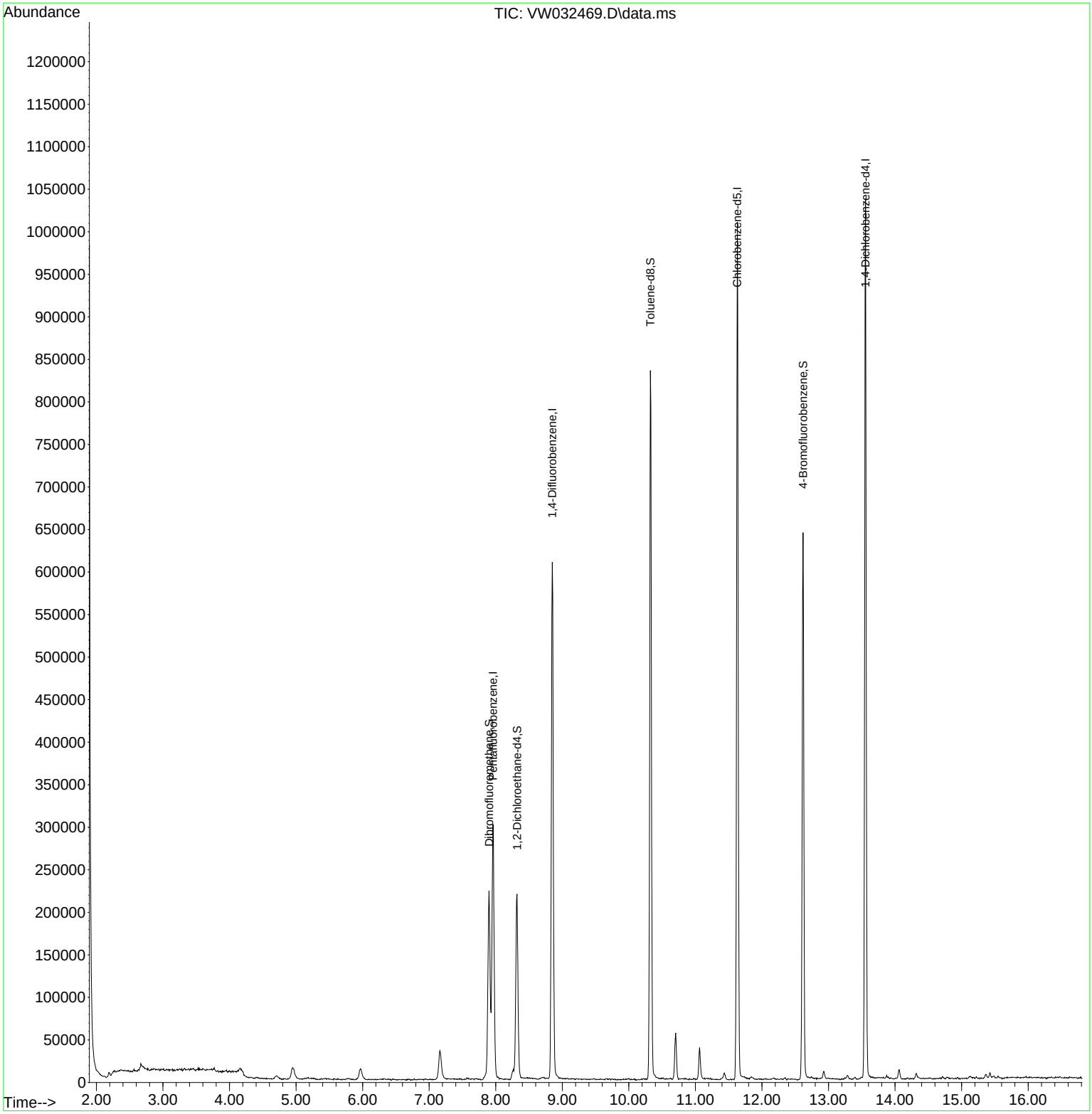
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 212726 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 511741 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 533709 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 261053 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 177417 | 64.691 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 129.380% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 160106 | 52.255 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 104.520% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 557281 | 47.411 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 94.820% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 231076 | 52.041 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 104.080% | | | |
| Target Compounds | | | | | | Qvalue |

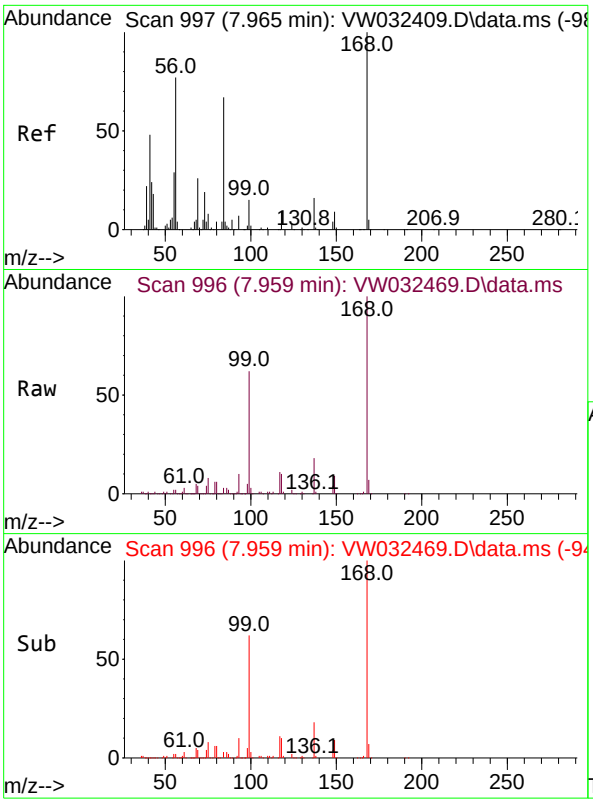
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032469.D
Acq On : 18 Nov 2025 10:13
Operator : SY/MD
Sample : VW1118SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBL01

Quant Time: Nov 19 00:24:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration



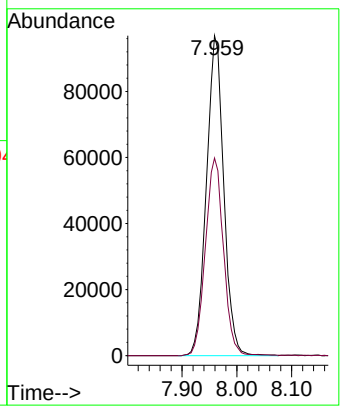


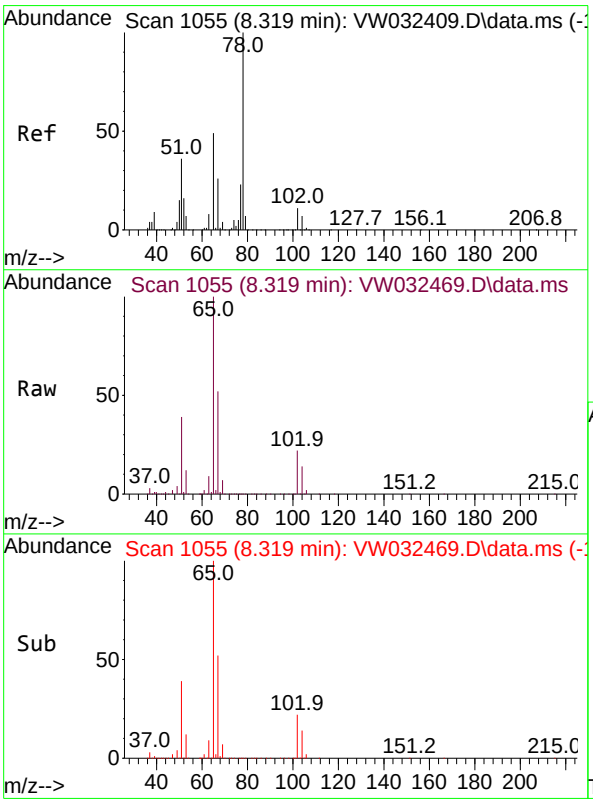

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBL01

Tgt Ion:168 Resp: 212726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.7 | 45.4 | 68.2 |

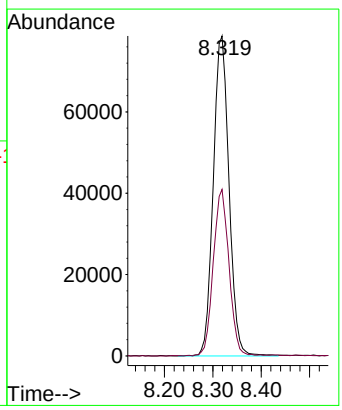


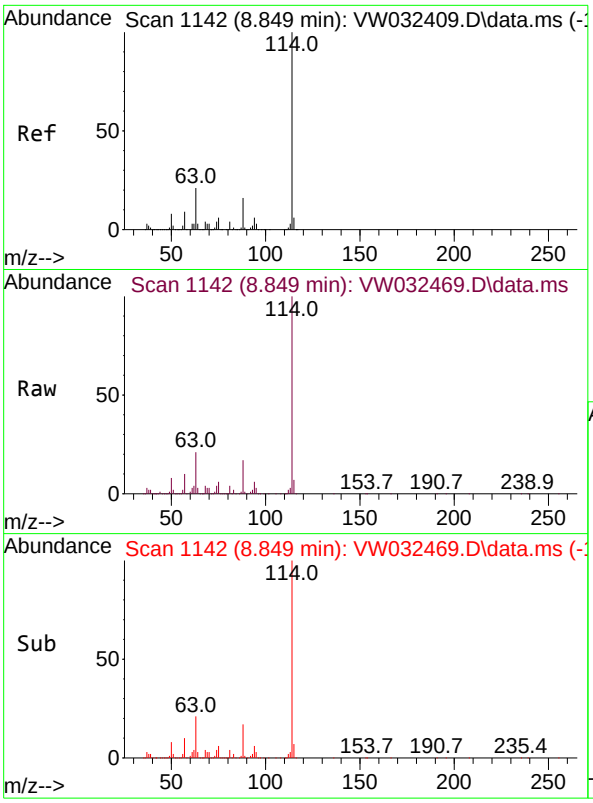




#33
1,2-Dichloroethane-d4
Concen: 64.691 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

Tgt Ion: 65 Resp: 177417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.0 | 0.0 | 106.8 |



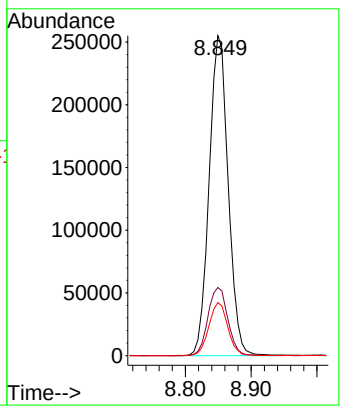


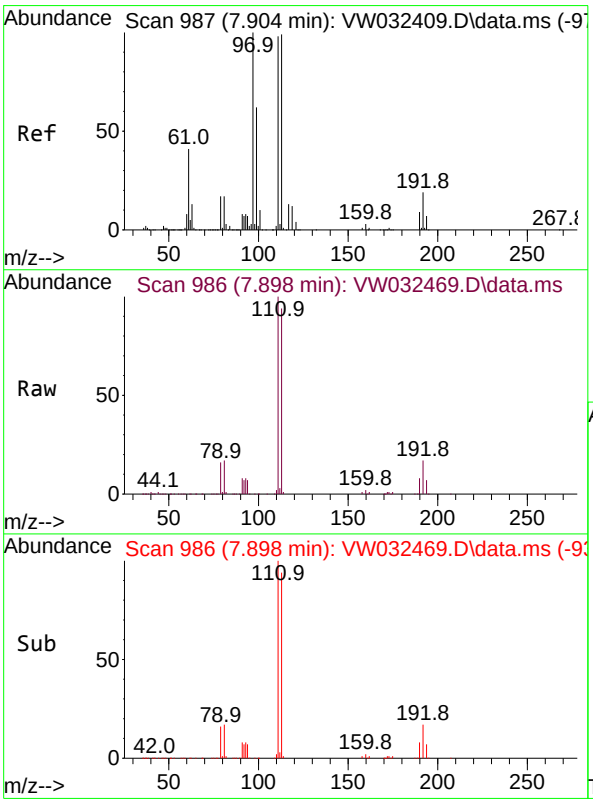

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBL01

Tgt Ion:114 Resp: 511741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.2 | 0.0 | 41.8 |
| 88 | 16.6 | 0.0 | 32.6 |

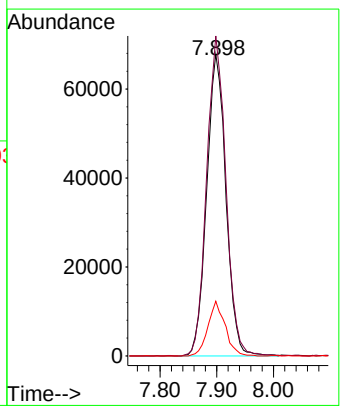


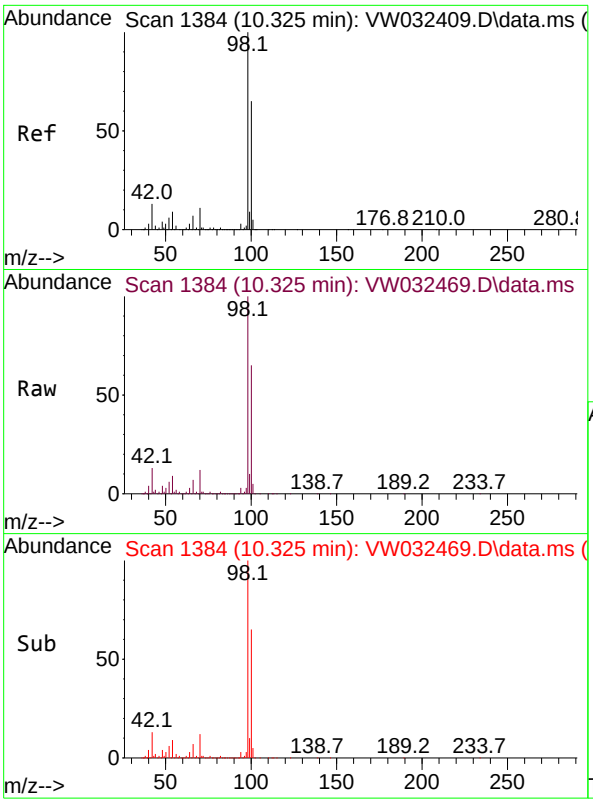




#35
Dibromofluoromethane
Concen: 52.255 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

Tgt Ion:113 Resp: 160106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 106.3 | 83.1 | 124.7 |
| 192 | 16.2 | 13.4 | 20.2 |



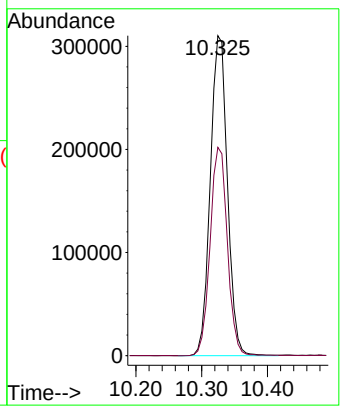


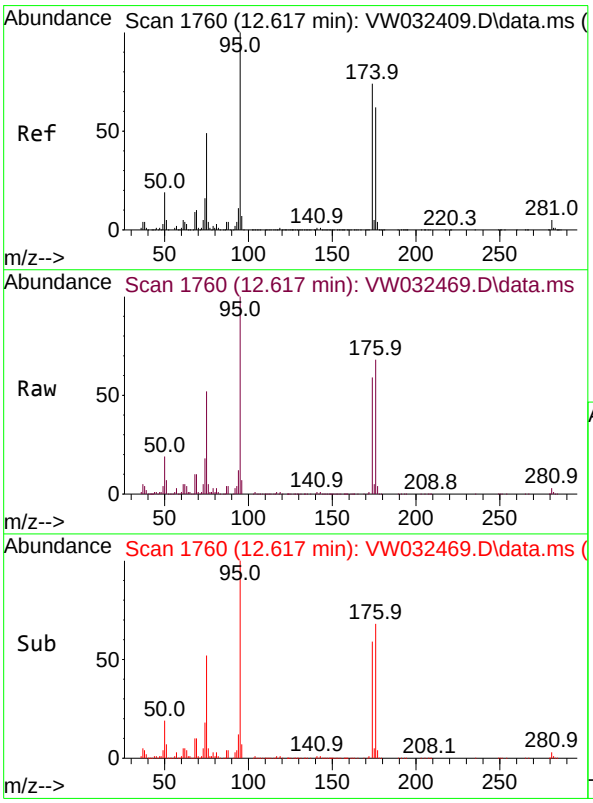

#50
Toluene-d8
Concen: 47.411 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBL01

Tgt Ion: 98 Resp: 557281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.7 | 53.3 | 79.9 |

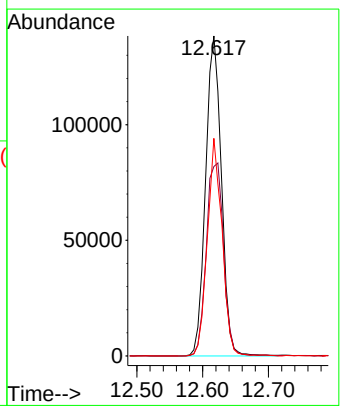


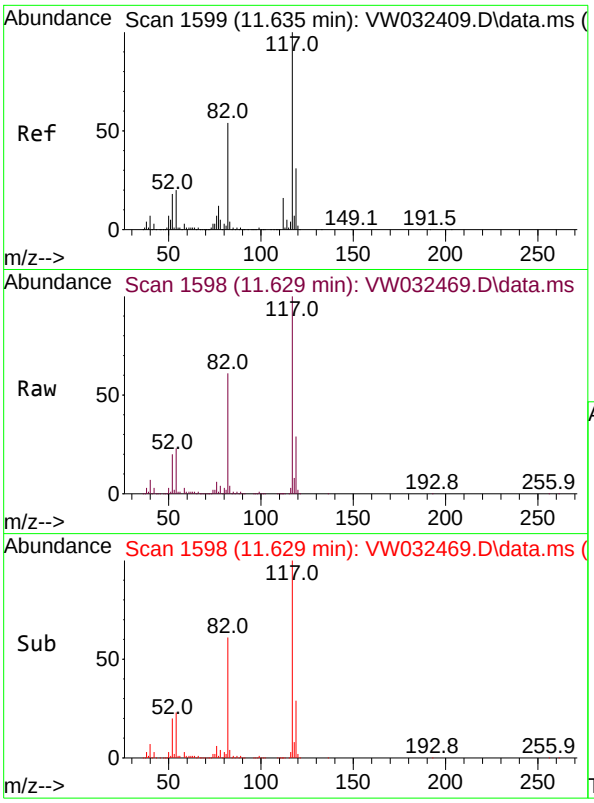




#62
4-Bromofluorobenzene
Concen: 52.041 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

Tgt Ion: 95 Resp: 231076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.9 | 0.0 | 135.4 |
| 176 | 63.2 | 0.0 | 131.8 |



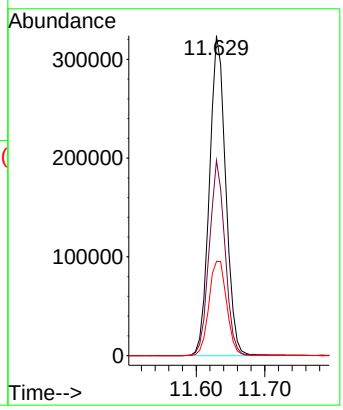


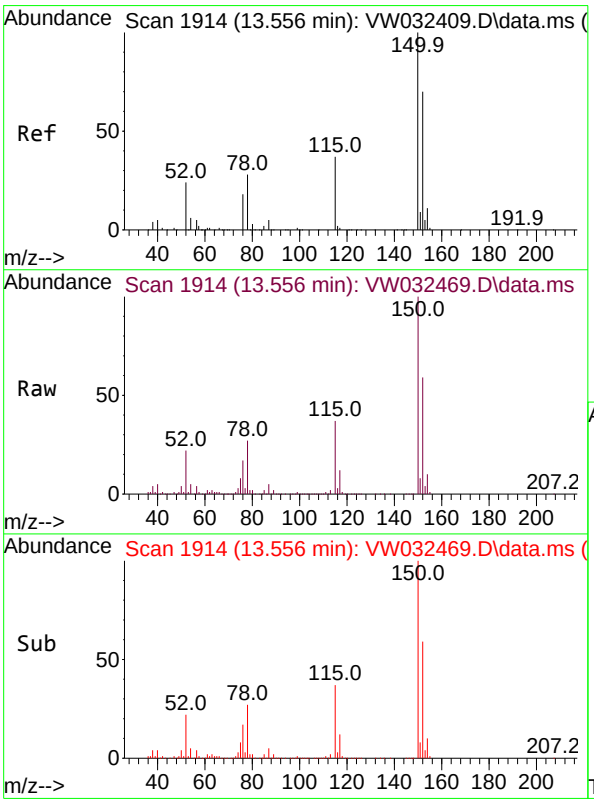

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBL01

Tgt Ion:117 Resp: 533709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 61.1 | 43.0 | 64.4 |
| 119 | 29.4 | 25.0 | 37.6 |

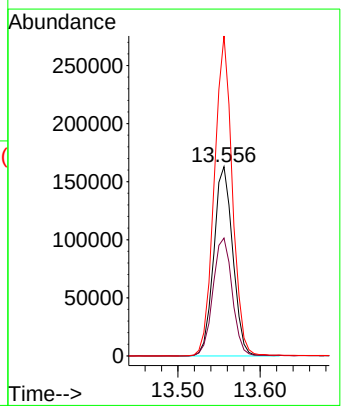



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

Tgt Ion:152 Resp: 261053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 63.2 | 32.8 | 98.3 |
| 150 | 161.2 | 0.0 | 356.6 |



Sample Results: **VW032469.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032469.D
Acq On : 18 Nov 2025 10:13
Operator : SY/MD
Sample : VW1118SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBL01

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_W\Method\82W111025S.M
Title : SW846 8260

Signal : TIC: VW032469.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.161 | 369 | 373 | 391 | rVB4 | 11071 | 43701 | 2.60% | 0.467% |
| 2 | 4.948 | 492 | 502 | 512 | rBV2 | 13471 | 48057 | 2.86% | 0.514% |
| 3 | 5.966 | 660 | 669 | 679 | rBV3 | 12263 | 38239 | 2.28% | 0.409% |
| 4 | 7.161 | 853 | 865 | 881 | rBV | 33826 | 103208 | 6.14% | 1.104% |
| 5 | 7.898 | 967 | 986 | 991 | rBV | 222246 | 544155 | 32.39% | 5.821% |
| 6 | 7.959 | 991 | 996 | 1008 | rVB | 297872 | 664220 | 39.54% | 7.105% |
| 7 | 8.264 | 1038 | 1046 | 1047 | rBV2 | 12295 | 22590 | 1.34% | 0.242% |
| 8 | 8.319 | 1047 | 1055 | 1066 | rVB | 216925 | 495353 | 29.49% | 5.299% |
| 9 | 8.849 | 1132 | 1142 | 1159 | rBV | 607114 | 1235417 | 73.54% | 13.215% |
| 10 | 10.325 | 1376 | 1384 | 1399 | rBV | 833056 | 1503059 | 89.48% | 16.078% |
| 11 | 10.703 | 1437 | 1446 | 1453 | rVB2 | 54698 | 103756 | 6.18% | 1.110% |
| 12 | 11.062 | 1499 | 1505 | 1514 | rBV2 | 37248 | 67476 | 4.02% | 0.722% |
| 13 | 11.434 | 1557 | 1566 | 1575 | rVB4 | 7820 | 18193 | 1.08% | 0.195% |
| 14 | 11.629 | 1590 | 1598 | 1608 | rBV | 1007973 | 1679831 | 100.00% | 17.969% |
| 15 | 12.617 | 1749 | 1760 | 1771 | rBV2 | 643060 | 1098098 | 65.37% | 11.746% |
| 16 | 12.928 | 1803 | 1811 | 1818 | rBV5 | 8586 | 17157 | 1.02% | 0.184% |
| 17 | 13.556 | 1906 | 1914 | 1924 | rBV | 1033242 | 1643799 | 97.86% | 17.583% |
| 18 | 14.062 | 1990 | 1997 | 2004 | rVB | 11268 | 22417 | 1.33% | 0.240% |

Sum of corrected areas: 9348726

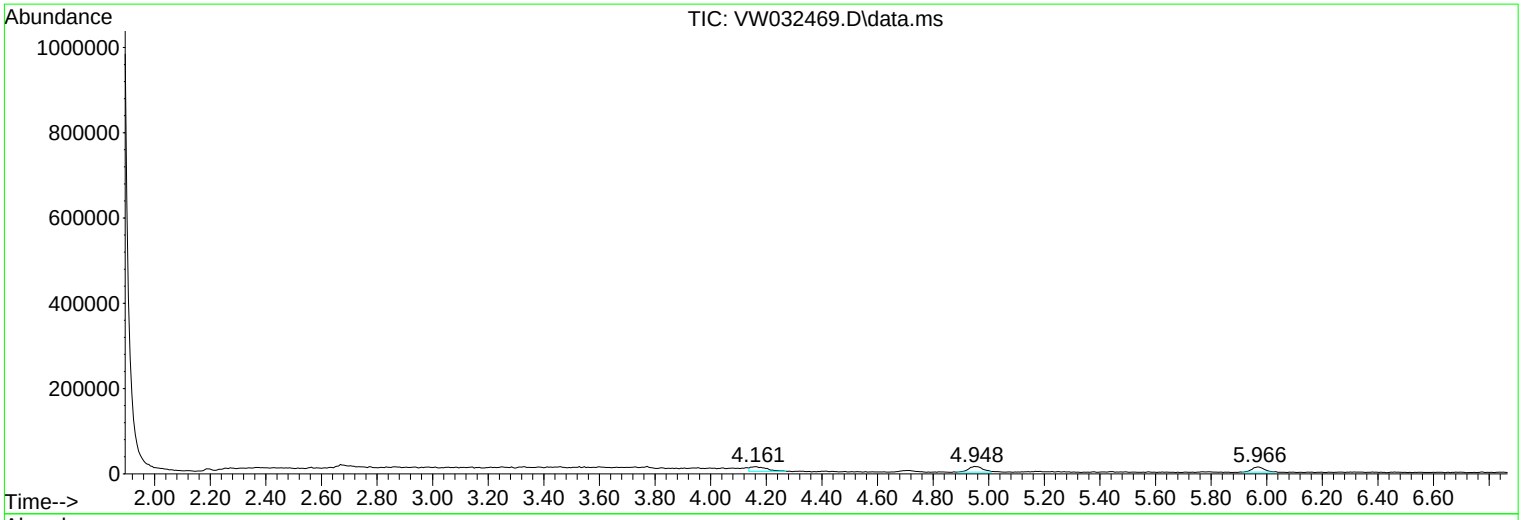
Sample Results: **VW032469.D**

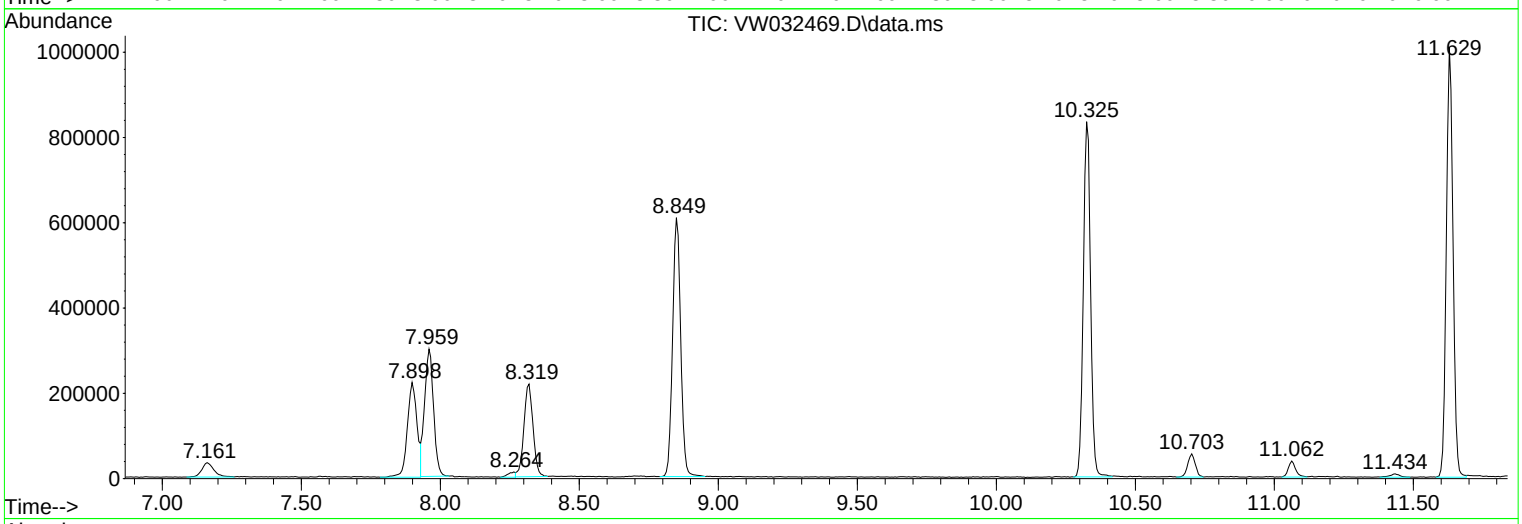
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032469.D
Acq On : 18 Nov 2025 10:13
Operator : SY/MD
Sample : VW1118SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

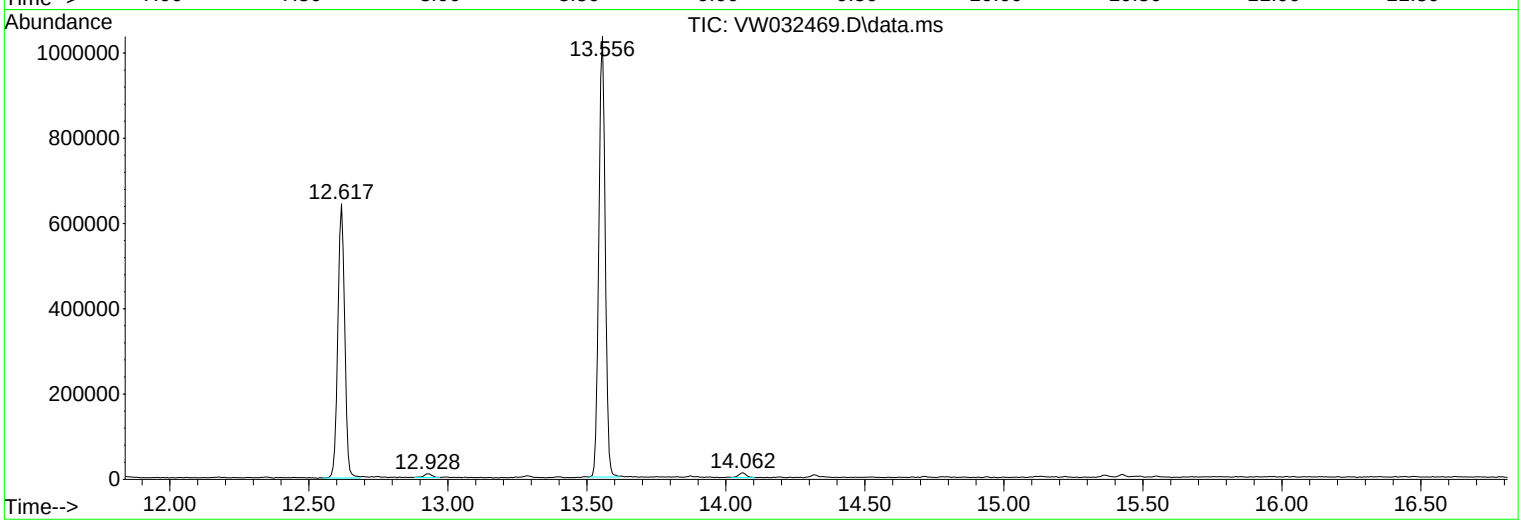
**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VW032469.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032469.D
Acq On : 18 Nov 2025 10:13
Operator : SY/MD
Sample : VW1118SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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_W\Data\VW111825\
Data File : VW032469.D
Acq On : 18 Nov 2025 10:13
Operator : SY/MD
Sample : VW1118SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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_W\Data\VW111825\
Data File : VW032470.D
Acq On : 18 Nov 2025 10:40
Operator : SY/MD
Sample : VW1118SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 00:24:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBS01

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 368383 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 685400 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 608119 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 294055 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 255196 | 53.733 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 107.460% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 213451 | 52.015 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 104.020% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 818872 | 52.015 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 104.040% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 307374 | 51.685 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 103.360% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 38488 | 20.593 | ug/l | 99 |
| 3) Chloromethane | 2.253 | 50 | 71618 | 22.355 | ug/l | 93 |
| 4) Vinyl Chloride | 2.405 | 62 | 89842 | 22.221 | ug/l | 99 |
| 5) Bromomethane | 2.820 | 94 | 58280 | 21.549 | ug/l | 97 |
| 6) Chloroethane | 2.960 | 64 | 56196 | 21.244 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.301 | 101 | 58389 | 18.419 | ug/l | 94 |
| 8) Diethyl Ether | 3.716 | 74 | 55714 | 21.497 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 75306 | 21.808 | ug/l | 98 |
| 10) Methyl Iodide | 4.307 | 142 | 119544 | 21.494 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.210 | 59 | 48334 | 117.694 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 86906 | 21.948 | ug/l | 93 |
| 13) Acrolein | 3.923 | 56 | 64287 | 93.300 | ug/l | 99 |
| 14) Allyl chloride | 4.704 | 41 | 159169 | 20.903 | ug/l | 97 |
| 15) Acrylonitrile | 5.399 | 53 | 160342 | 107.002 | ug/l | 99 |
| 16) Acetone | 4.155 | 43 | 156966 | 110.471 | ug/l | 97 |
| 17) Carbon Disulfide | 4.417 | 76 | 245893 | 21.011 | ug/l | 99 |
| 18) Methyl Acetate | 4.710 | 43 | 70931 | 20.159 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.460 | 73 | 173277 | 20.760 | ug/l | 98 |
| 20) Methylene Chloride | 4.954 | 84 | 122854 | 24.177 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.460 | 96 | 98918 | 21.848 | ug/l | 96 |
| 22) Diisopropyl ether | 6.337 | 45 | 341073 | 22.000 | ug/l | 99 |
| 23) Vinyl Acetate | 6.283 | 43 | 1141803 | 107.495 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 6.240 | 63 | 188427 | 22.184 | ug/l | 99 |
| 25) 2-Butanone | 7.191 | 43 | 215588 | 102.988 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.179 | 77 | 103861 | 21.940 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 7.185 | 96 | 114228 | 21.115 | ug/l | 94 |
| 28) Bromochloromethane | 7.532 | 49 | 91122 | 22.698 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.551 | 42 | 140459 | 105.716 | ug/l | 99 |
| 30) Chloroform | 7.691 | 83 | 187382 | 22.535 | ug/l | 96 |
| 31) Cyclohexane | 7.965 | 56 | 171770 | 21.862 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 129040 | 21.723 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.099 | 75 | 131104 | 21.683 | ug/l | 99 |
| 37) Ethyl Acetate | 7.270 | 43 | 95031 | 21.137 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 116247 | 21.638 | ug/l | 98 |
| 39) Methylcyclohexane | 9.343 | 83 | 161283 | 20.591 | ug/l | 98 |
| 40) Benzene | 8.331 | 78 | 425541 | 21.855 | ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032470.D
Acq On : 18 Nov 2025 10:40
Operator : SY/MD
Sample : VW1118SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 00:24:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBS01

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 52311 | 21.180 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 127207 | 22.242 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.435 | 43 | 165173 | 20.748 | ug/l | | 99 |
| 44) Trichloroethene | 9.099 | 130 | 96297 | 21.254 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 9.373 | 63 | 107029 | 22.075 | ug/l | | 100 |
| 46) Dibromomethane | 9.465 | 93 | 62354 | 22.008 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.648 | 83 | 140779 | 21.783 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.441 | 41 | 73852 | 19.522 | ug/l | | 94 |
| 49) 1,4-Dioxane | 9.471 | 88 | 17446 | 439.555 | ug/l | # | 95 |
| 51) 4-Methyl-2-Pentanone | 10.209 | 43 | 477160 | 108.419 | ug/l | | 98 |
| 52) Toluene | 10.392 | 92 | 259957 | 21.614 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.605 | 75 | 136548 | 20.515 | ug/l | | 96 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 160370 | 20.835 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 82820 | 21.308 | ug/l | | 92 |
| 56) Ethyl methacrylate | 10.648 | 69 | 119127 | 19.976 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 150767 | 21.719 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 342033 | 107.697 | ug/l | | 99 |
| 59) 2-Hexanone | 10.971 | 43 | 328980 | 102.168 | ug/l | | 98 |
| 60) Dibromochloromethane | 11.129 | 129 | 90761 | 20.911 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.233 | 107 | 80832 | 21.353 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.861 | 164 | 78315 | 21.747 | ug/l | | 91 |
| 65) Chlorobenzene | 11.654 | 112 | 283163 | 21.604 | ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 87522 | 21.576 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.727 | 91 | 480261 | 21.176 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.836 | 106 | 370819 | 43.548 | ug/l | | 98 |
| 69) o-Xylene | 12.166 | 106 | 174282 | 21.376 | ug/l | | 96 |
| 70) Styrene | 12.178 | 104 | 303516 | 21.640 | ug/l | | 99 |
| 71) Bromoform | 12.349 | 173 | 48193 | 20.058 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.464 | 105 | 433479 | 20.072 | ug/l | | 100 |
| 74) N-amyl acetate | 12.269 | 43 | 148008 | 19.722 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83 | 108325 | 21.135 | ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 78035m | 19.354 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 108802 | 21.278 | ug/l | | 99 |
| 78) n-propylbenzene | 12.800 | 91 | 561613 | 21.354 | ug/l | | 97 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 334404 | 20.828 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 361865 | 20.310 | ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 33360 | 18.951 | ug/l | | 93 |
| 82) 4-Chlorotoluene | 12.989 | 91 | 350145 | 20.968 | ug/l | | 96 |
| 83) tert-Butylbenzene | 13.202 | 119 | 308467 | 19.902 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 377306 | 20.820 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.379 | 105 | 461376 | 19.988 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 385969 | 20.252 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 205508 | 21.198 | ug/l | | 96 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 206055 | 20.746 | ug/l | | 97 |
| 89) n-Butylbenzene | 13.818 | 91 | 376028 | 20.195 | ug/l | | 98 |
| 90) Hexachloroethane | 14.086 | 117 | 68760 | 20.010 | ug/l | | 93 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 188016 | 21.126 | ug/l | | 95 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.482 | 75 | 16916 | 19.159 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.122 | 180 | 113600 | 20.059 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 47617 | 20.241 | ug/l | | 97 |
| 95) Naphthalene | 15.354 | 128 | 253885 | 17.977 | ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 102712 | 19.976 | ug/l | | 94 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032470.D
Acq On : 18 Nov 2025 10:40
Operator : SY/MD
Sample : VW1118SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 00:24:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBS01

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

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

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

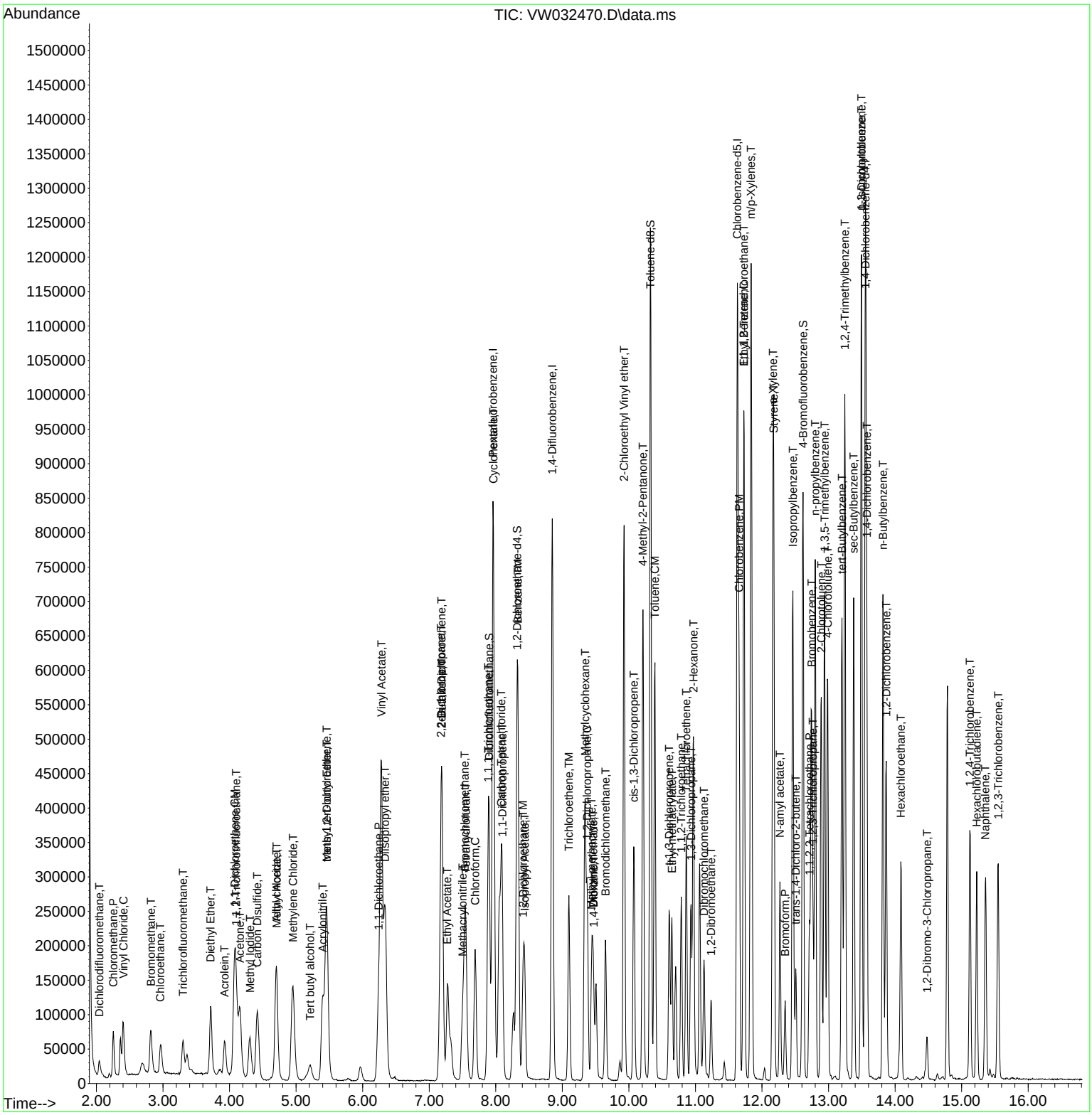
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032470.D
Acq On : 18 Nov 2025 10:40
Operator : SY/MD
Sample : VW1118SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 00:24:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBS01

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032471.D
Acq On : 18 Nov 2025 11:02
Operator : SY/MD
Sample : VW1118SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 00:25:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBSD01

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 367695 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 692034 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 614192 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 277057 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 247225 | 52.152 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 104.300% | | | |
| 35) Dibromofluoromethane | 7.904 | 113 | 209098 | 50.466 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 100.940% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 814032 | 51.212 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 102.420% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 298194 | 49.661 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 99.320% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.040 | 85 | 40835 | 21.889 | ug/l | 94 |
| 3) Chloromethane | 2.253 | 50 | 70404 | 22.017 | ug/l | 99 |
| 4) Vinyl Chloride | 2.405 | 62 | 90715 | 22.479 | ug/l | 95 |
| 5) Bromomethane | 2.820 | 94 | 60053 | 22.246 | ug/l | 97 |
| 6) Chloroethane | 2.966 | 64 | 57168 | 21.652 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.308 | 101 | 70047 | 22.138 | ug/l | 92 |
| 8) Diethyl Ether | 3.716 | 74 | 53653 | 20.741 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 78214 | 22.693 | ug/l | 98 |
| 10) Methyl Iodide | 4.307 | 142 | 117653 | 21.194 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.216 | 59 | 44484 | 108.522 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 88001 | 22.266 | ug/l | 100 |
| 13) Acrolein | 3.929 | 56 | 61188 | 88.969 | ug/l | 98 |
| 14) Allyl chloride | 4.704 | 41 | 164742 | 21.676 | ug/l | 98 |
| 15) Acrylonitrile | 5.405 | 53 | 158572 | 106.019 | ug/l | 98 |
| 16) Acetone | 4.161 | 43 | 148438 | 104.664 | ug/l | 98 |
| 17) Carbon Disulfide | 4.417 | 76 | 251424 | 21.524 | ug/l | 98 |
| 18) Methyl Acetate | 4.710 | 43 | 70239 | 20.000 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.466 | 73 | 172461 | 20.701 | ug/l | 100 |
| 20) Methylene Chloride | 4.954 | 84 | 119594 | 23.580 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.460 | 96 | 99851 | 22.095 | ug/l | 93 |
| 22) Diisopropyl ether | 6.344 | 45 | 347227 | 22.439 | ug/l | 96 |
| 23) Vinyl Acetate | 6.283 | 43 | 1145335 | 108.030 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 6.246 | 63 | 191582 | 22.597 | ug/l | 99 |
| 25) 2-Butanone | 7.191 | 43 | 211255 | 101.107 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 106084 | 22.452 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 116504 | 21.576 | ug/l | 97 |
| 28) Bromochloromethane | 7.532 | 49 | 91167 | 22.751 | ug/l | 95 |
| 29) Tetrahydrofuran | 7.557 | 42 | 140552 | 105.984 | ug/l | 98 |
| 30) Chloroform | 7.697 | 83 | 188461 | 22.707 | ug/l | 98 |
| 31) Cyclohexane | 7.965 | 56 | 172748 | 22.027 | ug/l | 91 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 131999 | 22.263 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.093 | 75 | 136205 | 22.311 | ug/l | 98 |
| 37) Ethyl Acetate | 7.276 | 43 | 95805 | 21.105 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 122018 | 22.494 | ug/l | 89 |
| 39) Methylcyclohexane | 9.343 | 83 | 164638 | 20.818 | ug/l | 91 |
| 40) Benzene | 8.337 | 78 | 428421 | 21.792 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032471.D
Acq On : 18 Nov 2025 11:02
Operator : SY/MD
Sample : VW1118SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 00:25:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBSD01

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 49368 | 19.797 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 126122 | 21.841 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.435 | 43 | 164319 | 20.442 | ug/l | | 99 |
| 44) Trichloroethene | 9.099 | 130 | 97571 | 21.328 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 106607 | 21.777 | ug/l | | 98 |
| 46) Dibromomethane | 9.465 | 93 | 62759 | 21.939 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.654 | 83 | 139764 | 21.418 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.441 | 41 | 73924 | 19.354 | ug/l | | 95 |
| 49) 1,4-Dioxane | 9.465 | 88 | 16943 | 422.790 | ug/l | # | 97 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 469930 | 105.753 | ug/l | | 99 |
| 52) Toluene | 10.392 | 92 | 266368 | 21.935 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.611 | 75 | 137060 | 20.395 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 10.081 | 75 | 161937 | 20.837 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 83014 | 21.154 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.648 | 69 | 118441 | 19.670 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 150752 | 21.508 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 334590 | 104.343 | ug/l | | 100 |
| 59) 2-Hexanone | 10.971 | 43 | 328281 | 100.974 | ug/l | | 97 |
| 60) Dibromochloromethane | 11.136 | 129 | 90803 | 20.720 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 79907 | 20.906 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.861 | 164 | 76983 | 21.166 | ug/l | | 92 |
| 65) Chlorobenzene | 11.654 | 112 | 284215 | 21.470 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.733 | 131 | 85505 | 20.871 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.727 | 91 | 501618 | 21.899 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.837 | 106 | 381526 | 44.363 | ug/l | | 99 |
| 69) o-Xylene | 12.166 | 106 | 174487 | 21.189 | ug/l | | 100 |
| 70) Styrene | 12.178 | 104 | 310384 | 21.911 | ug/l | | 100 |
| 71) Bromoform | 12.343 | 173 | 46921 | 19.336 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.458 | 105 | 440952 | 21.670 | ug/l | | 100 |
| 74) N-amyl acetate | 12.269 | 43 | 149690 | 21.170 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.708 | 83 | 107453 | 22.251 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 76438m | 20.121 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 102986 | 21.376 | ug/l | | 92 |
| 78) n-propylbenzene | 12.800 | 91 | 559230 | 22.568 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 340426 | 22.504 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 374042 | 22.281 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 33213 | 20.025 | ug/l | | 92 |
| 82) 4-Chlorotoluene | 12.989 | 91 | 355073 | 22.568 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.202 | 119 | 315255 | 21.588 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 383766 | 22.476 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.379 | 105 | 481804 | 22.154 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 401289 | 22.347 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 205534 | 22.502 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 202383 | 21.627 | ug/l | | 95 |
| 89) n-Butylbenzene | 13.818 | 91 | 385664 | 21.984 | ug/l | | 98 |
| 90) Hexachloroethane | 14.086 | 117 | 71838 | 22.189 | ug/l | | 96 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 181954 | 21.700 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 16497 | 19.830 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 15.129 | 180 | 106304 | 19.922 | ug/l | | 92 |
| 94) Hexachlorobutadiene | 15.232 | 225 | 45508 | 20.531 | ug/l | | 90 |
| 95) Naphthalene | 15.360 | 128 | 256327 | 19.263 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 99190 | 20.475 | ug/l | | 96 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032471.D
Acq On : 18 Nov 2025 11:02
Operator : SY/MD
Sample : VW1118SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBSD01

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:25:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

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

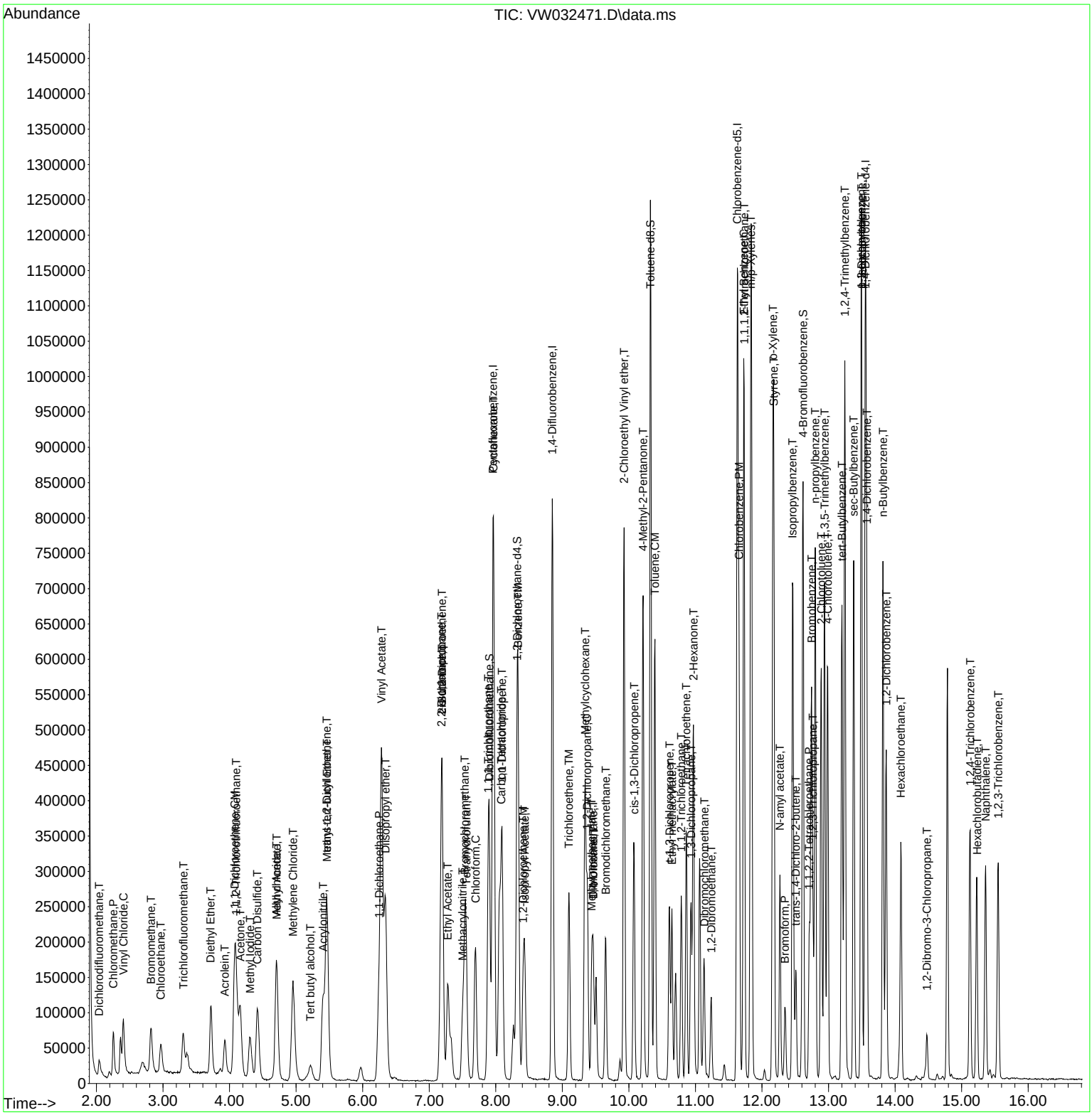
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032471.D
Acq On : 18 Nov 2025 11:02
Operator : SY/MD
Sample : VW1118SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 00:25:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW1118SBSD01

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



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

# Manual Integration Report

| Sequence: | VW111025 | Instrument | MSVOA_w |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC005 | VW032406.D | 1,2,3-Trichloropropane | Amit | 11/11/2025 9:30:31 AM | sam | 11/11/2025 12:29:21 PM | Peak Integrated by Software |
| VSTDICC005 | VW032406.D | Dichlorodifluoromethane | Amit | 11/11/2025 9:30:31 AM | sam | 11/11/2025 12:29:21 PM | Peak Integrated by Software |
| VSTDICC010 | VW032407.D | 1,2,3-Trichloropropane | Amit | 11/11/2025 9:30:35 AM | sam | 11/11/2025 12:29:25 PM | Peak Integrated by Software |
| VSTDICC010 | VW032407.D | Dichlorodifluoromethane | Amit | 11/11/2025 9:30:35 AM | sam | 11/11/2025 12:29:25 PM | Peak Integrated by Software |
| VSTDICC020 | VW032408.D | 1,2,3-Trichloropropane | Amit | 11/11/2025 9:30:39 AM | sam | 11/11/2025 12:30:15 PM | Peak Integrated by Software |
| VSTDICCC050 | VW032409.D | 1,2,3-Trichloropropane | Amit | 11/11/2025 9:30:43 AM | sam | 11/11/2025 12:29:38 PM | Peak Integrated by Software |
| VSTDICC100 | VW032410.D | 1,2,3-Trichloropropane | Amit | 11/11/2025 9:30:48 AM | sam | 11/11/2025 12:30:21 PM | Peak Integrated by Software |
| VSTDICC150 | VW032411.D | 1,2,3-Trichloropropane | Amit | 11/11/2025 9:30:52 AM | sam | 11/11/2025 12:29:30 PM | Peak Integrated by Software |
| VSTDICV050 | VW032413.D | 1,2,3-Trichloropropane | Amit | 11/11/2025 9:30:57 AM | sam | 11/11/2025 12:29:34 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VW111825 | Instrument | MSVOA_w |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VW032468.D | 1,2,3-Trichloropropane | Amit | 11/19/2025 10:30:14 AM | MMDadoda | 11/19/2025 11:20:14 AM | Peak Integrated by Software |
| VW1118SBS01 | VW032470.D | 1,2,3-Trichloropropane | Amit | 11/19/2025 10:30:18 AM | MMDadoda | 11/19/2025 11:20:17 AM | Peak Integrated by Software |
| VW1118SBSD01 | VW032471.D | 1,2,3-Trichloropropane | Amit | 11/19/2025 10:30:23 AM | MMDadoda | 11/19/2025 11:20:20 AM | Peak Integrated by Software |
| VSTDCCC050 | VW032488.D | 1,2,3-Trichloropropane | Amit | 11/19/2025 10:30:27 AM | MMDadoda | 11/19/2025 11:20:25 AM | Peak Integrated by Software |

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Fax : 908 789 8922

**Instrument ID: MSVOA_W**

## Daily Analysis Runlog For Sequence/QCBatch ID # VW111025

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Amit Patel | Review On | 11/11/2025 7:21:42 AM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 11/17/2025 1:37:22 PM | | | | |
| SubDirectory | VW111025 | HP Acquire Method | VP134934 | HP Processing Method | 82w111025s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136122 |
| Initial Calibration Stds | VP136123,VP136124,VP136125,VP136126,VP136127,VP136128 |
| CCC | |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | VP136129 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VW032405.D | 10 Nov 2025 14:20 | SY/MD | Ok |
| 2 | VSTDICC005 | VW032406.D | 10 Nov 2025 15:11 | SY/MD | Ok,M |
| 3 | VSTDICC010 | VW032407.D | 10 Nov 2025 15:33 | SY/MD | Ok,M |
| 4 | VSTDICC020 | VW032408.D | 10 Nov 2025 15:55 | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VW032409.D | 10 Nov 2025 16:17 | SY/MD | Ok,M |
| 6 | VSTDICC100 | VW032410.D | 10 Nov 2025 16:39 | SY/MD | Ok,M |
| 7 | VSTDICC150 | VW032411.D | 10 Nov 2025 17:00 | SY/MD | Ok,M |
| 8 | VIBLK | VW032412.D | 10 Nov 2025 17:22 | SY/MD | Ok |
| 9 | VSTDICV050 | VW032413.D | 10 Nov 2025 17:44 | SY/MD | Ok,M |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID: MSVOA_W**

## Daily Analysis Runlog For Sequence/QCBatch ID # VW111825

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Amit Patel | Review On | 11/19/2025 10:30:41 AM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 11/19/2025 11:20:35 AM | | | | |
| SubDirectory | VW111825 | HP Acquire Method | MSVOA_W | | HP Processing Method | 82w111025s.m | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136296 |
| Initial Calibration Stds | |
| CCC | VP136299,VP136300 |
| Internal Standard/PEM | VP136146 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VW032467.D | 18 Nov 2025 09:15 | SY/MD | Ok |
| 2 | VSTDCCC050 | VW032468.D | 18 Nov 2025 09:46 | SY/MD | Ok,M |
| 3 | VW1118SBL01 | VW032469.D | 18 Nov 2025 10:13 | SY/MD | Ok |
| 4 | VW1118SBS01 | VW032470.D | 18 Nov 2025 10:40 | SY/MD | Ok,M |
| 5 | VW1118SBSD01 | VW032471.D | 18 Nov 2025 11:02 | SY/MD | Ok,M |
| 6 | Q3658-01 | VW032472.D | 18 Nov 2025 11:50 | SY/MD | Ok |
| 7 | Q3656-01 | VW032473.D | 18 Nov 2025 12:12 | SY/MD | Ok |
| 8 | Q3633-05 | VW032474.D | 18 Nov 2025 12:34 | SY/MD | Ok |
| 9 | Q3641-01RE | VW032475.D | 18 Nov 2025 12:56 | SY/MD | Confirms |
| 10 | Q3638-01 | VW032476.D | 18 Nov 2025 13:18 | SY/MD | Ok |
| 11 | Q3638-03 | VW032477.D | 18 Nov 2025 13:40 | SY/MD | Ok |
| 12 | Q3640-03 | VW032478.D | 18 Nov 2025 14:02 | SY/MD | Ok |
| 13 | Q3661-02 | VW032479.D | 18 Nov 2025 14:24 | SY/MD | ReRun |
| 14 | Q3652-03 | VW032480.D | 18 Nov 2025 14:46 | SY/MD | Ok |
| 15 | Q3649-02 | VW032481.D | 18 Nov 2025 15:08 | SY/MD | ReRun |
| 16 | Q3649-04 | VW032482.D | 18 Nov 2025 15:30 | SY/MD | ReRun |
| 17 | Q3649-05 | VW032483.D | 18 Nov 2025 15:52 | SY/MD | Ok |
| 18 | Q3649-09 | VW032484.D | 18 Nov 2025 16:14 | SY/MD | Ok |
| 19 | Q3662-01 | VW032485.D | 18 Nov 2025 16:36 | SY/MD | Ok |
| 20 | Q3662-03 | VW032486.D | 18 Nov 2025 16:58 | SY/MD | Ok |
| 21 | VIBLK | VW032487.D | 18 Nov 2025 17:20 | SY/MD | Ok |

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**Instrument ID: MSVOA_W**

## Daily Analysis Runlog For Sequence/QCBatch ID # VW111825

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Amit Patel | Review On | 11/19/2025 10:30:41 AM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 11/19/2025 11:20:35 AM | | | | |
| SubDirectory | VW111825 | HP Acquire Method | MSVOA_W | HP Processing Method | 82w111025s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136296 |
| Initial Calibration Stds | |
| CCC | VP136299,VP136300 |
| Internal Standard/PEM | VP136146 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | VSTDCCC050 | VW032488.D | 18 Nov 2025 17:43 | SY/MD | Ok,M |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID:** MSVOA_W

## Daily Analysis Runlog For Sequence/QCBatch ID # VW111025

| | | | | | |
|---|---|---|---|---|---|
| Review By | Amit Patel | Review On | 11/11/2025 7:21:42 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 11/17/2025 1:37:22 PM | | |
| SubDirectory | VW111025 | HP Acquire Method | VP134934 | HP Processing Method | 82w111025s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136122 |
| Initial Calibration Stds | VP136123,VP136124,VP136125,VP136126,VP136127,VP136128 |
| CCC | |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | VP136129 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VW032405.D | 10 Nov 2025 14:20 | | SY/MD | Ok |
| 2 | VSTDICC005 | VSTDICC005 | VW032406.D | 10 Nov 2025 15:11 | | SY/MD | Ok,M |
| 3 | VSTDICC010 | VSTDICC010 | VW032407.D | 10 Nov 2025 15:33 | | SY/MD | Ok,M |
| 4 | VSTDICC020 | VSTDICC020 | VW032408.D | 10 Nov 2025 15:55 | | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VW032409.D | 10 Nov 2025 16:17 | | SY/MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VW032410.D | 10 Nov 2025 16:39 | | SY/MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VW032411.D | 10 Nov 2025 17:00 | | SY/MD | Ok,M |
| 8 | VIBLK | VIBLK | VW032412.D | 10 Nov 2025 17:22 | | SY/MD | Ok |
| 9 | VSTDICV050 | ICVVW111025 | VW032413.D | 10 Nov 2025 17:44 | | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID:** MSVOA_W

## Daily Analysis Runlog For Sequence/QCBatch ID # VW111825

| | | | | | |
|---|---|---|---|---|---|
| Review By | Amit Patel | Review On | 11/19/2025 10:30:41 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 11/19/2025 11:20:35 AM | | |
| SubDirectory | VW111825 | HP Acquire Method | MSVOA_W | HP Processing Method | 82w111025s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136296 |
| Initial Calibration Stds | |
| CCC | VP136299,VP136300 |
| Internal Standard/PEM | VP136146 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VW032467.D | 18 Nov 2025 09:15 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VW032468.D | 18 Nov 2025 09:46 | | SY/MD | Ok,M |
| 3 | VW1118SBL01 | VW1118SBL01 | VW032469.D | 18 Nov 2025 10:13 | | SY/MD | Ok |
| 4 | VW1118SBS01 | VW1118SBS01 | VW032470.D | 18 Nov 2025 10:40 | | SY/MD | Ok,M |
| 5 | VW1118SBSD01 | VW1118SBSD01 | VW032471.D | 18 Nov 2025 11:02 | | SY/MD | Ok,M |
| 6 | Q3658-01 | NB-07-111725 | VW032472.D | 18 Nov 2025 11:50 | vial-A | SY/MD | Ok |
| 7 | Q3656-01 | T2-GRAVEL | VW032473.D | 18 Nov 2025 12:12 | vial-A | SY/MD | Ok |
| 8 | Q3633-05 | ETGI-368 | VW032474.D | 18 Nov 2025 12:34 | vial-B | SY/MD | Ok |
| 9 | Q3641-01RE | TR-05-111325RE | VW032475.D | 18 Nov 2025 12:56 | vial-B Surrogate Fail | SY/MD | Confirms |
| 10 | Q3638-01 | MOO-25-0327 | VW032476.D | 18 Nov 2025 13:18 | vial-A | SY/MD | Ok |
| 11 | Q3638-03 | MOO-25-0328 | VW032477.D | 18 Nov 2025 13:40 | vial-A | SY/MD | Ok |
| 12 | Q3640-03 | LAW-25-0182 | VW032478.D | 18 Nov 2025 14:02 | vial-A | SY/MD | Ok |
| 13 | Q3661-02 | VOC | VW032479.D | 18 Nov 2025 14:24 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 14 | Q3652-03 | TP-1-VOC | VW032480.D | 18 Nov 2025 14:46 | vial-A | SY/MD | Ok |
| 15 | Q3649-02 | B5-0.5-1.0-20251114 | VW032481.D | 18 Nov 2025 15:08 | vial-A Surrogate Fail | SY/MD | ReRun |
| 16 | Q3649-04 | DUPE-0.5-1.0-2025111 | VW032482.D | 18 Nov 2025 15:30 | vial-A Surrogate Fail | SY/MD | ReRun |
| 17 | Q3649-05 | B4-0.05-1.0-20251114 | VW032483.D | 18 Nov 2025 15:52 | vial-A | SY/MD | Ok |
| 18 | Q3649-09 | B3-0.5-1.0-20251114 | VW032484.D | 18 Nov 2025 16:14 | vial-A | SY/MD | Ok |

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Fax : 908 789 8922

**Instrument ID:** MSVOA_W

## Daily Analysis Runlog For Sequence/QCBatch ID # VW111825

| | | | | | |
|---|---|---|---|---|---|
| Review By | Amit Patel | Review On | 11/19/2025 10:30:41 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 11/19/2025 11:20:35 AM | | |
| SubDirectory | VW111825 | HP Acquire Method | MSVOA_W | HP Processing Method | 82w111025s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136296 |
| Initial Calibration Stds | |
| CCC | VP136299,VP136300 |
| Internal Standard/PEM | VP136146 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3662-01 | B3-0.5-1.0-20251117 | VW032485.D | 18 Nov 2025 16:36 | vial-A | SY/MD | Ok |
| 20 | Q3662-03 | B1-0.5-1.0-20251117 | VW032486.D | 18 Nov 2025 16:58 | vial-A | SY/MD | Ok |
| 21 | VIBLK | VIBLK | VW032487.D | 18 Nov 2025 17:20 | | SY/MD | Ok |
| 22 | VSTDCCC050 | VSTDCCC050EC | VW032488.D | 18 Nov 2025 17:43 | | SY/MD | Ok,M |

M : Manual Integration

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q3662 | **OrderDate:** | 11/18/2025 11:14:00 AM |
| **Client:** | HDR, Inc. | **Project:** | PVWC Linear Construction |
| **Contact:** | Andrew Wadden | **Location:** | D41,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q3662-01** | **B3-0.5-1.0-20251117** | **SOIL** | | | **11/17/25** | | | **11/18/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/18/25 | |
| **Q3662-03** | **B1-0.5-1.0-20251117** | **SOIL** | | | **11/17/25** | | | **11/18/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/18/25 | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3662

**Client:** HDR, Inc.

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID :** | **B3-0.0-1.0-20251117** | | | | | | | | |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Phenanthrene | | 94.700 | J | 24.6 | 200 | ug/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Fluoranthene | | 270.000 | | 35.3 | 200 | ug/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Pyrene | | 190.000 | J | 42.4 | 200 | ug/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Benzo(a)anthracene | | 120.000 | J | 27.1 | 200 | ug/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Chrysene | | 120.000 | J | 23.4 | 200 | ug/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Benzo(b)fluoranthene | | 170.000 | J | 22.4 | 200 | ug/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Benzo(a)pyrene | | 130.000 | J | 34.8 | 200 | ug/Kg |
| | | | **Total Svoc :** | | **1,094.70** | | | | |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Heneicosane | * | 250.000 | J | 0 | 0 | ug/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Hexacosyl trifluoroacetate | * | 170.000 | J | 0 | 0 | ug/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | n-Hexadecanoic acid | * | 390.000 | J | 0 | 0 | ug/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Benzophenone | * | 260.000 | J | 0 | 0 | ug/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Dodecanoic acid | * | 82.900 | J | 0 | 0 | ug/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Eicosane | * | 220.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **1,372.90** | | | | |
| | | | **Total Concentration:** | | **2,467.60** | | | | |
| **Client ID :** | **B1-0.0-1.0-20251117** | | | | | | | | |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Acenaphthylene | | 130.000 | J | 32.8 | 190 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Phenanthrene | | 540.000 | | 23.7 | 190 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Anthracene | | 97.500 | J | 37.8 | 190 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Fluoranthene | | 1,200.000 | | 34 | 190 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Pyrene | | 840.000 | | 40.8 | 190 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Benzo(a)anthracene | | 530.000 | | 26.1 | 190 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Chrysene | | 610.000 | | 22.6 | 190 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Benzo(b)fluoranthene | | 840.000 | | 21.6 | 190 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Benzo(k)fluoranthene | | 330.000 | | 25.4 | 190 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Benzo(a)pyrene | | 600.000 | | 33.5 | 190 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Indeno(1,2,3-cd)pyrene | | 240.000 | | 33 | 190 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Dibenzo(a,h)anthracene | | 77.800 | J | 31.1 | 190 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Benzo(g,h,i)perylene | | 310.000 | | 29.2 | 190 | ug/Kg |
| | | | **Total Svoc :** | | **6,345.30** | | | | |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | 11H-Benzo[b]fluorene | * | 150.000 | J | 0 | 0 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | 3,4-Dimethylphenanthrene | * | 83.900 | J | 0 | 0 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | 9,10-Anthracenedione | * | 120.000 | J | 0 | 0 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | 9,10-Dimethylanthracene | * | 210.000 | J | 0 | 0 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Benzo[e]pyrene | * | 470.000 | J | 0 | 0 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Benzophenone | * | 190.000 | J | 0 | 0 | ug/Kg |

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# Hit Summary Sheet
## SW-846

**SDG No.:** Q3662

**Client:** HDR, Inc.

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Phenanthrene, 2-methyl- | * | 800.000 | J | 0 | 0 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Pyrene, 1-methyl- | * | 110.000 | J | 0 | 0 | ug/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Pyrene, 4-methyl- | * | 100.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **2,233.90** | | | | |
| | | | **Total Concentration:** | | **8,579.20** | | | | |

# SAMPLE DATA

Raw Data: **BF144302.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.0-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-02 | Matrix: | SOIL |
| Analytical Method: | 8270E Level: LOW | % Solid: | 84.7 |
| Sample Wt/Vol: | 30.06 g Final Vol: 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 Prep Date: 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 100-52-7 | Benzaldehyde | 180 | U | 1 | 180 | 390 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 108-95-2 | Phenol | 26.0 | U | 1 | 26.0 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 111-44-4 | bis(2-Chloroethyl)ether | 28.6 | U | 1 | 28.6 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 95-57-8 | 2-Chlorophenol | 28.8 | U | 1 | 28.8 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 95-48-7 | 2-Methylphenol | 35.2 | U | 1 | 35.2 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 44.2 | U | 1 | 44.2 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 98-86-2 | Acetophenone | 34.8 | U | 1 | 34.8 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 65794-96-9 | 3+4-Methylphenols | 48.4 | U | 1 | 48.4 | 390 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 621-64-7 | n-Nitroso-di-n-propylamine | 55.9 | U | 1 | 55.9 | 94.3 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 67-72-1 | Hexachloroethane | 20.7 | U | 1 | 20.7 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 98-95-3 | Nitrobenzene | 21.6 | U | 1 | 21.6 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 78-59-1 | Isophorone | 38.6 | U | 1 | 38.6 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 88-75-5 | 2-Nitrophenol | 68.6 | U | 1 | 68.6 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 105-67-9 | 2,4-Dimethylphenol | 76.4 | U | 1 | 76.4 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 111-91-1 | bis(2-Chloroethoxy)methane | 36.3 | U | 1 | 36.3 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 120-83-2 | 2,4-Dichlorophenol | 33.3 | U | 1 | 33.3 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 91-20-3 | Naphthalene | 26.7 | U | 1 | 26.7 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 106-47-8 | 4-Chloroaniline | 41.7 | UQ | 1 | 41.7 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 87-68-3 | Hexachlorobutadiene | 29.8 | U | 1 | 29.8 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 105-60-2 | Caprolactam | 61.4 | U | 1 | 61.4 | 390 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 59-50-7 | 4-Chloro-3-methylphenol | 33.8 | U | 1 | 33.8 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 91-57-6 | 2-Methylnaphthalene | 30.2 | U | 1 | 30.2 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 77-47-4 | Hexachlorocyclopentadiene | 140 | U | 1 | 140 | 390 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 88-06-2 | 2,4,6-Trichlorophenol | 23.3 | U | 1 | 23.3 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 95-95-4 | 2,4,5-Trichlorophenol | 34.3 | U | 1 | 34.3 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 92-52-4 | 1,1-Biphenyl | 25.7 | U | 1 | 25.7 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 91-58-7 | 2-Chloronaphthalene | 26.5 | U | 1 | 26.5 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 88-74-4 | 2-Nitroaniline | 56.7 | U | 1 | 56.7 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 131-11-3 | Dimethylphthalate | 31.9 | U | 1 | 31.9 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 208-96-8 | Acenaphthylene | 34.1 | U | 1 | 34.1 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 606-20-2 | 2,6-Dinitrotoluene | 39.6 | U | 1 | 39.6 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 99-09-2 | 3-Nitroaniline | 54.2 | UQ | 1 | 54.2 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 83-32-9 | Acenaphthene | 25.1 | U | 1 | 25.1 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 51-28-5 | 2,4-Dinitrophenol | 270 | U | 1 | 270 | 390 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 100-02-7 | 4-Nitrophenol | 130 | U | 1 | 130 | 390 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 132-64-9 | Dibenzofuran | 26.7 | U | 1 | 26.7 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 121-14-2 | 2,4-Dinitrotoluene | 59.0 | U | 1 | 59.0 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 84-66-2 | Diethylphthalate | 33.3 | U | 1 | 33.3 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 31.5 | U | 1 | 31.5 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 86-73-7 | Fluorene | 29.8 | U | 1 | 29.8 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 100-01-6 | 4-Nitroaniline | 75.6 | U | 1 | 75.6 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 1 | 120 | 390 | ug/Kg | 11/20/25 18:56 | PB170631 |

Raw Data: **BF144302.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.0-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-02 | Matrix: | SOIL |
| Analytical Method: | 8270E Level: LOW | % Solid: | 84.7 |
| Sample Wt/Vol: | 30.06 g Final Vol: 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 Prep Date: 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| 86-30-6 | n-Nitrosodiphenylamine | 38.8 | U | 1 | 38.8 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 101-55-3 | 4-Bromophenyl-phenylether | 32.8 | U | 1 | 32.8 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 118-74-1 | Hexachlorobenzene | 29.8 | U | 1 | 29.8 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 1912-24-9 | Atrazine | 40.1 | U | 1 | 40.1 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 87-86-5 | Pentachlorophenol | 60.4 | U | 1 | 60.4 | 390 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 85-01-8 | Phenanthrene | 94.7 | J | 1 | 24.6 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 120-12-7 | Anthracene | 39.2 | U | 1 | 39.2 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 86-74-8 | Carbazole | 36.8 | U | 1 | 36.8 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 84-74-2 | Di-n-butylphthalate | 56.4 | U | 1 | 56.4 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 206-44-0 | Fluoranthene | 270 | | 1 | 35.3 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 129-00-0 | Pyrene | 190 | J | 1 | 42.4 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 85-68-7 | Butylbenzylphthalate | 84.1 | U | 1 | 84.1 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 91-94-1 | 3,3-Dichlorobenzidine | 43.2 | U | 1 | 43.2 | 390 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 56-55-3 | Benzo(a)anthracene | 120 | J | 1 | 27.1 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 218-01-9 | Chrysene | 120 | J | 1 | 23.4 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 69.8 | U | 1 | 69.8 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 117-84-0 | Di-n-octyl phthalate | 100 | U | 1 | 100 | 390 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 205-99-2 | Benzo(b)fluoranthene | 170 | J | 1 | 22.4 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 207-08-9 | Benzo(k)fluoranthene | 26.4 | U | 1 | 26.4 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 50-32-8 | Benzo(a)pyrene | 130 | J | 1 | 34.8 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 34.3 | U | 1 | 34.3 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 53-70-3 | Dibenzo(a,h)anthracene | 32.3 | U | 1 | 32.3 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 191-24-2 | Benzo(g,h,i)perylene | 30.3 | U | 1 | 30.3 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 30.2 | U | 1 | 30.2 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 123-91-1 | 1,4-Dioxane | 53.3 | U | 1 | 53.3 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 32.3 | U | 1 | 32.3 | 200 | ug/Kg | 11/20/25 18:56 | PB170631 |
| **SURROGATES** | | | | | | | | | |
| 367-12-4 | 2-Fluorophenol | 83.8 | | | 30 (10) - 130 (105) | 56% | SPK: 150 | | |
| 13127-88-3 | Phenol-d6 | 82.8 | | | 30 (10) - 130 (103) | 55% | SPK: 150 | | |
| 4165-60-0 | Nitrobenzene-d5 | 59.1 | | | 30 (10) - 130 (108) | 59% | SPK: 100 | | |
| 321-60-8 | 2-Fluorobiphenyl | 58.1 | | | 30 (10) - 130 (108) | 58% | SPK: 100 | | |
| 118-79-6 | 2,4,6-Tribromophenol | 79.8 | | | 30 (10) - 130 (116) | 53% | SPK: 150 | | |
| 1718-51-0 | Terphenyl-d14 | 47.5 | | | 30 (10) - 130 (109) | 47% | SPK: 100 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 46500 | | | | | | | |
| 1146-65-2 | Naphthalene-d8 | 166000 | | | | | | | |
| 15067-26-2 | Acenaphthene-d10 | 89400 | | | | | | | |
| 1517-22-2 | Phenanthrene-d10 | 159000 | | | | | | | |
| 1719-03-5 | Chrysene-d12 | 138000 | | | | | | | |
| 1520-96-3 | Perylene-d12 | 111000 | | | | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | | | |
| 000119-61-9 | Benzophenone | 260 | J | | | 10.6 | ug/Kg | | |
| 000057-10-3 | n-Hexadecanoic acid | 390 | J | | | 11.9 | ug/Kg | | |

Raw Data: **BF144302.D**

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | | | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.0-1.0-20251117 | | | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-02 | | | Matrix: | SOIL |
| Analytical Method: | 8270E | Level: | LOW | % Solid: | 84.7 |
| Sample Wt/Vol: | 30.06 g | Final Vol: | 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 | Prep Date: | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| 000143-07-7 | Dodecanoic acid | 82.9 | J | | | 12.7 | ug/Kg | | |
| 1000351-75-0 | Hexacosyl trifluoroacetate | 170 | J | | | 13.9 | ug/Kg | | |
| 000112-95-8 | Eicosane | 220 | J | | | 15.1 | ug/Kg | | |
| 000629-94-7 | Heneicosane | 250 | J | | | 16.0 | 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

Raw Data: **BF144296.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B1-0.0-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-04 | Matrix: | SOIL |
| Analytical Method: | 8270E Level: LOW | % Solid: | 88.1 |
| Sample Wt/Vol: | 30.02 g Final Vol: 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 Prep Date: 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 100-52-7 | Benzaldehyde | 180 | U | 1 | 180 | 370 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 108-95-2 | Phenol | 25.1 | U | 1 | 25.1 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 111-44-4 | bis(2-Chloroethyl)ether | 27.6 | U | 1 | 27.6 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 95-57-8 | 2-Chlorophenol | 27.7 | U | 1 | 27.7 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 95-48-7 | 2-Methylphenol | 33.9 | U | 1 | 33.9 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 42.5 | U | 1 | 42.5 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 98-86-2 | Acetophenone | 33.5 | U | 1 | 33.5 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 65794-96-9 | 3+4-Methylphenols | 46.6 | U | 1 | 46.6 | 370 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 621-64-7 | n-Nitroso-di-n-propylamine | 53.8 | U | 1 | 53.8 | 90.7 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 67-72-1 | Hexachloroethane | 20.0 | U | 1 | 20.0 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 98-95-3 | Nitrobenzene | 20.8 | U | 1 | 20.8 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 78-59-1 | Isophorone | 37.2 | U | 1 | 37.2 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 88-75-5 | 2-Nitrophenol | 66.0 | U | 1 | 66.0 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 105-67-9 | 2,4-Dimethylphenol | 73.5 | U | 1 | 73.5 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 111-91-1 | bis(2-Chloroethoxy)methane | 34.9 | U | 1 | 34.9 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 120-83-2 | 2,4-Dichlorophenol | 32.1 | U | 1 | 32.1 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 91-20-3 | Naphthalene | 25.7 | U | 1 | 25.7 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 106-47-8 | 4-Chloroaniline | 40.2 | UQ | 1 | 40.2 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 87-68-3 | Hexachlorobutadiene | 28.7 | U | 1 | 28.7 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 105-60-2 | Caprolactam | 59.1 | U | 1 | 59.1 | 370 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 59-50-7 | 4-Chloro-3-methylphenol | 32.6 | U | 1 | 32.6 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 91-57-6 | 2-Methylnaphthalene | 29.0 | U | 1 | 29.0 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 77-47-4 | Hexachlorocyclopentadiene | 130 | U | 1 | 130 | 370 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 88-06-2 | 2,4,6-Trichlorophenol | 22.5 | U | 1 | 22.5 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 95-95-4 | 2,4,5-Trichlorophenol | 33.0 | U | 1 | 33.0 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 92-52-4 | 1,1-Biphenyl | 24.7 | U | 1 | 24.7 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 91-58-7 | 2-Chloronaphthalene | 25.5 | U | 1 | 25.5 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 88-74-4 | 2-Nitroaniline | 54.6 | U | 1 | 54.6 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 131-11-3 | Dimethylphthalate | 30.7 | U | 1 | 30.7 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 208-96-8 | Acenaphthylene | 130 | J | 1 | 32.8 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 606-20-2 | 2,6-Dinitrotoluene | 38.1 | U | 1 | 38.1 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 99-09-2 | 3-Nitroaniline | 52.2 | UQ | 1 | 52.2 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 83-32-9 | Acenaphthene | 24.2 | U | 1 | 24.2 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 51-28-5 | 2,4-Dinitrophenol | 260 | U | 1 | 260 | 370 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 100-02-7 | 4-Nitrophenol | 120 | U | 1 | 120 | 370 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 132-64-9 | Dibenzofuran | 25.7 | U | 1 | 25.7 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 121-14-2 | 2,4-Dinitrotoluene | 56.8 | U | 1 | 56.8 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 84-66-2 | Diethylphthalate | 32.1 | U | 1 | 32.1 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 30.3 | U | 1 | 30.3 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 86-73-7 | Fluorene | 28.7 | U | 1 | 28.7 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 100-01-6 | 4-Nitroaniline | 72.8 | U | 1 | 72.8 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 1 | 120 | 370 | ug/Kg | 11/20/25 15:59 | PB170631 |

Raw Data: **BF144296.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B1-0.0-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-04 | Matrix: | SOIL |
| Analytical Method: | 8270E Level: LOW | % Solid: | 88.1 |
| Sample Wt/Vol: | 30.02 g Final Vol: 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 Prep Date: 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| 86-30-6 | n-Nitrosodiphenylamine | 37.3 | U | 1 | 37.3 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 101-55-3 | 4-Bromophenyl-phenylether | 31.5 | U | 1 | 31.5 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 118-74-1 | Hexachlorobenzene | 28.7 | U | 1 | 28.7 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 1912-24-9 | Atrazine | 38.6 | U | 1 | 38.6 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 87-86-5 | Pentachlorophenol | 58.2 | U | 1 | 58.2 | 370 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 85-01-8 | Phenanthrene | 540 | | 1 | 23.7 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 120-12-7 | Anthracene | 97.5 | J | 1 | 37.8 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 86-74-8 | Carbazole | 35.4 | U | 1 | 35.4 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 84-74-2 | Di-n-butylphthalate | 54.3 | U | 1 | 54.3 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 206-44-0 | Fluoranthene | 1200 | | 1 | 34.0 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 129-00-0 | Pyrene | 840 | | 1 | 40.8 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 85-68-7 | Butylbenzylphthalate | 81.0 | U | 1 | 81.0 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 91-94-1 | 3,3-Dichlorobenzidine | 41.6 | U | 1 | 41.6 | 370 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 56-55-3 | Benzo(a)anthracene | 530 | | 1 | 26.1 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 218-01-9 | Chrysene | 610 | | 1 | 22.6 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 67.2 | U | 1 | 67.2 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 117-84-0 | Di-n-octyl phthalate | 98.5 | U | 1 | 98.5 | 370 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 205-99-2 | Benzo(b)fluoranthene | 840 | | 1 | 21.6 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 207-08-9 | Benzo(k)fluoranthene | 330 | | 1 | 25.4 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 50-32-8 | Benzo(a)pyrene | 600 | | 1 | 33.5 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 240 | | 1 | 33.0 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 53-70-3 | Dibenzo(a,h)anthracene | 77.8 | J | 1 | 31.1 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 191-24-2 | Benzo(g,h,i)perylene | 310 | | 1 | 29.2 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 29.0 | U | 1 | 29.0 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 123-91-1 | 1,4-Dioxane | 51.3 | U | 1 | 51.3 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 31.1 | U | 1 | 31.1 | 190 | ug/Kg | 11/20/25 15:59 | PB170631 |
| **SURROGATES** | | | | | | | | | |
| 367-12-4 | 2-Fluorophenol | 52.5 | | | 30 (10) - 130 (105) | 35% | SPK: 150 | | |
| 13127-88-3 | Phenol-d6 | 49.9 | | | 30 (10) - 130 (103) | 33% | SPK: 150 | | |
| 4165-60-0 | Nitrobenzene-d5 | 36.4 | | | 30 (10) - 130 (108) | 36% | SPK: 100 | | |
| 321-60-8 | 2-Fluorobiphenyl | 34.3 | | | 30 (10) - 130 (108) | 34% | SPK: 100 | | |
| 118-79-6 | 2,4,6-Tribromophenol | 49.0 | | | 30 (10) - 130 (116) | 33% | SPK: 150 | | |
| 1718-51-0 | Terphenyl-d14 | 27.3 | * | | 30 (10) - 130 (109) | 27% | SPK: 100 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 39300 | | | | | | | |
| 1146-65-2 | Naphthalene-d8 | 132000 | | | | | | | |
| 15067-26-2 | Acenaphthene-d10 | 67200 | | | | | | | |
| 1517-22-2 | Phenanthrene-d10 | 132000 | | | | | | | |
| 1719-03-5 | Chrysene-d12 | 128000 | | | | | | | |
| 1520-96-3 | Perylene-d12 | 98400 | | | | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | | | |
| 000119-61-9 | Benzophenone | 190 | J | | | 10.6 | ug/Kg | | |
| 002531-84-2 | Phenanthrene, 2-methyl- | 800 | J | | | 11.9 | ug/Kg | | |

Raw Data: **BF144296.D**

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | | | Date Received: | 11/18/25 |
| Client Sample ID: | B1-0.0-1.0-20251117 | | | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-04 | | | Matrix: | SOIL |
| Analytical Method: | 8270E | Level: | LOW | % Solid: | 88.1 |
| Sample Wt/Vol: | 30.02 g | Final Vol: | 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 | Prep Date: | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| 000084-65-1 | 9,10-Anthracenedione | 120 | J | | | 12.2 | ug/Kg | | |
| 1000452-24-5 | 3,4-Dimethylphenanthrene | 83.9 | J | | | 12.3 | ug/Kg | | |
| 000781-43-1 | 9,10-Dimethylanthracene | 210 | J | | | 12.4 | ug/Kg | | |
| 002381-21-7 | Pyrene, 1-methyl- | 110 | J | | | 13.1 | ug/Kg | | |
| 000243-17-4 | 11H-Benzo[b]fluorene | 150 | J | | | 13.2 | ug/Kg | | |
| 003353-12-6 | Pyrene, 4-methyl- | 100 | J | | | 13.3 | ug/Kg | | |
| 000192-97-2 | Benzo[e]pyrene | 470 | J | | | 15.4 | ug/Kg | | |

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

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

# QC SUMMARY

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

**SW-846**

**SDG No.:** Q3662

**Client:** HDR, Inc.

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| PB170631BL | PB170631BL | 2-Fluorophenol | 150 | 116 | 78 | | 30 (10) | 130 (105) |
| | | Phenol-d6 | 150 | 117 | 78 | | 30 (10) | 130 (103) |
| | | Nitrobenzene-d5 | 100 | 80.1 | 80 | | 30 (10) | 130 (108) |
| | | 2-Fluorobiphenyl | 100 | 76.8 | 77 | | 30 (10) | 130 (108) |
| | | 2,4,6-Tribromophenol | 150 | 121 | 81 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 83.3 | 83 | | 30 (10) | 130 (109) |
| PB170631BS | PB170631BS | 2-Fluorophenol | 150 | 113 | 76 | | 30 (10) | 130 (105) |
| | | Phenol-d6 | 150 | 116 | 77 | | 30 (10) | 130 (103) |
| | | Nitrobenzene-d5 | 100 | 79.0 | 79 | | 30 (10) | 130 (108) |
| | | 2-Fluorobiphenyl | 100 | 75.9 | 76 | | 30 (10) | 130 (108) |
| | | 2,4,6-Tribromophenol | 150 | 117 | 78 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 84.1 | 84 | | 30 (10) | 130 (109) |
| Q3662-02 | B3-0.0-1.0-20251117 | 2-Fluorophenol | 150 | 83.8 | 56 | | 30 (10) | 130 (105) |
| | | Phenol-d6 | 150 | 82.8 | 55 | | 30 (10) | 130 (103) |
| | | Nitrobenzene-d5 | 100 | 59.1 | 59 | | 30 (10) | 130 (108) |
| | | 2-Fluorobiphenyl | 100 | 58.1 | 58 | | 30 (10) | 130 (108) |
| | | 2,4,6-Tribromophenol | 150 | 79.8 | 53 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 47.5 | 47 | | 30 (10) | 130 (109) |
| Q3662-02MS | B3-0.0-1.0-20251117MS | 2-Fluorophenol | 150 | 70.7 | 47 | | 30 (10) | 130 (105) |
| | | Phenol-d6 | 150 | 70.1 | 47 | | 30 (10) | 130 (103) |
| | | Nitrobenzene-d5 | 100 | 48.9 | 49 | | 30 (10) | 130 (108) |
| | | 2-Fluorobiphenyl | 100 | 50.4 | 50 | | 30 (10) | 130 (108) |
| | | 2,4,6-Tribromophenol | 150 | 65.4 | 44 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 42.1 | 42 | | 30 (10) | 130 (109) |
| Q3662-02MSD | B3-0.0-1.0-20251117MSD | 2-Fluorophenol | 150 | 76.7 | 51 | | 30 (10) | 130 (105) |
| | | Phenol-d6 | 150 | 74.5 | 50 | | 30 (10) | 130 (103) |
| | | Nitrobenzene-d5 | 100 | 52.5 | 52 | | 30 (10) | 130 (108) |
| | | 2-Fluorobiphenyl | 100 | 52.9 | 53 | | 30 (10) | 130 (108) |
| | | 2,4,6-Tribromophenol | 150 | 70.7 | 47 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 45.1 | 45 | | 30 (10) | 130 (109) |
| Q3662-04 | B1-0.0-1.0-20251117 | 2-Fluorophenol | 150 | 52.5 | 35 | | 30 (10) | 130 (105) |
| | | Phenol-d6 | 150 | 49.9 | 33 | | 30 (10) | 130 (103) |
| | | Nitrobenzene-d5 | 100 | 36.4 | 36 | | 30 (10) | 130 (108) |
| | | 2-Fluorobiphenyl | 100 | 34.3 | 34 | | 30 (10) | 130 (108) |
| | | 2,4,6-Tribromophenol | 150 | 49.0 | 33 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 27.3 | 27 | * | 30 (10) | 130 (109) |

( ) = LABORATORY INHOUSE LIMIT

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

## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q3662 **Analytical Method:** SW8270E

**Client:** HDR, Inc. **DataFile:** BF144303.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: Q3662-02MS** | | **Client Sample ID: B3-0.0-1.0-20251117MS** | | | | | | | | | |
| Benzaldehyde | 2000 | 0 | 1500 | ug/Kg | 75 | | | | 20 (20) | 160 (111) | |
| Phenol | 2000 | 0 | 1700 | ug/Kg | 85 | | | | 20 (51) | 160 (122) | |
| bis(2-Chloroethyl)ether | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 70 (67) | 130 (110) | |
| 2-Chlorophenol | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 70 (67) | 130 (119) | |
| 2-Methylphenol | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 70 (68) | 130 (116) | |
| 2,2-oxybis(1-Chloropropane) | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 70 (59) | 130 (113) | |
| Acetophenone | 2000 | 0 | 1900 | ug/Kg | 95 | | | | 70 (55) | 130 (128) | |
| 3+4-Methylphenols | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 20 (70) | 160 (111) | |
| N-Nitroso-di-n-propylamine | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 70 (59) | 130 (119) | |
| Hexachloroethane | 2000 | 0 | 1700 | ug/Kg | 85 | | | | 20 (65) | 160 (115) | |
| Nitrobenzene | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 70 (66) | 130 (120) | |
| Isophorone | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 70 (67) | 130 (113) | |
| 2-Nitrophenol | 2000 | 0 | 1500 | ug/Kg | 75 | | | | 70 (69) | 130 (135) | |
| 2,4-Dimethylphenol | 2000 | 0 | 2000 | ug/Kg | 100 | | | | 70 (63) | 130 (151) | |
| bis(2-Chloroethoxy)methane | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 70 (70) | 130 (112) | |
| 2,4-Dichlorophenol | 2000 | 0 | 1700 | ug/Kg | 85 | | | | 70 (70) | 130 (121) | |
| Naphthalene | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 70 (66) | 130 (113) | |
| 4-Chloroaniline | 2000 | 0 | 450 | ug/Kg | 23 | * | | | 70 (10) | 130 (100) | |
| Hexachlorobutadiene | 2000 | 0 | 1700 | ug/Kg | 85 | | | | 70 (67) | 130 (118) | |
| Caprolactam | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 20 (51) | 160 (134) | |
| 4-Chloro-3-methylphenol | 2000 | 0 | 1600 | ug/Kg | 80 | | | | 70 (71) | 130 (118) | |
| 2-Methylnaphthalene | 2000 | 0 | 1600 | ug/Kg | 80 | | | | 70 (59) | 130 (123) | |
| Hexachlorocyclopentadiene | 3900 | 0 | 1200 | ug/Kg | 31 | | | | 20 (16) | 160 (175) | |
| 2,4,6-Trichlorophenol | 2000 | 0 | 1700 | ug/Kg | 85 | | | | 70 (67) | 130 (128) | |
| 2,4,5-Trichlorophenol | 2000 | 0 | 1700 | ug/Kg | 85 | | | | 70 (69) | 130 (123) | |
| 1,1-Biphenyl | 2000 | 0 | 1900 | ug/Kg | 95 | | | | 70 (69) | 130 (126) | |
| 2-Chloronaphthalene | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 70 (71) | 130 (113) | |
| 2-Nitroaniline | 2000 | 0 | 1900 | ug/Kg | 95 | | | | 70 (73) | 130 (125) | |
| Dimethylphthalate | 2000 | 0 | 1900 | ug/Kg | 95 | | | | 70 (72) | 130 (116) | |
| Acenaphthylene | 2000 | 0 | 2000 | ug/Kg | 100 | | | | 70 (69) | 130 (128) | |
| 2,6-Dinitrotoluene | 2000 | 0 | 1900 | ug/Kg | 95 | | | | 70 (67) | 130 (141) | |
| 3-Nitroaniline | 2000 | 0 | 1300 | ug/Kg | 65 | * | | | 70 (28) | 130 (102) | |
| Acenaphthene | 2000 | 0 | 1600 | ug/Kg | 80 | | | | 70 (70) | 130 (121) | |
| 2,4-Dinitrophenol | 3900 | 0 | 280 | ug/Kg | 7 | * | | | 20 (10) | 160 (164) | |
| 4-Nitrophenol | 3900 | 0 | 3600 | ug/Kg | 92 | | | | 20 (49) | 160 (133) | |
| Dibenzofuran | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 70 (71) | 130 (111) | |
| 2,4-Dinitrotoluene | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 70 (73) | 130 (130) | |
| Diethylphthalate | 2000 | 0 | 1900 | ug/Kg | 95 | | | | 70 (73) | 130 (116) | |
| 4-Chlorophenyl-phenylether | 2000 | 0 | 1700 | ug/Kg | 85 | | | | 70 (72) | 130 (112) | |
| Fluorene | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 70 (67) | 130 (114) | |
| 4-Nitroaniline | 2000 | 0 | 1900 | ug/Kg | 95 | | | | 70 (61) | 130 (128) | |
| 4,6-Dinitro-2-methylphenol | 2000 | 0 | 220 | ug/Kg | 11 | * | | | 70 (25) | 130 (163) | |
| N-Nitrosodiphenylamine | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 70 (73) | 130 (118) | |
| 4-Bromophenyl-phenylether | 2000 | 0 | 1700 | ug/Kg | 85 | | | | 70 (65) | 130 (121) | |
| Hexachlorobenzene | 2000 | 0 | 1700 | ug/Kg | 85 | | | | 70 (67) | 130 (118) | |
| Atrazine | 2000 | 0 | 1900 | ug/Kg | 95 | | | | 70 (79) | 130 (127) | |

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q3662 **Analytical Method:** SW8270E

**Client:** HDR, Inc. **DataFile:** BF144303.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 3900 | 0 | 3300 | ug/Kg | 85 | | | | 20 (39) | 160 (145) | |
| Phenanthrene | 2000 | 94.7 | 1900 | ug/Kg | 90 | | | | 70 (52) | 130 (128) | |
| Anthracene | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 70 (62) | 130 (124) | |
| Carbazole | 2000 | 0 | 2000 | ug/Kg | 100 | | | | 70 (73) | 130 (115) | |
| Di-n-butylphthalate | 2000 | 0 | 1900 | ug/Kg | 95 | | | | 70 (72) | 130 (129) | |
| Fluoranthene | 2000 | 270 | 2300 | ug/Kg | 102 | | | | 70 (31) | 130 (152) | |
| Pyrene | 2000 | 190 | 1800 | ug/Kg | 81 | | | | 70 (37) | 130 (122) | |
| Butylbenzylphthalate | 2000 | 0 | 1900 | ug/Kg | 95 | | | | 70 (59) | 130 (151) | |
| 3,3-Dichlorobenzidine | 2000 | 0 | 1300 | ug/Kg | 65 | * | | | 70 (10) | 130 (116) | |
| Benzo(a)anthracene | 2000 | 120 | 1900 | ug/Kg | 89 | | | | 70 (53) | 130 (119) | |
| Chrysene | 2000 | 120 | 1900 | ug/Kg | 89 | | | | 70 (57) | 130 (121) | |
| bis(2-Ethylhexyl)phthalate | 2000 | 0 | 2000 | ug/Kg | 100 | | | | 70 (64) | 130 (139) | |
| Di-n-octyl phthalate | 2000 | 0 | 1900 | ug/Kg | 95 | | | | 70 (51) | 130 (156) | |
| Benzo(b)fluoranthene | 2000 | 170 | 2300 | ug/Kg | 107 | | | | 70 (52) | 130 (117) | |
| Benzo(k)fluoranthene | 2000 | 0 | 2100 | ug/Kg | 105 | | | | 70 (57) | 130 (134) | |
| Benzo(a)pyrene | 2000 | 130 | 2000 | ug/Kg | 94 | | | | 70 (70) | 130 (142) | |
| Indeno(1,2,3-cd)pyrene | 2000 | 0 | 1500 | ug/Kg | 75 | | | | 70 (48) | 130 (129) | |
| Dibenz(a,h)anthracene | 2000 | 0 | 1500 | ug/Kg | 75 | | | | 70 (43) | 130 (123) | |
| Benzo(g,h,i)perylene | 2000 | 0 | 1500 | ug/Kg | 75 | | | | 70 (40) | 130 (133) | |
| 1,2,4,5-Tetrachlorobenzene | 2000 | 0 | 1800 | ug/Kg | 90 | | | | 70 (65) | 130 (132) | |
| 1,4-Dioxane | 2000 | 0 | 2000 | ug/Kg | 100 | | | | 20 (46) | 160 (112) | |
| 2,3,4,6-Tetrachlorophenol | 2000 | 0 | 1900 | ug/Kg | 95 | | | | 70 (56) | 130 (141) | |

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q3662 **Analytical Method:** SW8270E

**Client:** HDR, Inc. **DataFile:** BF144304.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: Q3662-02MSD** | | **Client Sample ID: B3-0.0-1.0-20251117MSD** | | | | | | | | | |
| Benzaldehyde | 2000 | 0 | 1700 | ug/Kg | 85 | | 13 | | 20 (20) | 160 (111) | 30 (20) |
| Phenol | 2000 | 0 | 1800 | ug/Kg | 90 | | 6 | | 20 (51) | 160 (122) | 30 (20) |
| bis(2-Chloroethyl)ether | 2000 | 0 | 2000 | ug/Kg | 100 | | 11 | | 70 (67) | 130 (110) | 30 (20) |
| 2-Chlorophenol | 2000 | 0 | 1900 | ug/Kg | 95 | | 5 | | 70 (67) | 130 (119) | 30 (20) |
| 2-Methylphenol | 2000 | 0 | 1900 | ug/Kg | 95 | | 5 | | 70 (68) | 130 (116) | 30 (20) |
| 2,2-oxybis(1-Chloropropane) | 2000 | 0 | 1900 | ug/Kg | 95 | | 5 | | 70 (59) | 130 (113) | 30 (20) |
| Acetophenone | 2000 | 0 | 2000 | ug/Kg | 100 | | 5 | | 70 (55) | 130 (128) | 30 (20) |
| 3+4-Methylphenols | 2000 | 0 | 1800 | ug/Kg | 90 | | 0 | | 20 (70) | 160 (111) | 30 (20) |
| N-Nitroso-di-n-propylamine | 2000 | 0 | 1900 | ug/Kg | 95 | | 5 | | 70 (59) | 130 (119) | 30 (20) |
| Hexachloroethane | 2000 | 0 | 1800 | ug/Kg | 90 | | 6 | | 20 (65) | 160 (115) | 30 (20) |
| Nitrobenzene | 2000 | 0 | 2000 | ug/Kg | 100 | | 11 | | 70 (66) | 130 (120) | 30 (20) |
| Isophorone | 2000 | 0 | 2000 | ug/Kg | 100 | | 11 | | 70 (67) | 130 (113) | 30 (20) |
| 2-Nitrophenol | 2000 | 0 | 1700 | ug/Kg | 85 | | 13 | | 70 (69) | 130 (135) | 30 (16) |
| 2,4-Dimethylphenol | 2000 | 0 | 2100 | ug/Kg | 105 | | 5 | | 70 (63) | 130 (151) | 30 (20) |
| bis(2-Chloroethoxy)methane | 2000 | 0 | 2000 | ug/Kg | 100 | | 11 | | 70 (70) | 130 (112) | 30 (20) |
| 2,4-Dichlorophenol | 2000 | 0 | 1800 | ug/Kg | 90 | | 6 | | 70 (70) | 130 (121) | 30 (20) |
| Naphthalene | 2000 | 0 | 1900 | ug/Kg | 95 | | 5 | | 70 (66) | 130 (113) | 30 (20) |
| 4-Chloroaniline | 2000 | 0 | 500 | ug/Kg | 25 | * | 8 | | 70 (10) | 130 (100) | 30 (25) |
| Hexachlorobutadiene | 2000 | 0 | 1800 | ug/Kg | 90 | | 6 | | 70 (67) | 130 (118) | 30 (16) |
| Caprolactam | 2000 | 0 | 1900 | ug/Kg | 95 | | 5 | | 20 (51) | 160 (134) | 30 (25) |
| 4-Chloro-3-methylphenol | 2000 | 0 | 1700 | ug/Kg | 85 | | 6 | | 70 (71) | 130 (118) | 30 (20) |
| 2-Methylnaphthalene | 2000 | 0 | 1700 | ug/Kg | 85 | | 6 | | 70 (59) | 130 (123) | 30 (20) |
| Hexachlorocyclopentadiene | 3900 | 0 | 1300 | ug/Kg | 33 | | 6 | | 20 (16) | 160 (175) | 30 (20) |
| 2,4,6-Trichlorophenol | 2000 | 0 | 1900 | ug/Kg | 95 | | 11 | | 70 (67) | 130 (128) | 30 (16) |
| 2,4,5-Trichlorophenol | 2000 | 0 | 1800 | ug/Kg | 90 | | 6 | | 70 (69) | 130 (123) | 30 (16) |
| 1,1-Biphenyl | 2000 | 0 | 2000 | ug/Kg | 100 | | 5 | | 70 (69) | 130 (126) | 30 (20) |
| 2-Chloronaphthalene | 2000 | 0 | 1900 | ug/Kg | 95 | | 5 | | 70 (71) | 130 (113) | 30 (20) |
| 2-Nitroaniline | 2000 | 0 | 2100 | ug/Kg | 105 | | 10 | | 70 (73) | 130 (125) | 30 (16) |
| Dimethylphthalate | 2000 | 0 | 2000 | ug/Kg | 100 | | 5 | | 70 (72) | 130 (116) | 30 (20) |
| Acenaphthylene | 2000 | 0 | 2100 | ug/Kg | 105 | | 5 | | 70 (69) | 130 (128) | 30 (15) |
| 2,6-Dinitrotoluene | 2000 | 0 | 2000 | ug/Kg | 100 | | 5 | | 70 (67) | 130 (141) | 30 (20) |
| 3-Nitroaniline | 2000 | 0 | 1400 | ug/Kg | 70 | | 7 | | 70 (28) | 130 (102) | 30 (20) |
| Acenaphthene | 2000 | 0 | 1700 | ug/Kg | 85 | | 6 | | 70 (70) | 130 (121) | 30 (16) |
| 2,4-Dinitrophenol | 3900 | 0 | 0 | ug/Kg | 0 | * | 200 | * | 20 (10) | 160 (164) | 30 (30) |
| 4-Nitrophenol | 3900 | 0 | 3800 | ug/Kg | 97 | | 5 | | 20 (49) | 160 (133) | 30 (20) |
| Dibenzofuran | 2000 | 0 | 1900 | ug/Kg | 95 | | 5 | | 70 (71) | 130 (111) | 30 (20) |
| 2,4-Dinitrotoluene | 2000 | 0 | 1900 | ug/Kg | 95 | | 5 | | 70 (73) | 130 (130) | 30 (20) |
| Diethylphthalate | 2000 | 0 | 2000 | ug/Kg | 100 | | 5 | | 70 (73) | 130 (116) | 30 (20) |
| 4-Chlorophenyl-phenylether | 2000 | 0 | 1800 | ug/Kg | 90 | | 6 | | 70 (72) | 130 (112) | 30 (20) |
| Fluorene | 2000 | 0 | 1900 | ug/Kg | 95 | | 5 | | 70 (67) | 130 (114) | 30 (20) |
| 4-Nitroaniline | 2000 | 0 | 2000 | ug/Kg | 100 | | 5 | | 70 (61) | 130 (128) | 30 (20) |
| 4,6-Dinitro-2-methylphenol | 2000 | 0 | 210 | ug/Kg | 11 | * | 0 | | 70 (25) | 130 (163) | 30 (30) |
| N-Nitrosodiphenylamine | 2000 | 0 | 1900 | ug/Kg | 95 | | 5 | | 70 (73) | 130 (118) | 30 (20) |
| 4-Bromophenyl-phenylether | 2000 | 0 | 1700 | ug/Kg | 85 | | 0 | | 70 (65) | 130 (121) | 30 (20) |
| Hexachlorobenzene | 2000 | 0 | 1800 | ug/Kg | 90 | | 6 | | 70 (67) | 130 (118) | 30 (20) |
| Atrazine | 2000 | 0 | 1900 | ug/Kg | 95 | | 0 | | 70 (79) | 130 (127) | 30 (20) |

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q3662 **Analytical Method:** SW8270E

**Client:** HDR, Inc. **DataFile:** BF144304.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 3900 | 0 | 3400 | ug/Kg | 87 | | 2 | | 20 (39) | 160 (145) | 30 (20) |
| Phenanthrene | 2000 | 94.7 | 2000 | ug/Kg | 95 | | 5 | | 70 (52) | 130 (128) | 30 (20) |
| Anthracene | 2000 | 0 | 1900 | ug/Kg | 95 | | 5 | | 70 (62) | 130 (124) | 30 (20) |
| Carbazole | 2000 | 0 | 2100 | ug/Kg | 105 | | 5 | | 70 (73) | 130 (115) | 30 (20) |
| Di-n-butylphthalate | 2000 | 0 | 2000 | ug/Kg | 100 | | 5 | | 70 (72) | 130 (129) | 30 (20) |
| Fluoranthene | 2000 | 270 | 2400 | ug/Kg | 107 | | 5 | | 70 (31) | 130 (152) | 30 (20) |
| Pyrene | 2000 | 190 | 1900 | ug/Kg | 86 | | 6 | | 70 (37) | 130 (122) | 30 (27) |
| Butylbenzylphthalate | 2000 | 0 | 2100 | ug/Kg | 105 | | 10 | | 70 (59) | 130 (151) | 30 (20) |
| 3,3-Dichlorobenzidine | 2000 | 0 | 1400 | ug/Kg | 70 | | 7 | | 70 (10) | 130 (116) | 30 (20) |
| Benzo(a)anthracene | 2000 | 120 | 2100 | ug/Kg | 99 | | 11 | | 70 (53) | 130 (119) | 30 (20) |
| Chrysene | 2000 | 120 | 2000 | ug/Kg | 94 | | 5 | | 70 (57) | 130 (121) | 30 (20) |
| bis(2-Ethylhexyl)phthalate | 2000 | 0 | 2100 | ug/Kg | 105 | | 5 | | 70 (64) | 130 (139) | 30 (20) |
| Di-n-octyl phthalate | 2000 | 0 | 2000 | ug/Kg | 100 | | 5 | | 70 (51) | 130 (156) | 30 (20) |
| Benzo(b)fluoranthene | 2000 | 170 | 2400 | ug/Kg | 112 | | 5 | | 70 (52) | 130 (117) | 30 (20) |
| Benzo(k)fluoranthene | 2000 | 0 | 2200 | ug/Kg | 110 | | 5 | | 70 (57) | 130 (134) | 30 (20) |
| Benzo(a)pyrene | 2000 | 130 | 2100 | ug/Kg | 99 | | 5 | | 70 (70) | 130 (142) | 30 (20) |
| Indeno(1,2,3-cd)pyrene | 2000 | 0 | 1600 | ug/Kg | 80 | | 6 | | 70 (48) | 130 (129) | 30 (20) |
| Dibenz(a,h)anthracene | 2000 | 0 | 1600 | ug/Kg | 80 | | 6 | | 70 (43) | 130 (123) | 30 (20) |
| Benzo(g,h,i)perylene | 2000 | 0 | 1600 | ug/Kg | 80 | | 6 | | 70 (40) | 130 (133) | 30 (20) |
| 1,2,4,5-Tetrachlorobenzene | 2000 | 0 | 1900 | ug/Kg | 95 | | 5 | | 70 (65) | 130 (132) | 30 (20) |
| 1,4-Dioxane | 2000 | 0 | 2100 | ug/Kg | 105 | | 5 | | 20 (46) | 160 (112) | 30 (20) |
| 2,3,4,6-Tetrachlorophenol | 2000 | 0 | 2000 | ug/Kg | 100 | | 5 | | 70 (56) | 130 (141) | 30 (20) |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3662 **Analytical Method:** 8270E

**Client:** HDR, Inc. **DataFile:** BF144292.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB170631BS | Benzaldehyde | 1700 | 830 | ug/Kg | 49 | | | | 20 (10) | 160 (133) | |
| | Phenol | 1700 | 1400 | ug/Kg | 82 | | | | 20 (62) | 160 (112) | |
| | bis(2-Chloroethyl)ether | 1700 | 1500 | ug/Kg | 88 | | | | 70 (60) | 130 (101) | |
| | 2-Chlorophenol | 1700 | 1400 | ug/Kg | 82 | | | | 70 (65) | 130 (112) | |
| | 2-Methylphenol | 1700 | 1500 | ug/Kg | 88 | | | | 70 (74) | 130 (105) | |
| | 2,2-oxybis(1-Chloropropane) | 1700 | 1500 | ug/Kg | 88 | | | | 70 (51) | 130 (100) | |
| | Acetophenone | 1700 | 1500 | ug/Kg | 88 | | | | 70 (66) | 130 (98) | |
| | 3+4-Methylphenols | 1700 | 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 (75) | 130 (100) | |
| | Isophorone | 1700 | 1500 | ug/Kg | 88 | | | | 70 (59) | 130 (99) | |
| | 2-Nitrophenol | 1700 | 1400 | ug/Kg | 82 | | | | 70 (75) | 130 (113) | |
| | 2,4-Dimethylphenol | 1700 | 1600 | ug/Kg | 94 | | | | 70 (61) | 130 (130) | |
| | bis(2-Chloroethoxy)methane | 1700 | 1500 | ug/Kg | 88 | | | | 70 (66) | 130 (97) | |
| | 2,4-Dichlorophenol | 1700 | 1400 | ug/Kg | 82 | | | | 70 (62) | 130 (107) | |
| | Naphthalene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (62) | 130 (100) | |
| | 4-Chloroaniline | 1700 | 880 | ug/Kg | 52 | | * | | 70 (16) | 130 (100) | |
| | Hexachlorobutadiene | 1700 | 1300 | ug/Kg | 76 | | | | 70 (68) | 130 (108) | |
| | Caprolactam | 1700 | 1600 | ug/Kg | 94 | | | | 20 (67) | 160 (110) | |
| | 4-Chloro-3-methylphenol | 1700 | 1500 | ug/Kg | 88 | | | | 70 (74) | 130 (106) | |
| | 2-Methylnaphthalene | 1700 | 1300 | ug/Kg | 76 | | | | 70 (60) | 130 (104) | |
| | Hexachlorocyclopentadiene | 3300 | 2500 | ug/Kg | 76 | | | | 20 (45) | 160 (165) | |
| | 2,4,6-Trichlorophenol | 1700 | 1400 | ug/Kg | 82 | | | | 70 (59) | 130 (102) | |
| | 2,4,5-Trichlorophenol | 1700 | 1400 | ug/Kg | 82 | | | | 70 (74) | 130 (110) | |
| | 1,1-Biphenyl | 1700 | 1500 | ug/Kg | 88 | | | | 70 (71) | 130 (110) | |
| | 2-Chloronaphthalene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (70) | 130 (103) | |
| | 2-Nitroaniline | 1700 | 1500 | ug/Kg | 88 | | | | 70 (66) | 130 (101) | |
| | Dimethylphthalate | 1700 | 1500 | ug/Kg | 88 | | | | 70 (76) | 130 (101) | |
| | Acenaphthylene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (76) | 130 (111) | |
| | 2,6-Dinitrotoluene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (78) | 130 (116) | |
| | 3-Nitroaniline | 1700 | 1100 | ug/Kg | 65 | | * | | 70 (28) | 130 (100) | |
| | Acenaphthene | 1700 | 1300 | ug/Kg | 76 | | | | 70 (73) | 130 (105) | |
| | 2,4-Dinitrophenol | 3300 | 3000 | ug/Kg | 91 | | | | 20 (59) | 160 (137) | |
| | 4-Nitrophenol | 3300 | 2700 | ug/Kg | 82 | | | | 20 (60) | 160 (124) | |
| | Dibenzofuran | 1700 | 1400 | ug/Kg | 82 | | | | 70 (63) | 130 (99) | |
| | 2,4-Dinitrotoluene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (78) | 130 (115) | |
| | Diethylphthalate | 1700 | 1500 | ug/Kg | 88 | | | | 70 (76) | 130 (104) | |
| | 4-Chlorophenyl-phenylether | 1700 | 1400 | ug/Kg | 82 | | | | 70 (73) | 130 (101) | |
| | Fluorene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (75) | 130 (99) | |
| | 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 | 1400 | ug/Kg | 82 | | | | 70 (66) | 130 (102) | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3662 **Analytical Method:** 8270E

**Client:** HDR, Inc. **DataFile:** BF144292.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB170631BS | Hexachlorobenzene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (64) | 130 (98) | |
| | Atrazine | 1700 | 1600 | ug/Kg | 94 | | | | 70 (71) | 130 (122) | |
| | Pentachlorophenol | 3300 | 3000 | ug/Kg | 91 | | | | 20 (56) | 160 (129) | |
| | Phenanthrene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (75) | 130 (100) | |
| | Anthracene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (75) | 130 (103) | |
| | Carbazole | 1700 | 1400 | ug/Kg | 82 | | | | 70 (76) | 130 (103) | |
| | Di-n-butylphthalate | 1700 | 1500 | ug/Kg | 88 | | | | 70 (76) | 130 (110) | |
| | Fluoranthene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (73) | 130 (105) | |
| | Pyrene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (59) | 130 (103) | |
| | Butylbenzylphthalate | 1700 | 1600 | ug/Kg | 94 | | | | 70 (75) | 130 (120) | |
| | 3,3-Dichlorobenzidine | 1700 | 1200 | ug/Kg | 71 | | | | 70 (31) | 130 (94) | |
| | Benzo(a)anthracene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (75) | 130 (104) | |
| | Chrysene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (75) | 130 (103) | |
| | bis(2-Ethylhexyl)phthalate | 1700 | 1500 | ug/Kg | 88 | | | | 70 (77) | 130 (113) | |
| | Di-n-octyl phthalate | 1700 | 1500 | ug/Kg | 88 | | | | 70 (76) | 130 (110) | |
| | Benzo(b)fluoranthene | 1700 | 1700 | ug/Kg | 100 | | | | 70 (62) | 130 (109) | |
| | Benzo(k)fluoranthene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (75) | 130 (108) | |
| | Benzo(a)pyrene | 1700 | 1700 | ug/Kg | 100 | | | | 70 (79) | 130 (109) | |
| | Indeno(1,2,3-cd)pyrene | 1700 | 1300 | ug/Kg | 76 | | | | 70 (63) | 130 (101) | |
| | Dibenz(a,h)anthracene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (61) | 130 (112) | |
| | Benzo(g,h,i)perylene | 1700 | 1300 | ug/Kg | 76 | | | | 70 (70) | 130 (108) | |
| | 1,2,4,5-Tetrachlorobenzene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (53) | 130 (101) | |
| | 1,4-Dioxane | 1700 | 1300 | ug/Kg | 76 | | | | 20 (50) | 160 (96) | |
| | 2,3,4,6-Tetrachlorophenol | 1700 | 1500 | ug/Kg | 88 | | | | 70 (71) | 130 (118) | |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB170631BL

Lab Name: Alliance | Contract: HDRI08

Lab Code: ACE | SDG NO.: Q3662

Lab File ID: BF144291.D | Lab Sample ID: PB170631BL

Instrument ID: BNA_F | Date Extracted: 11/19/2025

Matrix: (soil/water) SOIL | Date Analyzed: 11/20/2025

Level: (low/med) LOW | Time Analyzed: 13:25

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| PB170631BS | PB170631BS | BF144292.D | 11/20/2025 |
| B1-0.0-1.0-20251117 | Q3662-04 | BF144296.D | 11/20/2025 |
| B3-0.0-1.0-20251117 | Q3662-02 | BF144302.D | 11/20/2025 |
| B3-0.0-1.0-20251117MS | Q3662-02MS | BF144303.D | 11/20/2025 |
| B3-0.0-1.0-20251117MSD | Q3662-02MSD | BF144304.D | 11/20/2025 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG NO.: Q3662

Lab File ID: BF144168.D DFTPP Injection Date: 11/05/2025

Instrument ID: BNA_F DFTPP Injection Time: 12:21

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 68 | Less than 2.0% of mass 69 | 0.4 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 24.5 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.6 ) 1 |
| 197 | Less than 2.0% of mass 198 | 0.2 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 5.2 |
| 365 | Greater than 1% of mass 198 | 2.6 |
| 441 | Present, but less than mass 443 | 15.9 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.3 (19.3) 2 |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BF144169.D | 11/05/2025 | 12:50 |
| SSTDICC005 | SSTDICC005 | BF144170.D | 11/05/2025 | 13:20 |
| SSTDICC010 | SSTDICC010 | BF144171.D | 11/05/2025 | 13:50 |
| SSTDICC020 | SSTDICC020 | BF144172.D | 11/05/2025 | 14:20 |
| SSTDICCC040 | SSTDICCC040 | BF144173.D | 11/05/2025 | 14:50 |
| SSTDICC050 | SSTDICC050 | BF144174.D | 11/05/2025 | 15:49 |
| SSTDICC060 | SSTDICC060 | BF144175.D | 11/05/2025 | 16:19 |
| SSTDICC080 | SSTDICC080 | BF144176.D | 11/05/2025 | 16:49 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: HDRI08

Lab Code: ACE | SDG NO.: Q3662

Lab File ID: BF144289.D | DFTPP Injection Date: 11/20/2025

Instrument ID: BNA_F | DFTPP Injection Time: 12:03

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 68 | Less than 2.0% of mass 69 | 0.4 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 21.5 |
| 70 | Less than 2.0% of mass 69 | 0.0 ( 0.0 ) 1 |
| 197 | Less than 2.0% of mass 198 | 0.1 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 4.8 |
| 365 | Greater than 1% of mass 198 | 2.6 |
| 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 | 18.2 (18.2) 2 |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF144290.D | 11/20/2025 | 12:32 |
| PB170631BL | PB170631BL | BF144291.D | 11/20/2025 | 13:25 |
| PB170631BS | PB170631BS | BF144292.D | 11/20/2025 | 13:54 |
| B1-0.0-1.0-20251117 | Q3662-04 | BF144296.D | 11/20/2025 | 15:59 |
| B3-0.0-1.0-20251117 | Q3662-02 | BF144302.D | 11/20/2025 | 18:56 |
| B3-0.0-1.0-20251117MS | Q3662-02MS | BF144303.D | 11/20/2025 | 19:26 |
| B3-0.0-1.0-20251117MSD | Q3662-02MSD | BF144304.D | 11/20/2025 | 19:56 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3662

Client ID : SSTDCCC040 Date Analyzed: 11/20/2025

Lab File ID: BF144290.D Time Analyzed: 12:32

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 | 59614 | 6.863 | 228905 | 8.15 | 123999 | 9.90 |
| | UPPER LIMIT | 119228 | 7.363 | 457810 | 8.645 | 247998 | 10.404 |
| | LOWER LIMIT | 29807 | 6.363 | 114453 | 7.645 | 61999.5 | 9.404 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB170631BL | 60075 | 6.86 | 236262 | 8.15 | 137092 | 9.90 |
| 02 | PB170631BS | 64956 | 6.86 | 256491 | 8.15 | 147675 | 9.90 |
| 03 | B1-0.0-1.0-20251117 | 39264 | 6.86 | 131569 | 8.15 | 67150 | 9.90 |
| 04 | B3-0.0-1.0-20251117 | 46510 | 6.86 | 165994 | 8.15 | 89354 | 9.90 |
| 05 | B3-0.0-1.0-20251117MS | 47796 | 6.86 | 175247 | 8.15 | 88326 | 9.90 |
| 06 | B3-0.0-1.0-20251117MSD | 44073 | 6.86 | 159722 | 8.15 | 80476 | 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: Alliance

Lab Code: ACE SDG NO.: Q3662

Client ID: SSTDCCC040 Date Analyzed: 11/20/2025

Lab File ID: BF144290.D Time Analyzed: 12:32

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 | 202115 | 11.392 | 134253 | 14.045 | 171650 | 15.521 |
| | UPPER LIMIT | 404230 | 11.892 | 268506 | 14.545 | 343300 | 16.021 |
| | LOWER LIMIT | 101058 | 10.892 | 67126.5 | 13.545 | 85825 | 15.021 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB170631BL | 248386 | 11.39 | 149201 | 14.04 | 167632 | 15.52 |
| 02 | PB170631BS | 246268 | 11.39 | 145057 | 14.05 | 168439 | 15.52 |
| 03 | B1-0.0-1.0-20251117 | 132298 | 11.39 | 127839 | 14.04 | 98400 | 15.52 |
| 04 | B3-0.0-1.0-20251117 | 158933 | 11.39 | 137554 | 14.04 | 110506 | 15.52 |
| 05 | B3-0.0-1.0-20251117MS | 153411 | 11.39 | 129309 | 14.05 | 103273 | 15.52 |
| 06 | B3-0.0-1.0-20251117MSD | 143551 | 11.39 | 118518 | 14.05 | 95287 | 15.52 |

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

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

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

# QC SAMPLE DATA

Raw Data: **BF144291.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | |
| Project: | PVWC Linear Construction | Date Received: | |
| Client Sample ID: | PB170631BL | SDG No.: | Q3662 |
| Lab Sample ID: | PB170631BL | Matrix: | SOIL |
| Analytical Method: | 8270E Level: LOW | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 g Final Vol: 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 Prep Date: 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 100-52-7 | Benzaldehyde | 160 | U | 1 | 160 | 330 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 108-95-2 | Phenol | 22.1 | U | 1 | 22.1 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 111-44-4 | bis(2-Chloroethyl)ether | 24.3 | U | 1 | 24.3 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 95-57-8 | 2-Chlorophenol | 24.4 | U | 1 | 24.4 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 95-48-7 | 2-Methylphenol | 29.9 | U | 1 | 29.9 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 37.5 | U | 1 | 37.5 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 98-86-2 | Acetophenone | 29.5 | U | 1 | 29.5 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 65794-96-9 | 3+4-Methylphenols | 41.1 | U | 1 | 41.1 | 330 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 621-64-7 | n-Nitroso-di-n-propylamine | 47.4 | U | 1 | 47.4 | 79.9 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 67-72-1 | Hexachloroethane | 17.6 | U | 1 | 17.6 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 98-95-3 | Nitrobenzene | 18.3 | U | 1 | 18.3 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 78-59-1 | Isophorone | 32.8 | U | 1 | 32.8 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 88-75-5 | 2-Nitrophenol | 58.2 | U | 1 | 58.2 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 105-67-9 | 2,4-Dimethylphenol | 64.8 | U | 1 | 64.8 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 111-91-1 | bis(2-Chloroethoxy)methane | 30.8 | U | 1 | 30.8 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 120-83-2 | 2,4-Dichlorophenol | 28.3 | U | 1 | 28.3 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 91-20-3 | Naphthalene | 22.7 | U | 1 | 22.7 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 106-47-8 | 4-Chloroaniline | 35.4 | U | 1 | 35.4 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 87-68-3 | Hexachlorobutadiene | 25.3 | U | 1 | 25.3 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 105-60-2 | Caprolactam | 52.1 | U | 1 | 52.1 | 330 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 59-50-7 | 4-Chloro-3-methylphenol | 28.7 | U | 1 | 28.7 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 91-57-6 | 2-Methylnaphthalene | 25.6 | U | 1 | 25.6 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 77-47-4 | Hexachlorocyclopentadiene | 120 | U | 1 | 120 | 330 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 88-06-2 | 2,4,6-Trichlorophenol | 19.8 | U | 1 | 19.8 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 95-95-4 | 2,4,5-Trichlorophenol | 29.1 | U | 1 | 29.1 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 92-52-4 | 1,1-Biphenyl | 21.8 | U | 1 | 21.8 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 91-58-7 | 2-Chloronaphthalene | 22.5 | U | 1 | 22.5 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 88-74-4 | 2-Nitroaniline | 48.1 | U | 1 | 48.1 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 131-11-3 | Dimethylphthalate | 27.1 | U | 1 | 27.1 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 208-96-8 | Acenaphthylene | 28.9 | U | 1 | 28.9 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 606-20-2 | 2,6-Dinitrotoluene | 33.6 | U | 1 | 33.6 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 99-09-2 | 3-Nitroaniline | 46.0 | U | 1 | 46.0 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 83-32-9 | Acenaphthene | 21.3 | U | 1 | 21.3 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 51-28-5 | 2,4-Dinitrophenol | 230 | U | 1 | 230 | 330 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 100-02-7 | 4-Nitrophenol | 110 | U | 1 | 110 | 330 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 132-64-9 | Dibenzofuran | 22.7 | U | 1 | 22.7 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 121-14-2 | 2,4-Dinitrotoluene | 50.1 | U | 1 | 50.1 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 84-66-2 | Diethylphthalate | 28.3 | U | 1 | 28.3 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 26.7 | U | 1 | 26.7 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 86-73-7 | Fluorene | 25.3 | U | 1 | 25.3 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 100-01-6 | 4-Nitroaniline | 64.2 | U | 1 | 64.2 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 100 | U | 1 | 100 | 330 | ug/Kg | 11/20/25 13:25 | PB170631 |

Raw Data: **BF144291.D**

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | PB170631BL | | | SDG No.: | Q3662 |
| Lab Sample ID: | PB170631BL | | | Matrix: | SOIL |
| Analytical Method: | 8270E | Level: | LOW | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 g | Final Vol: | 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 | Prep Date: | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| 86-30-6 | n-Nitrosodiphenylamine | 32.9 | U | 1 | 32.9 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 101-55-3 | 4-Bromophenyl-phenylether | 27.8 | U | 1 | 27.8 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 118-74-1 | Hexachlorobenzene | 25.3 | U | 1 | 25.3 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 1912-24-9 | Atrazine | 34.0 | U | 1 | 34.0 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 87-86-5 | Pentachlorophenol | 51.3 | U | 1 | 51.3 | 330 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 85-01-8 | Phenanthrene | 20.9 | U | 1 | 20.9 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 120-12-7 | Anthracene | 33.3 | U | 1 | 33.3 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 86-74-8 | Carbazole | 31.2 | U | 1 | 31.2 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 84-74-2 | Di-n-butylphthalate | 47.9 | U | 1 | 47.9 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 206-44-0 | Fluoranthene | 30.0 | U | 1 | 30.0 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 129-00-0 | Pyrene | 36.0 | U | 1 | 36.0 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 85-68-7 | Butylbenzylphthalate | 71.4 | U | 1 | 71.4 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 91-94-1 | 3,3-Dichlorobenzidine | 36.7 | U | 1 | 36.7 | 330 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 56-55-3 | Benzo(a)anthracene | 23.0 | U | 1 | 23.0 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 218-01-9 | Chrysene | 19.9 | U | 1 | 19.9 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 59.2 | U | 1 | 59.2 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 117-84-0 | Di-n-octyl phthalate | 86.7 | U | 1 | 86.7 | 330 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 205-99-2 | Benzo(b)fluoranthene | 19.0 | U | 1 | 19.0 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 207-08-9 | Benzo(k)fluoranthene | 22.4 | U | 1 | 22.4 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 50-32-8 | Benzo(a)pyrene | 29.5 | U | 1 | 29.5 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 29.1 | U | 1 | 29.1 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 53-70-3 | Dibenzo(a,h)anthracene | 27.4 | U | 1 | 27.4 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 191-24-2 | Benzo(g,h,i)perylene | 25.7 | U | 1 | 25.7 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 25.6 | U | 1 | 25.6 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 123-91-1 | 1,4-Dioxane | 45.2 | U | 1 | 45.2 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 27.4 | U | 1 | 27.4 | 170 | ug/Kg | 11/20/25 13:25 | PB170631 |
| **SURROGATES** | | | | | | | | | |
| 367-12-4 | 2-Fluorophenol | 116 | | | 30 (10) - 130 (105) | 78% | SPK: 150 | | |
| 13127-88-3 | Phenol-d6 | 117 | | | 30 (10) - 130 (103) | 78% | SPK: 150 | | |
| 4165-60-0 | Nitrobenzene-d5 | 80.1 | | | 30 (10) - 130 (108) | 80% | SPK: 100 | | |
| 321-60-8 | 2-Fluorobiphenyl | 76.8 | | | 30 (10) - 130 (108) | 77% | SPK: 100 | | |
| 118-79-6 | 2,4,6-Tribromophenol | 121 | | | 30 (10) - 130 (116) | 81% | SPK: 150 | | |
| 1718-51-0 | Terphenyl-d14 | 83.3 | | | 30 (10) - 130 (109) | 83% | SPK: 100 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 60100 | | | | | | | |
| 1146-65-2 | Naphthalene-d8 | 236000 | | | | | | | |
| 15067-26-2 | Acenaphthene-d10 | 137000 | | | | | | | |
| 1517-22-2 | Phenanthrene-d10 | 248000 | | | | | | | |
| 1719-03-5 | Chrysene-d12 | 149000 | | | | | | | |
| 1520-96-3 | Perylene-d12 | 168000 | | | | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | | | |
| 006311-48-4 | (1,1-Biphenyl)-4,4-diamine, N,N | 210 | J | | | 17.2 | ug/Kg | | |

Raw Data: **BF144291.D**

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | PB170631BL | | | SDG No.: | Q3662 |
| Lab Sample ID: | PB170631BL | | | Matrix: | SOIL |
| Analytical Method: | 8270E | Level: | LOW | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 g | Final Vol: | 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 | Prep Date: | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|

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

Raw Data: **BF144292.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | |
| Project: | PVWC Linear Construction | Date Received: | |
| Client Sample ID: | PB170631BS | SDG No.: | Q3662 |
| Lab Sample ID: | PB170631BS | Matrix: | SOIL |
| Analytical Method: | 8270E Level: LOW | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 g Final Vol: 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 Prep Date: 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 100-52-7 | Benzaldehyde | 830 | | 1 | 160 | 330 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 108-95-2 | Phenol | 1400 | | 1 | 22.1 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 111-44-4 | bis(2-Chloroethyl)ether | 1500 | | 1 | 24.3 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 95-57-8 | 2-Chlorophenol | 1400 | | 1 | 24.4 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 95-48-7 | 2-Methylphenol | 1500 | | 1 | 29.9 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1500 | | 1 | 37.5 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 98-86-2 | Acetophenone | 1500 | | 1 | 29.5 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 65794-96-9 | 3+4-Methylphenols | 1400 | | 1 | 41.1 | 330 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1400 | | 1 | 47.4 | 79.9 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 67-72-1 | Hexachloroethane | 1400 | | 1 | 17.6 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 98-95-3 | Nitrobenzene | 1400 | | 1 | 18.3 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 78-59-1 | Isophorone | 1500 | | 1 | 32.8 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 88-75-5 | 2-Nitrophenol | 1400 | | 1 | 58.1 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 105-67-9 | 2,4-Dimethylphenol | 1600 | | 1 | 64.7 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1500 | | 1 | 30.8 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 120-83-2 | 2,4-Dichlorophenol | 1400 | | 1 | 28.3 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 91-20-3 | Naphthalene | 1400 | | 1 | 22.7 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 106-47-8 | 4-Chloroaniline | 880 | | 1 | 35.4 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 87-68-3 | Hexachlorobutadiene | 1300 | | 1 | 25.3 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 105-60-2 | Caprolactam | 1600 | | 1 | 52.0 | 330 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1500 | | 1 | 28.7 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 91-57-6 | 2-Methylnaphthalene | 1300 | | 1 | 25.6 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 77-47-4 | Hexachlorocyclopentadiene | 2500 | | 1 | 120 | 330 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1400 | | 1 | 19.8 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1400 | | 1 | 29.1 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 92-52-4 | 1,1-Biphenyl | 1500 | | 1 | 21.8 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 91-58-7 | 2-Chloronaphthalene | 1400 | | 1 | 22.5 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 88-74-4 | 2-Nitroaniline | 1500 | | 1 | 48.1 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 131-11-3 | Dimethylphthalate | 1500 | | 1 | 27.1 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 208-96-8 | Acenaphthylene | 1500 | | 1 | 28.9 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 606-20-2 | 2,6-Dinitrotoluene | 1500 | | 1 | 33.6 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 99-09-2 | 3-Nitroaniline | 1100 | | 1 | 46.0 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 83-32-9 | Acenaphthene | 1300 | | 1 | 21.3 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 51-28-5 | 2,4-Dinitrophenol | 3000 | E | 1 | 230 | 330 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 100-02-7 | 4-Nitrophenol | 2700 | E | 1 | 110 | 330 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 132-64-9 | Dibenzofuran | 1400 | | 1 | 22.7 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 121-14-2 | 2,4-Dinitrotoluene | 1500 | | 1 | 50.0 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 84-66-2 | Diethylphthalate | 1500 | | 1 | 28.3 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1400 | | 1 | 26.7 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 86-73-7 | Fluorene | 1400 | | 1 | 25.3 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 100-01-6 | 4-Nitroaniline | 1400 | | 1 | 64.1 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1500 | | 1 | 100 | 330 | ug/Kg | 11/20/25 13:54 | PB170631 |

Raw Data: **BF144292.D**

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | PB170631BS | | | SDG No.: | Q3662 |
| Lab Sample ID: | PB170631BS | | | Matrix: | SOIL |
| Analytical Method: | 8270E | Level: | LOW | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 g | Final Vol: | 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 | Prep Date: | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| 86-30-6 | n-Nitrosodiphenylamine | 1500 | | 1 | 32.9 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1400 | | 1 | 27.8 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 118-74-1 | Hexachlorobenzene | 1400 | | 1 | 25.3 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 1912-24-9 | Atrazine | 1600 | | 1 | 34.0 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 87-86-5 | Pentachlorophenol | 3000 | E | 1 | 51.2 | 330 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 85-01-8 | Phenanthrene | 1400 | | 1 | 20.9 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 120-12-7 | Anthracene | 1400 | | 1 | 33.3 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 86-74-8 | Carbazole | 1400 | | 1 | 31.2 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 84-74-2 | Di-n-butylphthalate | 1500 | | 1 | 47.9 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 206-44-0 | Fluoranthene | 1400 | | 1 | 30.0 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 129-00-0 | Pyrene | 1500 | | 1 | 36.0 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 85-68-7 | Butylbenzylphthalate | 1600 | | 1 | 71.3 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 91-94-1 | 3,3-Dichlorobenzidine | 1200 | | 1 | 36.7 | 330 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 56-55-3 | Benzo(a)anthracene | 1500 | | 1 | 23.0 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 218-01-9 | Chrysene | 1500 | | 1 | 19.9 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1500 | | 1 | 59.1 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 117-84-0 | Di-n-octyl phthalate | 1500 | | 1 | 86.7 | 330 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 205-99-2 | Benzo(b)fluoranthene | 1700 | | 1 | 19.0 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 207-08-9 | Benzo(k)fluoranthene | 1600 | | 1 | 22.4 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 50-32-8 | Benzo(a)pyrene | 1700 | | 1 | 29.5 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1300 | | 1 | 29.1 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1400 | | 1 | 27.4 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 191-24-2 | Benzo(g,h,i)perylene | 1300 | | 1 | 25.7 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1400 | | 1 | 25.6 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 123-91-1 | 1,4-Dioxane | 1300 | | 1 | 45.2 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1500 | | 1 | 27.4 | 170 | ug/Kg | 11/20/25 13:54 | PB170631 |
| **SURROGATES** | | | | | | | | | |
| 367-12-4 | 2-Fluorophenol | 113 | | | 30 (10) - 130 (105) | 76% | SPK: 150 | | |
| 13127-88-3 | Phenol-d6 | 116 | | | 30 (10) - 130 (103) | 77% | SPK: 150 | | |
| 4165-60-0 | Nitrobenzene-d5 | 79.0 | | | 30 (10) - 130 (108) | 79% | SPK: 100 | | |
| 321-60-8 | 2-Fluorobiphenyl | 75.9 | | | 30 (10) - 130 (108) | 76% | SPK: 100 | | |
| 118-79-6 | 2,4,6-Tribromophenol | 117 | | | 30 (10) - 130 (116) | 78% | SPK: 150 | | |
| 1718-51-0 | Terphenyl-d14 | 84.1 | | | 30 (10) - 130 (109) | 84% | SPK: 100 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 65000 | | | | | | | |
| 1146-65-2 | Naphthalene-d8 | 256000 | | | | | | | |
| 15067-26-2 | Acenaphthene-d10 | 148000 | | | | | | | |
| 1517-22-2 | Phenanthrene-d10 | 246000 | | | | | | | |
| 1719-03-5 | Chrysene-d12 | 145000 | | | | | | | |
| 1520-96-3 | Perylene-d12 | 168000 | | | | | | | |

Raw Data: **BF144292.D**

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | PB170631BS | | | SDG No.: | Q3662 |
| Lab Sample ID: | PB170631BS | | | Matrix: | SOIL |
| Analytical Method: | 8270E | Level: | LOW | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 g | Final Vol: | 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 | Prep Date: | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|

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

Raw Data: **BF144303.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.0-1.0-20251117MS | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-02MS | Matrix: | SOIL |
| Analytical Method: | 8270E Level: LOW | % Solid: | 84.7 |
| Sample Wt/Vol: | 30.08 g Final Vol: 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 Prep Date: 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 100-52-7 | Benzaldehyde | 1500 | | 1 | 180 | 390 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 108-95-2 | Phenol | 1700 | | 1 | 26.0 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 111-44-4 | bis(2-Chloroethyl)ether | 1800 | | 1 | 28.6 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 95-57-8 | 2-Chlorophenol | 1800 | | 1 | 28.7 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 95-48-7 | 2-Methylphenol | 1800 | | 1 | 35.2 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1800 | | 1 | 44.2 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 98-86-2 | Acetophenone | 1900 | | 1 | 34.7 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 65794-96-9 | 3+4-Methylphenols | 1800 | | 1 | 48.4 | 390 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1800 | | 1 | 55.8 | 94.2 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 67-72-1 | Hexachloroethane | 1700 | | 1 | 20.7 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 98-95-3 | Nitrobenzene | 1800 | | 1 | 21.5 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 78-59-1 | Isophorone | 1800 | | 1 | 38.6 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 88-75-5 | 2-Nitrophenol | 1500 | | 1 | 68.5 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 105-67-9 | 2,4-Dimethylphenol | 2000 | | 1 | 76.3 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1800 | | 1 | 36.3 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 120-83-2 | 2,4-Dichlorophenol | 1700 | | 1 | 33.3 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 91-20-3 | Naphthalene | 1800 | | 1 | 26.7 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 106-47-8 | 4-Chloroaniline | 450 | | 1 | 41.7 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 87-68-3 | Hexachlorobutadiene | 1700 | | 1 | 29.8 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 105-60-2 | Caprolactam | 1800 | | 1 | 61.3 | 390 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1600 | | 1 | 33.8 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 91-57-6 | 2-Methylnaphthalene | 1600 | | 1 | 30.1 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 77-47-4 | Hexachlorocyclopentadiene | 1200 | | 1 | 140 | 390 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1700 | | 1 | 23.3 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700 | | 1 | 34.3 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 92-52-4 | 1,1-Biphenyl | 1900 | | 1 | 25.7 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 91-58-7 | 2-Chloronaphthalene | 1800 | | 1 | 26.5 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 88-74-4 | 2-Nitroaniline | 1900 | | 1 | 56.6 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 131-11-3 | Dimethylphthalate | 1900 | | 1 | 31.9 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 208-96-8 | Acenaphthylene | 2000 | | 1 | 34.0 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 606-20-2 | 2,6-Dinitrotoluene | 1900 | | 1 | 39.6 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 99-09-2 | 3-Nitroaniline | 1300 | | 1 | 54.2 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 83-32-9 | Acenaphthene | 1600 | | 1 | 25.1 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 51-28-5 | 2,4-Dinitrophenol | 280 | J | 1 | 270 | 390 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 100-02-7 | 4-Nitrophenol | 3600 | E | 1 | 130 | 390 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 132-64-9 | Dibenzofuran | 1800 | | 1 | 26.7 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 121-14-2 | 2,4-Dinitrotoluene | 1800 | | 1 | 59.0 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 84-66-2 | Diethylphthalate | 1900 | | 1 | 33.3 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1700 | | 1 | 31.4 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 86-73-7 | Fluorene | 1800 | | 1 | 29.8 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 100-01-6 | 4-Nitroaniline | 1900 | | 1 | 75.6 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 220 | J | 1 | 120 | 390 | ug/Kg | 11/20/25 19:26 | PB170631 |

Raw Data: **BF144303.D**

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | | | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.0-1.0-20251117MS | | | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-02MS | | | Matrix: | SOIL |
| Analytical Method: | 8270E | Level: | LOW | % Solid: | 84.7 |
| Sample Wt/Vol: | 30.08 g | Final Vol: | 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 | Prep Date: | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| 86-30-6 | n-Nitrosodiphenylamine | 1800 | | 1 | 38.7 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1700 | | 1 | 32.7 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 118-74-1 | Hexachlorobenzene | 1700 | | 1 | 29.8 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 1912-24-9 | Atrazine | 1900 | | 1 | 40.0 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 87-86-5 | Pentachlorophenol | 3300 | E | 1 | 60.4 | 390 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 85-01-8 | Phenanthrene | 1900 | | 1 | 24.6 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 120-12-7 | Anthracene | 1800 | | 1 | 39.2 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 86-74-8 | Carbazole | 2000 | | 1 | 36.7 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 84-74-2 | Di-n-butylphthalate | 1900 | | 1 | 56.4 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 206-44-0 | Fluoranthene | 2300 | | 1 | 35.3 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 129-00-0 | Pyrene | 1800 | | 1 | 42.4 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 85-68-7 | Butylbenzylphthalate | 1900 | | 1 | 84.1 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 91-94-1 | 3,3-Dichlorobenzidine | 1300 | | 1 | 43.2 | 390 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 56-55-3 | Benzo(a)anthracene | 1900 | | 1 | 27.1 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 218-01-9 | Chrysene | 1900 | | 1 | 23.4 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 2000 | | 1 | 69.7 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 117-84-0 | Di-n-octyl phthalate | 1900 | | 1 | 100 | 390 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 205-99-2 | Benzo(b)fluoranthene | 2300 | | 1 | 22.4 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 207-08-9 | Benzo(k)fluoranthene | 2100 | | 1 | 26.4 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 50-32-8 | Benzo(a)pyrene | 2000 | | 1 | 34.7 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1500 | | 1 | 34.3 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1500 | | 1 | 32.3 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 191-24-2 | Benzo(g,h,i)perylene | 1500 | | 1 | 30.3 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1800 | | 1 | 30.1 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 123-91-1 | 1,4-Dioxane | 2000 | | 1 | 53.2 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1900 | | 1 | 32.3 | 200 | ug/Kg | 11/20/25 19:26 | PB170631 |
| **SURROGATES** | | | | | | | | | |
| 367-12-4 | 2-Fluorophenol | 70.7 | | | 30 (10) - 130 (105) | 47% | SPK: 150 | | |
| 13127-88-3 | Phenol-d6 | 70.1 | | | 30 (10) - 130 (103) | 47% | SPK: 150 | | |
| 4165-60-0 | Nitrobenzene-d5 | 48.9 | | | 30 (10) - 130 (108) | 49% | SPK: 100 | | |
| 321-60-8 | 2-Fluorobiphenyl | 50.4 | | | 30 (10) - 130 (108) | 50% | SPK: 100 | | |
| 118-79-6 | 2,4,6-Tribromophenol | 65.4 | | | 30 (10) - 130 (116) | 44% | SPK: 150 | | |
| 1718-51-0 | Terphenyl-d14 | 42.1 | | | 30 (10) - 130 (109) | 42% | SPK: 100 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 47800 | | | | | | | |
| 1146-65-2 | Naphthalene-d8 | 175000 | | | | | | | |
| 15067-26-2 | Acenaphthene-d10 | 88300 | | | | | | | |
| 1517-22-2 | Phenanthrene-d10 | 153000 | | | | | | | |
| 1719-03-5 | Chrysene-d12 | 129000 | | | | | | | |
| 1520-96-3 | Perylene-d12 | 103000 | | | | | | | |

Raw Data: **BF144303.D**

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | | | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.0-1.0-20251117MS | | | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-02MS | | | Matrix: | SOIL |
| Analytical Method: | 8270E | Level: | LOW | % Solid: | 84.7 |
| Sample Wt/Vol: | 30.08 g | Final Vol: | 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 | Prep Date: | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|

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

Raw Data: **BF144304.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.0-1.0-20251117MSD | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-02MSD | Matrix: | SOIL |
| Analytical Method: | 8270E Level: LOW | % Solid: | 84.7 |
| Sample Wt/Vol: | 30.07 g Final Vol: 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 Prep Date: 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 100-52-7 | Benzaldehyde | 1700 | | 1 | 180 | 390 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 108-95-2 | Phenol | 1800 | | 1 | 26.0 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 111-44-4 | bis(2-Chloroethyl)ether | 2000 | | 1 | 28.6 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 95-57-8 | 2-Chlorophenol | 1900 | | 1 | 28.7 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 95-48-7 | 2-Methylphenol | 1900 | | 1 | 35.2 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1900 | | 1 | 44.2 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 98-86-2 | Acetophenone | 2000 | | 1 | 34.7 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 65794-96-9 | 3+4-Methylphenols | 1800 | | 1 | 48.4 | 390 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1900 | | 1 | 55.8 | 94.2 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 67-72-1 | Hexachloroethane | 1800 | | 1 | 20.7 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 98-95-3 | Nitrobenzene | 2000 | | 1 | 21.6 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 78-59-1 | Isophorone | 2000 | | 1 | 38.6 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 88-75-5 | 2-Nitrophenol | 1700 | | 1 | 68.6 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 105-67-9 | 2,4-Dimethylphenol | 2100 | | 1 | 76.3 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 111-91-1 | bis(2-Chloroethoxy)methane | 2000 | | 1 | 36.3 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 120-83-2 | 2,4-Dichlorophenol | 1800 | | 1 | 33.3 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 91-20-3 | Naphthalene | 1900 | | 1 | 26.7 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 106-47-8 | 4-Chloroaniline | 500 | | 1 | 41.7 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 87-68-3 | Hexachlorobutadiene | 1800 | | 1 | 29.8 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 105-60-2 | Caprolactam | 1900 | | 1 | 61.4 | 390 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1700 | | 1 | 33.8 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 91-57-6 | 2-Methylnaphthalene | 1700 | | 1 | 30.2 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 77-47-4 | Hexachlorocyclopentadiene | 1300 | | 1 | 140 | 390 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1900 | | 1 | 23.3 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | | 1 | 34.3 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 92-52-4 | 1,1-Biphenyl | 2000 | | 1 | 25.7 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 91-58-7 | 2-Chloronaphthalene | 1900 | | 1 | 26.5 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 88-74-4 | 2-Nitroaniline | 2100 | | 1 | 56.7 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 131-11-3 | Dimethylphthalate | 2000 | | 1 | 31.9 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 208-96-8 | Acenaphthylene | 2100 | | 1 | 34.0 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 606-20-2 | 2,6-Dinitrotoluene | 2000 | | 1 | 39.6 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 99-09-2 | 3-Nitroaniline | 1400 | | 1 | 54.2 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 83-32-9 | Acenaphthene | 1700 | | 1 | 25.1 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 51-28-5 | 2,4-Dinitrophenol | 270 | U | 1 | 270 | 390 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 100-02-7 | 4-Nitrophenol | 3800 | E | 1 | 130 | 390 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 132-64-9 | Dibenzofuran | 1900 | | 1 | 26.7 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 121-14-2 | 2,4-Dinitrotoluene | 1900 | | 1 | 59.0 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 84-66-2 | Diethylphthalate | 2000 | | 1 | 33.3 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1800 | | 1 | 31.4 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 86-73-7 | Fluorene | 1900 | | 1 | 29.8 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 100-01-6 | 4-Nitroaniline | 2000 | | 1 | 75.6 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 210 | J | 1 | 120 | 390 | ug/Kg | 11/20/25 19:56 | PB170631 |

Raw Data: **BF144304.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.0-1.0-20251117MSD | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-02MSD | Matrix: | SOIL |
| Analytical Method: | 8270E Level: LOW | % Solid: | 84.7 |
| Sample Wt/Vol: | 30.07 g Final Vol: 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 Prep Date: 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| 86-30-6 | n-Nitrosodiphenylamine | 1900 | | 1 | 38.8 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1700 | | 1 | 32.7 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 118-74-1 | Hexachlorobenzene | 1800 | | 1 | 29.8 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 1912-24-9 | Atrazine | 1900 | | 1 | 40.0 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 87-86-5 | Pentachlorophenol | 3400 | E | 1 | 60.4 | 390 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 85-01-8 | Phenanthrene | 2000 | | 1 | 24.6 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 120-12-7 | Anthracene | 1900 | | 1 | 39.2 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 86-74-8 | Carbazole | 2100 | | 1 | 36.8 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 84-74-2 | Di-n-butylphthalate | 2000 | | 1 | 56.4 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 206-44-0 | Fluoranthene | 2400 | | 1 | 35.3 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 129-00-0 | Pyrene | 1900 | | 1 | 42.4 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 85-68-7 | Butylbenzylphthalate | 2100 | | 1 | 84.1 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 91-94-1 | 3,3-Dichlorobenzidine | 1400 | | 1 | 43.2 | 390 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 56-55-3 | Benzo(a)anthracene | 2100 | | 1 | 27.1 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 218-01-9 | Chrysene | 2000 | | 1 | 23.4 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 2100 | | 1 | 69.7 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 117-84-0 | Di-n-octyl phthalate | 2000 | | 1 | 100 | 390 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 205-99-2 | Benzo(b)fluoranthene | 2400 | | 1 | 22.4 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 207-08-9 | Benzo(k)fluoranthene | 2200 | | 1 | 26.4 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 50-32-8 | Benzo(a)pyrene | 2100 | | 1 | 34.7 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1600 | | 1 | 34.3 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1600 | | 1 | 32.3 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 191-24-2 | Benzo(g,h,i)perylene | 1600 | | 1 | 30.3 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1900 | | 1 | 30.2 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 123-91-1 | 1,4-Dioxane | 2100 | | 1 | 53.2 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 2000 | | 1 | 32.3 | 200 | ug/Kg | 11/20/25 19:56 | PB170631 |
| **SURROGATES** | | | | | | | | | |
| 367-12-4 | 2-Fluorophenol | 76.7 | | | 30 (10) - 130 (105) | 51% | SPK: 150 | | |
| 13127-88-3 | Phenol-d6 | 74.5 | | | 30 (10) - 130 (103) | 50% | SPK: 150 | | |
| 4165-60-0 | Nitrobenzene-d5 | 52.5 | | | 30 (10) - 130 (108) | 52% | SPK: 100 | | |
| 321-60-8 | 2-Fluorobiphenyl | 52.9 | | | 30 (10) - 130 (108) | 53% | SPK: 100 | | |
| 118-79-6 | 2,4,6-Tribromophenol | 70.7 | | | 30 (10) - 130 (116) | 47% | SPK: 150 | | |
| 1718-51-0 | Terphenyl-d14 | 45.1 | | | 30 (10) - 130 (109) | 45% | SPK: 100 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 44100 | | | | | | | |
| 1146-65-2 | Naphthalene-d8 | 160000 | | | | | | | |
| 15067-26-2 | Acenaphthene-d10 | 80500 | | | | | | | |
| 1517-22-2 | Phenanthrene-d10 | 144000 | | | | | | | |
| 1719-03-5 | Chrysene-d12 | 119000 | | | | | | | |
| 1520-96-3 | Perylene-d12 | 95300 | | | | | | | |

Raw Data: **BF144304.D**

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | | | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.0-1.0-20251117MSD | | | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-02MSD | | | Matrix: | SOIL |
| Analytical Method: | 8270E | Level: | LOW | % Solid: | 84.7 |
| Sample Wt/Vol: | 30.07 g | Final Vol: | 1000 uL | Test: | SVOC-TCL BNA -20 |
| Prep Method : | SW3541 | Prep Date: | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|

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-BF110525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 05 18:37:33 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF144169.D 5 =BF144170.D 10 =BF144171.D 20 =BF144172.D 40 =BF144173.D 50 =BF144174.D 60 =BF144175.D 80 =BF1441
76.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.526 | 0.487 | 0.518 | 0.554 | 0.500 | 0.573 | 0.540 | 0.528 | 5.68 |
| 3) | | Pyridine | | 1.374 | 1.406 | 1.491 | 1.520 | 1.378 | 1.607 | 1.543 | 1.474 | 6.12 |
| 4) | | n-Nitrosodimet... | | | 0.719 | 0.726 | 0.775 | 0.723 | 0.868 | 0.810 | 0.770 | 7.79 |
| 5) | S | 2-Fluorophenol | | 1.332 | 1.303 | 1.316 | 1.315 | 1.157 | 1.330 | 1.193 | 1.278 | 5.62 |
| 6) | | Aniline | | 2.194 | 2.169 | 2.114 | 2.067 | 1.841 | 2.139 | 1.920 | 2.063 | 6.46 |
| 7) | S | Phenol-d6 | | 1.566 | 1.518 | 1.511 | 1.460 | 1.281 | 1.461 | 1.339 | 1.448 | 7.08 |
| 8) | | 2-Chlorophenol | | 1.242 | 1.309 | 1.292 | 1.281 | 1.152 | 1.293 | 1.204 | 1.253 | 4.59 |
| 9) | | Benzaldehyde | | | 1.033 | 0.917 | 0.816 | 0.672 | 0.786 | 0.683 | 0.818 | 16.99 |
| 10) | C | Phenol | | 1.845 | 1.896 | 1.840 | 1.858 | 1.562 | 1.790 | 1.594 | 1.769 | 7.60 |
| 11) | | bis(2-Chloroet... | | 1.278 | 1.333 | 1.342 | 1.316 | 1.155 | 1.341 | 1.259 | 1.289 | 5.22 |
| 12) | | 1,3-Dichlorobe... | | 1.677 | 1.573 | 1.583 | 1.541 | 1.397 | 1.586 | 1.468 | 1.547 | 5.86 |
| 13) | C | 1,4-Dichlorobe... | | 1.669 | 1.563 | 1.583 | 1.591 | 1.372 | 1.604 | 1.464 | 1.549 | 6.40 |
| 14) | | 1,2-Dichlorobe... | | 1.651 | 1.510 | 1.488 | 1.485 | 1.325 | 1.533 | 1.404 | 1.485 | 6.88 |
| 15) | | Benzyl Alcohol | | | 1.140 | 1.188 | 1.161 | 1.050 | 1.197 | 1.145 | 1.147 | 4.61 |
| 16) | | 2,2'-oxybis(1-... | | 2.408 | 2.470 | 2.496 | 2.418 | 2.147 | 2.442 | 2.238 | 2.374 | 5.50 |
| 17) | | 2-Methylphenol | | 1.031 | 1.054 | 1.007 | 1.033 | 0.895 | 1.002 | 0.958 | 0.997 | 5.44 |
| 18) | | Hexachloroethane | | 0.512 | 0.513 | 0.532 | 0.532 | 0.467 | 0.543 | 0.504 | 0.515 | 4.90 |
| 19) | P | n-Nitroso-di-n... | 0.998 | 1.010 | 1.023 | 0.996 | 0.950 | 0.813 | 0.937 | 0.900 | 0.953 | 7.38 |
| 20) | | 3+4-Methylphenols | | | 1.330 | 1.223 | 1.215 | 1.030 | 1.175 | 1.080 | 1.175 | 9.16 |
| 21) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | |
| 22) | | Acetophenone | | 0.479 | 0.464 | 0.434 | 0.434 | 0.380 | 0.421 | 0.391 | 0.429 | 8.34 |
| 23) | S | Nitrobenzene-d5 | | 0.343 | 0.352 | 0.349 | 0.360 | 0.321 | 0.361 | 0.338 | 0.346 | 4.07 |
| 24) | | Nitrobenzene | | 0.370 | 0.390 | 0.376 | 0.388 | 0.342 | 0.398 | 0.368 | 0.376 | 4.90 |
| 25) | | Isophorone | | 0.659 | 0.668 | 0.669 | 0.673 | 0.581 | 0.675 | 0.659 | 0.655 | 5.05 |
| 26) | C | 2-Nitrophenol | | 0.167 | 0.187 | 0.191 | 0.197 | 0.174 | 0.200 | 0.186 | 0.186 | 6.47 |
| 27) | | 2,4-Dimethylph... | | 0.281 | 0.278 | 0.265 | 0.298 | 0.260 | 0.295 | 0.275 | 0.279 | 5.08 |
| 28) | | bis(2-Chloroet... | | 0.426 | 0.417 | 0.412 | 0.423 | 0.372 | 0.423 | 0.390 | 0.409 | 5.02 |
| 29) | C | 2,4-Dichloroph... | | 0.334 | 0.342 | 0.330 | 0.331 | 0.289 | 0.326 | 0.297 | 0.322 | 6.20 |
| 30) | | 1,2,4-Trichlor... | | 0.350 | 0.349 | 0.332 | 0.337 | 0.296 | 0.335 | 0.312 | 0.330 | 5.96 |
| 31) | | Naphthalene | | 1.019 | 1.008 | 0.982 | 0.969 | 0.850 | 0.952 | 0.880 | 0.951 | 6.71 |
| 32) | | Benzoic acid | | | 0.268 | 0.220 | 0.180 | 0.165 | 0.190 | 0.204 | 0.204 | 17.90 |
| 33) | | 4-Chloroaniline | | 0.358 | 0.364 | 0.355 | 0.362 | 0.309 | 0.355 | 0.326 | 0.347 | 6.07 |
| 34) | C | Hexachlorobuta... | | 0.256 | 0.250 | 0.252 | 0.259 | 0.232 | 0.254 | 0.238 | 0.249 | 4.03 |
| 35) | | Caprolactam | | | 0.094 | 0.093 | 0.092 | 0.075 | 0.087 | 0.088 | 0.088 | 8.10 |
| 36) | C | 4-Chloro-3-met... | | 0.283 | 0.307 | 0.304 | 0.297 | 0.259 | 0.290 | 0.277 | 0.288 | 5.77 |
| 37) | | 2-Methylnaphth... | | 0.702 | 0.672 | 0.665 | 0.647 | 0.559 | 0.623 | 0.583 | 0.636 | 7.98 |
| 38) | | 1-Methylnaphth... | | 0.667 | 0.681 | 0.632 | 0.620 | 0.536 | 0.600 | 0.561 | 0.614 | 8.61 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110525.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.677 | 0.662 | 0.659 | 0.675 | 0.588 | 0.716 | 0.611 | 0.655 | 6.57 |
| 41) | P | Hexachlorocycl... | | 0.121 | 0.142 | 0.200 | 0.204 | 0.253 | 0.248 | 0.195 | 27.78 |
| 42) | S | 2,4,6-Tribromo... | 0.242 | 0.257 | 0.257 | 0.265 | 0.227 | 0.261 | 0.249 | 0.251 | 5.27 |
| 43) | C | 2,4,6-Trichlor... | 0.440 | 0.449 | 0.449 | 0.456 | 0.409 | 0.489 | 0.431 | 0.446 | 5.49 |
| 44) | | 2,4,5-Trichlor... | 0.497 | 0.489 | 0.497 | 0.489 | 0.438 | 0.502 | 0.456 | 0.481 | 5.05 |
| 45) | S | 2-Fluorobiphenyl | 1.598 | 1.428 | 1.361 | 1.350 | 1.177 | 1.381 | 1.183 | 1.354 | 10.72 |
| 46) | | 1,1'-Biphenyl | 1.535 | 1.446 | 1.425 | 1.408 | 1.239 | 1.450 | 1.270 | 1.396 | 7.52 |
| 47) | | 2-Chloronaphth... | 1.303 | 1.216 | 1.206 | 1.204 | 1.068 | 1.252 | 1.087 | 1.191 | 7.12 |
| 48) | | 2-Nitroaniline | 0.302 | 0.347 | 0.349 | 0.361 | 0.326 | 0.374 | 0.345 | 0.344 | 6.84 |
| 49) | | Acenaphthylene | 1.727 | 1.686 | 1.677 | 1.645 | 1.440 | 1.678 | 1.506 | 1.623 | 6.57 |
| 50) | | Dimethylphthalate | 1.437 | 1.343 | 1.359 | 1.345 | 1.168 | 1.375 | 1.247 | 1.325 | 6.71 |
| 51) | | 2,6-Dinitrotol... | 0.251 | 0.271 | 0.271 | 0.276 | 0.252 | 0.290 | 0.266 | 0.268 | 5.16 |
| 52) | C | Acenaphthene | 1.138 | 1.162 | 1.120 | 1.096 | 0.956 | 1.117 | 1.007 | 1.085 | 6.90 |
| 53) | | 3-Nitroaniline | 0.271 | 0.301 | 0.302 | 0.315 | 0.264 | 0.316 | 0.283 | 0.293 | 7.07 |
| 54) | P | 2,4-Dinitrophenol | | 0.202 | 0.166 | 0.140 | 0.133 | 0.168 | 0.164 | 0.162 | 14.99 |
| 55) | | Dibenzofuran | 1.644 | 1.600 | 1.586 | 1.551 | 1.337 | 1.562 | 1.359 | 1.520 | 7.99 |
| 56) | P | 4-Nitrophenol | | 0.273 | 0.202 | 0.204 | 0.185 | 0.211 | 0.198 | 0.212 | 14.64 |
| 57) | | 2,4-Dinitrotol... | 0.322 | 0.377 | 0.372 | 0.385 | 0.328 | 0.377 | 0.353 | 0.359 | 7.07 |
| 58) | | Fluorene | 1.295 | 1.223 | 1.197 | 1.180 | 0.997 | 1.149 | 1.048 | 1.156 | 8.88 |
| 59) | | 2,3,4,6-Tetrac... | 0.308 | 0.347 | 0.336 | 0.358 | 0.316 | 0.372 | 0.345 | 0.340 | 6.58 |
| 60) | | Diethylphthalate | 1.294 | 1.273 | 1.254 | 1.254 | 1.075 | 1.237 | 1.163 | 1.221 | 6.27 |
| 61) | | 4-Chlorophenyl... | 0.711 | 0.701 | 0.678 | 0.685 | 0.570 | 0.659 | 0.605 | 0.658 | 7.92 |
| 62) | | 4-Nitroaniline | 0.273 | 0.290 | 0.293 | 0.288 | 0.254 | 0.288 | 0.268 | 0.279 | 5.10 |
| 63) | | Azobenzene | 1.157 | 1.203 | 1.145 | 1.164 | 0.995 | 1.197 | 1.096 | 1.137 | 6.33 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.147 | 0.138 | 0.130 | 0.120 | 0.142 | 0.138 | 0.136 | 6.99 |
| 66) | c | n-Nitrosodiphe... | 0.695 | 0.676 | 0.635 | 0.646 | 0.577 | 0.660 | 0.614 | 0.643 | 6.12 |
| 67) | | 4-Bromophenyl-... | 0.264 | 0.260 | 0.255 | 0.263 | 0.228 | 0.266 | 0.252 | 0.255 | 5.18 |
| 68) | | Hexachlorobenzene | 0.306 | 0.306 | 0.305 | 0.300 | 0.273 | 0.319 | 0.296 | 0.301 | 4.74 |
| 69) | | Atrazine | 0.215 | 0.211 | 0.215 | 0.206 | 0.180 | 0.210 | 0.196 | 0.205 | 6.26 |
| 70) | C | Pentachlorophenol | | 0.135 | 0.144 | 0.156 | 0.137 | 0.162 | 0.165 | 0.150 | 8.76 |
| 71) | | Phenanthrene | 1.103 | 1.042 | 0.986 | 1.009 | 0.892 | 1.003 | 0.937 | 0.996 | 6.87 |
| 72) | | Anthracene | 1.120 | 1.059 | 1.027 | 1.022 | 0.897 | 1.027 | 0.936 | 1.013 | 7.37 |
| 73) | | Carbazole | 0.938 | 0.917 | 0.882 | 0.878 | 0.762 | 0.854 | 0.794 | 0.861 | 7.36 |
| 74) | | Di-n-butylphth... | 1.075 | 1.101 | 1.077 | 1.070 | 0.917 | 1.059 | 0.986 | 1.041 | 6.27 |
| 75) | C | Fluoranthene | 1.117 | 1.066 | 1.053 | 1.054 | 0.910 | 1.043 | 0.958 | 1.029 | 6.84 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | | 0.707 | 0.519 | 0.624 | 0.512 | 0.635 | 0.553 | 0.592 | 12.98 |
| 78) | | Pyrene | 1.763 | 1.745 | 1.631 | 1.704 | 1.372 | 1.569 | 1.504 | 1.613 | 8.79 |
| 79) | S | Terphenyl-d14 | 1.403 | 1.415 | 1.274 | 1.317 | 1.042 | 1.208 | 1.155 | 1.259 | 10.71 |
| 80) | | Butylbenzylpht... | 0.565 | 0.590 | 0.550 | 0.590 | 0.499 | 0.570 | 0.549 | 0.559 | 5.60 |
| 81) | | Benzo(a)anthra... | 1.455 | 1.340 | 1.330 | 1.430 | 1.290 | 1.493 | 1.366 | 1.386 | 5.37 |
| 82) | | 3,3'-Dichlorob... | | 0.453 | 0.461 | 0.482 | 0.441 | 0.532 | 0.481 | 0.475 | 6.77 |
| 83) | | Chrysene | 1.276 | 1.245 | 1.279 | 1.403 | 1.164 | 1.326 | 1.263 | 1.280 | 5.72 |
| 84) | | Bis(2-ethylhex... | 0.773 | 0.739 | 0.755 | 0.816 | 0.705 | 0.803 | 0.764 | 0.765 | 4.92 |
| 85) | c | Di-n-octyl pht... | | 1.163 | 1.272 | 1.410 | 1.269 | 1.442 | 1.364 | 1.320 | 7.91 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110525.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.450 | 1.411 | 1.447 | 1.485 | 1.311 | 1.521 | 1.425 | 1.436 | 4.62 |
| 88) | | Benzo(b)fluora... | 1.199 | 1.133 | 1.114 | 1.233 | 1.002 | 1.134 | 1.143 | 1.137 | 6.40 |
| 89) | | Benzo(k)fluora... | 1.077 | 1.094 | 1.083 | 1.041 | 0.999 | 1.134 | 1.021 | 1.064 | 4.36 |
| 90) | C | Benzo(a)pyrene | 1.064 | 1.050 | 1.058 | 1.077 | 0.963 | 1.103 | 1.029 | 1.049 | 4.23 |
| 91) | | Dibenzo(a,h)an... | 1.155 | 1.155 | 1.175 | 1.198 | 1.040 | 1.209 | 1.138 | 1.153 | 4.85 |
| 92) | | Benzo(g,h,i)pe... | 1.095 | 1.125 | 1.153 | 1.191 | 1.028 | 1.228 | 1.150 | 1.139 | 5.70 |

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG No.: Q3662

Instrument ID: BNA_F Calibration Date/Time: 11/20/2025 12:32

Lab File ID: BF144290.D Init. Calib. Date(s): 11/05/2025 11/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:50 16:49

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.278 | 1.301 | | 1.8 | |
| Benzaldehyde | 0.818 | 0.977 | | 19.4 | |
| Phenol-d6 | 1.448 | 1.429 | | -1.3 | |
| Phenol | 1.769 | 1.773 | | 0.2 | 20.0 |
| bis(2-Chloroethyl)ether | 1.289 | 1.313 | | 1.9 | |
| 2-Chlorophenol | 1.253 | 1.249 | | -0.3 | |
| 2-Methylphenol | 0.997 | 0.992 | | -0.5 | |
| 2,2-oxybis(1-Chloropropane) | 2.374 | 2.385 | | 0.5 | |
| Acetophenone | 0.429 | 0.406 | | -5.4 | |
| 3+4-Methylphenols | 1.175 | 1.129 | | -3.9 | |
| n-Nitroso-di-n-propylamine | 0.953 | 0.895 | 0.050 | -6.1 | |
| Nitrobenzene-d5 | 0.346 | 0.336 | | -2.9 | |
| Hexachloroethane | 0.515 | 0.517 | | 0.4 | |
| Nitrobenzene | 0.376 | 0.372 | | -1.1 | |
| Isophorone | 0.655 | 0.641 | | -2.1 | |
| 2-Nitrophenol | 0.186 | 0.189 | | 1.6 | 20.0 |
| 2,4-Dimethylphenol | 0.279 | 0.276 | | -1.1 | |
| bis(2-Chloroethoxy)methane | 0.409 | 0.403 | | -1.5 | |
| 2,4-Dichlorophenol | 0.322 | 0.313 | | -2.8 | 20.0 |
| Naphthalene | 0.951 | 0.914 | | -3.9 | |
| 4-Chloroaniline | 0.347 | 0.336 | | -3.2 | |
| Hexachlorobutadiene | 0.249 | 0.238 | | -4.4 | 20.0 |
| Caprolactam | 0.088 | 0.083 | | -5.7 | |
| 4-Chloro-3-methylphenol | 0.288 | 0.272 | | -5.6 | 20.0 |
| 2-Methylnaphthalene | 0.636 | 0.611 | | -3.9 | |
| Hexachlorocyclopentadiene | 0.195 | 0.183 | 0.050 | -6.2 | |
| 2,4,6-Trichlorophenol | 0.446 | 0.443 | | -0.7 | 20.0 |
| 2-Fluorobiphenyl | 1.354 | 1.285 | | -5.1 | |
| 2,4,5-Trichlorophenol | 0.481 | 0.458 | | -4.8 | |
| 1,1-Biphenyl | 1.396 | 1.361 | | -2.5 | |
| 2-Chloronaphthalene | 1.191 | 1.142 | | -4.1 | |
| 2-Nitroaniline | 0.344 | 0.341 | | -0.9 | |
| Dimethylphthalate | 1.325 | 1.316 | | -0.7 | |
| Acenaphthylene | 1.623 | 1.561 | | -3.8 | |
| 2,6-Dinitrotoluene | 0.268 | 0.272 | | 1.5 | |
| 3-Nitroaniline | 0.293 | 0.297 | | 1.4 | |
| Acenaphthene | 1.085 | 0.997 | | -8.1 | 20.0 |
| 2,4-Dinitrophenol | 0.162 | 0.224 | 0.050 | 38.3 | |
| 4-Nitrophenol | 0.212 | 0.233 | 0.050 | 9.9 | |

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG No.: Q3662

Instrument ID: BNA_F Calibration Date/Time: 11/20/2025 12:32

Lab File ID: BF144290.D Init. Calib. Date(s): 11/05/2025 11/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:50 16:49

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.520 | 1.446 | | -4.9 | |
| 2,4-Dinitrotoluene | 0.359 | 0.355 | | -1.1 | |
| Diethylphthalate | 1.221 | 1.197 | | -2.0 | |
| 4-Chlorophenyl-phenylether | 0.658 | 0.620 | | -5.8 | |
| Fluorene | 1.156 | 1.112 | | -3.8 | |
| 4-Nitroaniline | 0.279 | 0.271 | | -2.9 | |
| 4,6-Dinitro-2-methylphenol | 0.136 | 0.129 | | -5.1 | |
| n-Nitrosodiphenylamine | 0.643 | 0.660 | | 2.6 | 20.0 |
| 2,4,6-Tribromophenol | 0.251 | 0.225 | | -10.4 | |
| 4-Bromophenyl-phenylether | 0.255 | 0.243 | | -4.7 | |
| Hexachlorobenzene | 0.301 | 0.276 | | -8.3 | |
| Atrazine | 0.205 | 0.187 | | -8.8 | |
| Pentachlorophenol | 0.150 | 0.168 | | 12.0 | 20.0 |
| Phenanthrene | 0.996 | 0.948 | | -4.8 | |
| Anthracene | 1.013 | 0.956 | | -5.6 | |
| Carbazole | 0.861 | 0.809 | | -6.0 | |
| Di-n-butylphthalate | 1.041 | 1.038 | | -0.3 | |
| Fluoranthene | 1.029 | 0.928 | | -9.8 | 20.0 |
| Pyrene | 1.613 | 1.445 | | -10.4 | |
| Terphenyl-d14 | 1.259 | 1.100 | | -12.6 | |
| Butylbenzylphthalate | 0.559 | 0.532 | | -4.8 | |
| 3,3-Dichlorobenzidine | 0.475 | 0.464 | | -2.3 | |
| Benzo(a)anthracene | 1.386 | 1.387 | | 0.1 | |
| Chrysene | 1.280 | 1.240 | | -3.1 | |
| Bis(2-ethylhexyl)phthalate | 0.765 | 0.747 | | -2.4 | |
| Di-n-octyl phthalate | 1.320 | 1.354 | | 2.6 | 20.0 |
| Benzo(b)fluoranthene | 1.137 | 1.266 | | 11.3 | |
| Benzo(k)fluoranthene | 1.064 | 0.991 | | -6.9 | |
| Benzo(a)pyrene | 1.049 | 1.038 | | -1.0 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.436 | 1.199 | | -16.5 | |
| Dibenzo(a,h)anthracene | 1.153 | 0.976 | | -15.4 | |
| Benzo(g,h,i)perylene | 1.139 | 0.918 | | -19.4 | |
| 1,2,4,5-Tetrachlorobenzene | 0.655 | 0.655 | | 0.0 | |
| 1,4-Dioxane | 0.528 | 0.564 | | 6.8 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.340 | 0.322 | | -5.3 | |

All other compounds must meet a minimum RRF of 0.010.

# SAMPLE RAW DATA

Sample Results: **BF144302.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144302.D
Acq On : 20 Nov 2025 18:56
Operator : RC/JU
Sample : Q3662-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

**Manual Integrations APPROVED**
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

Quant Time: Nov 20 23:59:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.863 | 152 | 46510 | 20.000 | ng | -0.01 |
| 21) Naphthalene-d8 | 8.145 | 136 | 165994 | 20.000 | ng | -0.01 |
| 39) Acenaphthene-d10 | 9.898 | 164 | 89354 | 20.000 | ng | -0.02 |
| 64) Phenanthrene-d10 | 11.392 | 188 | 158933 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 14.039 | 240 | 137554 | 20.000 | ng | -0.01 |
| 86) Perylene-d12 | 15.521 | 264 | 110506 | 20.000 | ng | -0.02 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.487 | 112 | 249067 | 83.801 | ng | 0.00 |
| 7) Phenol-d6 | 6.492 | 99 | 279004 | 82.848 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.422 | 82 | 169804 | 59.081 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.692 | 330 | 89450 | 79.774 | ng | -0.01 |
| 45) 2-Fluorobiphenyl | 9.216 | 172 | 351619 | 58.119 | ng | -0.01 |
| 79) Terphenyl-d14 | 12.980 | 244 | 411215 | 47.485 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 71) Phenanthrene | 11.416 | 178 | 19069 | 2.410 | ng | 97 |
| 75) Fluoranthene | 12.610 | 202 | 55313 | 6.767 | ng | 98 |
| 78) Pyrene | 12.839 | 202 | 53335 | 4.809 | ng | 97 |
| 81) Benzo(a)anthracene | 14.027 | 228 | 28902 | 3.032 | ng | 97 |
| 83) Chrysene | 14.063 | 228 | 26105m | 2.966 | ng | |
| 88) Benzo(b)fluoranthene | 15.086 | 252 | 26983m | 4.295 | ng | |
| 90) Benzo(a)pyrene | 15.457 | 252 | 18966 | 3.272 | ng | # 93 |

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

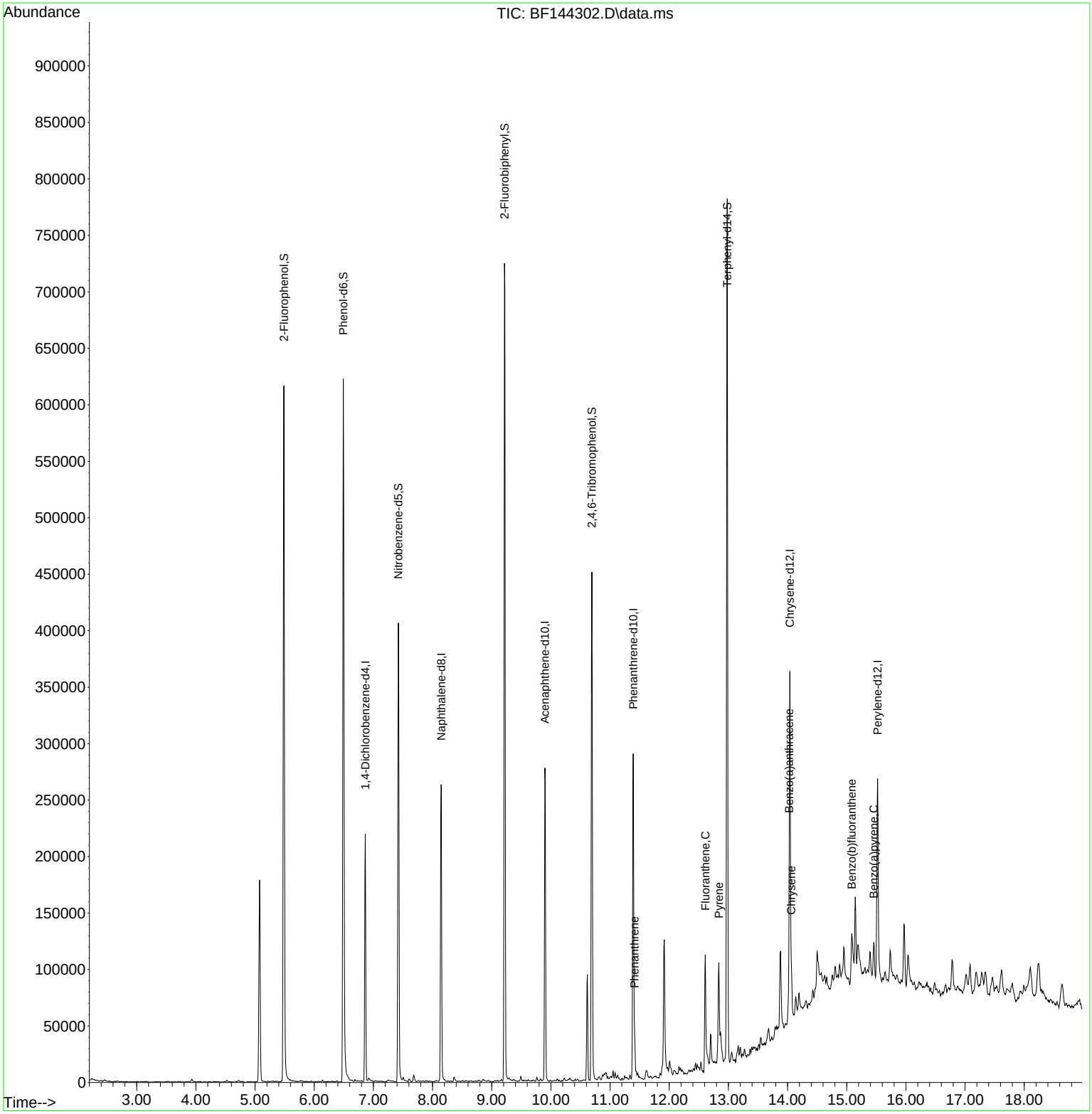
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144302.D
Acq On : 20 Nov 2025 18:56
Operator : RC/JU
Sample : Q3662-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

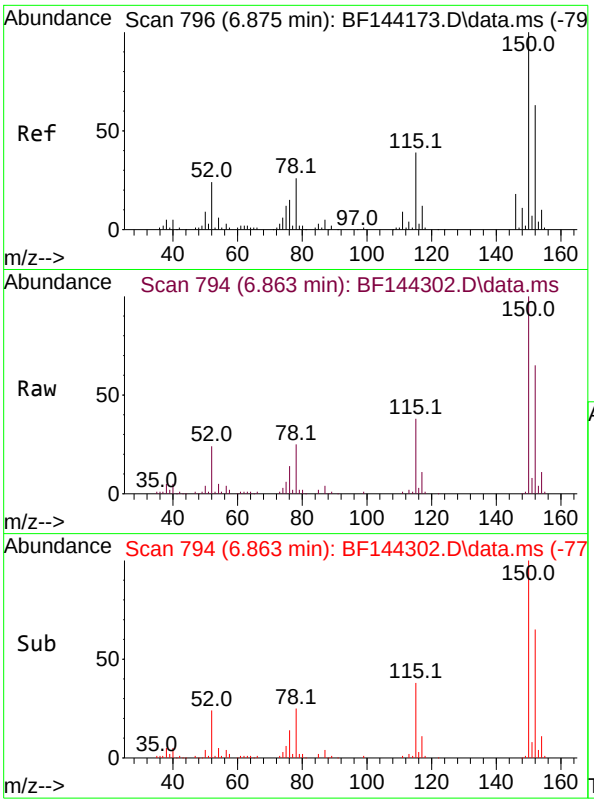
Quant Time: Nov 20 23:59:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

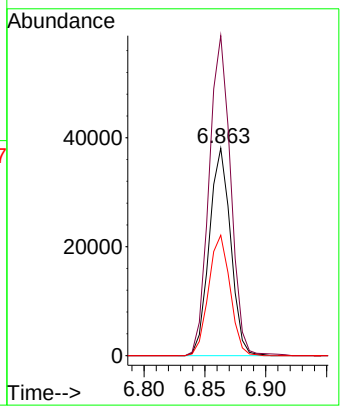





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 79
Delta R.T. -0.012 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:152 Resp: 4651

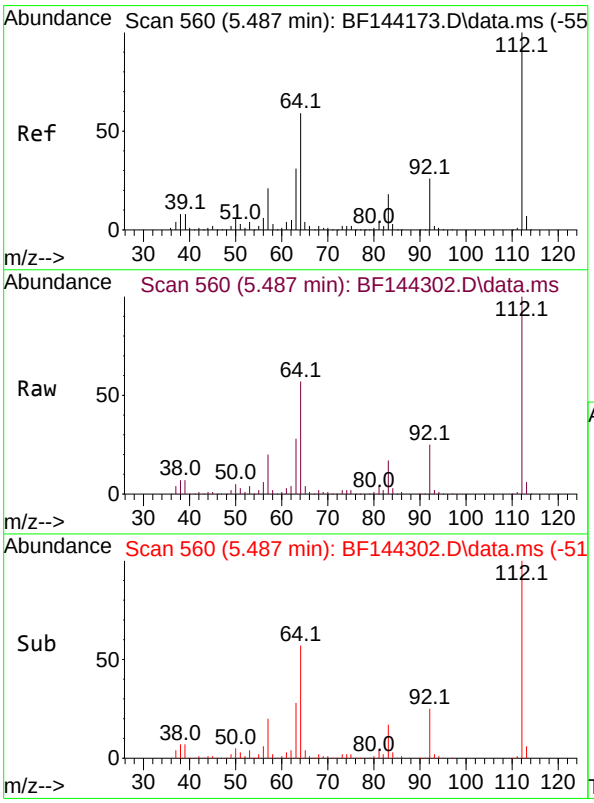
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.3 | 127.4 | 191.0 |
| 115 | 58.1 | 49.5 | 74.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

**Manual Integrations APPROVED**

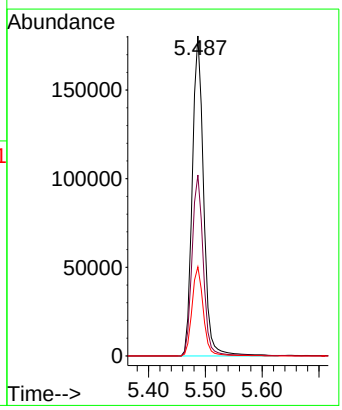
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

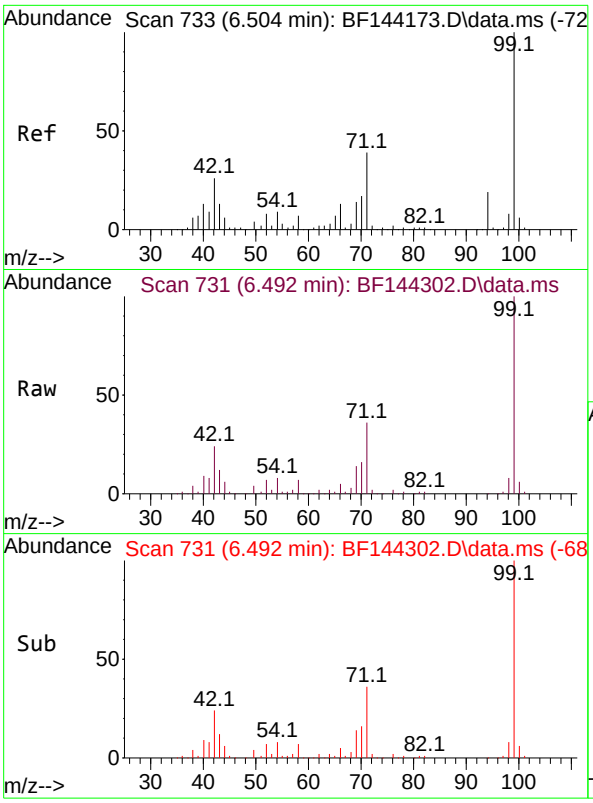



#5
2-Fluorophenol
Concen: 83.801 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.006 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:112 Resp: 249067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 56.5 | 47.2 | 70.8 |
| 63 | 27.8 | 24.4 | 36.6 |

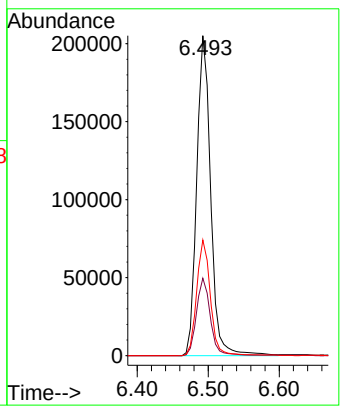





#7
Phenol-d6
Concen: 82.848 ng
RT: 6.492 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion: 99 Resp: 27900

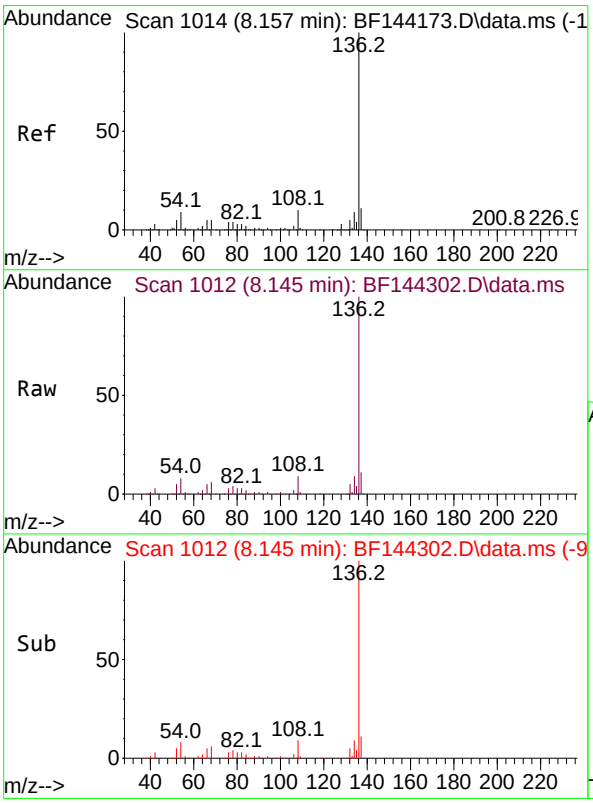
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 24.2 | 20.9 | 31.3 |
| 71 | 36.1 | 31.4 | 47.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

**Manual Integrations APPROVED**

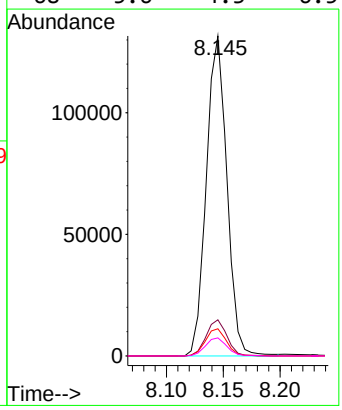
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

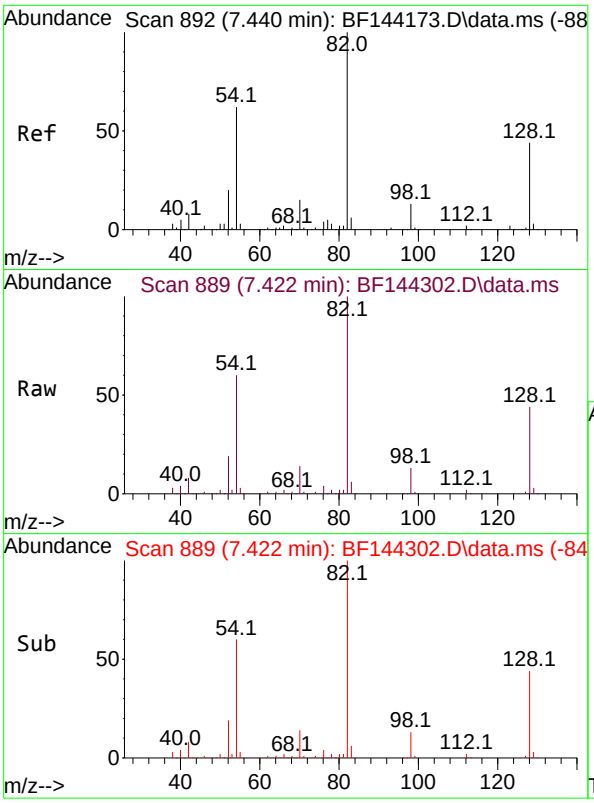



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1012
Delta R.T. -0.012 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:136 Resp: 165994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.3 | 8.6 | 13.0 |
| 54 | 8.5 | 7.0 | 10.6 |
| 68 | 5.6 | 4.3 | 6.5 |

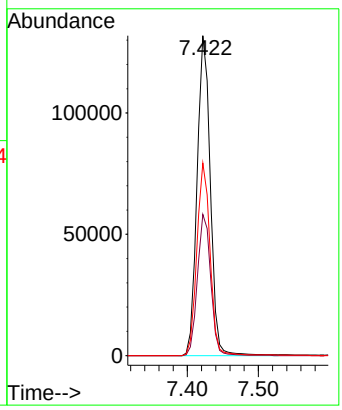





#23
Nitrobenzene-d5
Concen: 59.081 ng
RT: 7.422 min Scan# 88
Delta R.T. -0.012 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion: 82 Resp: 16980

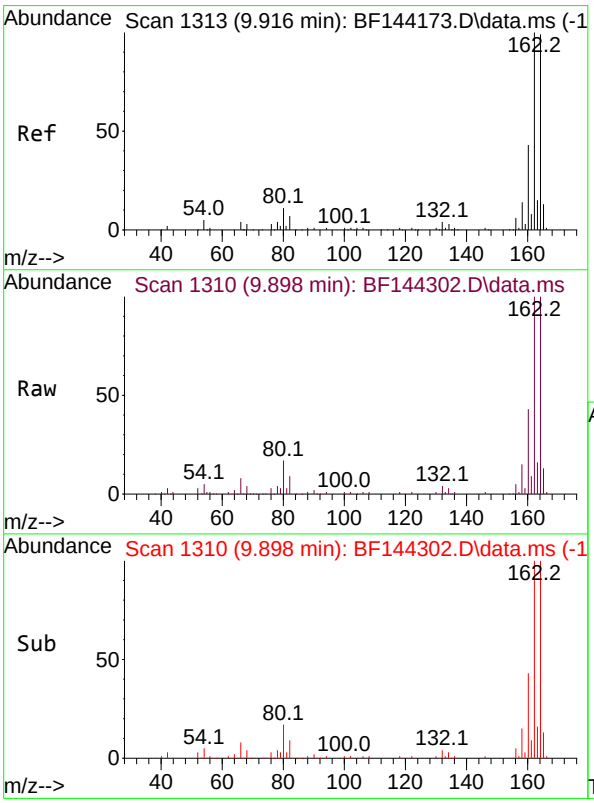
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.1 | 34.7 | 52.1 |
| 54 | 60.2 | 49.5 | 74.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

**Manual Integrations**
**APPROVED**

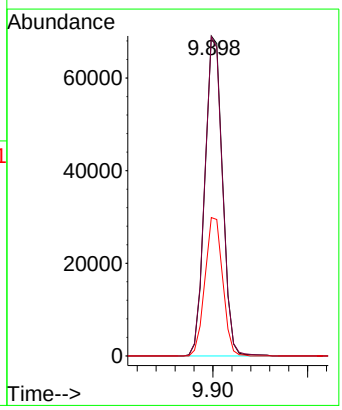
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

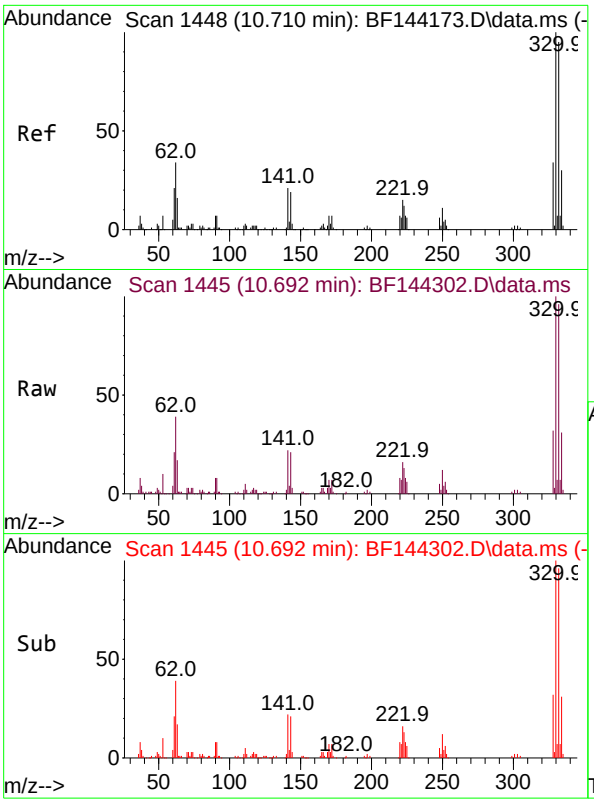



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 1310
Delta R.T. -0.018 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:164 Resp: 89354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.7 | 81.1 | 121.7 |
| 160 | 43.2 | 34.5 | 51.7 |

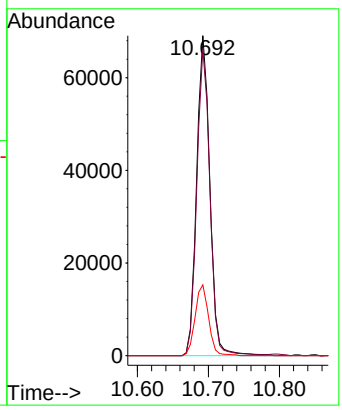





#42
2,4,6-Tribromophenol
Concen: 79.774 ng
RT: 10.692 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:330 Resp: 8945

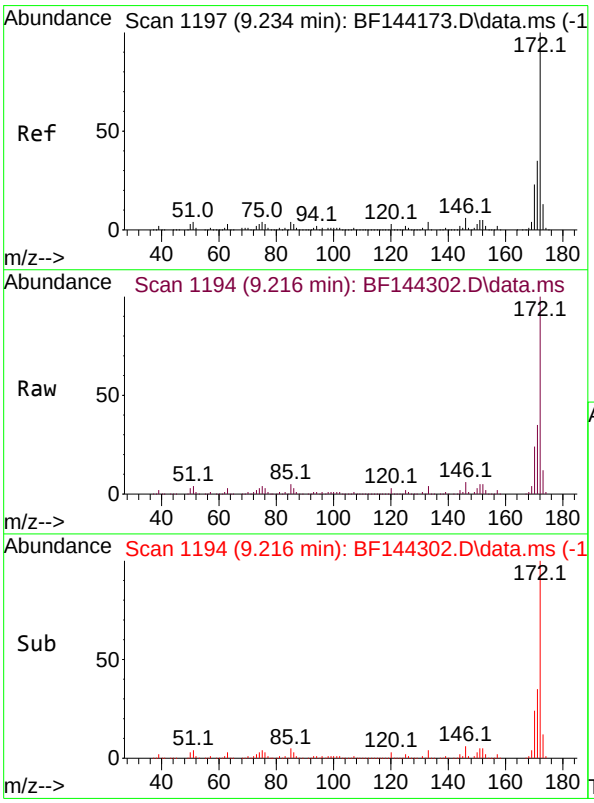
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.7 | 76.7 | 115.1 |
| 141 | 22.4 | 17.8 | 26.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

**Manual Integrations APPROVED**

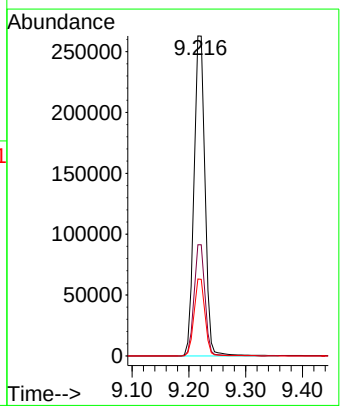
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

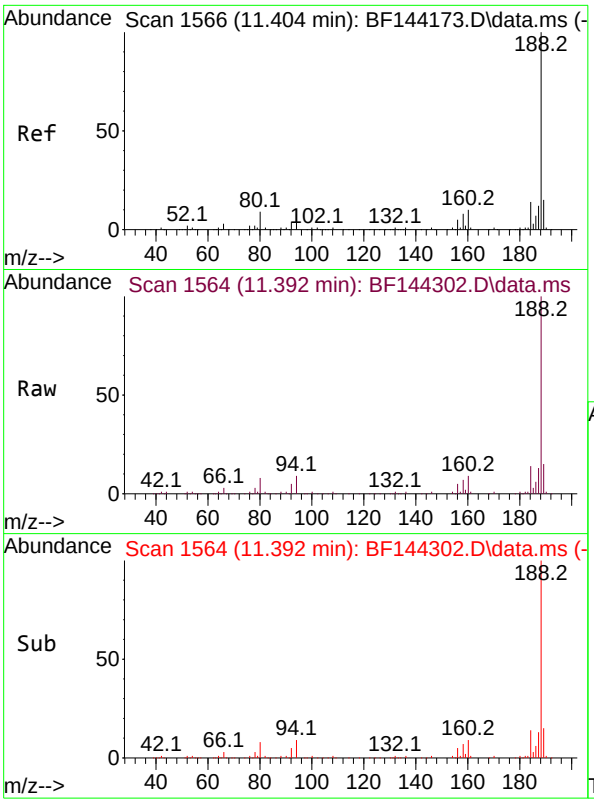



#45
2-Fluorobiphenyl
Concen: 58.119 ng
RT: 9.216 min Scan# 1194
Delta R.T. -0.012 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:172 Resp: 351619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.7 | 28.1 | 42.1 |
| 170 | 24.0 | 18.6 | 28.0 |

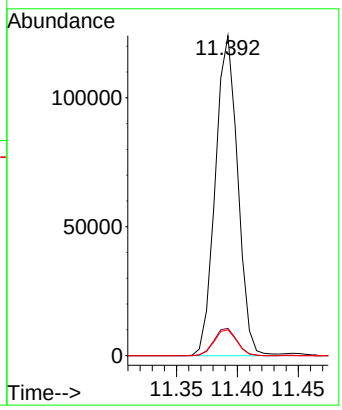





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:188 Resp: 15893

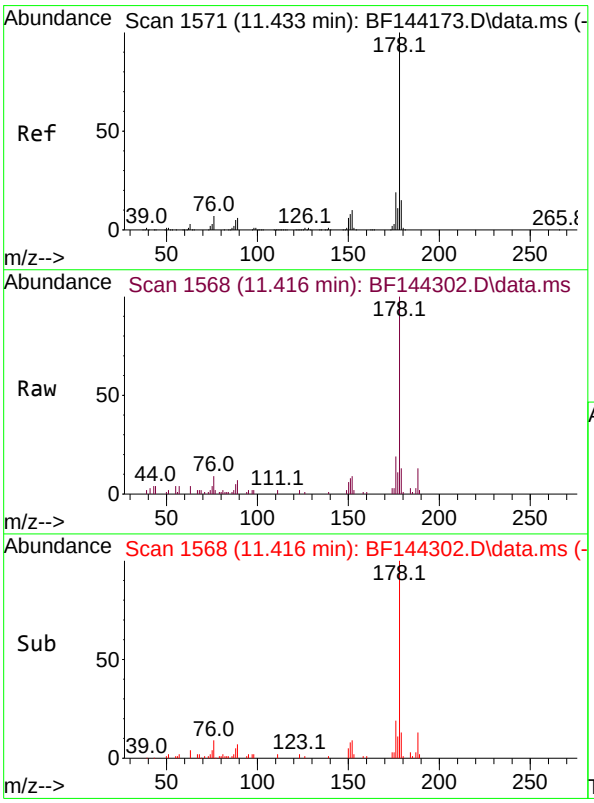
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.5 | 6.2 | 9.2 |
| 80 | 8.1 | 6.9 | 10.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

**Manual Integrations**
**APPROVED**

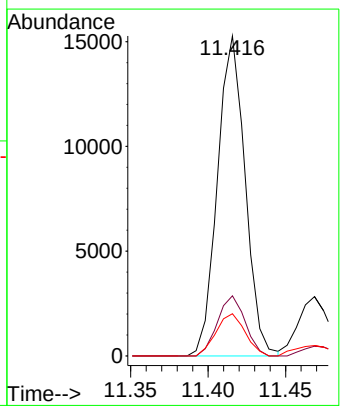
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

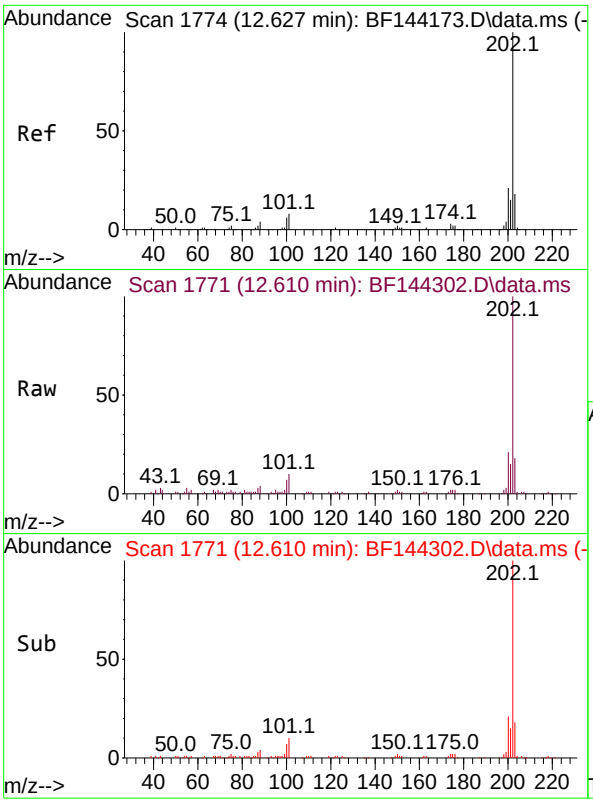



#71
Phenanthrene
Concen: 2.410 ng
RT: 11.416 min Scan# 1568
Delta R.T. -0.012 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:178 Resp: 19069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.5 | 23.3 |
| 179 | 13.2 | 12.2 | 18.4 |

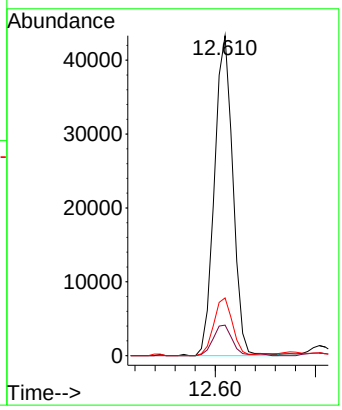





#75
Fluoranthene
Concen: 6.767 ng
RT: 12.610 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:202 Resp: 5531

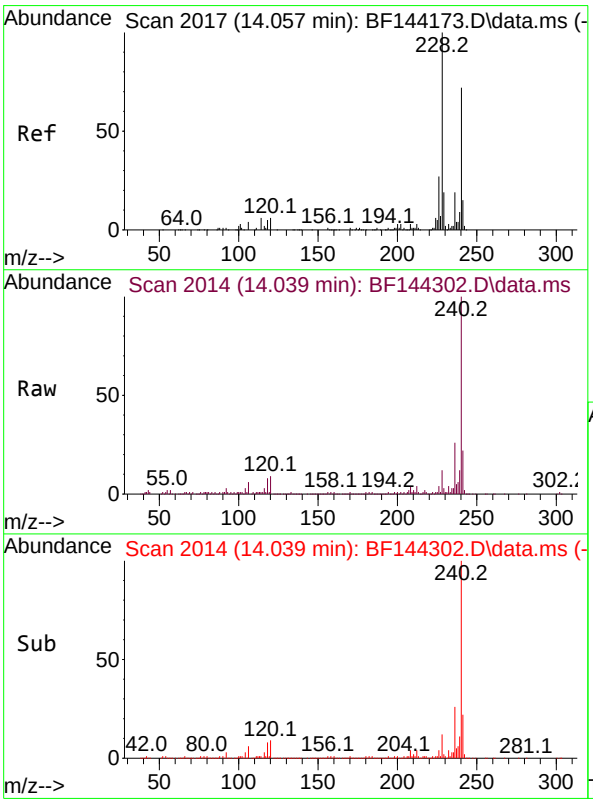
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.5 | 0.0 | 27.9 |
| 203 | 18.0 | 0.0 | 37.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

**Manual Integrations APPROVED**

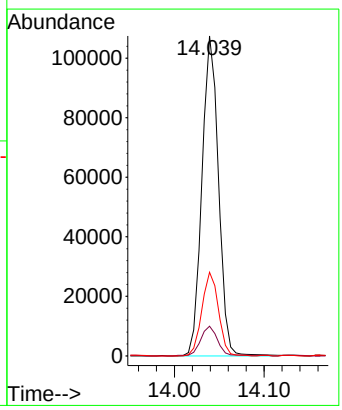
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

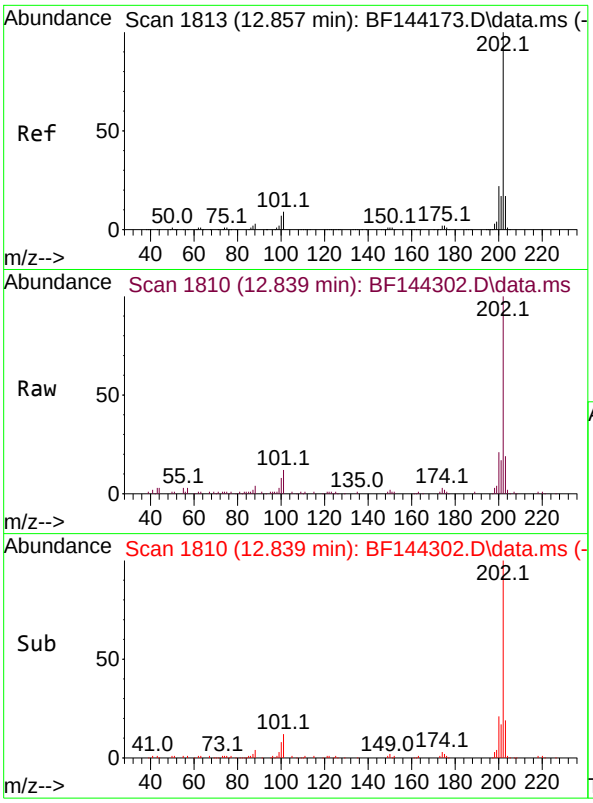



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2014
Delta R.T. -0.012 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:240 Resp: 137554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.3 | 6.6 | 10.0 |
| 236 | 26.1 | 21.4 | 32.2 |

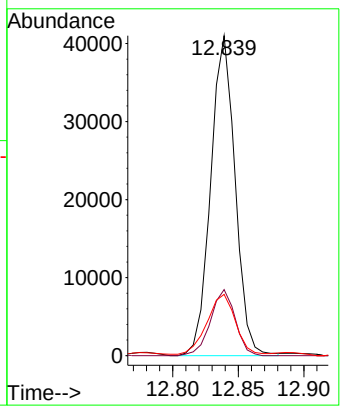





#78
Pyrene
Concen: 4.809 ng
RT: 12.839 min Scan# 18
Delta R.T. -0.012 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:202 Resp: 5333

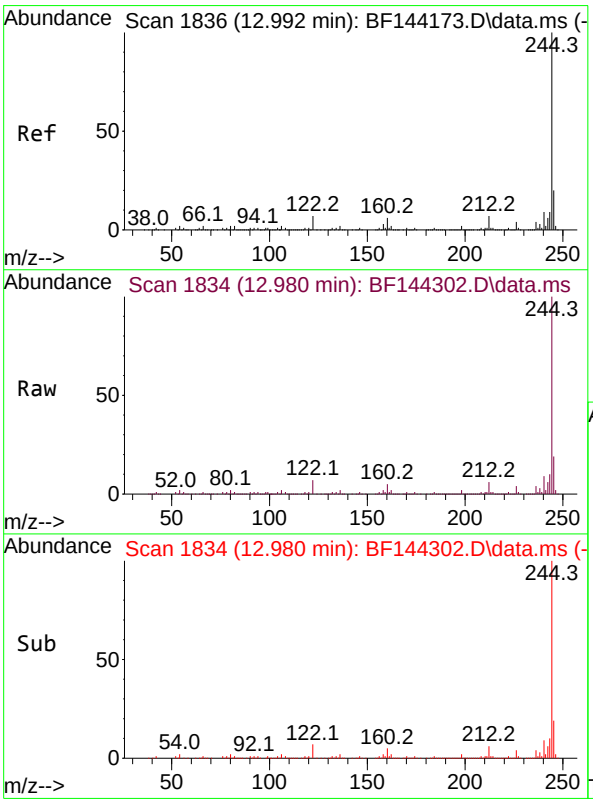
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.6 | 17.2 | 25.8 |
| 203 | 19.1 | 13.7 | 20.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

**Manual Integrations**
**APPROVED**

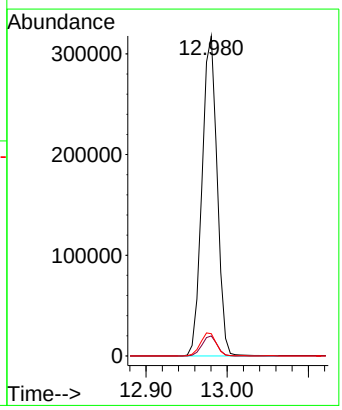
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

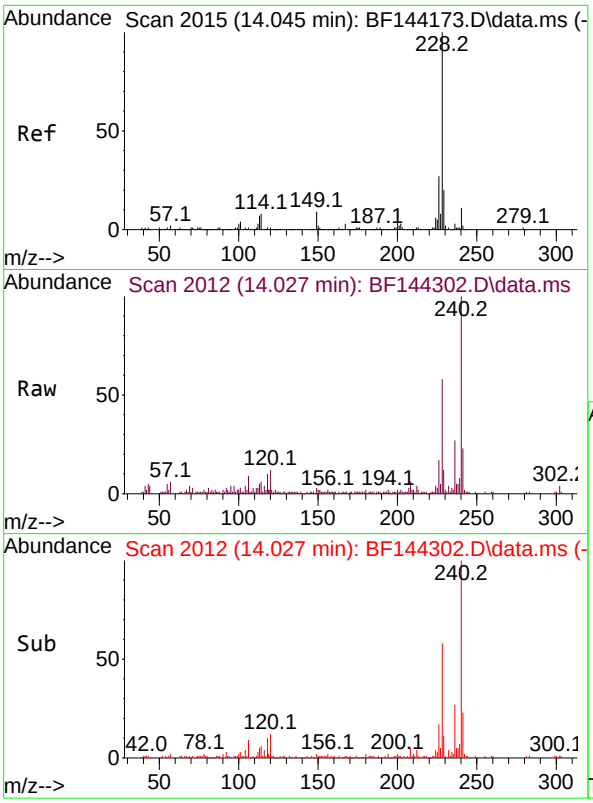



#79
Terphenyl-d14
Concen: 47.485 ng
RT: 12.980 min Scan# 1834
Delta R.T. -0.012 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:244 Resp: 411215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.2 | 5.3 | 7.9 |
| 122 | 6.9 | 5.6 | 8.4 |

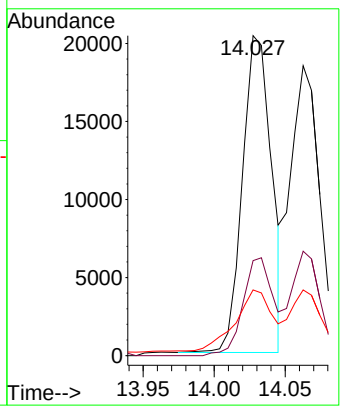





#81
Benzo(a)anthracene
Concen: 3.032 ng
RT: 14.027 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:228 Resp: 2890

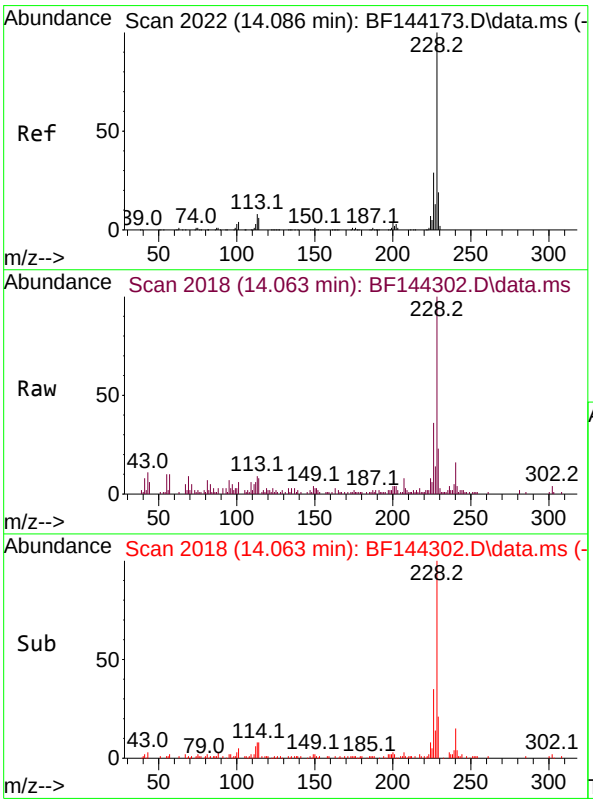
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.7 | 21.8 | 32.8 |
| 229 | 20.5 | 15.8 | 23.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

**Manual Integrations**
**APPROVED**

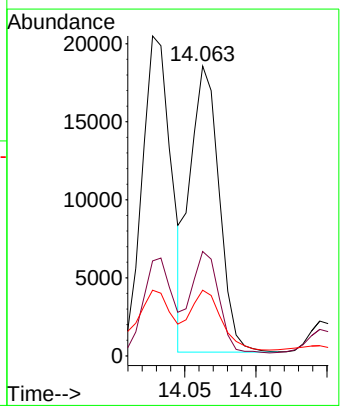
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

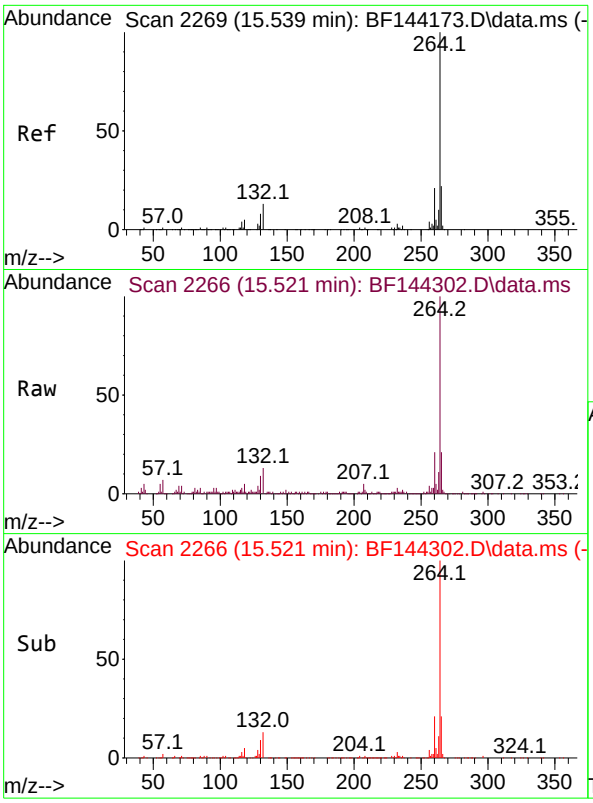



#83
Chrysene
Concen: 2.966 ng m
RT: 14.063 min Scan# 2018
Delta R.T. -0.018 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:228 Resp: 26105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 36.0 | 22.9 | 34.3# |
| 229 | 22.7 | 15.0 | 22.6# |

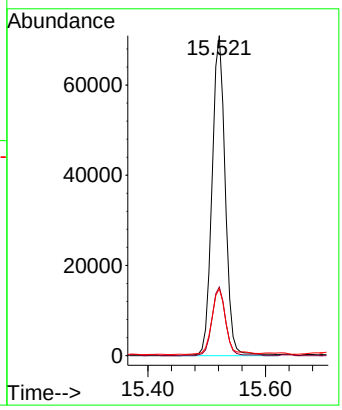





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:264 Resp: 110506

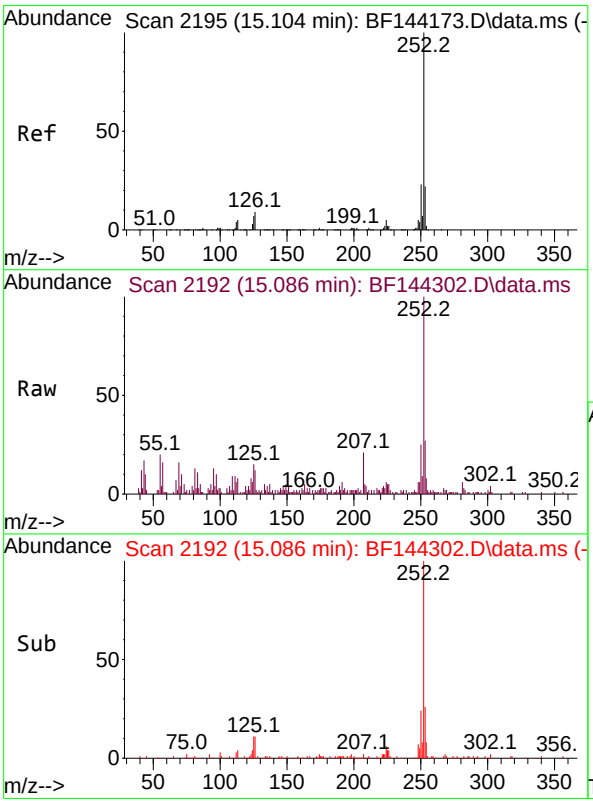
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 21.4 | 17.1 | 25.7 |
| 265 | 20.9 | 17.4 | 26.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

**Manual Integrations APPROVED**

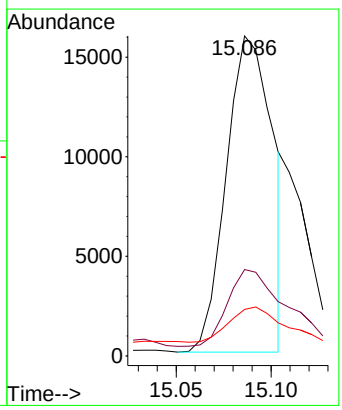
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

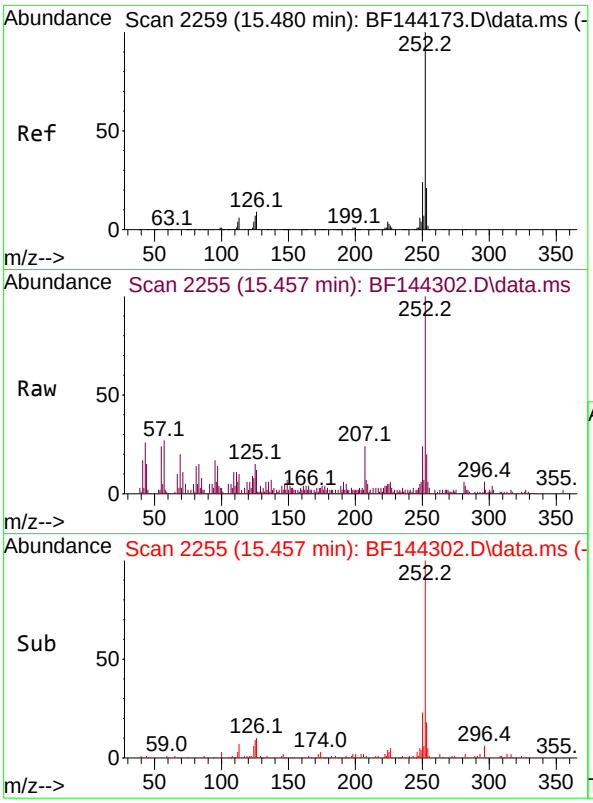



#88
Benzo(b)fluoranthene
Concen: 4.295 ng m
RT: 15.086 min Scan# 2192
Delta R.T. -0.012 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:252 Resp: 26983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.0 | 17.4 | 26.2# |
| 125 | 14.5 | 5.3 | 7.9# |

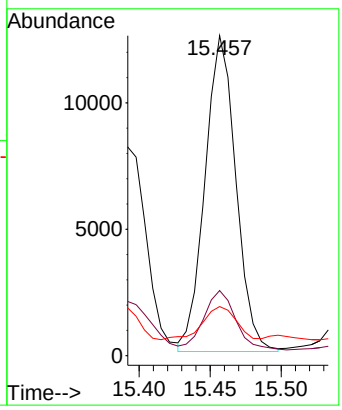





#90
Benzo(a)pyrene
Concen: 3.272 ng
RT: 15.457 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF144302.D
Acq: 20 Nov 2025 18:56

Tgt Ion:252 Resp: 1896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 20.3 | 16.7 | 25.1 |
| 125 | 15.4 | 5.7 | 8.5# |




**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

**Manual Integrations**
**APPROVED**

Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

Sample Results: **BF144302.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144302.D
Acq On : 20 Nov 2025 18:56
Operator : RC/JU
Sample : Q3662-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

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-BF110525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF144302.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.075 | 482 | 490 | 502 | rBV | 178624 | 259288 | 25.47% | 3.059% |
| 2 | 5.487 | 555 | 560 | 577 | rBV | 615413 | 834531 | 81.99% | 9.846% |
| 3 | 6.493 | 726 | 731 | 750 | rBV | 622296 | 861715 | 84.66% | 10.167% |
| 4 | 6.863 | 789 | 794 | 799 | rBV | 219113 | 267112 | 26.24% | 3.151% |
| 5 | 7.422 | 884 | 889 | 900 | rBV | 405960 | 522578 | 51.34% | 6.165% |
| 6 | 8.145 | 1007 | 1012 | 1021 | rBV | 261911 | 329932 | 32.42% | 3.893% |
| 7 | 9.216 | 1189 | 1194 | 1204 | rBV | 724190 | 942004 | 92.55% | 11.114% |
| 8 | 9.898 | 1305 | 1310 | 1322 | rVB | 277614 | 359734 | 35.34% | 4.244% |
| 9 | 10.616 | 1427 | 1432 | 1440 | rBV | 93766 | 117286 | 11.52% | 1.384% |
| 10 | 10.692 | 1440 | 1445 | 1455 | rBV | 450081 | 580127 | 57.00% | 6.844% |
| 11 | 11.392 | 1558 | 1564 | 1571 | rBV | 287955 | 414877 | 40.76% | 4.895% |
| 12 | 11.616 | 1596 | 1602 | 1608 | rBV5 | 7627 | 18111 | 1.78% | 0.214% |
| 13 | 11.916 | 1644 | 1653 | 1661 | rBV2 | 119957 | 206054 | 20.24% | 2.431% |
| 14 | 12.010 | 1665 | 1669 | 1677 | rVB3 | 12107 | 24857 | 2.44% | 0.293% |
| 15 | 12.533 | 1755 | 1758 | 1763 | rVB5 | 8333 | 11121 | 1.09% | 0.131% |
| 16 | 12.610 | 1766 | 1771 | 1782 | rBV | 104331 | 179166 | 17.60% | 2.114% |
| 17 | 12.698 | 1782 | 1786 | 1795 | rVV3 | 26340 | 43708 | 4.29% | 0.516% |
| 18 | 12.839 | 1803 | 1810 | 1813 | rBV | 89032 | 135585 | 13.32% | 1.600% |
| 19 | 12.980 | 1828 | 1834 | 1841 | rVB | 764590 | 1017832 | 100.00% | 12.008% |
| 20 | 13.057 | 1843 | 1847 | 1854 | rBV5 | 7705 | 12003 | 1.18% | 0.142% |
| 21 | 13.163 | 1858 | 1865 | 1868 | rBV2 | 14363 | 30695 | 3.02% | 0.362% |
| 22 | 13.204 | 1869 | 1872 | 1875 | rVB3 | 8802 | 11320 | 1.11% | 0.134% |
| 23 | 13.274 | 1881 | 1884 | 1890 | rVB2 | 7067 | 10369 | 1.02% | 0.122% |
| 24 | 13.545 | 1927 | 1930 | 1934 | rBV5 | 9390 | 14077 | 1.38% | 0.166% |
| 25 | 13.880 | 1982 | 1987 | 1997 | rVB2 | 68184 | 115890 | 11.39% | 1.367% |
| 26 | 14.039 | 2006 | 2014 | 2026 | rBV2 | 312403 | 537200 | 52.78% | 6.338% |
| 27 | 14.498 | 2089 | 2092 | 2095 | rBV | 30927 | 47391 | 4.66% | 0.559% |
| 28 | 15.086 | 2188 | 2192 | 2198 | rBV | 41710 | 89234 | 8.77% | 1.053% |
| 29 | 15.145 | 2198 | 2202 | 2206 | rVB | 60758 | 84163 | 8.27% | 0.993% |
| 30 | 15.521 | 2261 | 2266 | 2278 | rVB | 179797 | 303321 | 29.80% | 3.579% |
| 31 | 15.968 | 2338 | 2342 | 2348 | rVB | 55117 | 94692 | 9.30% | 1.117% |

Sum of corrected areas: 8475973

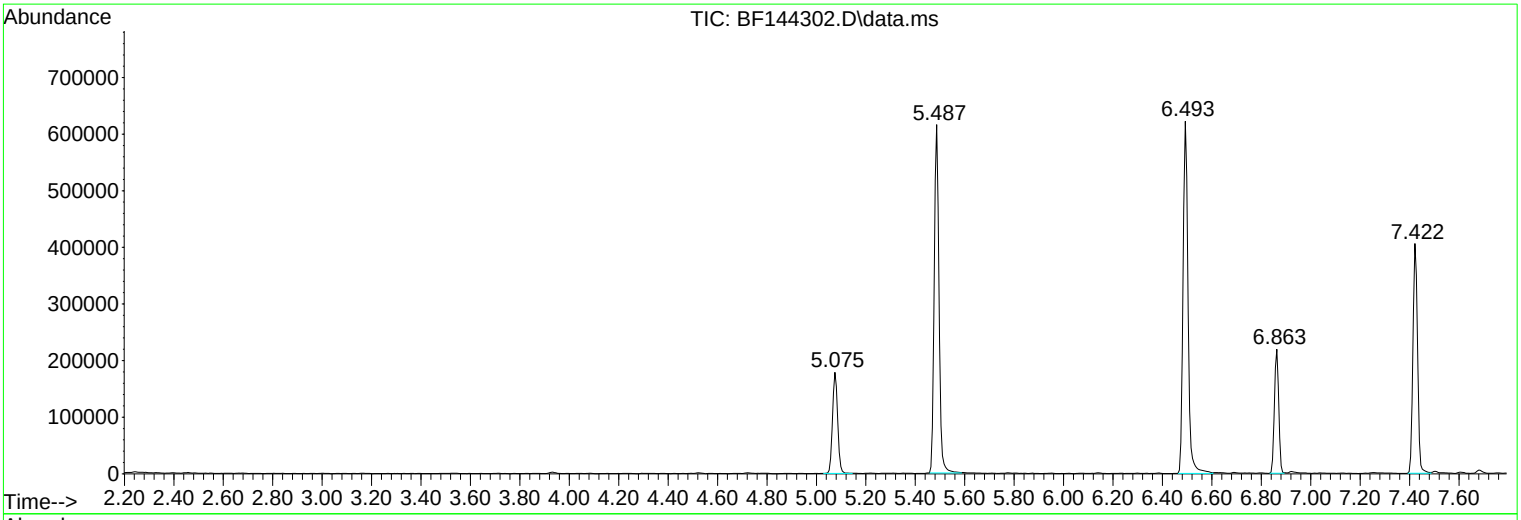
Sample Results: **BF144302.D**

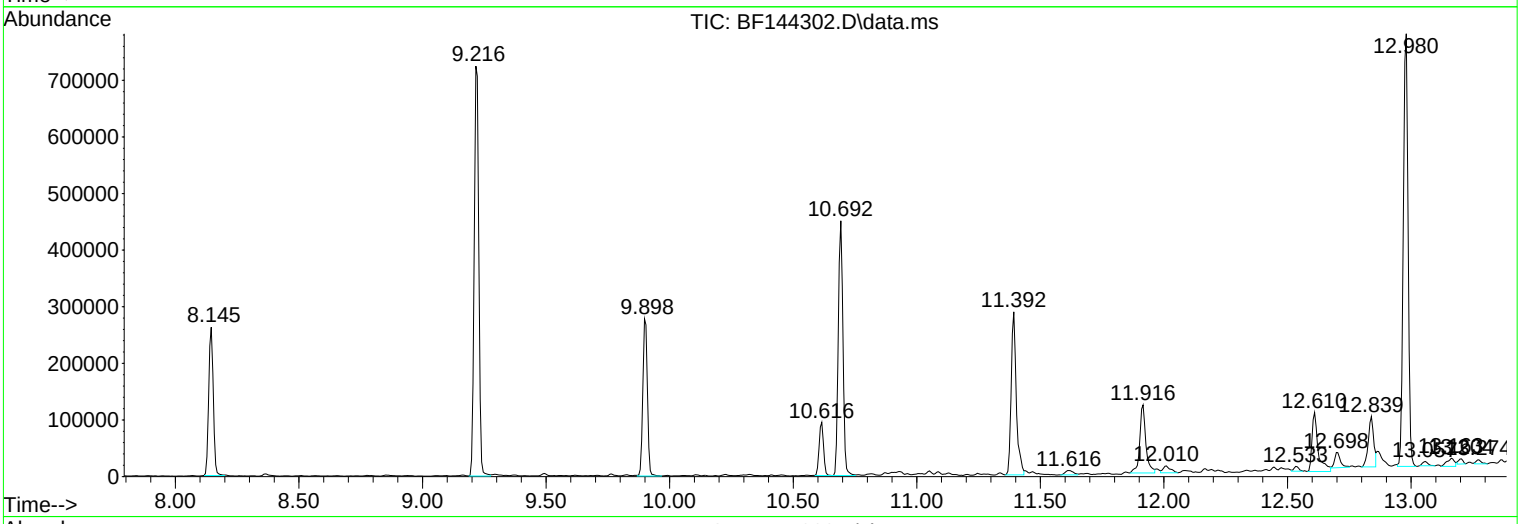
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Data File : BF144302.D
Acq On : 20 Nov 2025 18:56
Operator : RC/JU
Sample : Q3662-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

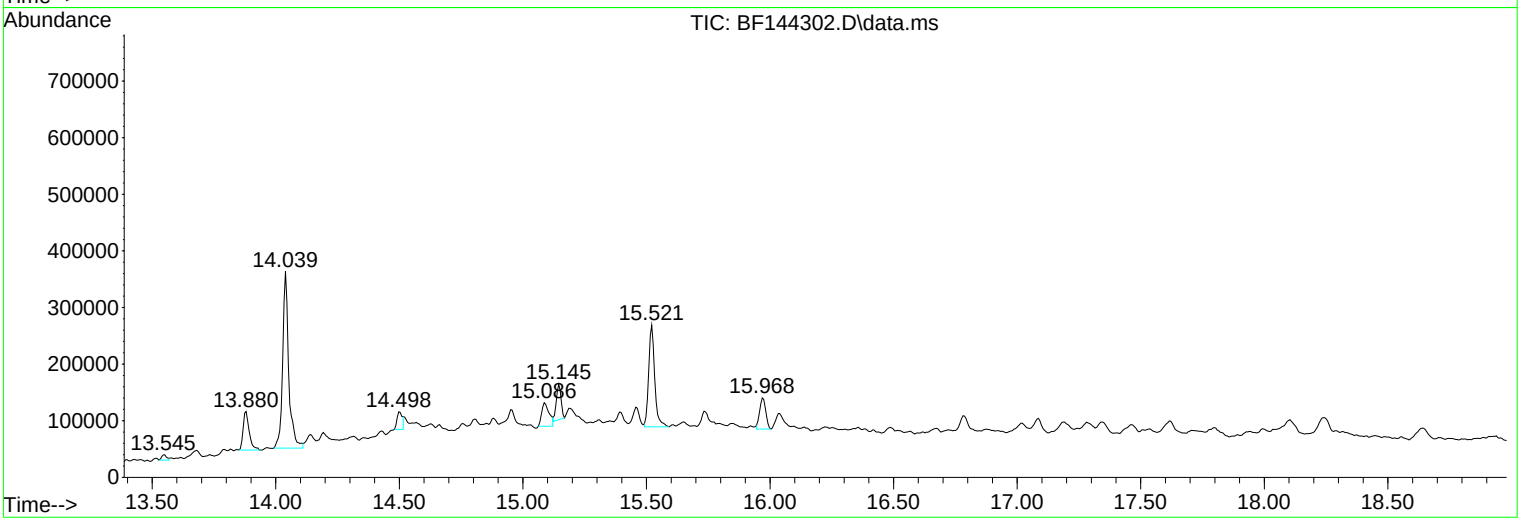
**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.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\BF112025\
Data File : BF144302.D
Acq On : 20 Nov 2025 18:56
Operator : RC/JU
Sample : Q3662-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

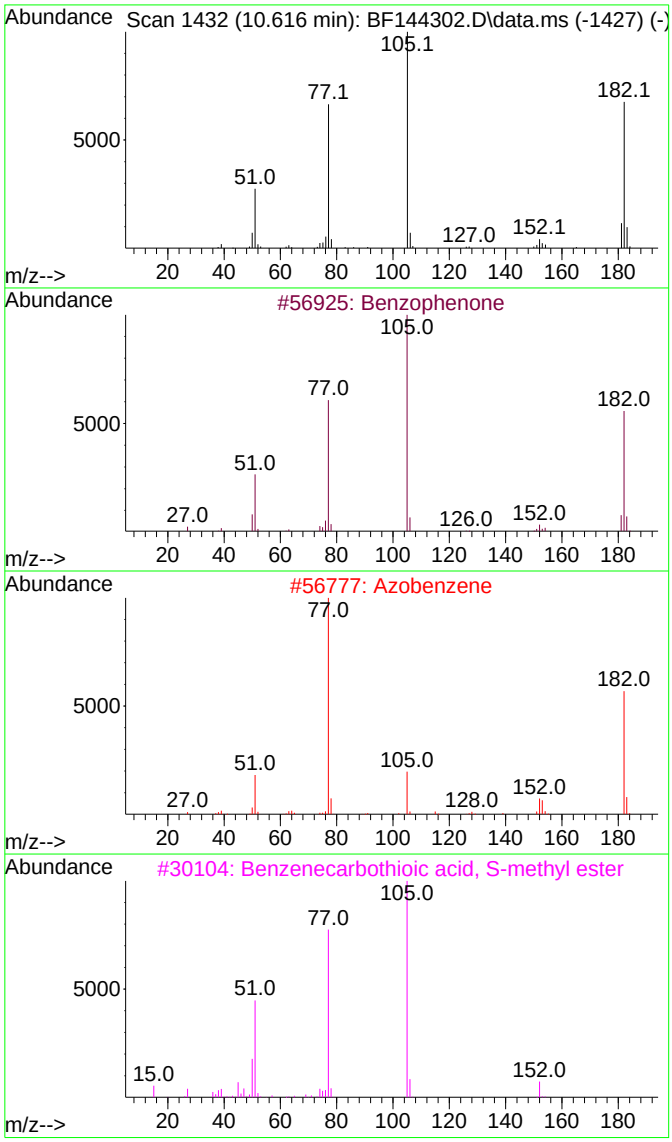
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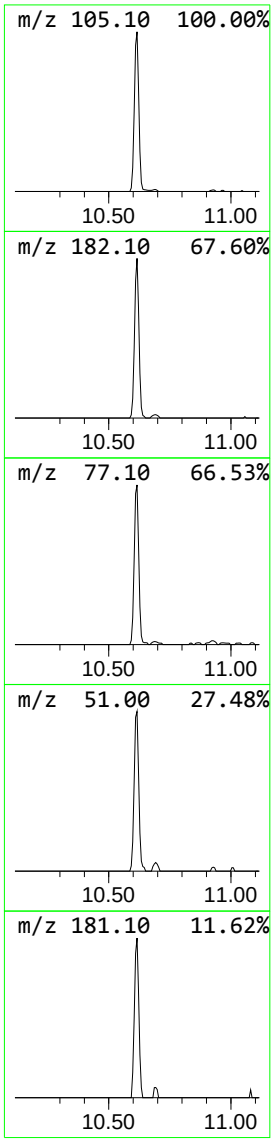
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Peak Number 2 Benzophenone Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.616 | 6.52 ng | 117286 | Acenaphthene-d10 | 9.898 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 96 |
| 2 | Azobenzene | 182 | C12H10N2 | 000103-33-3 | 47 |
| 3 | Benzenecarbothioic acid, S-methy... | 152 | C8H8OS | 005925-68-8 | 43 |
| 4 | Benzenebutanoic acid, .gamma.-oxo- | 178 | C10H10O3 | 002051-95-8 | 43 |
| 5 | Benzoyl isothiocyanate | 163 | C8H5NOS | 000532-55-8 | 43 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144302.D
Acq On : 20 Nov 2025 18:56
Operator : RC/JU
Sample : Q3662-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

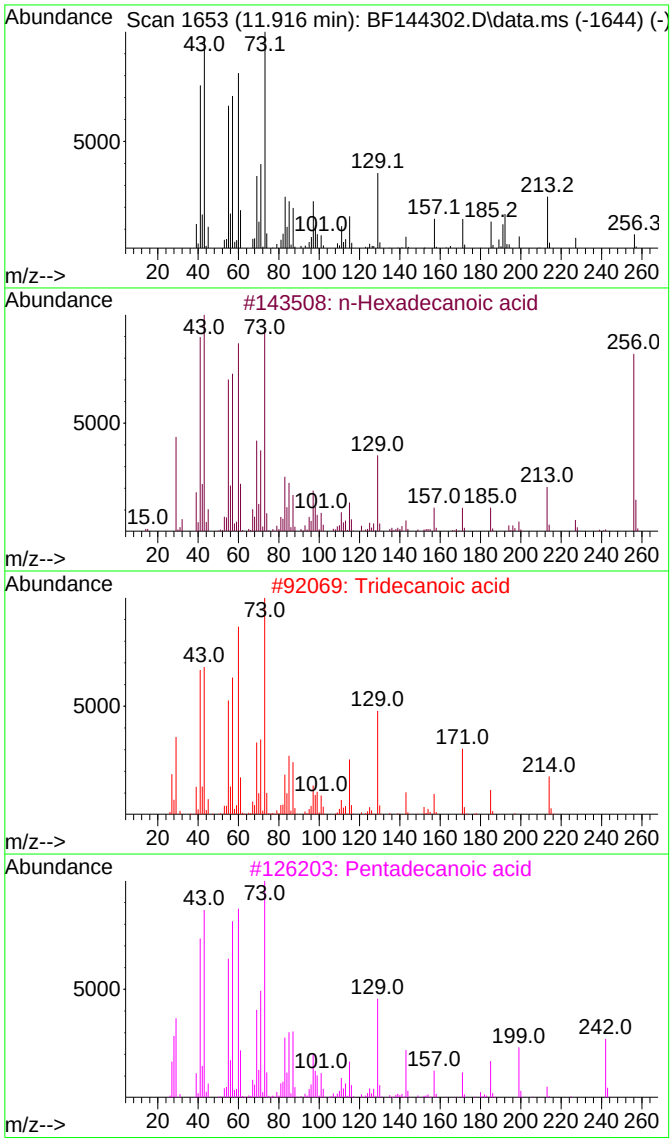
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TIC Integration Parameters: LSCINT.P

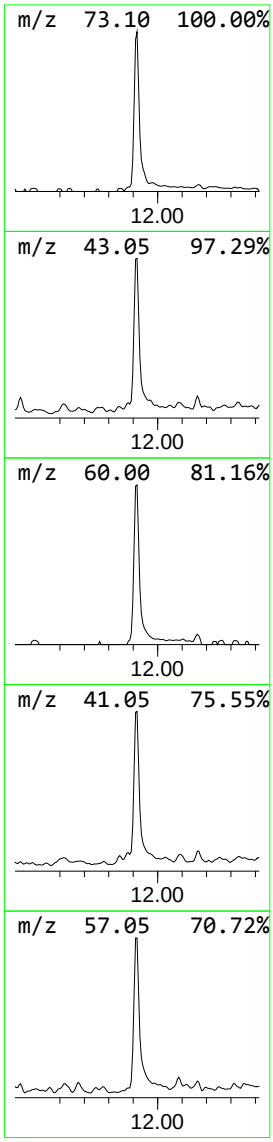
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Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.916 | 9.93 ng | 206054 | 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 | 97 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 68 |
| 4 | Oxalic acid, allyl hexadecyl ester | 354 | C21H38O4 | 1000309-24-4 | 20 |
| 5 | 1-Dodecanol, 2-octyl- | 298 | C20H42O | 005333-42-6 | 20 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144302.D
Acq On : 20 Nov 2025 18:56
Operator : RC/JU
Sample : Q3662-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

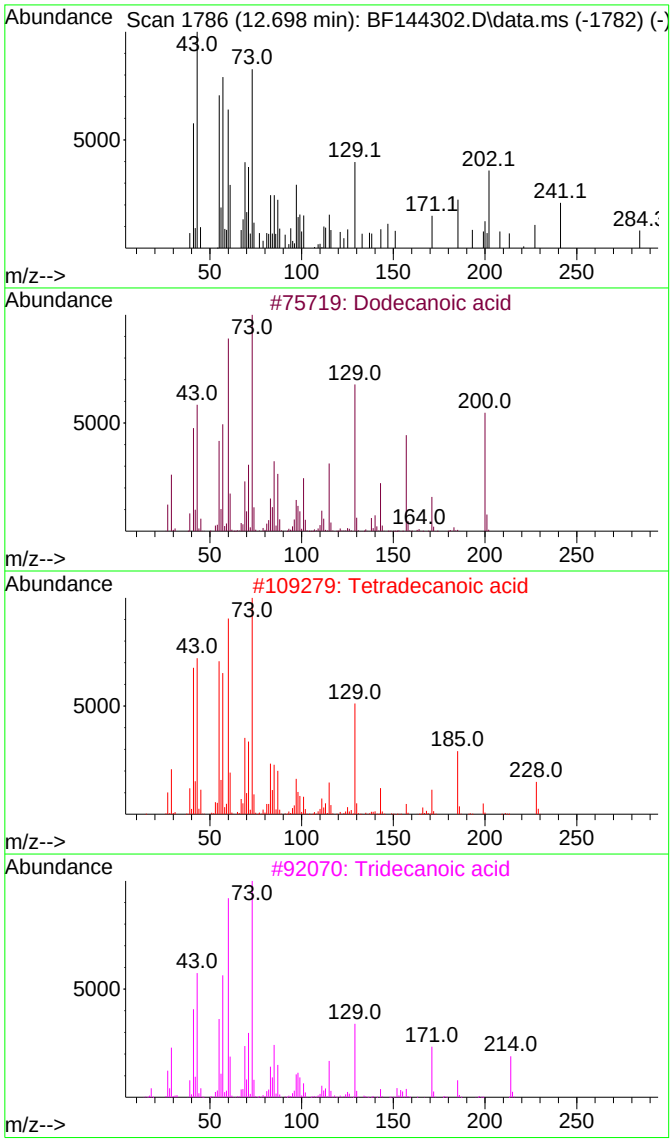
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TIC Integration Parameters: LSCINT.P

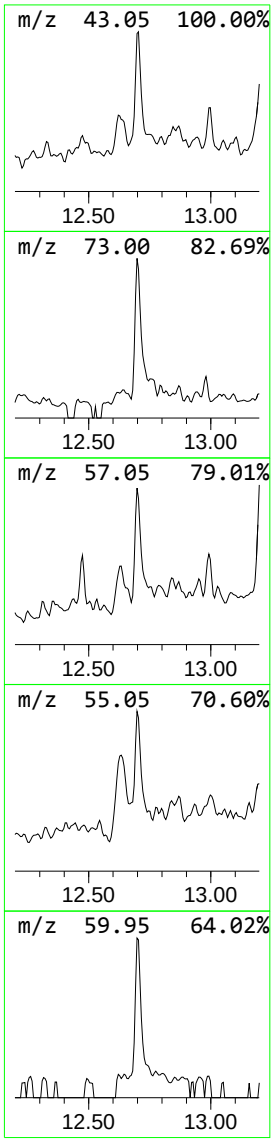
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Peak Number 4 Dodecanoic acid Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.698 | 2.11 ng | 43708 | Phenanthrene-d10 | 11.392 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 90 |
| 2 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 50 |
| 3 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 47 |
| 4 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 43 |
| 5 | 8-Methylnonanoic acid | 172 | C10H20O2 | 005963-14-4 | 43 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144302.D
Acq On : 20 Nov 2025 18:56
Operator : RC/JU
Sample : Q3662-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

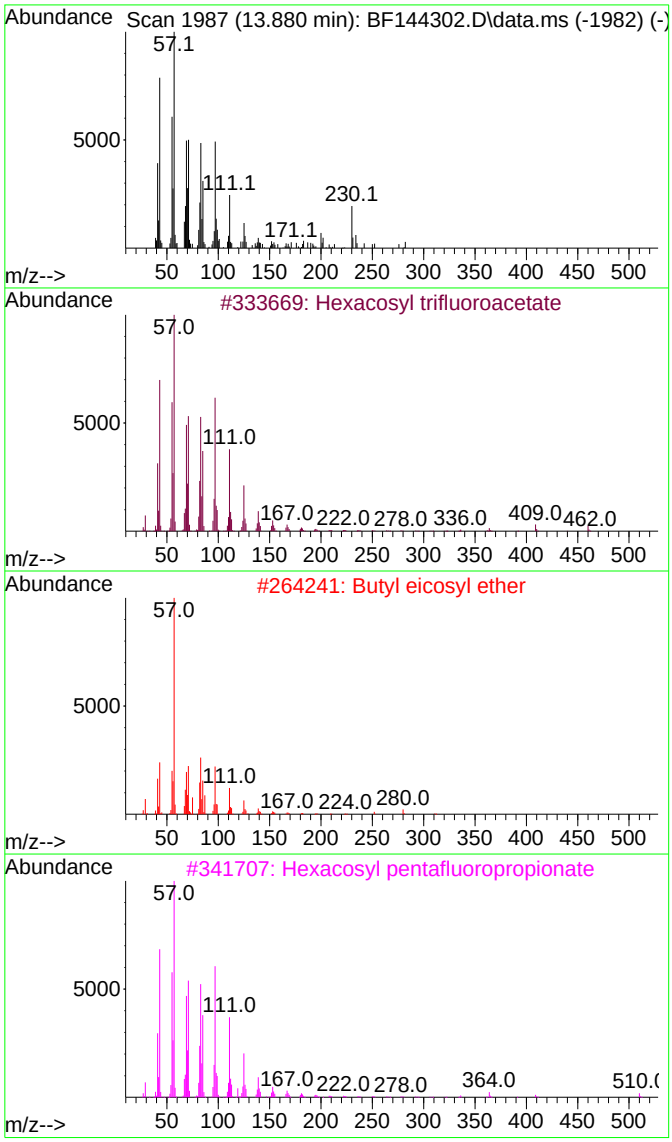
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

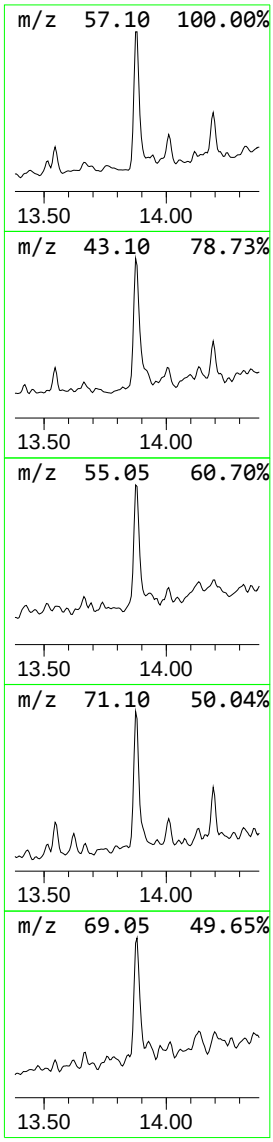
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Peak Number 5 Hexacosyl trifluoroacetate Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.880 | 4.31 ng | 115890 | Chrysene-d12 | 14.039 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexacosyl trifluoroacetate | 478 | C28H53F3O2 | 1000351-75-0 | 87 |
| 2 | Butyl eicosyl ether | 354 | C24H50O | 1000406-40-7 | 87 |
| 3 | Hexacosyl pentafluoropropionate | 528 | C29H53F5O2 | 1000351-81-2 | 87 |
| 4 | Butyl docosyl ether | 382 | C26H54O | 1000406-40-8 | 87 |
| 5 | Heptacosyl pentafluoropropionate | 542 | C30H55F5O2 | 1000351-81-6 | 87 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144302.D
Acq On : 20 Nov 2025 18:56
Operator : RC/JU
Sample : Q3662-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

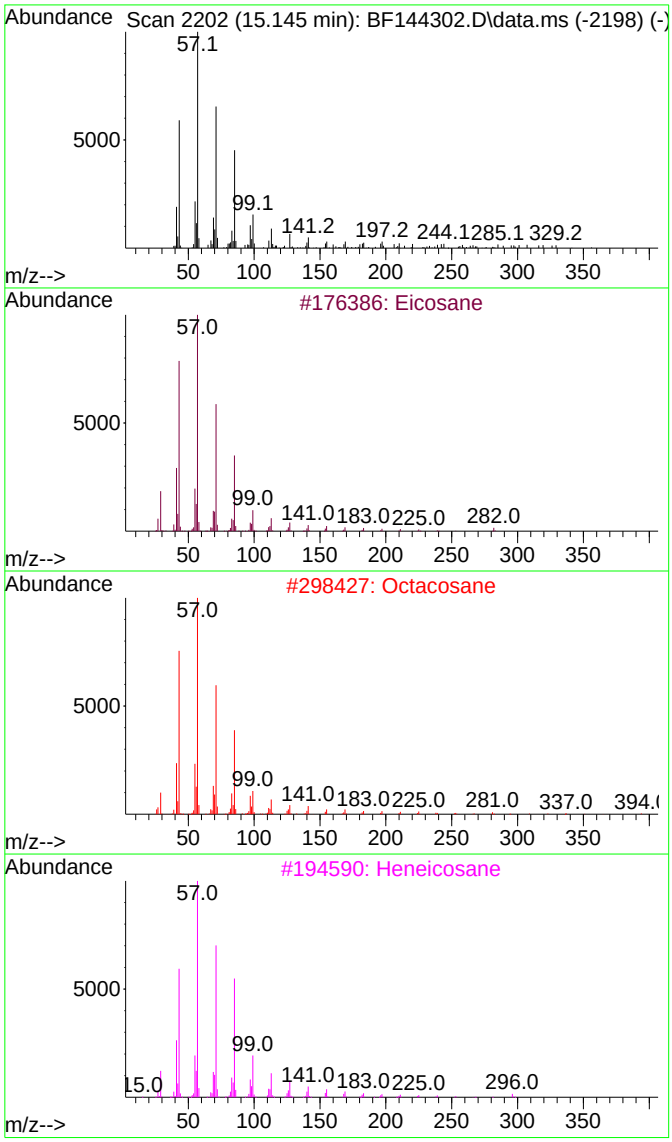
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TIC Integration Parameters: LSCINT.P

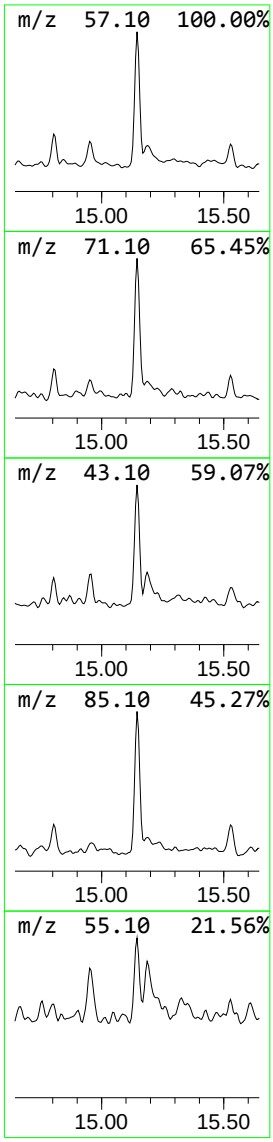
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Peak Number 6 Eicosane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.145 | 5.55 ng | 84163 | Perylene-d12 | 15.521 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 93 |
| 2 | Octacosane | 394 | C28H58 | 000630-02-4 | 90 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 87 |
| 4 | Docosane, 1-iodo- | 436 | C22H45I | 1000406-31-9 | 83 |
| 5 | Hexadecane, 1-iodo- | 352 | C16H33I | 000544-77-4 | 83 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144302.D
Acq On : 20 Nov 2025 18:56
Operator : RC/JU
Sample : Q3662-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

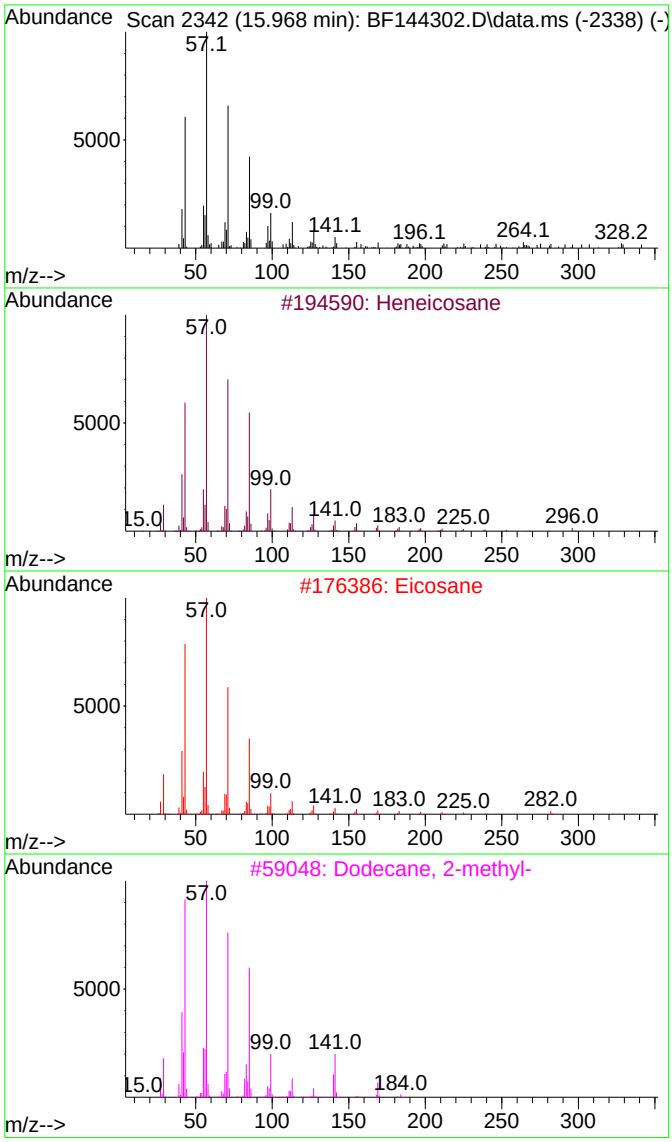
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

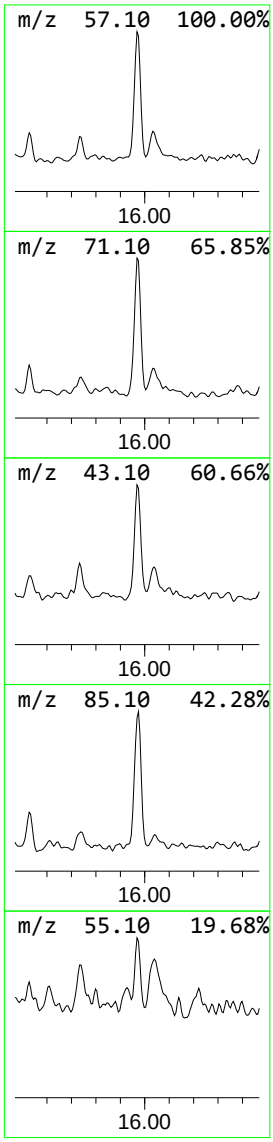
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Peak Number 7 Heneicosane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.968 | 6.24 ng | 94692 | Perylene-d12 | 15.521 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 93 |
| 2 | Eicosane | 282 | C20H42 | 000112-95-8 | 93 |
| 3 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 90 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 90 |
| 5 | Eicosane, 1-iodo- | 408 | C20H41I | 1000406-31-8 | 87 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144302.D
Acq On : 20 Nov 2025 18:56
Operator : RC/JU
Sample : Q3662-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.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 | 6.5 | ng | 117286 | 3 | 9.898 | 359734 | 20.0 |
| n-Hexadecanoic ... | 11.916 | 9.9 | ng | 206054 | 4 | 11.392 | 414877 | 20.0 |
| Dodecanoic acid | 12.698 | 2.1 | ng | 43708 | 4 | 11.392 | 414877 | 20.0 |
| Hexacosyl trifl... | 13.880 | 4.3 | ng | 115890 | 5 | 14.039 | 537200 | 20.0 |
| Eicosane | 15.145 | 5.5 | ng | 84163 | 6 | 15.521 | 303321 | 20.0 |
| Heneicosane | 15.968 | 6.2 | ng | 94692 | 6 | 15.521 | 303321 | 20.0 |

Sample Results: **BF144296.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144296.D
Acq On : 20 Nov 2025 15:59
Operator : RC/JU
Sample : Q3662-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 20 16:46:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.863 | 152 | 39264 | 20.000 | ng | | -0.01 |
| 21) Naphthalene-d8 | 8.145 | 136 | 131569 | 20.000 | ng | | -0.01 |
| 39) Acenaphthene-d10 | 9.898 | 164 | 67150 | 20.000 | ng | | -0.02 |
| 64) Phenanthrene-d10 | 11.392 | 188 | 132298 | 20.000 | ng | | -0.01 |
| 76) Chrysene-d12 | 14.039 | 240 | 127839 | 20.000 | ng | | -0.01 |
| 86) Perylene-d12 | 15.521 | 264 | 98400 | 20.000 | ng | | -0.02 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.487 | 112 | 131616 | 52.456 | ng | | 0.00 |
| 7) Phenol-d6 | 6.493 | 99 | 141899 | 49.912 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.422 | 82 | 82868 | 36.377 | ng | | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.692 | 330 | 41299 | 49.011 | ng | | -0.01 |
| 45) 2-Fluorobiphenyl | 9.216 | 172 | 155815 | 34.271 | ng | | -0.01 |
| 79) Terphenyl-d14 | 12.980 | 244 | 219505 | 27.274 | ng | | -0.01 |
| Target Compounds | | | | | | | Qvalue |
| 49) Acenaphthylene | 9.763 | 152 | 18793 | 3.449 | ng | | 98 |
| 71) Phenanthrene | 11.416 | 178 | 93364 | 14.174 | ng | | 99 |
| 72) Anthracene | 11.469 | 178 | 17264 | 2.578 | ng | | 97 |
| 75) Fluoranthene | 12.610 | 202 | 219050 | 32.193 | ng | | 99 |
| 78) Pyrene | 12.839 | 202 | 229746 | 22.289 | ng | | 99 |
| 81) Benzo(a)anthracene | 14.033 | 228 | 125294 | 14.141 | ng | | 94 |
| 83) Chrysene | 14.069 | 228 | 132554 | 16.206 | ng | | 97 |
| 87) Indeno(1,2,3-cd)pyrene | 17.015 | 276 | 44368 | 6.281 | ng | | 97 |
| 88) Benzo(b)fluoranthene | 15.092 | 252 | 124392m | 22.236 | ng | | |
| 89) Benzo(k)fluoranthene | 15.104 | 252 | 45623m | 8.713 | ng | | |
| 90) Benzo(a)pyrene | 15.457 | 252 | 82438 | 15.974 | ng | # | 93 |
| 91) Dibenzo(a,h)anthracene | 17.021 | 278 | 11667 | 2.057 | ng | # | 80 |
| 92) Benzo(g,h,i)perylene | 17.468 | 276 | 45713 | 8.160 | ng | # | 91 |

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

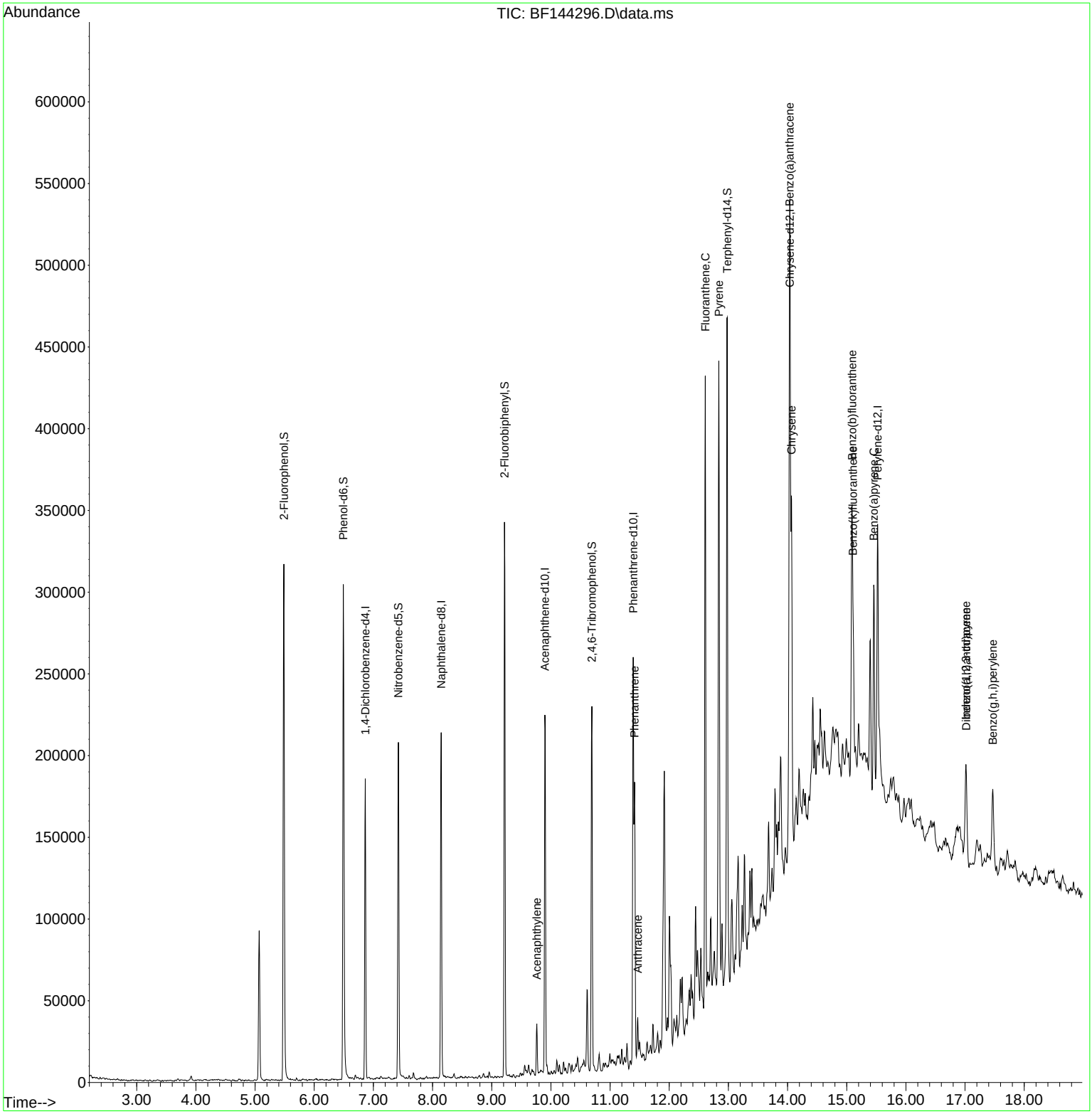
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Data File : BF144296.D
Acq On : 20 Nov 2025 15:59
Operator : RC/JU
Sample : Q3662-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

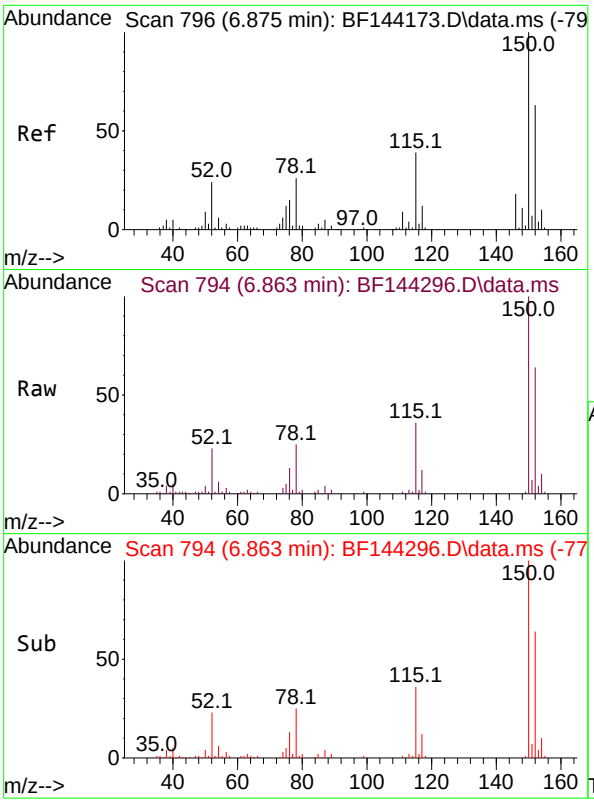
Quant Time: Nov 20 16:46:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

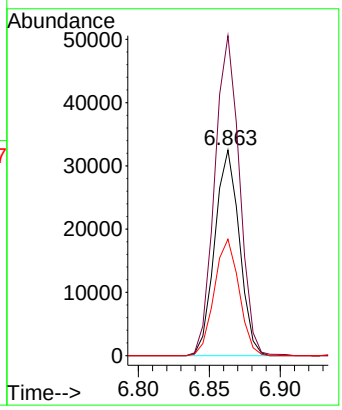





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 79
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:152 Resp: 39264

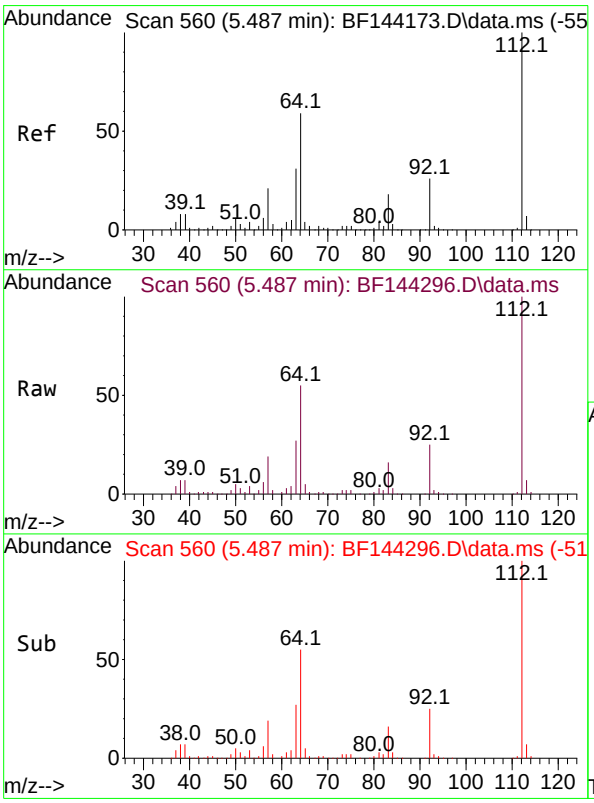
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.7 | 127.4 | 191.0 |
| 115 | 56.7 | 49.5 | 74.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations APPROVED**

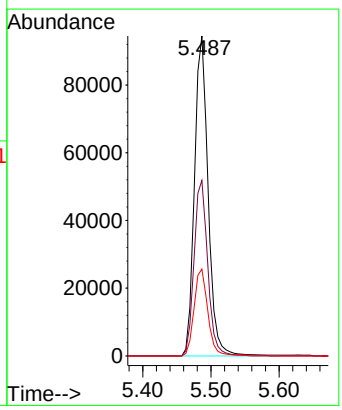
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

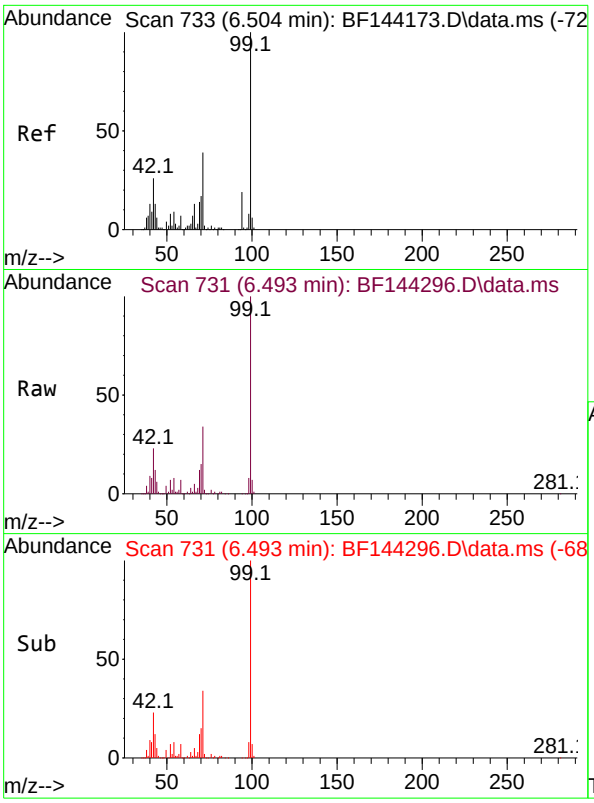



#5
2-Fluorophenol
Concen: 52.456 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.006 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:112 Resp: 131616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.8 | 47.2 | 70.8 |
| 63 | 27.1 | 24.4 | 36.6 |

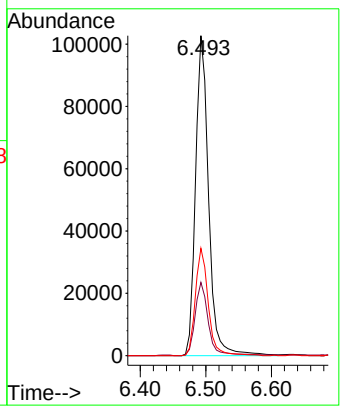





#7
Phenol-d6
Concen: 49.912 ng
RT: 6.493 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion: 99 Resp: 14189

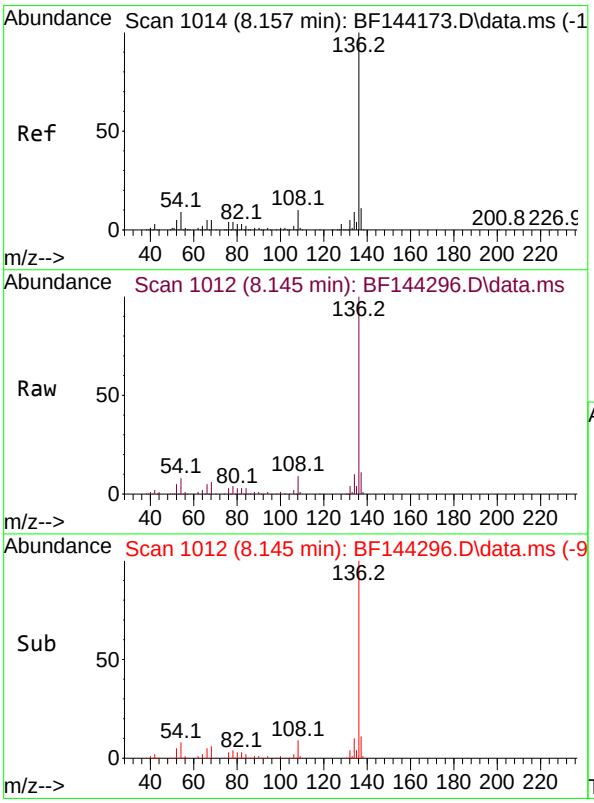
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 22.9 | 20.9 | 31.3 |
| 71 | 33.5 | 31.4 | 47.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations**
**APPROVED**

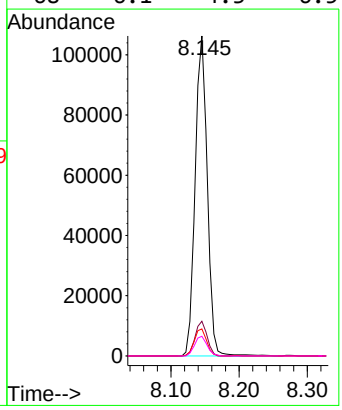
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

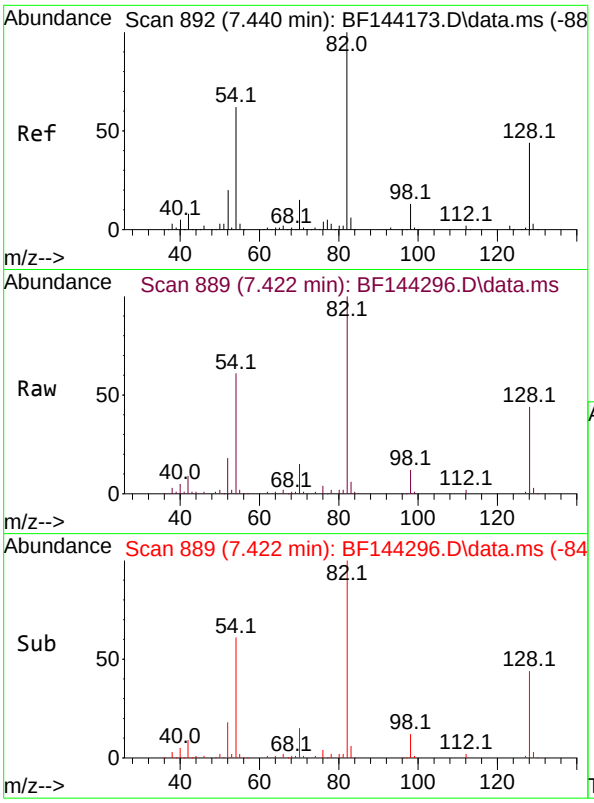



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1012
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:136 Resp: 131569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.8 | 8.6 | 13.0 |
| 54 | 8.4 | 7.0 | 10.6 |
| 68 | 6.1 | 4.3 | 6.5 |






#23
Nitrobenzene-d5
Concen: 36.377 ng
RT: 7.422 min Scan# 88
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

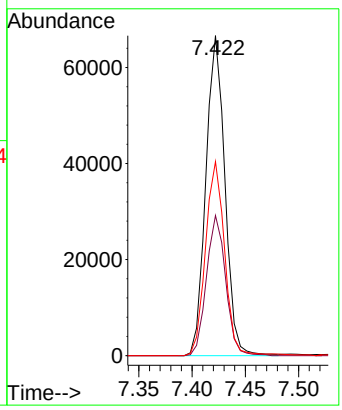
Tgt Ion: 82 Resp: 82868

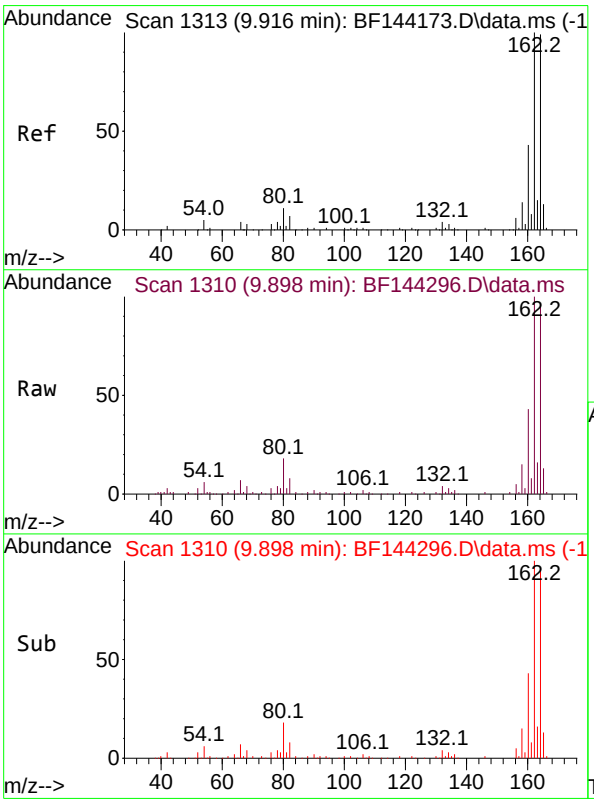
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.8 | 34.7 | 52.1 |
| 54 | 60.6 | 49.5 | 74.3 |

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

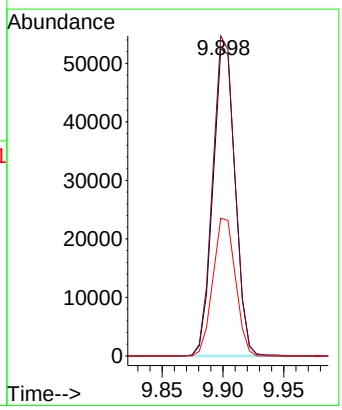


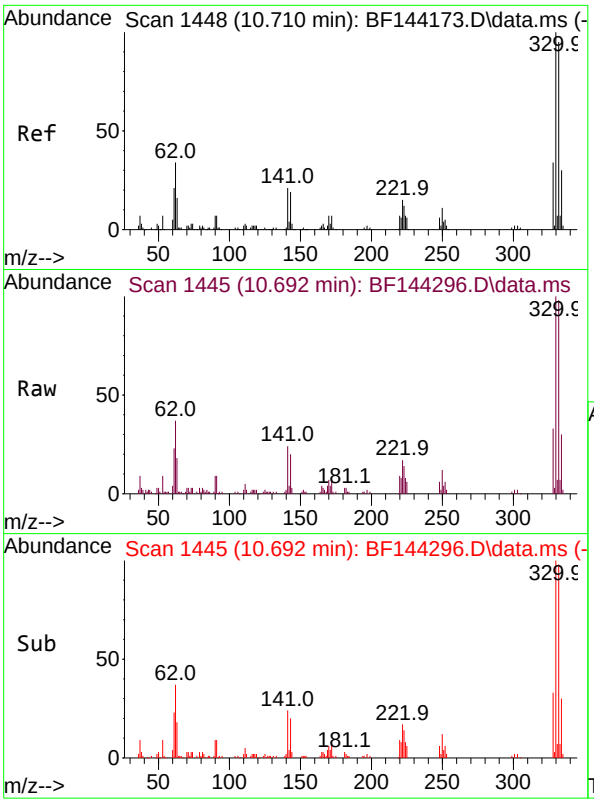




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 1310
Delta R.T. -0.018 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:164 Resp: 67150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.2 | 81.1 | 121.7 |
| 160 | 44.8 | 34.5 | 51.7 |






#42
2,4,6-Tribromophenol
Concen: 49.011 ng
RT: 10.692 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

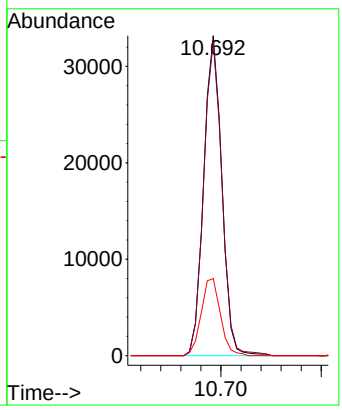
Tgt Ion:330 Resp: 4129

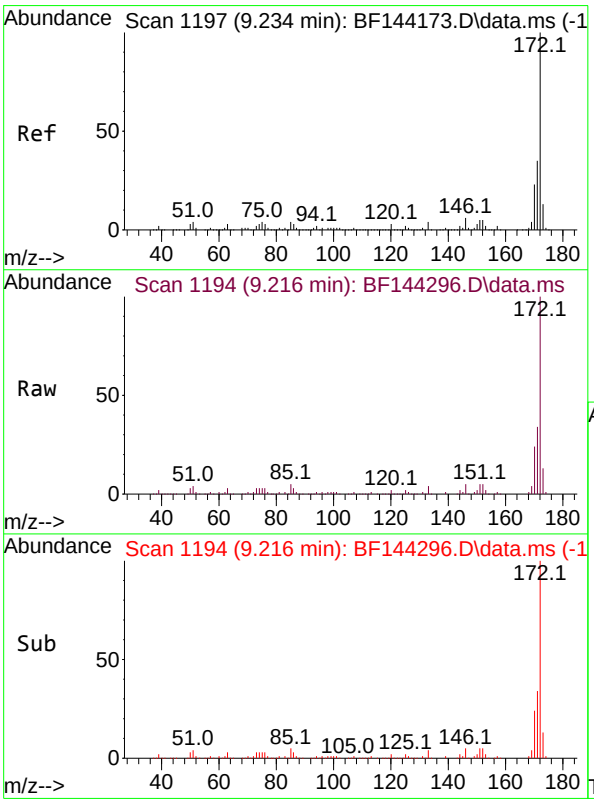
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 99.6 | 76.7 | 115.1 |
| 141 | 25.7 | 17.8 | 26.8 |

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

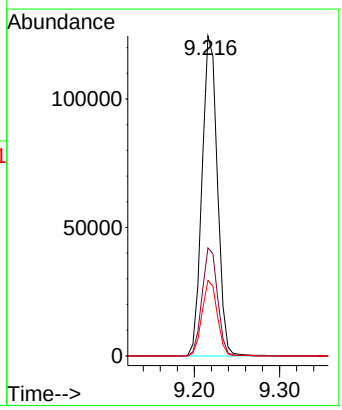


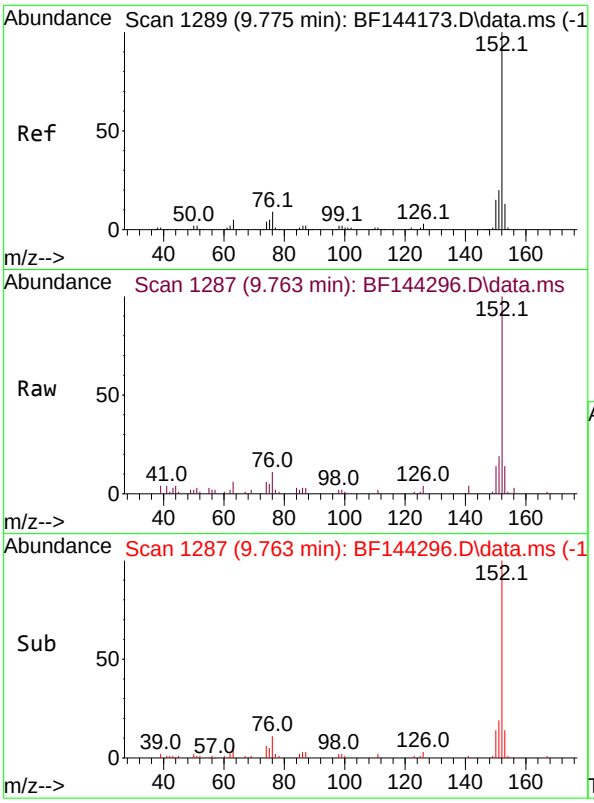




#45
2-Fluorobiphenyl
Concen: 34.271 ng
RT: 9.216 min Scan# 1194
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:172 Resp: 155815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 33.7 | 28.1 | 42.1 |
| 170 | 23.6 | 18.6 | 28.0 |

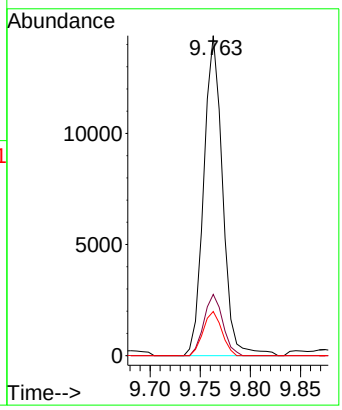





#49
Acenaphthylene
Concen: 3.449 ng
RT: 9.763 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:152 Resp: 1879

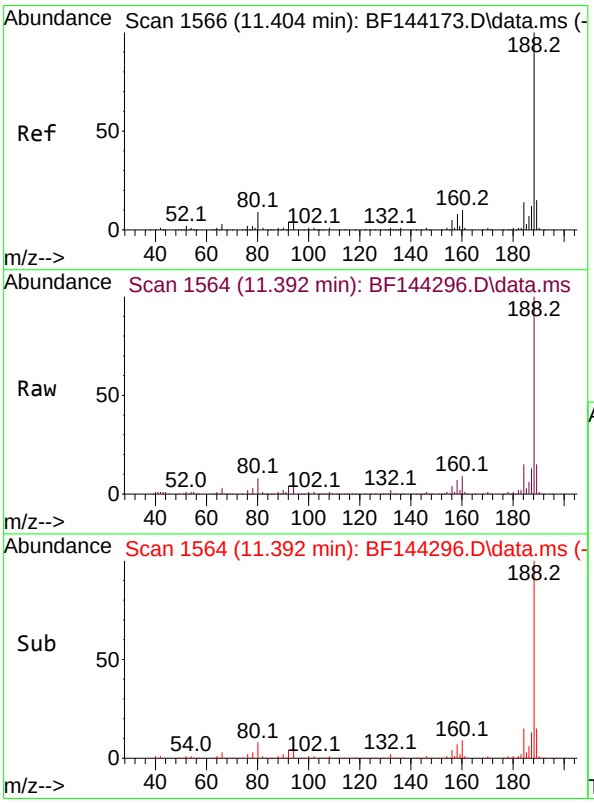
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.1 | 15.9 | 23.9 |
| 153 | 13.8 | 10.5 | 15.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations**
**APPROVED**

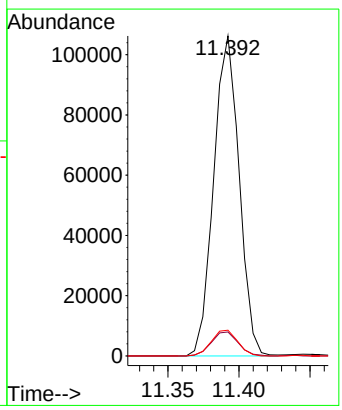
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

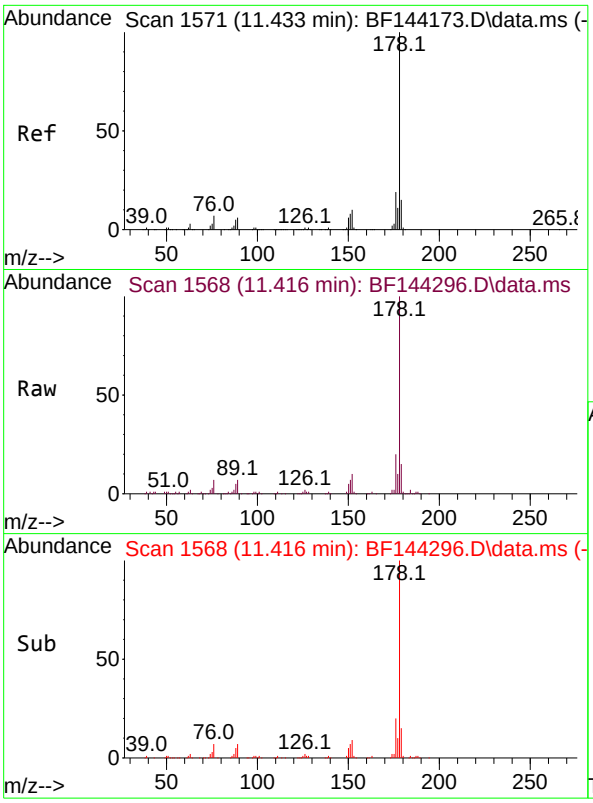



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1564
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:188 Resp: 132298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 7.5 | 6.2 | 9.2 |
| 80 | 8.0 | 6.9 | 10.3 |

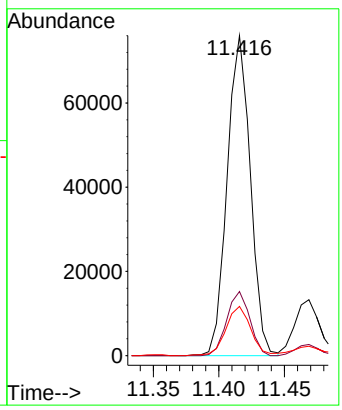





#71
Phenanthrene
Concen: 14.174 ng
RT: 11.416 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:178 Resp: 9336

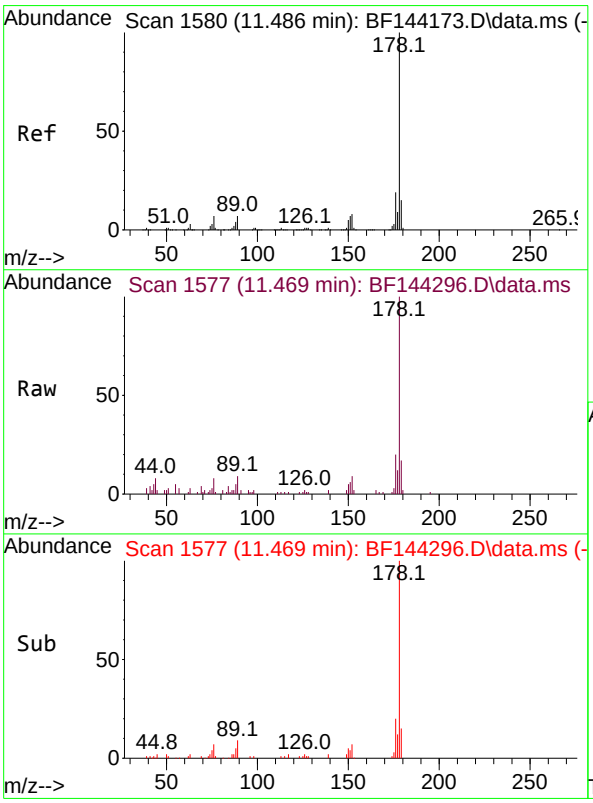
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.0 | 15.5 | 23.3 |
| 179 | 15.4 | 12.2 | 18.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations**
**APPROVED**

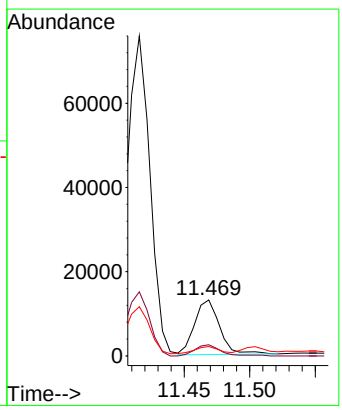
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

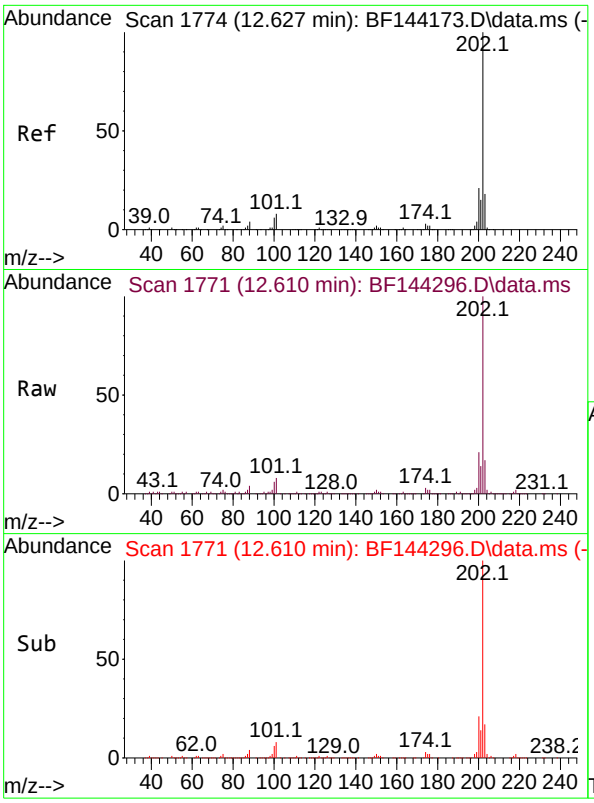



#72
Anthracene
Concen: 2.578 ng
RT: 11.469 min Scan# 1577
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:178 Resp: 17264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.9 | 15.3 | 22.9 |
| 179 | 16.7 | 12.0 | 18.0 |

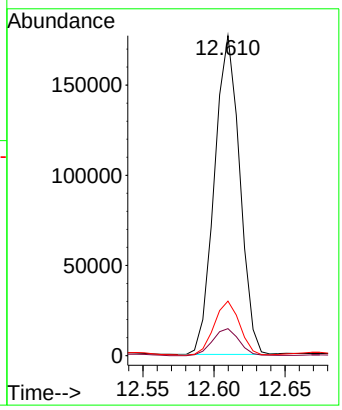





#75
Fluoranthene
Concen: 32.193 ng
RT: 12.610 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:202 Resp: 21905

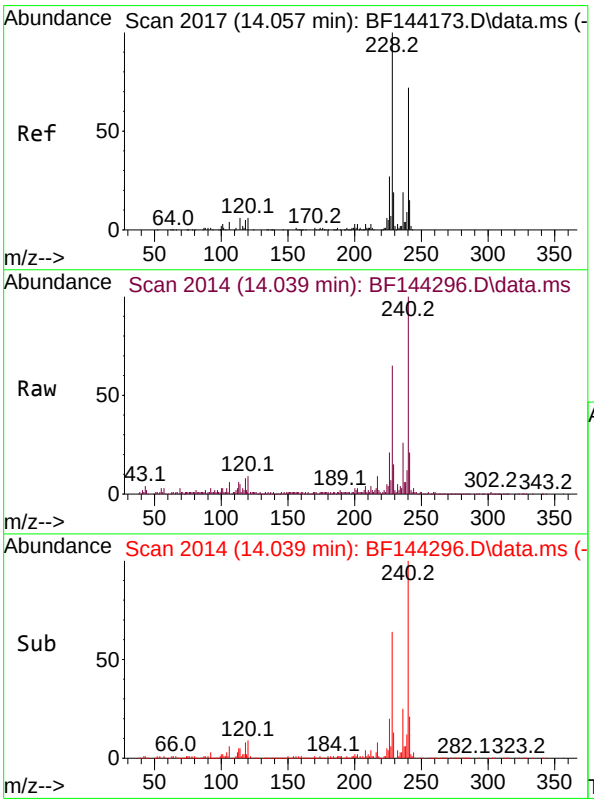
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 8.4 | 0.0 | 27.9 |
| 203 | 17.0 | 0.0 | 37.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations**
**APPROVED**

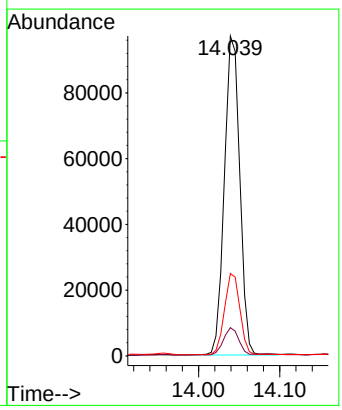
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

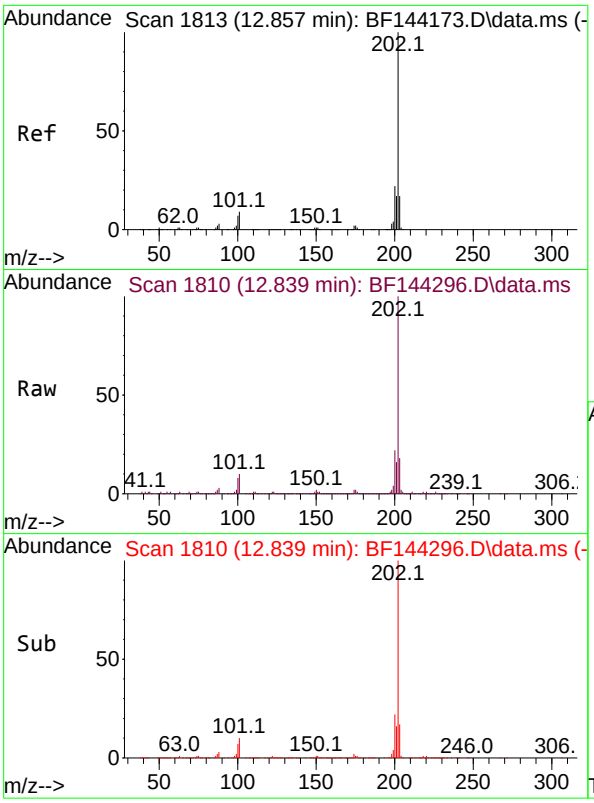



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2014
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:240 Resp: 127839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 8.9 | 6.6 | 10.0 |
| 236 | 25.7 | 21.4 | 32.2 |

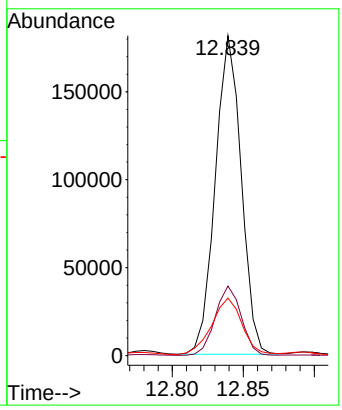





#78
Pyrene
Concen: 22.289 ng
RT: 12.839 min Scan# 18
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:202 Resp: 22974

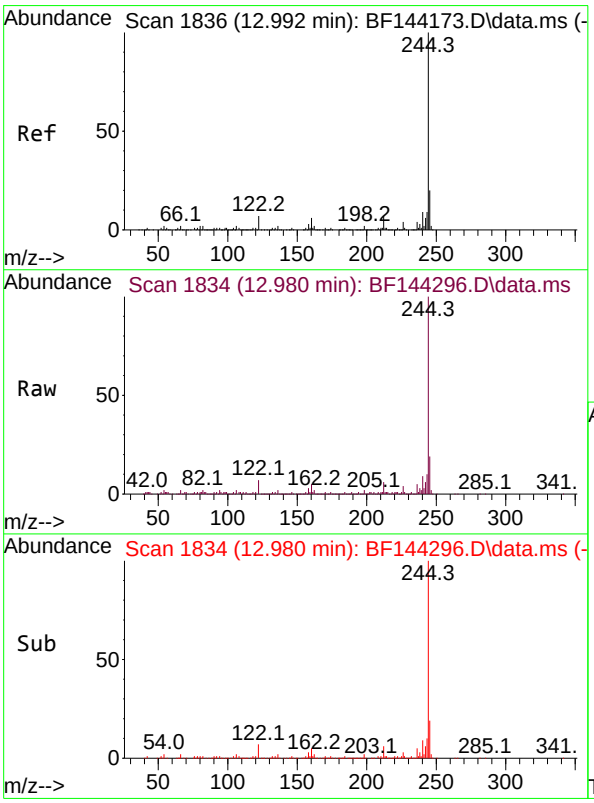
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.7 | 17.2 | 25.8 |
| 203 | 18.0 | 13.7 | 20.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations**
**APPROVED**

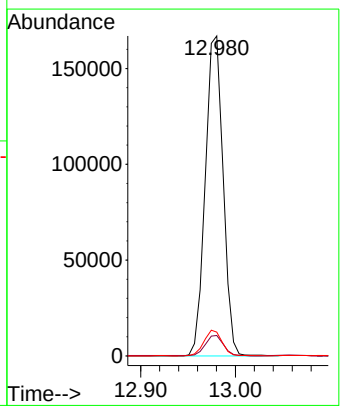
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

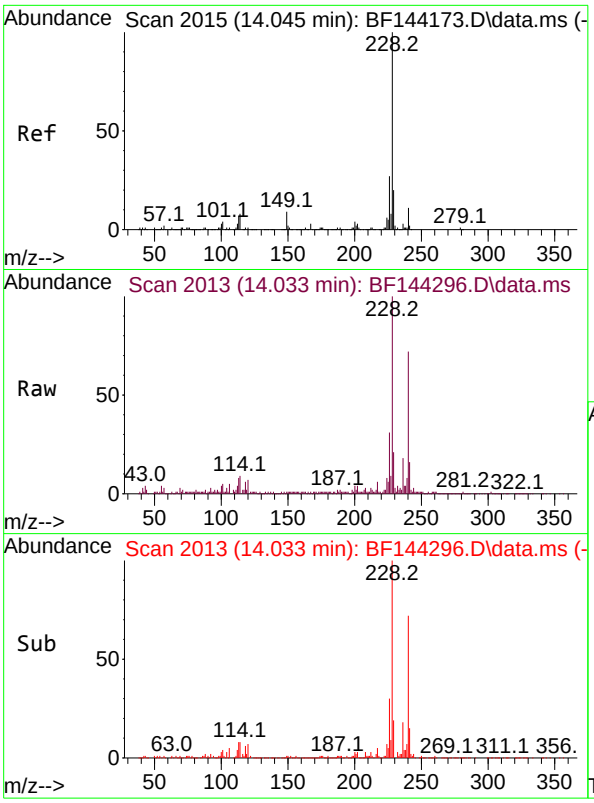



#79
Terphenyl-d14
Concen: 27.274 ng
RT: 12.980 min Scan# 1834
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:244 Resp: 219505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.4 | 5.3 | 7.9 |
| 122 | 7.4 | 5.6 | 8.4 |

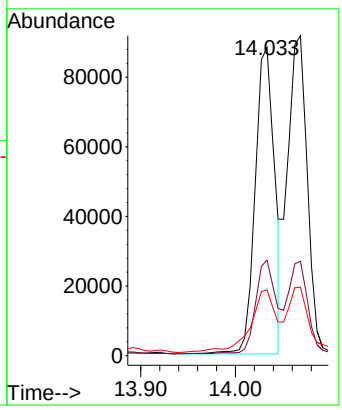





#81
Benzo(a)anthracene
Concen: 14.141 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:228 Resp: 12529

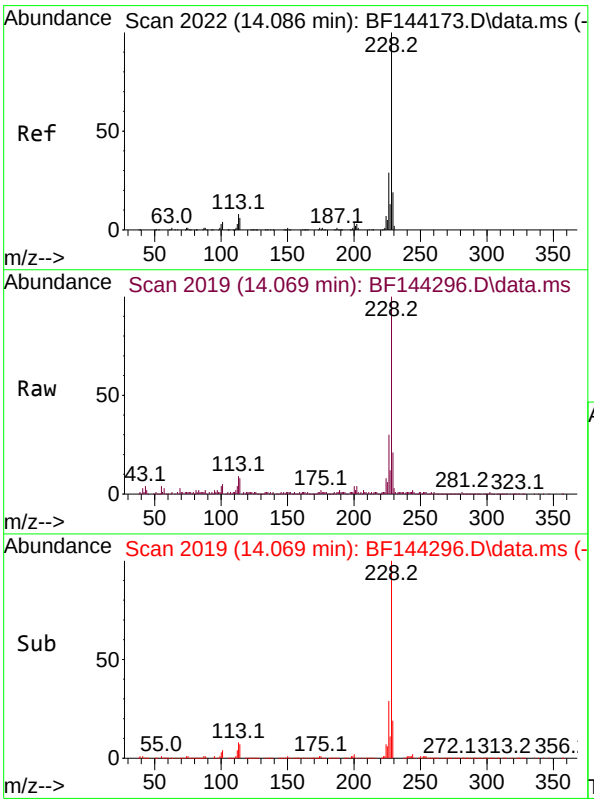
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.0 | 21.8 | 32.8 |
| 229 | 21.4 | 15.8 | 23.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations**
**APPROVED**

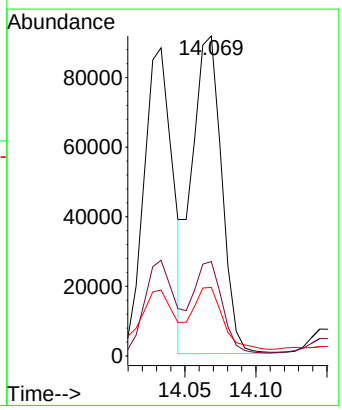
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

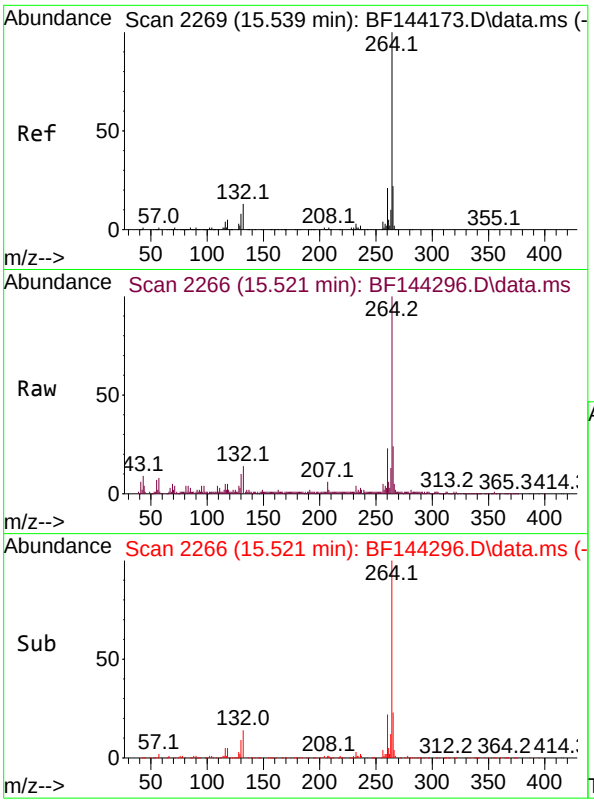



#83
Chrysene
Concen: 16.206 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:228 Resp: 132554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.5 | 22.9 | 34.3 |
| 229 | 21.4 | 15.0 | 22.6 |

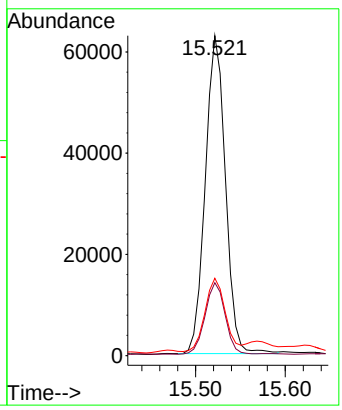





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:264 Resp: 9840

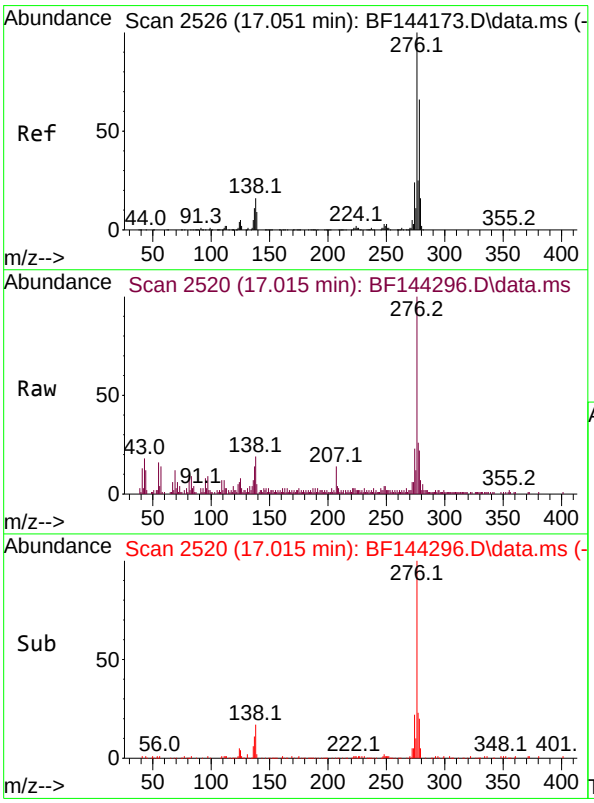
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 22.8 | 17.1 | 25.7 |
| 265 | 24.2 | 17.4 | 26.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations APPROVED**

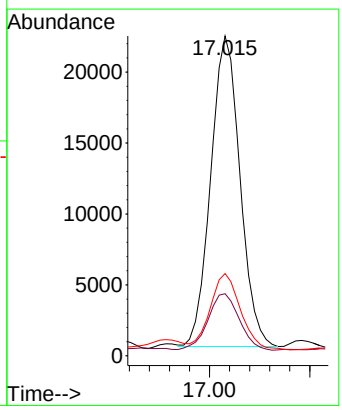
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

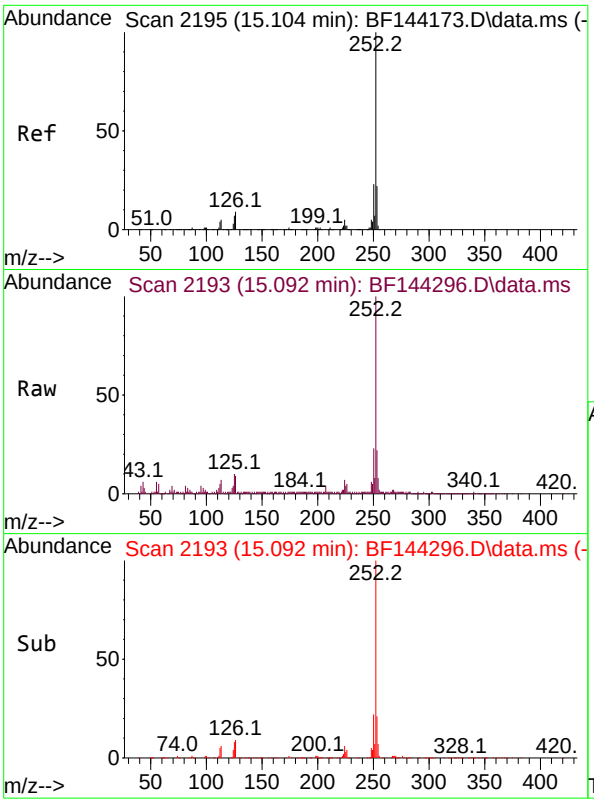



#87
Indeno(1,2,3-cd)pyrene
Concen: 6.281 ng
RT: 17.015 min Scan# 2520
Delta R.T. -0.018 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:276 Resp: 44368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 19.5 | 13.9 | 20.9 |
| 277 | 25.5 | 19.8 | 29.6 |





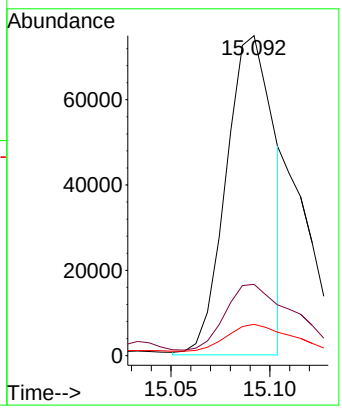

#88
Benzo(b)fluoranthene
Concen: 22.236 ng m
RT: 15.092 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

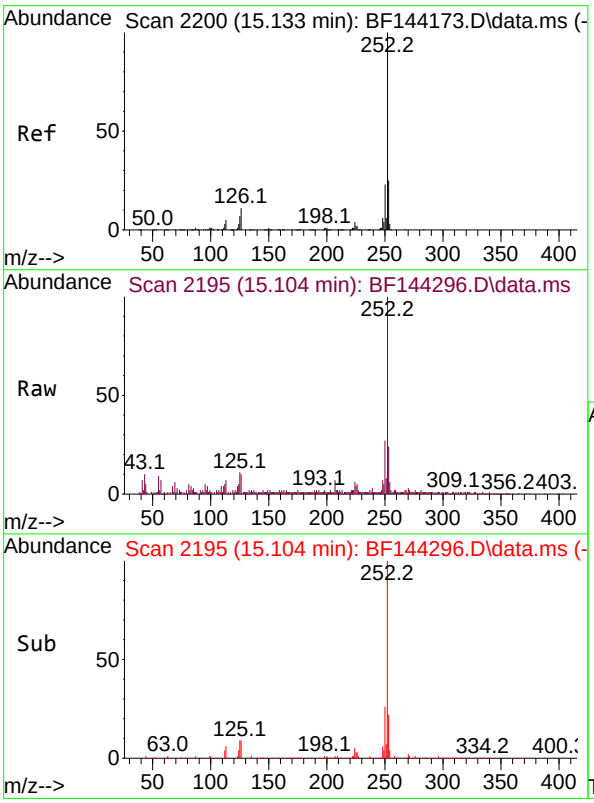
Tgt Ion:252 Resp: 12439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.3 | 17.4 | 26.2 |
| 125 | 9.8 | 5.3 | 7.9# |

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations APPROVED**
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

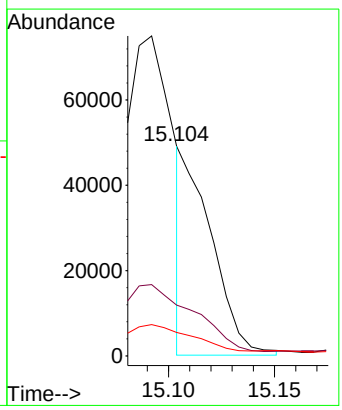


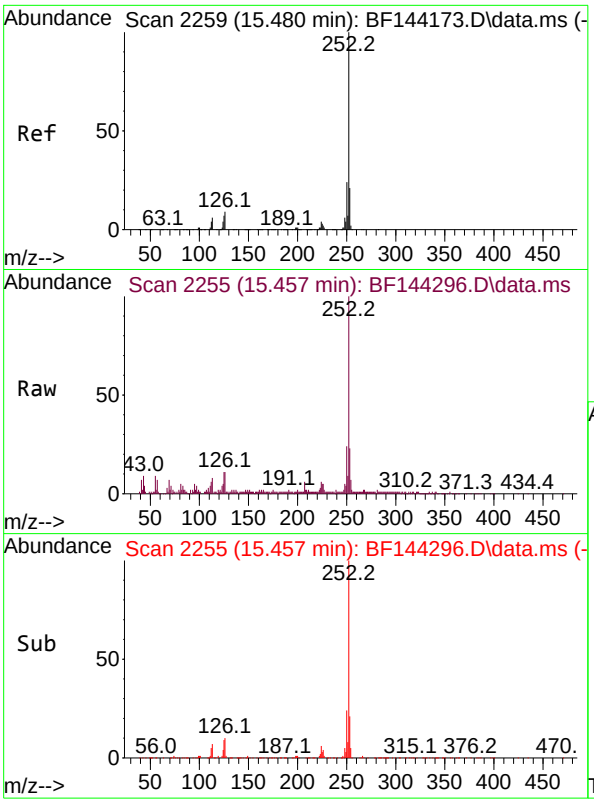




#89
Benzo(k)fluoranthene
Concen: 8.713 ng m
RT: 15.104 min Scan# 2195
Delta R.T. -0.024 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:252 Resp: 45623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.3 | 18.0 | 27.0 |
| 125 | 11.2 | 5.4 | 8.2# |

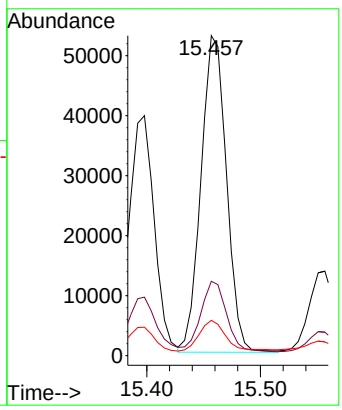





#90
Benzo(a)pyrene
Concen: 15.974 ng
RT: 15.457 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:252 Resp: 8243

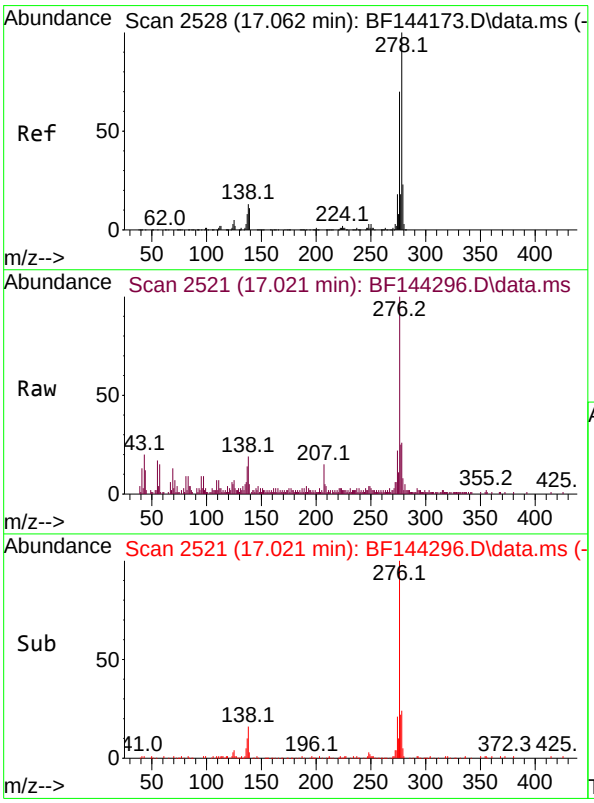
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.2 | 16.7 | 25.1 |
| 125 | 11.0 | 5.7 | 8.5# |




**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations APPROVED**

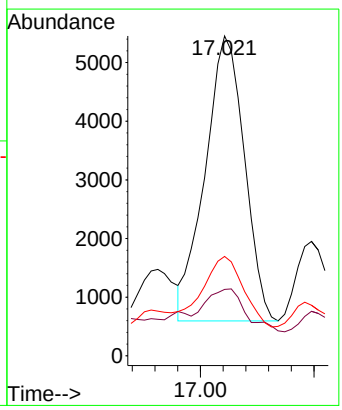
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

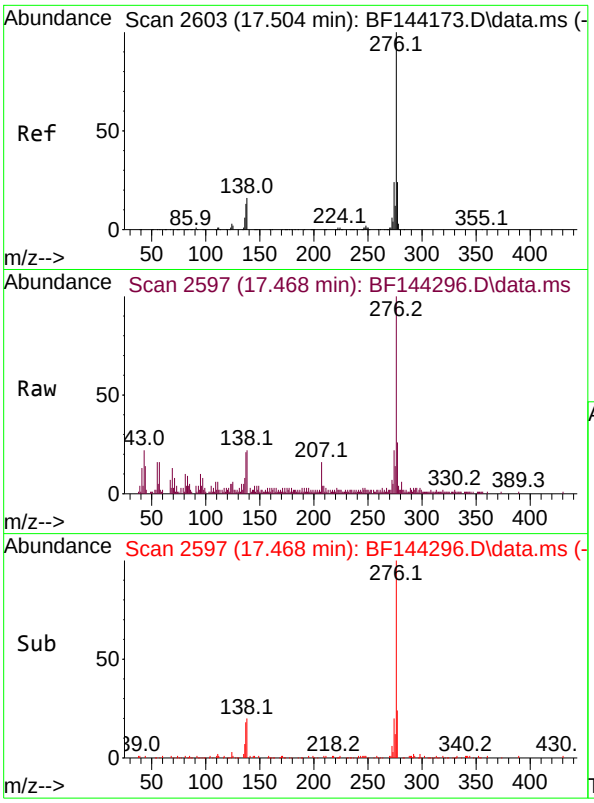



#91
Dibenzo(a,h)anthracene
Concen: 2.057 ng
RT: 17.021 min Scan# 2521
Delta R.T. -0.029 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:278 Resp: 11667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.8 | 9.1 | 13.7# |
| 279 | 31.1 | 18.2 | 27.4# |

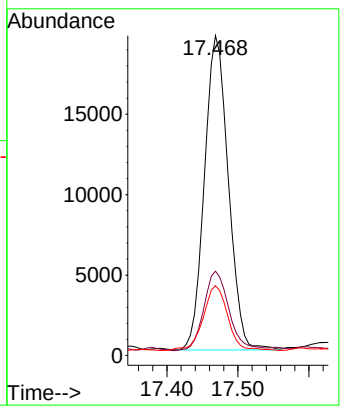





#92
Benzo(g,h,i)perylene
Concen: 8.160 ng
RT: 17.468 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:276 Resp: 4571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.4 | 19.0 | 28.4 |
| 138 | 21.8 | 12.9 | 19.3# |




**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations**
**APPROVED**

Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

A B C D E F G H I J K

Sample Results: **BF144296.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144296.D
Acq On : 20 Nov 2025 15:59
Operator : RC/JU
Sample : Q3662-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

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-BF110525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF144296.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.069 | 481 | 489 | 503 | rVB | 91747 | 131154 | 19.13% | 1.532% |
| 2 | 5.487 | 555 | 560 | 577 | rBV | 315970 | 442076 | 64.48% | 5.165% |
| 3 | 6.493 | 726 | 731 | 748 | rBV | 302918 | 420041 | 61.26% | 4.907% |
| 4 | 6.863 | 789 | 794 | 800 | rBV | 183896 | 224519 | 32.75% | 2.623% |
| 5 | 7.422 | 884 | 889 | 900 | rBV | 205429 | 257977 | 37.63% | 3.014% |
| 6 | 8.145 | 1007 | 1012 | 1019 | rBV | 210829 | 260607 | 38.01% | 3.045% |
| 7 | 9.216 | 1189 | 1194 | 1199 | rBV | 339366 | 417882 | 60.95% | 4.882% |
| 8 | 9.557 | 1248 | 1252 | 1255 | rBV3 | 5907 | 8699 | 1.27% | 0.102% |
| 9 | 9.622 | 1259 | 1263 | 1269 | rVB3 | 5948 | 9360 | 1.37% | 0.109% |
| 10 | 9.763 | 1283 | 1287 | 1291 | rBV | 31668 | 40042 | 5.84% | 0.468% |
| 11 | 9.898 | 1305 | 1310 | 1315 | rBV | 218648 | 280262 | 40.88% | 3.274% |
| 12 | 10.098 | 1340 | 1344 | 1349 | rBV3 | 8080 | 11544 | 1.68% | 0.135% |
| 13 | 10.145 | 1349 | 1352 | 1356 | rVB4 | 5608 | 7067 | 1.03% | 0.083% |
| 14 | 10.216 | 1360 | 1364 | 1367 | rBV4 | 7273 | 10597 | 1.55% | 0.124% |
| 15 | 10.304 | 1374 | 1379 | 1385 | rBV8 | 6037 | 13775 | 2.01% | 0.161% |
| 16 | 10.451 | 1401 | 1404 | 1409 | rVB4 | 8718 | 12933 | 1.89% | 0.151% |
| 17 | 10.610 | 1427 | 1431 | 1438 | rVB | 49709 | 70791 | 10.33% | 0.827% |
| 18 | 10.692 | 1440 | 1445 | 1450 | rBV | 222065 | 283118 | 41.29% | 3.308% |
| 19 | 10.816 | 1461 | 1466 | 1472 | rVB4 | 10347 | 16364 | 2.39% | 0.191% |
| 20 | 10.998 | 1493 | 1497 | 1500 | rBV4 | 7971 | 10552 | 1.54% | 0.123% |
| 21 | 11.128 | 1515 | 1519 | 1521 | rBV5 | 4738 | 7007 | 1.02% | 0.082% |
| 22 | 11.198 | 1527 | 1531 | 1535 | rVB | 9425 | 10567 | 1.54% | 0.123% |
| 23 | 11.286 | 1542 | 1546 | 1551 | rVB | 15602 | 22462 | 3.28% | 0.262% |
| 24 | 11.345 | 1551 | 1556 | 1558 | rBV6 | 4954 | 8264 | 1.21% | 0.097% |
| 25 | 11.392 | 1559 | 1564 | 1566 | rVV | 249038 | 334681 | 48.81% | 3.910% |
| 26 | 11.416 | 1566 | 1568 | 1573 | rVV | 171317 | 186306 | 27.17% | 2.177% |
| 27 | 11.469 | 1573 | 1577 | 1580 | rVV | 26133 | 35504 | 5.18% | 0.415% |
| 28 | 11.498 | 1580 | 1582 | 1589 | rVB6 | 9628 | 14556 | 2.12% | 0.170% |
| 29 | 11.628 | 1600 | 1604 | 1608 | rBV2 | 10519 | 17771 | 2.59% | 0.208% |
| 30 | 11.722 | 1617 | 1620 | 1625 | rBV | 17676 | 22515 | 3.28% | 0.263% |
| 31 | 11.804 | 1631 | 1634 | 1638 | rVB | 12007 | 15828 | 2.31% | 0.185% |
| 32 | 11.845 | 1638 | 1641 | 1644 | rBV3 | 7481 | 10156 | 1.48% | 0.119% |
| 33 | 11.916 | 1644 | 1653 | 1660 | rVV2 | 170117 | 354292 | 51.68% | 4.139% |
| 34 | 11.969 | 1660 | 1662 | 1664 | rVV3 | 17138 | 20079 | 2.93% | 0.235% |
| 35 | 12.004 | 1664 | 1668 | 1677 | rVB2 | 78812 | 166605 | 24.30% | 1.946% |
| 36 | 12.080 | 1677 | 1681 | 1686 | rBV6 | 16049 | 33857 | 4.94% | 0.396% |

Sample Results: **BF144296.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144296.D
Acq On : 20 Nov 2025 15:59
Operator : RC/JU
Sample : Q3662-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

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-BF110525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 12.127 | 1686 | 1689 | 1692 | rVV2 | 14719 | 17722 | 2.58% | 0.207% |
| 38 | 12.192 | 1696 | 1700 | 1702 | rVV | 35072 | 54684 | 7.98% | 0.639% |
| 39 | 12.222 | 1702 | 1705 | 1711 | rVB | 34935 | 51411 | 7.50% | 0.601% |
| 40 | 12.339 | 1719 | 1725 | 1727 | rBV2 | 20708 | 37119 | 5.41% | 0.434% |
| 41 | 12.369 | 1727 | 1730 | 1733 | rVV | 19615 | 23521 | 3.43% | 0.275% |
| 42 | 12.445 | 1739 | 1743 | 1746 | rBV | 67385 | 91788 | 13.39% | 1.072% |
| 43 | 12.480 | 1746 | 1749 | 1755 | rVV2 | 35450 | 65173 | 9.51% | 0.761% |
| 44 | 12.533 | 1755 | 1758 | 1766 | rVB4 | 36925 | 58521 | 8.54% | 0.684% |
| 45 | 12.610 | 1766 | 1771 | 1775 | rBV | 387018 | 494041 | 72.06% | 5.772% |
| 46 | 12.704 | 1783 | 1787 | 1791 | rVB2 | 40964 | 51863 | 7.56% | 0.606% |
| 47 | 12.839 | 1804 | 1810 | 1816 | rBV | 381412 | 556202 | 81.12% | 6.498% |
| 48 | 12.892 | 1816 | 1819 | 1823 | rVB2 | 37996 | 46719 | 6.81% | 0.546% |
| 49 | 12.980 | 1828 | 1834 | 1841 | rVB | 406613 | 598790 | 87.34% | 6.996% |
| 50 | 13.057 | 1842 | 1847 | 1854 | rBV4 | 50436 | 97747 | 14.26% | 1.142% |
| 51 | 13.163 | 1858 | 1865 | 1870 | rVB2 | 67350 | 140268 | 20.46% | 1.639% |
| 52 | 13.233 | 1874 | 1877 | 1880 | rVV2 | 29924 | 37293 | 5.44% | 0.436% |
| 53 | 13.269 | 1880 | 1883 | 1891 | rVB2 | 58376 | 93061 | 13.57% | 1.087% |
| 54 | 13.363 | 1896 | 1899 | 1902 | rVV2 | 38258 | 49545 | 7.23% | 0.579% |
| 55 | 13.398 | 1902 | 1905 | 1908 | rVB | 36190 | 42595 | 6.21% | 0.498% |
| 56 | 13.680 | 1950 | 1953 | 1957 | rVB | 47643 | 59785 | 8.72% | 0.698% |
| 57 | 13.786 | 1967 | 1971 | 1974 | rBV3 | 61066 | 95384 | 13.91% | 1.114% |
| 58 | 14.039 | 2008 | 2014 | 2017 | rBV2 | 388816 | 685615 | 100.00% | 8.010% |
| 59 | 15.092 | 2188 | 2193 | 2200 | rBV | 160685 | 346697 | 50.57% | 4.051% |
| 60 | 15.398 | 2241 | 2245 | 2250 | rVB | 91835 | 145272 | 21.19% | 1.697% |
| 61 | 15.457 | 2251 | 2255 | 2261 | rBV | 124000 | 192859 | 28.13% | 2.253% |
| 62 | 15.521 | 2262 | 2266 | 2271 | rBV | 147544 | 235765 | 34.39% | 2.755% |

Sum of corrected areas: 8559250

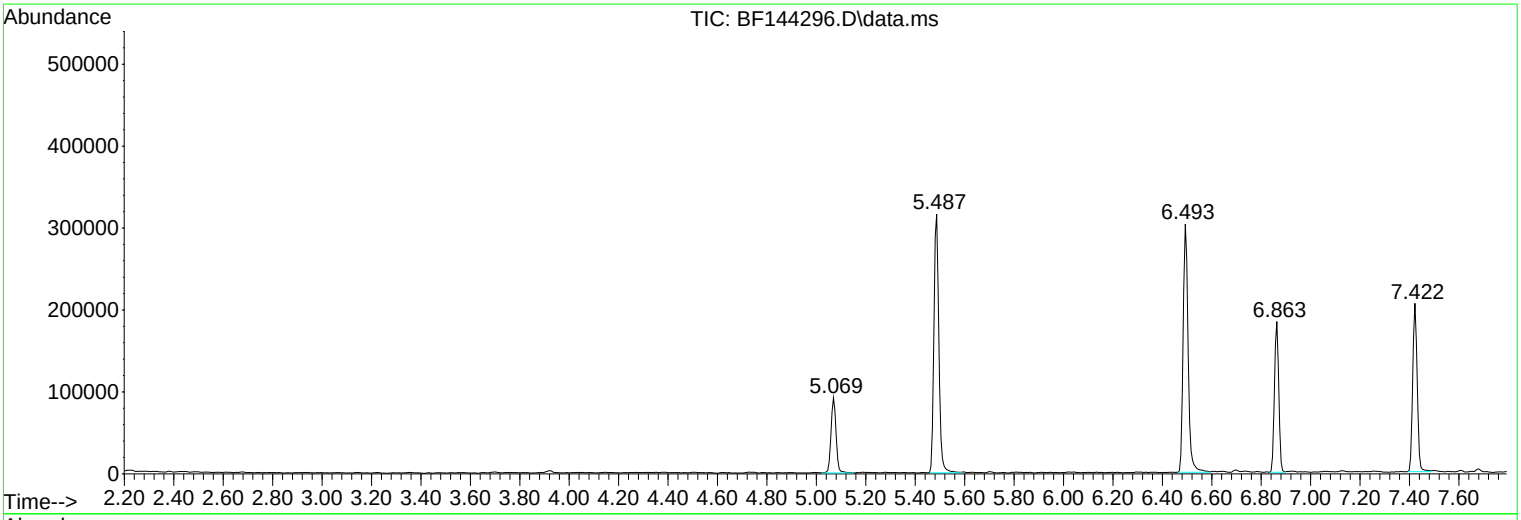
Sample Results: **BF144296.D**

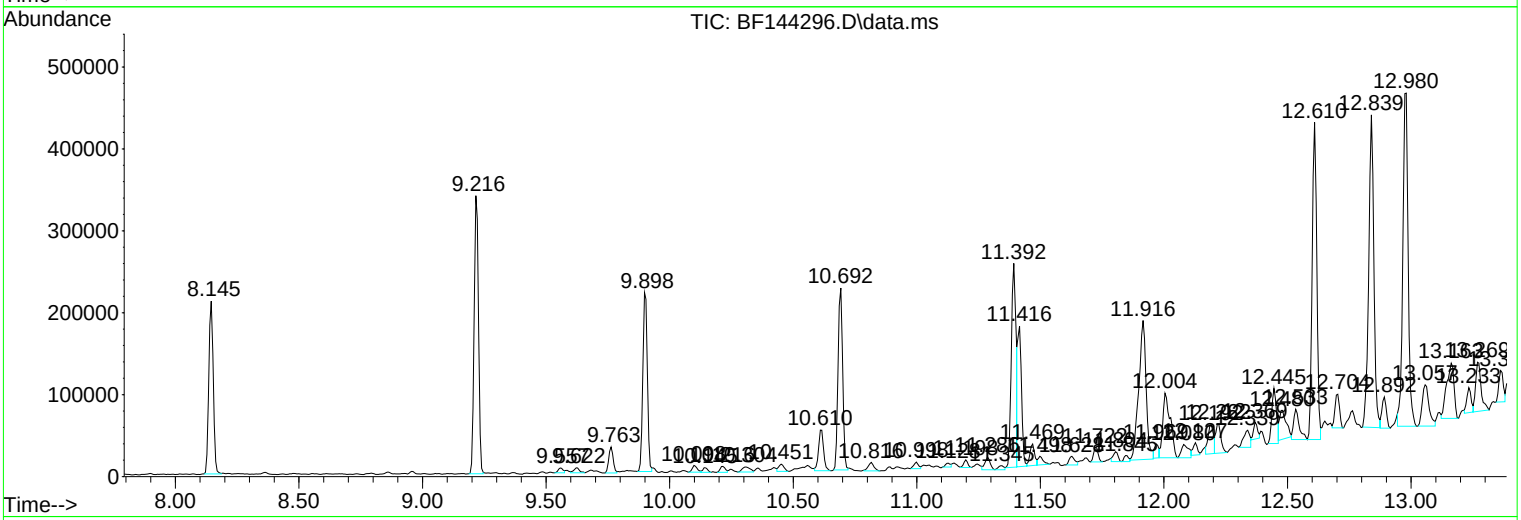
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144296.D
Acq On : 20 Nov 2025 15:59
Operator : RC/JU
Sample : Q3662-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

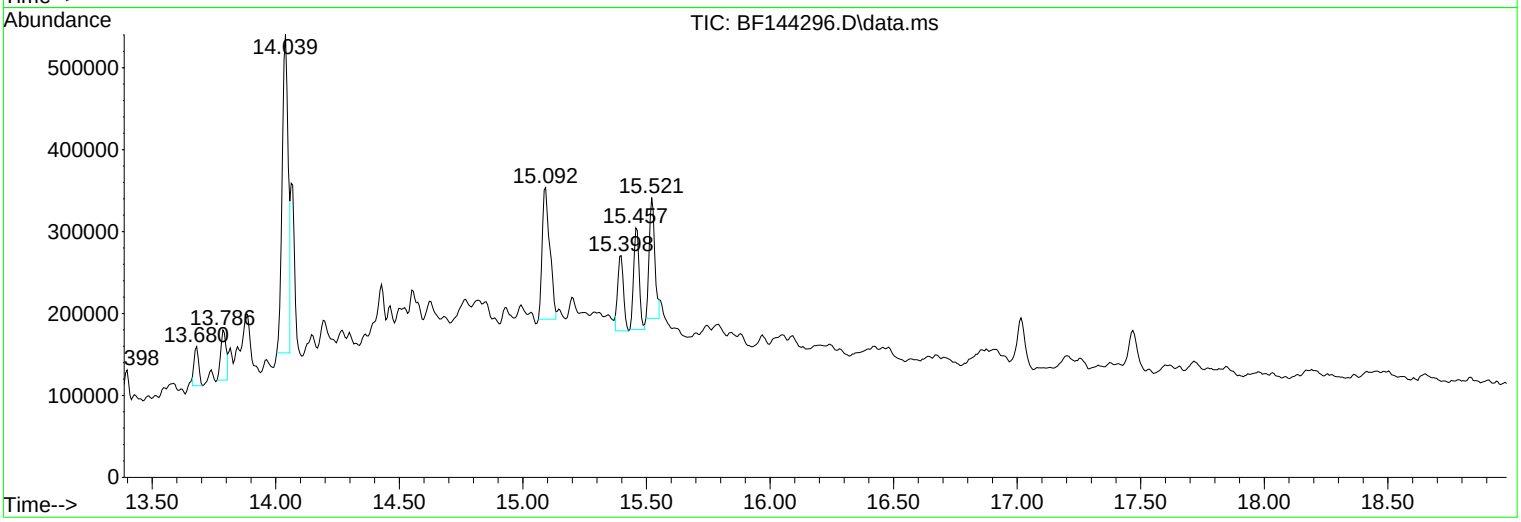
**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.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\BF112025\
Data File : BF144296.D
Acq On : 20 Nov 2025 15:59
Operator : RC/JU
Sample : Q3662-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

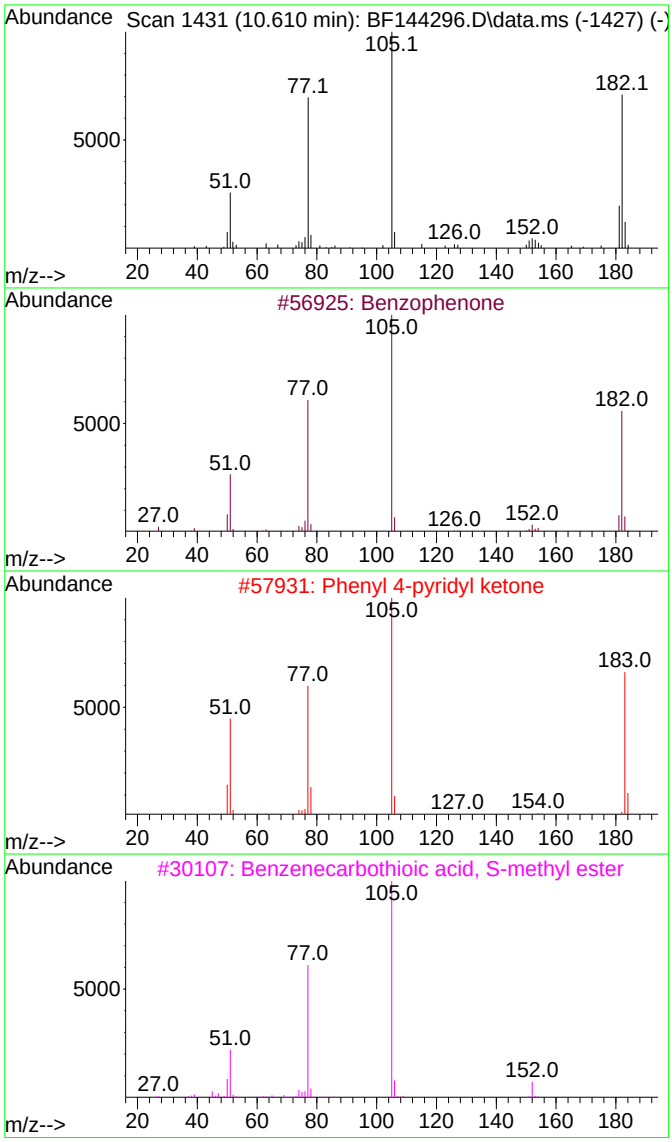
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

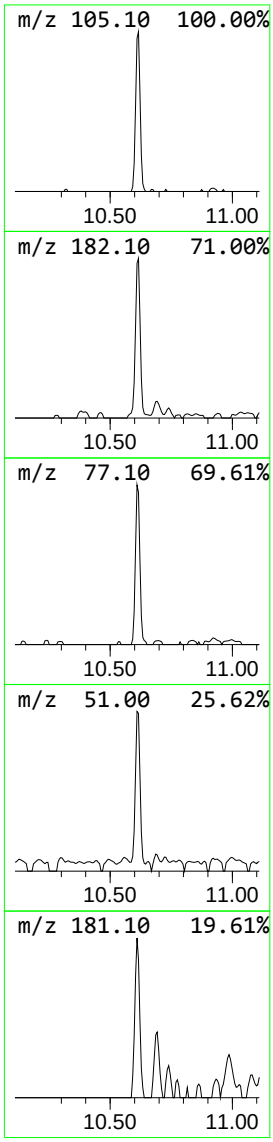
**********

Peak Number 2 Benzophenone Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.610 | 5.05 ng | 70791 | Acenaphthene-d10 | 9.898 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 93 |
| 2 | Phenyl 4-pyridyl ketone | 183 | C12H9NO | 014548-46-0 | 43 |
| 3 | Benzenecarbothioic acid, S-methy... | 152 | C8H8OS | 005925-68-8 | 43 |
| 4 | 3,3'-Dimethylbiphenyl | 182 | C14H14 | 000612-75-9 | 38 |
| 5 | Benzoylformic acid | 150 | C8H6O3 | 000611-73-4 | 38 |



Sample Results: **BF144296.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144296.D
Acq On : 20 Nov 2025 15:59
Operator : RC/JU
Sample : Q3662-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

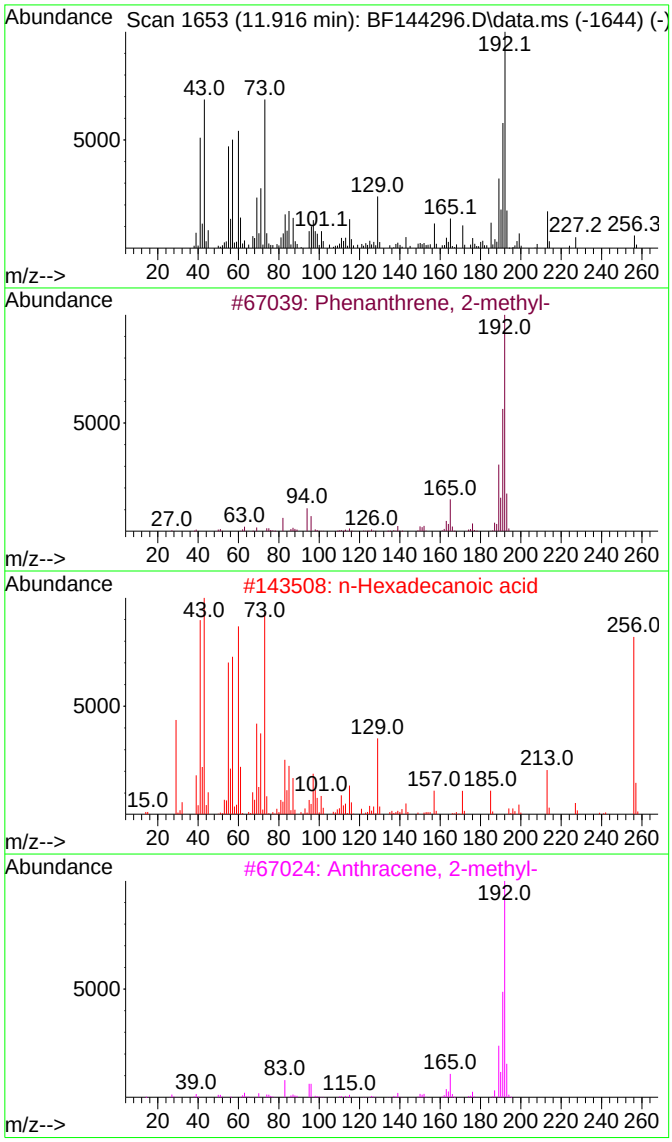
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

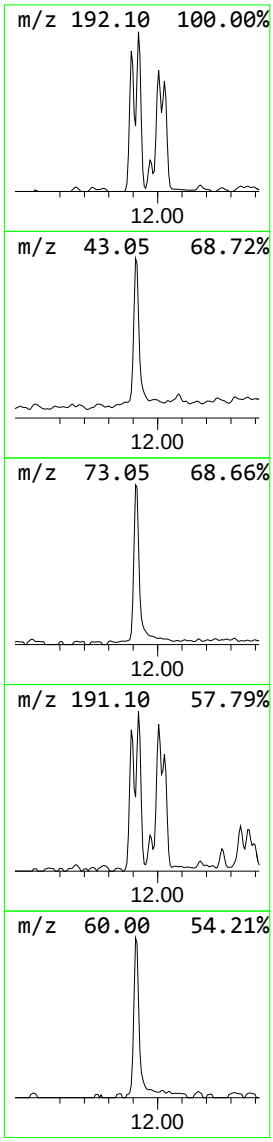
**********

Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.916 | 21.17 ng | 354292 | Phenanthrene-d10 | 11.392 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 2 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 92 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 91 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 91 |
| 5 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144296.D
Acq On : 20 Nov 2025 15:59
Operator : RC/JU
Sample : Q3662-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

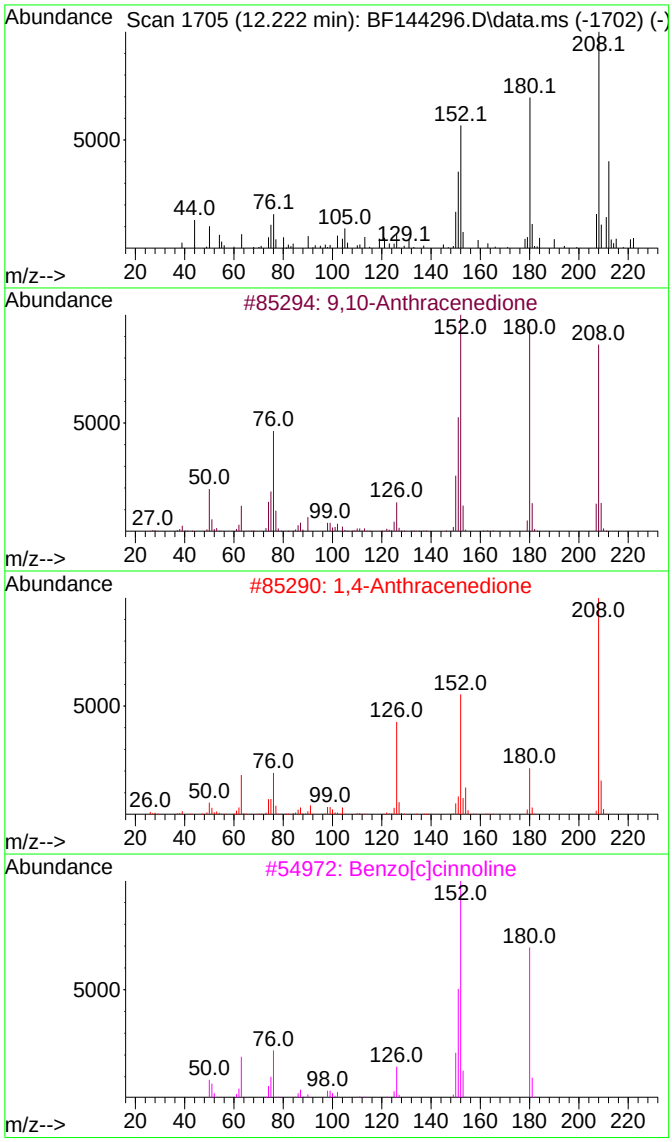
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TIC Integration Parameters: LSCINT.P

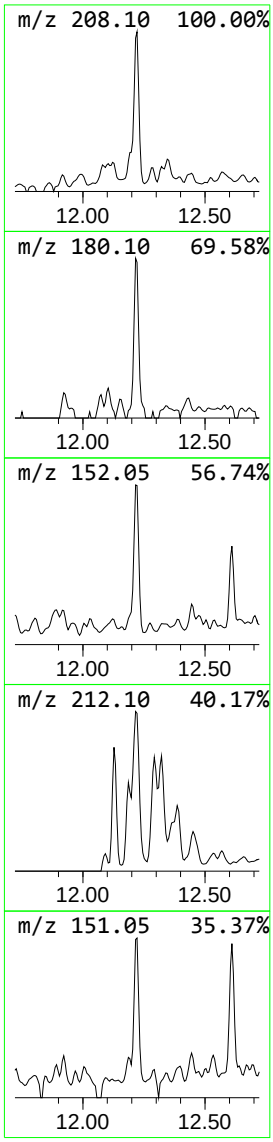
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Peak Number 7 9,10-Anthracenedione Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.222 | 3.07 ng | 51411 | Phenanthrene-d10 | 11.392 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 95 |
| 2 | 1,4-Anthracenedione | 208 | C14H8O2 | 000635-12-1 | 43 |
| 3 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 38 |
| 4 | 5,6,7,8-Tetrahydro-1-phenylnapht... | 208 | C16H16 | 067064-63-5 | 38 |
| 5 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 38 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144296.D
Acq On : 20 Nov 2025 15:59
Operator : RC/JU
Sample : Q3662-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

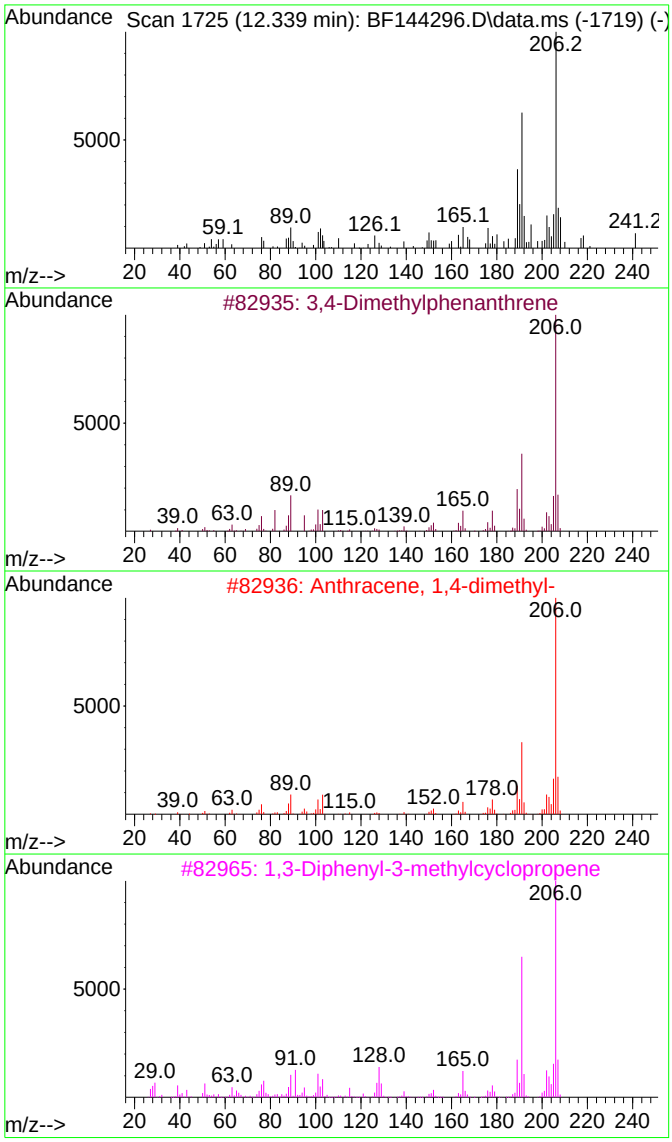
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TIC Integration Parameters: LSCINT.P

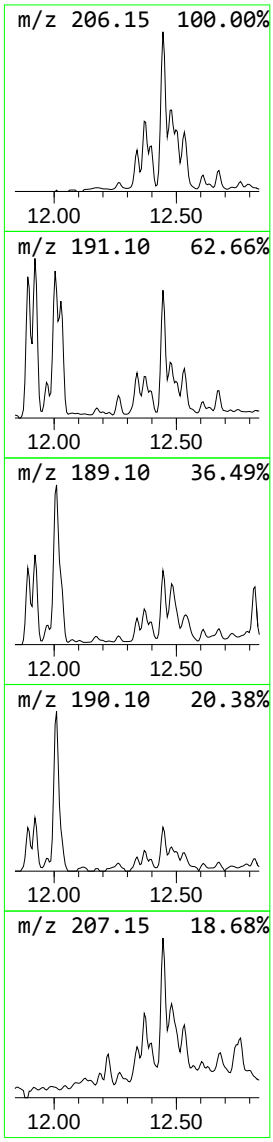
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Peak Number 8 3,4-Dimethylphenanthrene Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.339 | 2.22 ng | 37119 | Phenanthrene-d10 | 11.392 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,4-Dimethylphenanthrene | 206 | C16H14 | 1000452-24-5 | 93 |
| 2 | Anthracene, 1,4-dimethyl- | 206 | C16H14 | 000781-92-0 | 92 |
| 3 | 1,3-Diphenyl-3-methylcyclopropene | 206 | C16H14 | 086544-79-8 | 90 |
| 4 | 3-Methyl-1-phenyl-1H-indene | 206 | C16H14 | 022360-63-0 | 90 |
| 5 | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 87 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144296.D
Acq On : 20 Nov 2025 15:59
Operator : RC/JU
Sample : Q3662-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

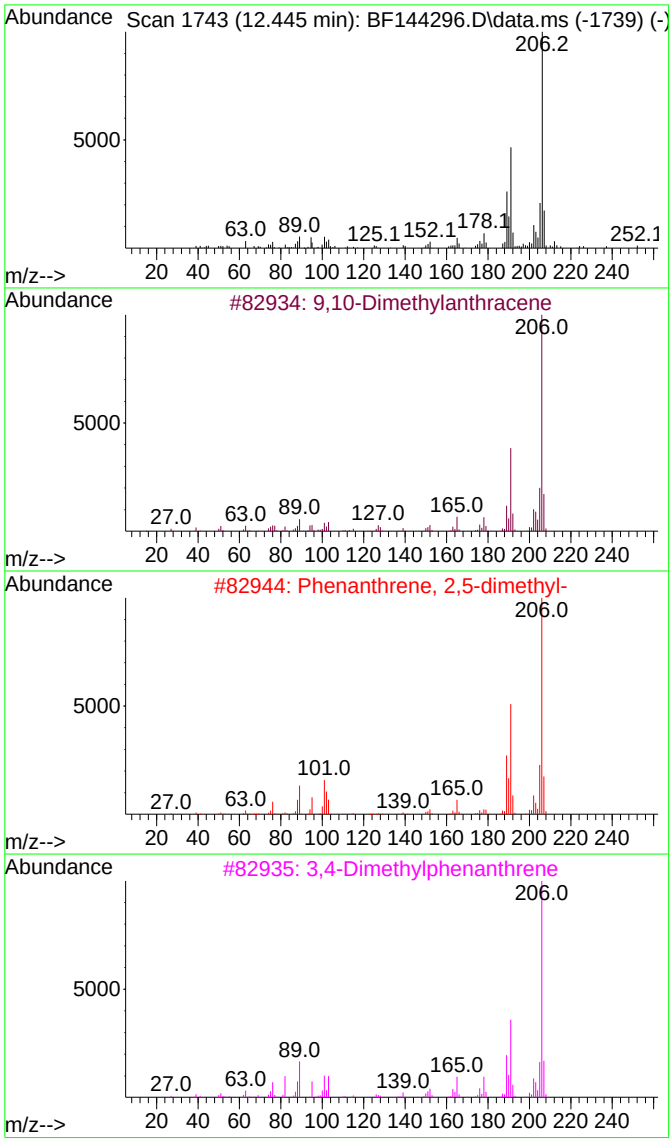
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TIC Integration Parameters: LSCINT.P

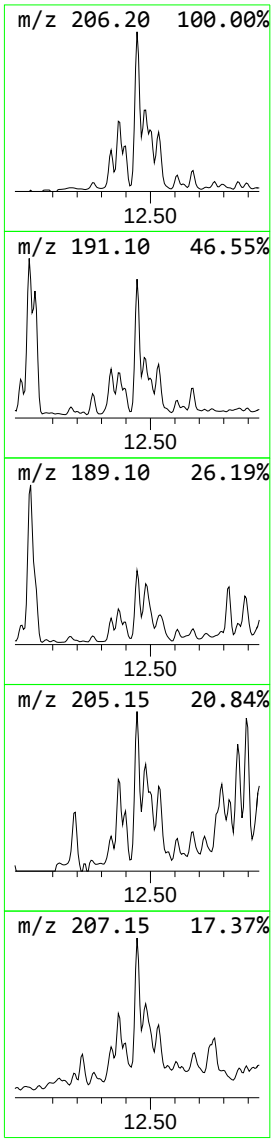
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Peak Number 9 9,10-Dimethylanthracene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.445 | 5.49 ng | 91788 | Phenanthrene-d10 | 11.392 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 95 |
| 2 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 94 |
| 3 | 3,4-Dimethylphenanthrene | 206 | C16H14 | 1000452-24-5 | 90 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 90 |
| 5 | Anthracene, 1,4-dimethyl- | 206 | C16H14 | 000781-92-0 | 87 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144296.D
Acq On : 20 Nov 2025 15:59
Operator : RC/JU
Sample : Q3662-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

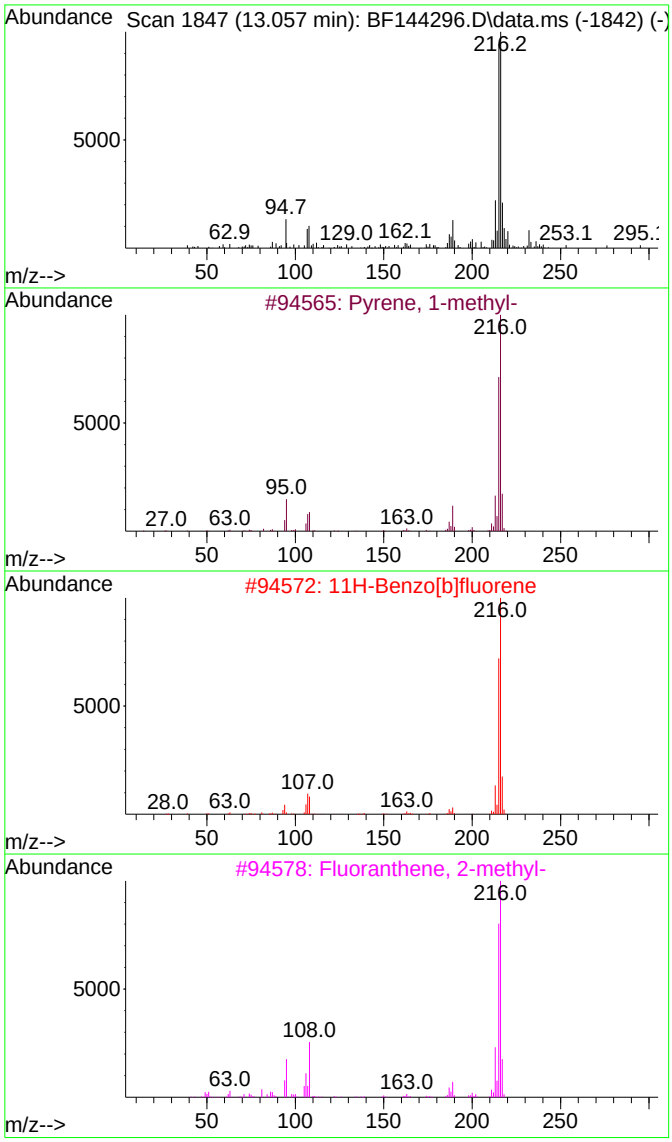
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TIC Integration Parameters: LSCINT.P

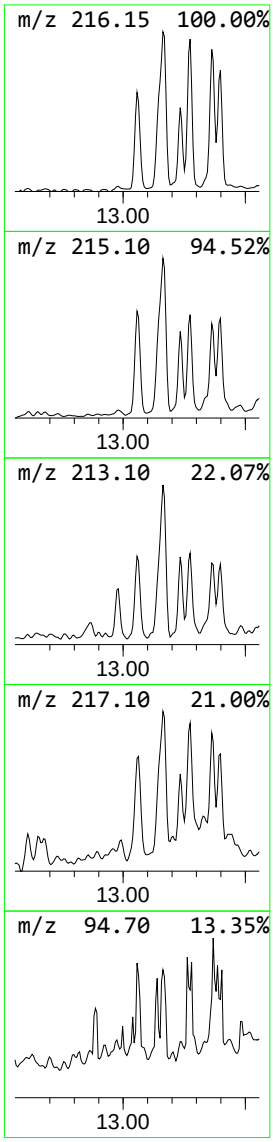
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Peak Number 13 Pyrene, 1-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.057 | 2.85 ng | 97747 | Chrysene-d12 | 14.039 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 91 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 76 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144296.D
Acq On : 20 Nov 2025 15:59
Operator : RC/JU
Sample : Q3662-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

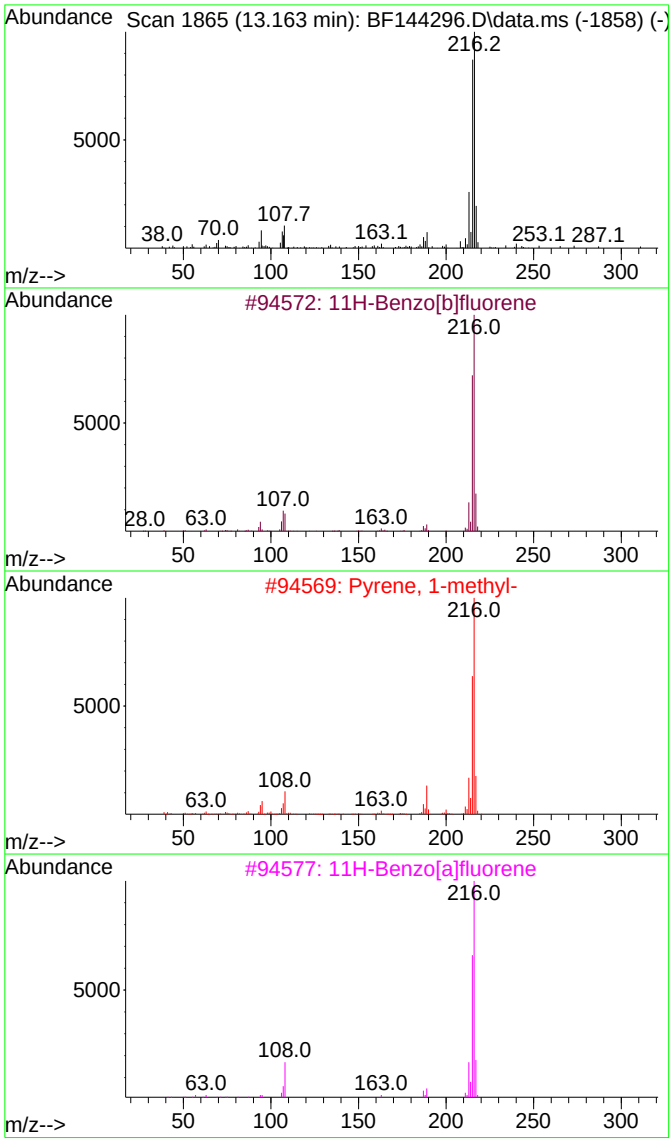
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TIC Integration Parameters: LSCINT.P

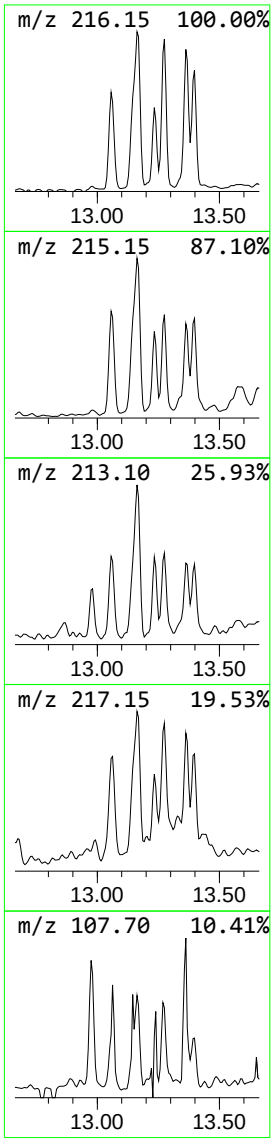
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Peak Number 14 11H-Benzo[b]fluorene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.163 | 4.09 ng | 140268 | Chrysene-d12 | 14.039 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 91 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 90 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 90 |
| 5 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 72 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144296.D
Acq On : 20 Nov 2025 15:59
Operator : RC/JU
Sample : Q3662-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

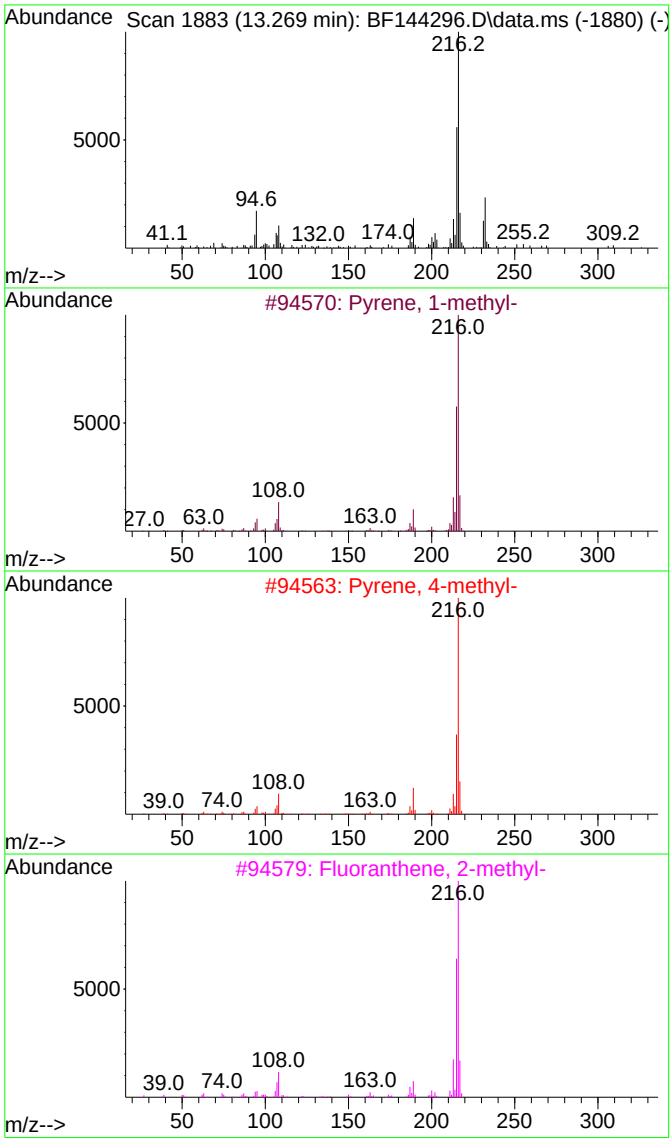
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TIC Integration Parameters: LSCINT.P

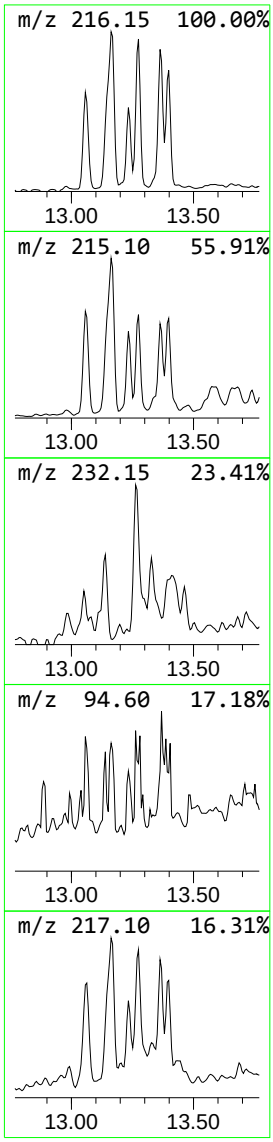
**********

Peak Number 15 Pyrene, 4-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.269 | 2.71 ng | 93061 | Chrysene-d12 | 14.039 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 2 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 93 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 92 |
| 4 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 89 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 76 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144296.D
Acq On : 20 Nov 2025 15:59
Operator : RC/JU
Sample : Q3662-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

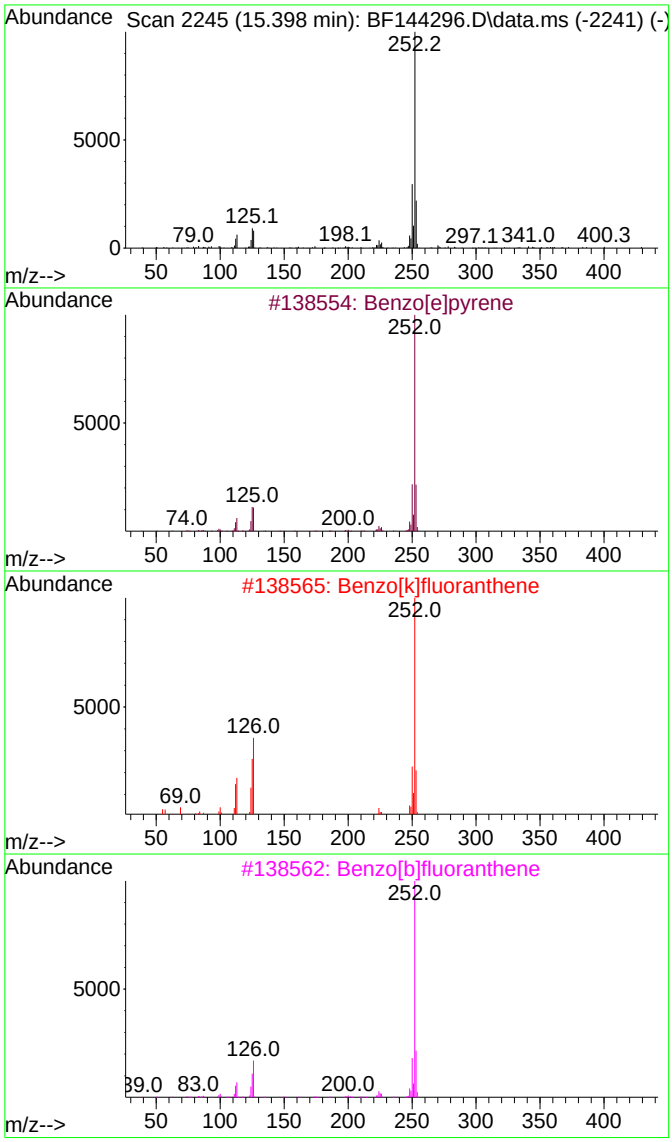
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TIC Integration Parameters: LSCINT.P

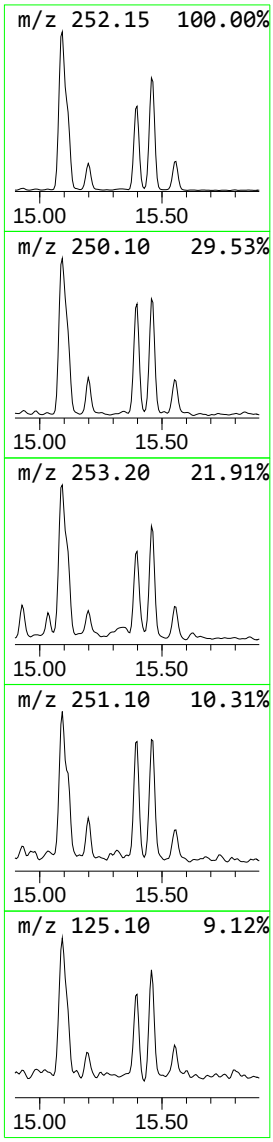
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Peak Number 17 Benzo[e]pyrene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.398 | 12.32 ng | 145272 | Perylene-d12 | 15.521 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 96 |
| 2 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 94 |
| 3 | Benzo[b]fluoranthene | 252 | C20H12 | 000205-99-2 | 93 |
| 4 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 91 |
| 5 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144296.D
Acq On : 20 Nov 2025 15:59
Operator : RC/JU
Sample : Q3662-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B1-0.0-1.0-20251117

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.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 | 10.610 | 5.0 | ng | 70791 | 3 | 9.898 | 280262 | 20.0 |
| Phenanthrene, 2... | 11.916 | 21.2 | ng | 354292 | 4 | 11.392 | 334681 | 20.0 |
| 9,10-Anthracene... | 12.222 | 3.1 | ng | 51411 | 4 | 11.392 | 334681 | 20.0 |
| 3,4-Dimethylphe... | 12.339 | 2.2 | ng | 37119 | 4 | 11.392 | 334681 | 20.0 |
| 9,10-Dimethylan... | 12.445 | 5.5 | ng | 91788 | 4 | 11.392 | 334681 | 20.0 |
| Pyrene, 1-methyl- | 13.057 | 2.9 | ng | 97747 | 5 | 14.039 | 685615 | 20.0 |
| 11H-Benzo[b]flu... | 13.163 | 4.1 | ng | 140268 | 5 | 14.039 | 685615 | 20.0 |
| Pyrene, 4-methyl- | 13.269 | 2.7 | ng | 93061 | 5 | 14.039 | 685615 | 20.0 |
| Benzo[e]pyrene | 15.398 | 12.3 | ng | 145272 | 6 | 15.521 | 235765 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144291.D
Acq On : 20 Nov 2025 13:25
Operator : RC/JU
Sample : PB170631BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB170631BL

Quant Time: Nov 20 13:44:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration

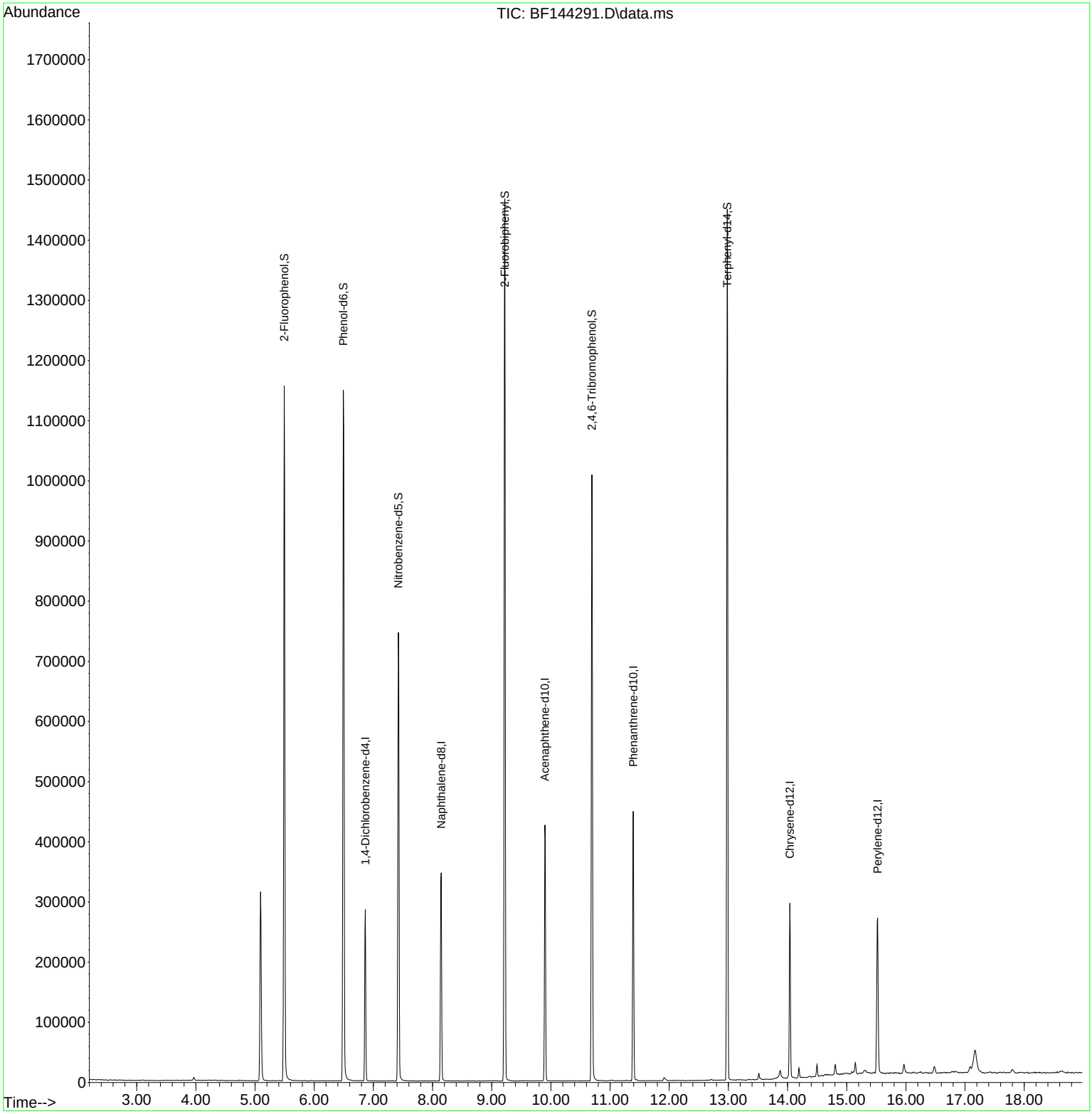
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.863 | 152 | 60075 | 20.000 | ng | -0.01 |
| 21) Naphthalene-d8 | 8.145 | 136 | 236262 | 20.000 | ng | -0.01 |
| 39) Acenaphthene-d10 | 9.898 | 164 | 137092 | 20.000 | ng | -0.02 |
| 64) Phenanthrene-d10 | 11.392 | 188 | 248386 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 14.039 | 240 | 149201 | 20.000 | ng | -0.01 |
| 86) Perylene-d12 | 15.521 | 264 | 167632 | 20.000 | ng | -0.02 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.493 | 112 | 446789 | 116.383 | ng | 0.00 |
| 7) Phenol-d6 | 6.492 | 99 | 508633 | 116.931 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.422 | 82 | 327629 | 80.090 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.692 | 330 | 208046 | 120.933 | ng | -0.01 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 713101 | 76.825 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.980 | 244 | 782498 | 83.305 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |

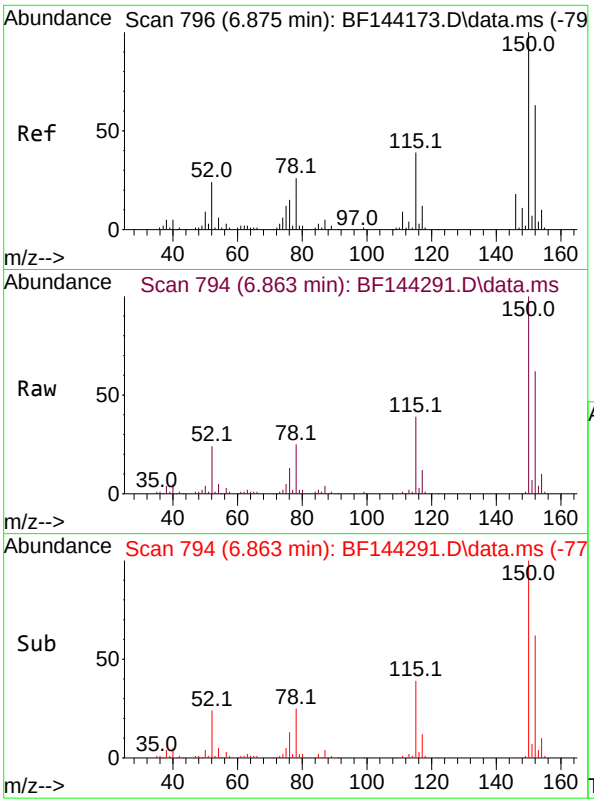
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144291.D
Acq On : 20 Nov 2025 13:25
Operator : RC/JU
Sample : PB170631BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB170631BL

Quant Time: Nov 20 13:44:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration



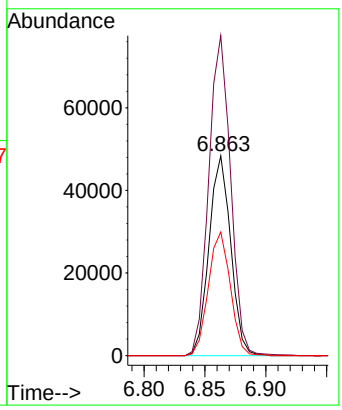


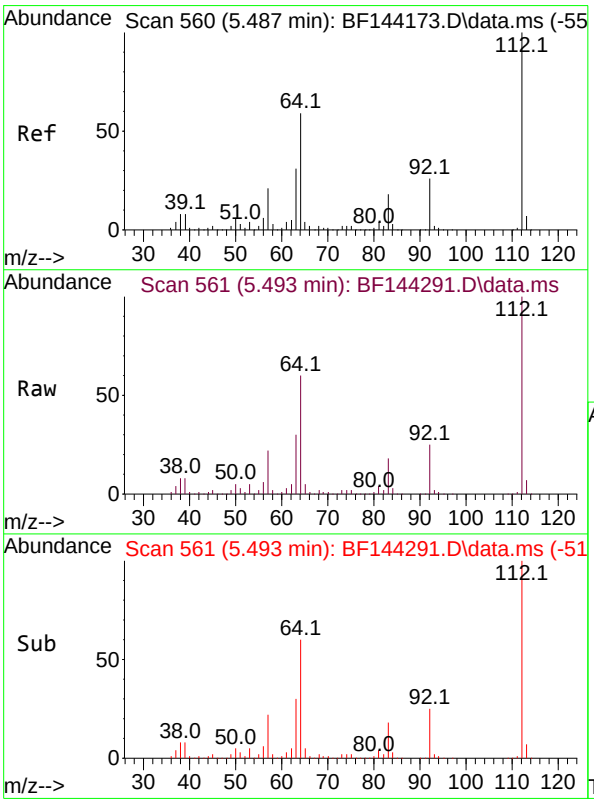

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 79
Delta R.T. -0.012 min
Lab File: BF144291.D
Acq: 20 Nov 2025 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
PB170631BL

Tgt Ion:152 Resp: 60075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 160.2 | 127.4 | 191.0 |
| 115 | 61.9 | 49.5 | 74.3 |

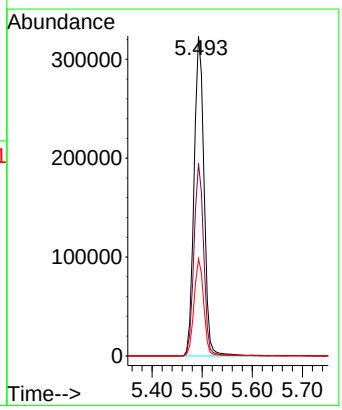


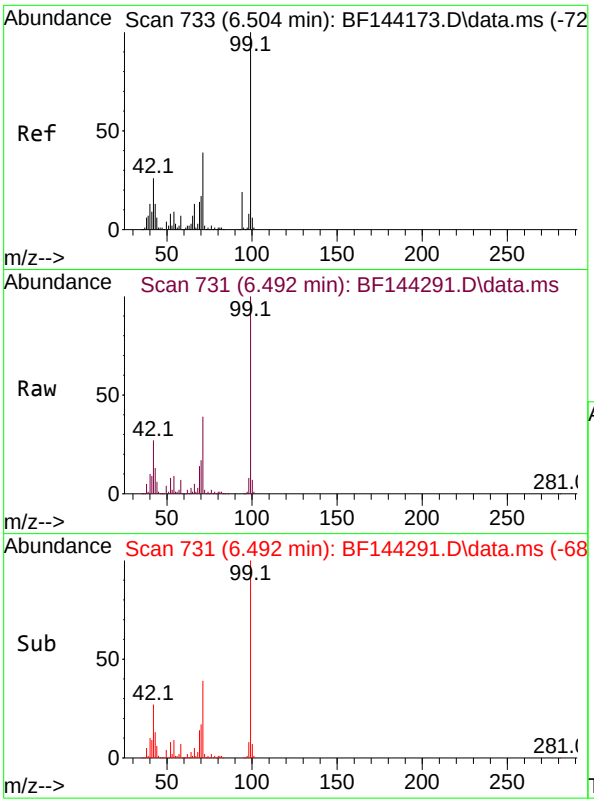




#5
2-Fluorophenol
Concen: 116.383 ng
RT: 5.493 min Scan# 561
Delta R.T. -0.000 min
Lab File: BF144291.D
Acq: 20 Nov 2025 13:25

Tgt Ion:112 Resp: 446789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 60.1 | 47.2 | 70.8 |
| 63 | 30.3 | 24.4 | 36.6 |



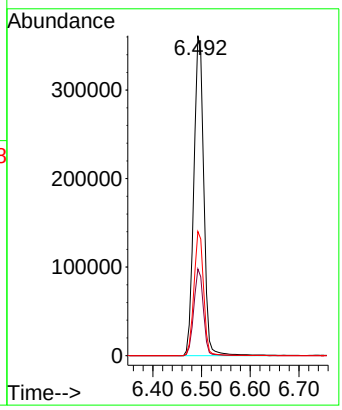


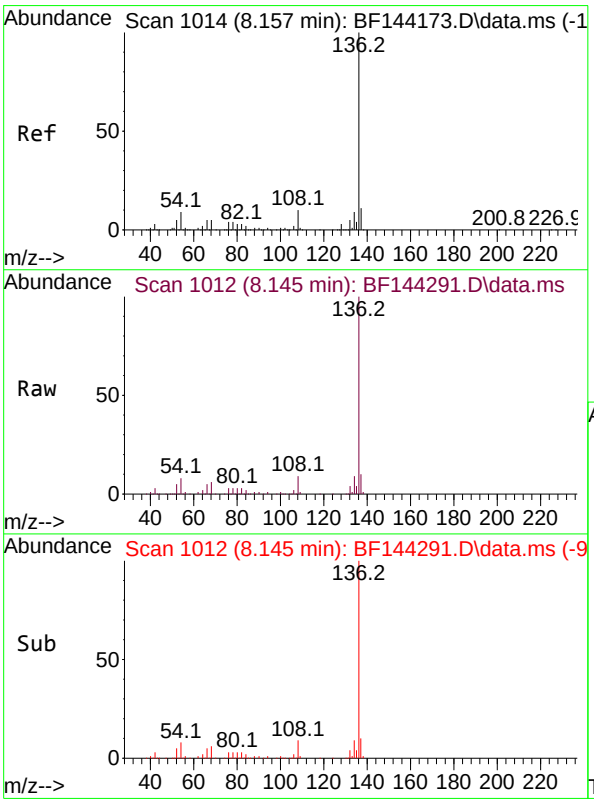

#7
Phenol-d6
Concen: 116.931 ng
RT: 6.492 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF144291.D
Acq: 20 Nov 2025 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
PB170631BL

Tgt Ion: 99 Resp: 508633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 27.1 | 20.9 | 31.3 |
| 71 | 38.8 | 31.4 | 47.2 |

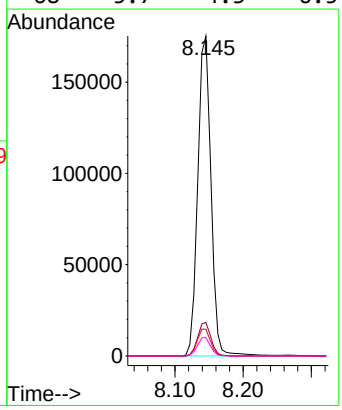


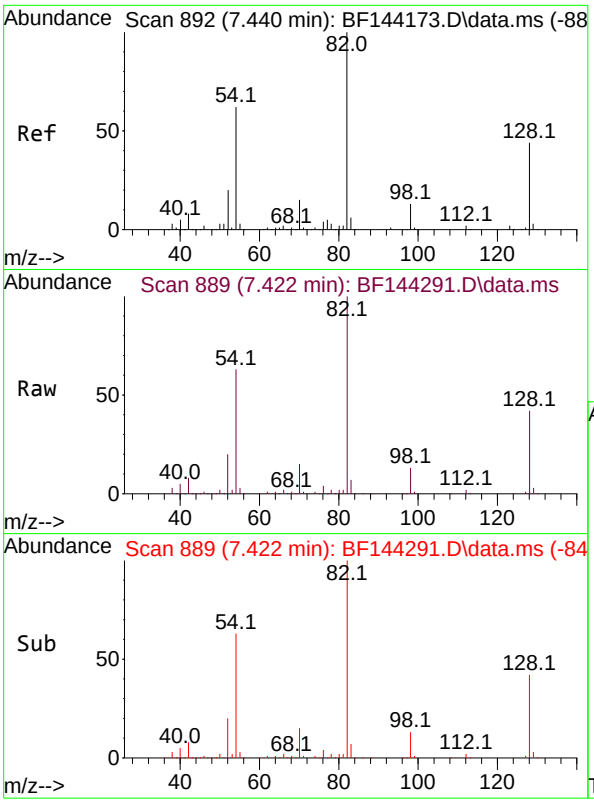




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1012
Delta R.T. -0.012 min
Lab File: BF144291.D
Acq: 20 Nov 2025 13:25

Tgt Ion:136 Resp: 236262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.5 | 8.6 | 13.0 |
| 54 | 8.3 | 7.0 | 10.6 |
| 68 | 5.7 | 4.3 | 6.5 |



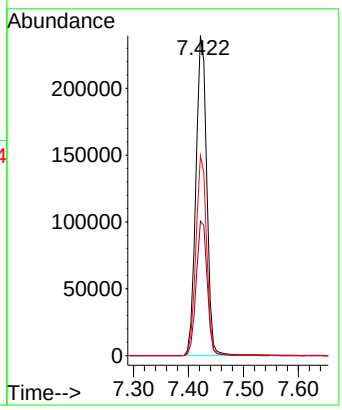


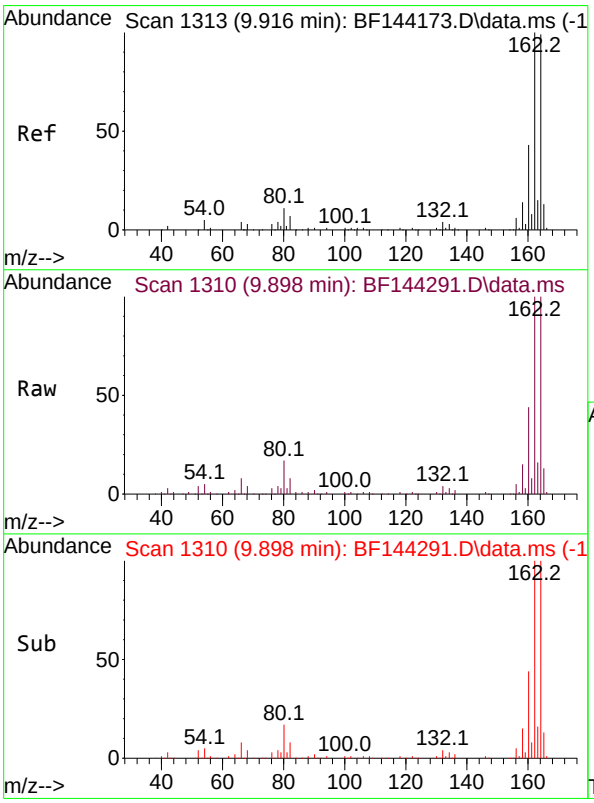

#23
Nitrobenzene-d5
Concen: 80.090 ng
RT: 7.422 min Scan# 88
Delta R.T. -0.012 min
Lab File: BF144291.D
Acq: 20 Nov 2025 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
PB170631BL

Tgt Ion: 82 Resp: 327629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.0 | 34.7 | 52.1 |
| 54 | 62.5 | 49.5 | 74.3 |

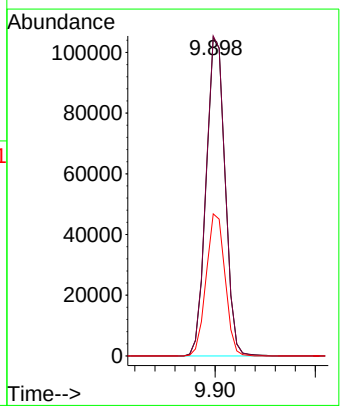


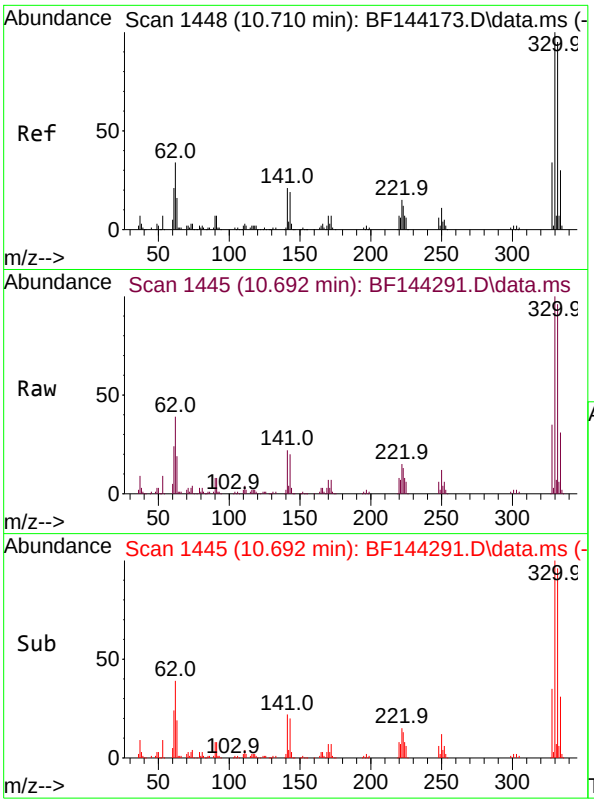




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 1310
Delta R.T. -0.018 min
Lab File: BF144291.D
Acq: 20 Nov 2025 13:25

Tgt Ion:164 Resp: 137092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.4 | 81.1 | 121.7 |
| 160 | 44.5 | 34.5 | 51.7 |



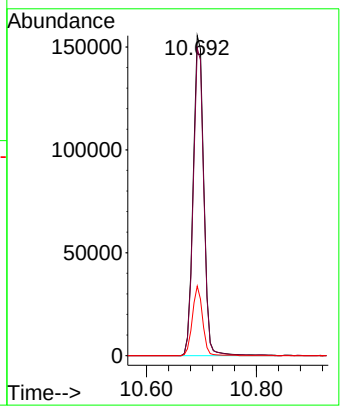


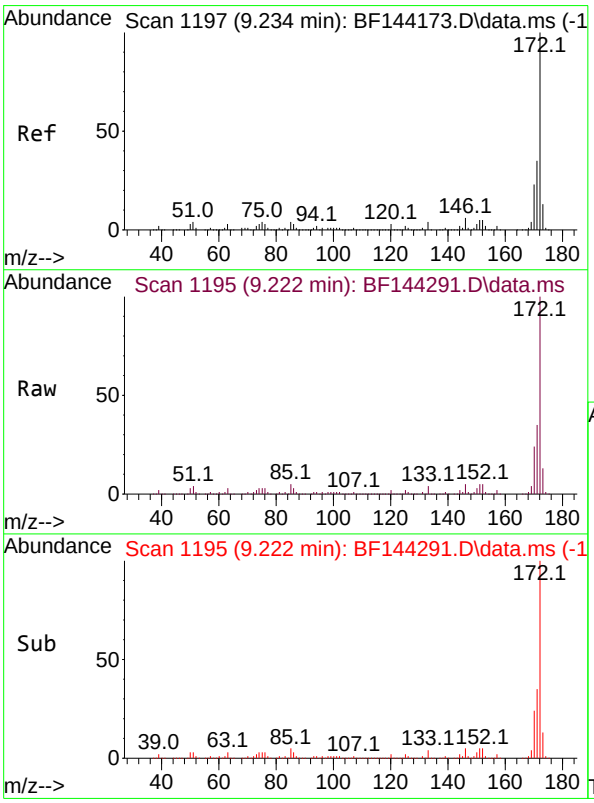

#42
2,4,6-Tribromophenol
Concen: 120.933 ng
RT: 10.692 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF144291.D
Acq: 20 Nov 2025 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
PB170631BL

Tgt Ion:330 Resp: 208046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.6 | 76.7 | 115.1 |
| 141 | 20.9 | 17.8 | 26.8 |

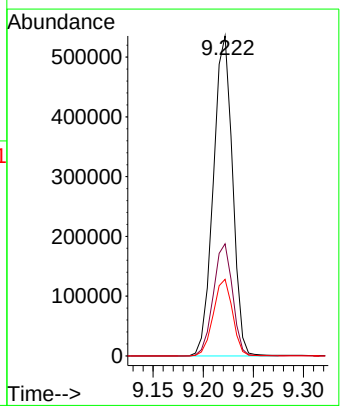


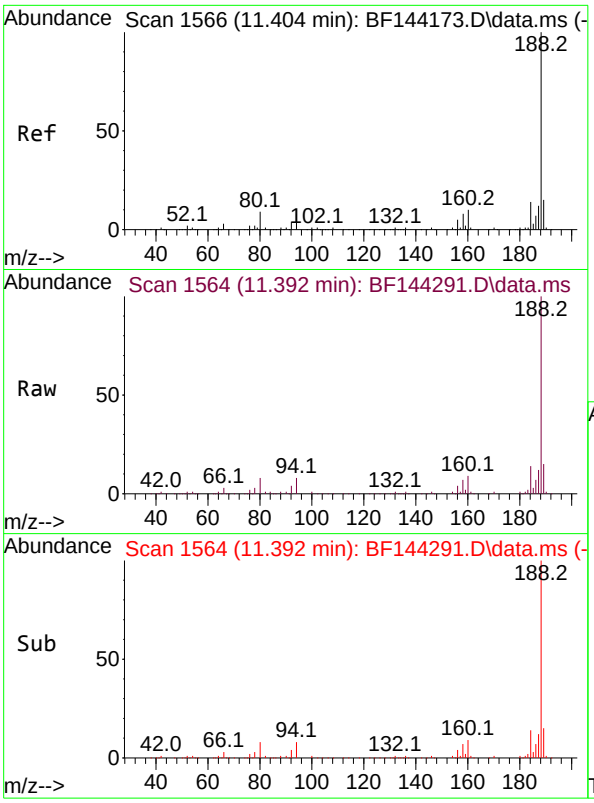




#45
2-Fluorobiphenyl
Concen: 76.825 ng
RT: 9.222 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BF144291.D
Acq: 20 Nov 2025 13:25

Tgt Ion:172 Resp: 713101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.0 | 28.1 | 42.1 |
| 170 | 23.9 | 18.6 | 28.0 |



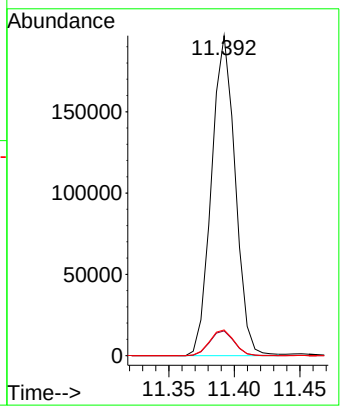


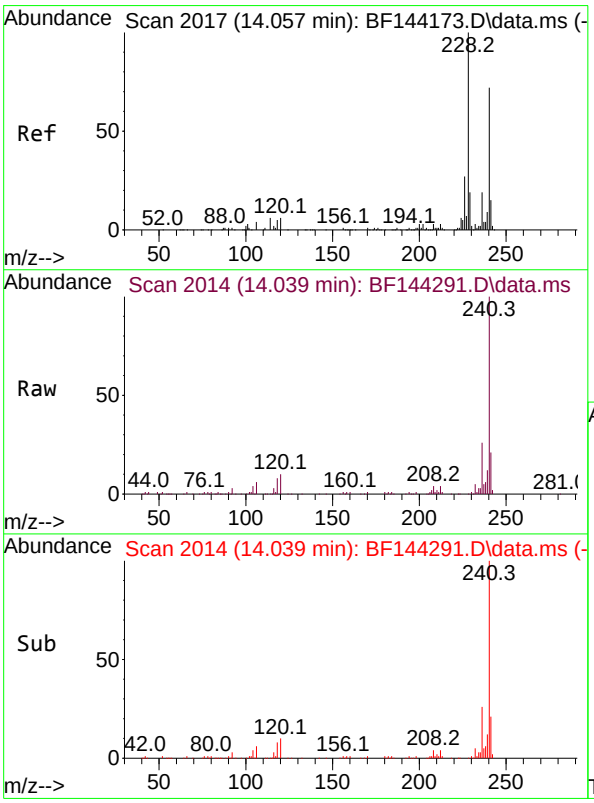

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF144291.D
Acq: 20 Nov 2025 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
PB170631BL

Tgt Ion:188 Resp: 248386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 7.7 | 6.2 | 9.2 |
| 80 | 8.0 | 6.9 | 10.3 |

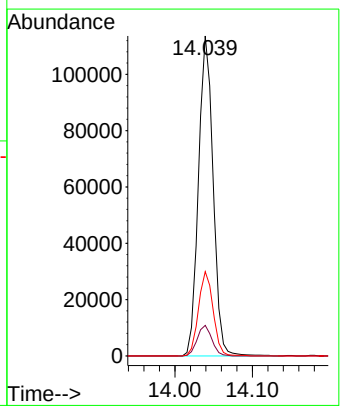


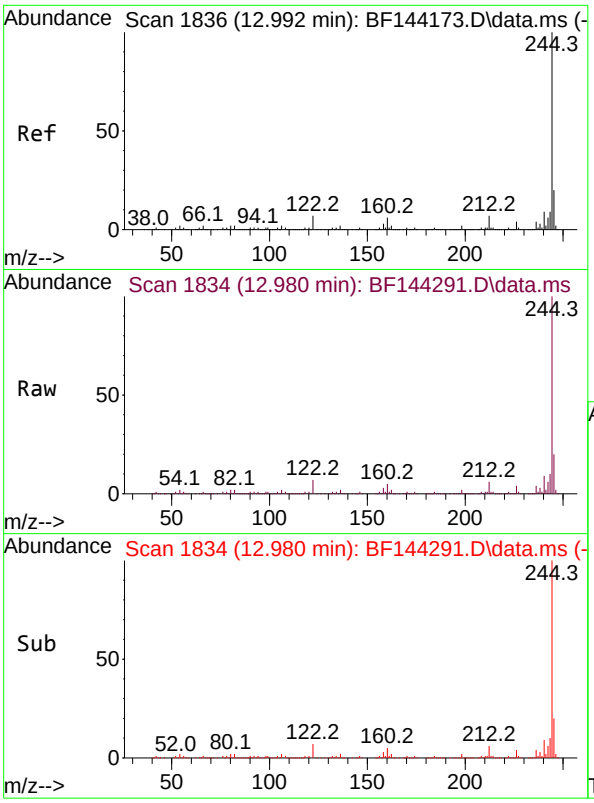




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2014
Delta R.T. -0.012 min
Lab File: BF144291.D
Acq: 20 Nov 2025 13:25

Tgt Ion:240 Resp: 149201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.5 | 6.6 | 10.0 |
| 236 | 26.3 | 21.4 | 32.2 |



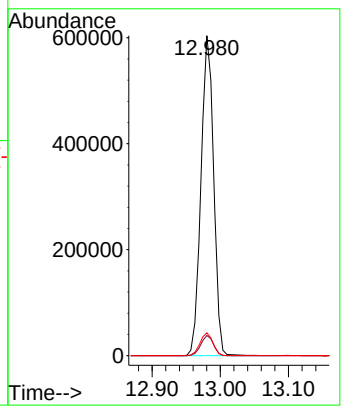


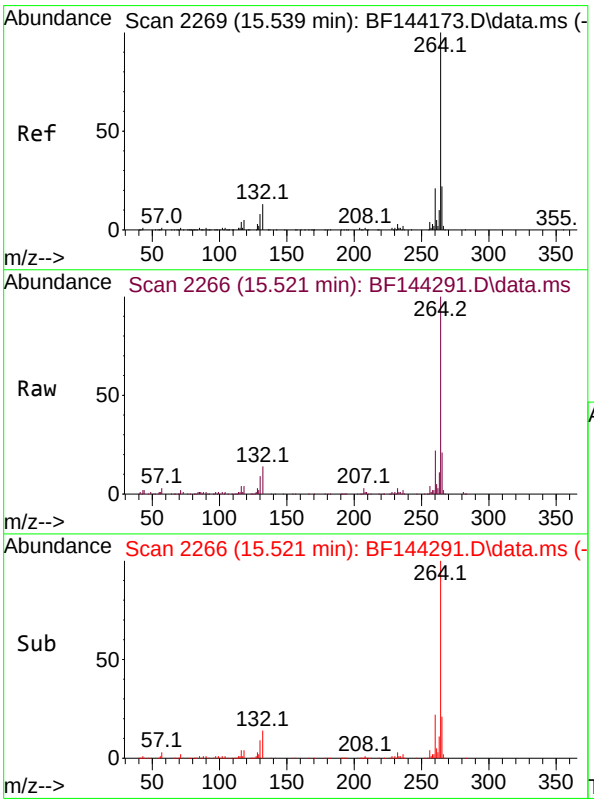

#79
Terphenyl-d14
Concen: 83.305 ng
RT: 12.980 min Scan# 18
Delta R.T. -0.012 min
Lab File: BF144291.D
Acq: 20 Nov 2025 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
PB170631BL

Tgt Ion:244 Resp: 782498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.3 | 5.3 | 7.9 |
| 122 | 7.1 | 5.6 | 8.4 |

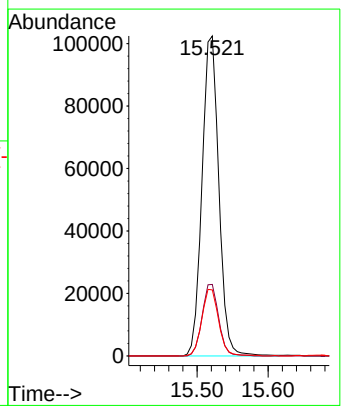



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2266
Delta R.T. -0.018 min
Lab File: BF144291.D
Acq: 20 Nov 2025 13:25

Tgt Ion:264 Resp: 167632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 22.3 | 17.1 | 25.7 |
| 265 | 20.6 | 17.4 | 26.0 |



Sample Results: **BF144291.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144291.D
Acq On : 20 Nov 2025 13:25
Operator : RC/JU
Sample : PB170631BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB170631BL

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-BF110525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF144291.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.093 | 487 | 493 | 505 | rBV | 313792 | 495170 | 25.43% | 3.862% |
| 2 | 5.493 | 555 | 561 | 577 | rBV | 1155557 | 1561487 | 80.20% | 12.178% |
| 3 | 6.492 | 725 | 731 | 743 | rBV | 1148039 | 1584505 | 81.38% | 12.357% |
| 4 | 6.863 | 789 | 794 | 801 | rBV | 284748 | 353774 | 18.17% | 2.759% |
| 5 | 7.422 | 883 | 889 | 904 | rBV | 745158 | 1013119 | 52.03% | 7.901% |
| 6 | 8.145 | 1006 | 1012 | 1025 | rVB | 345965 | 461641 | 23.71% | 3.600% |
| 7 | 9.222 | 1188 | 1195 | 1200 | rBV | 1466441 | 1947046 | 100.00% | 15.185% |
| 8 | 9.898 | 1305 | 1310 | 1321 | rVB | 425348 | 550534 | 28.28% | 4.293% |
| 9 | 10.692 | 1440 | 1445 | 1461 | rBV | 1007719 | 1315931 | 67.59% | 10.263% |
| 10 | 11.392 | 1559 | 1564 | 1571 | rBV | 447961 | 566119 | 29.08% | 4.415% |
| 11 | 12.980 | 1828 | 1834 | 1839 | rBV | 1448144 | 1865637 | 95.82% | 14.550% |
| 12 | 13.874 | 1974 | 1986 | 1997 | rBV3 | 12943 | 30365 | 1.56% | 0.237% |
| 13 | 14.039 | 2009 | 2014 | 2023 | rVB | 289922 | 373017 | 19.16% | 2.909% |
| 14 | 14.192 | 2035 | 2040 | 2044 | rBV | 15747 | 20453 | 1.05% | 0.160% |
| 15 | 14.498 | 2087 | 2092 | 2097 | rBV | 19830 | 25955 | 1.33% | 0.202% |
| 16 | 14.804 | 2140 | 2144 | 2150 | rBV | 16068 | 23799 | 1.22% | 0.186% |
| 17 | 15.145 | 2198 | 2202 | 2209 | rVB | 18529 | 27384 | 1.41% | 0.214% |
| 18 | 15.521 | 2259 | 2266 | 2277 | rBV | 258473 | 425639 | 21.86% | 3.319% |
| 19 | 15.968 | 2337 | 2342 | 2347 | rBV3 | 13922 | 25268 | 1.30% | 0.197% |
| 20 | 16.480 | 2424 | 2429 | 2436 | rVB5 | 11276 | 24291 | 1.25% | 0.189% |
| 21 | 17.168 | 2536 | 2546 | 2559 | rVB3 | 34452 | 131374 | 6.75% | 1.025% |

Sum of corrected areas: 12822508

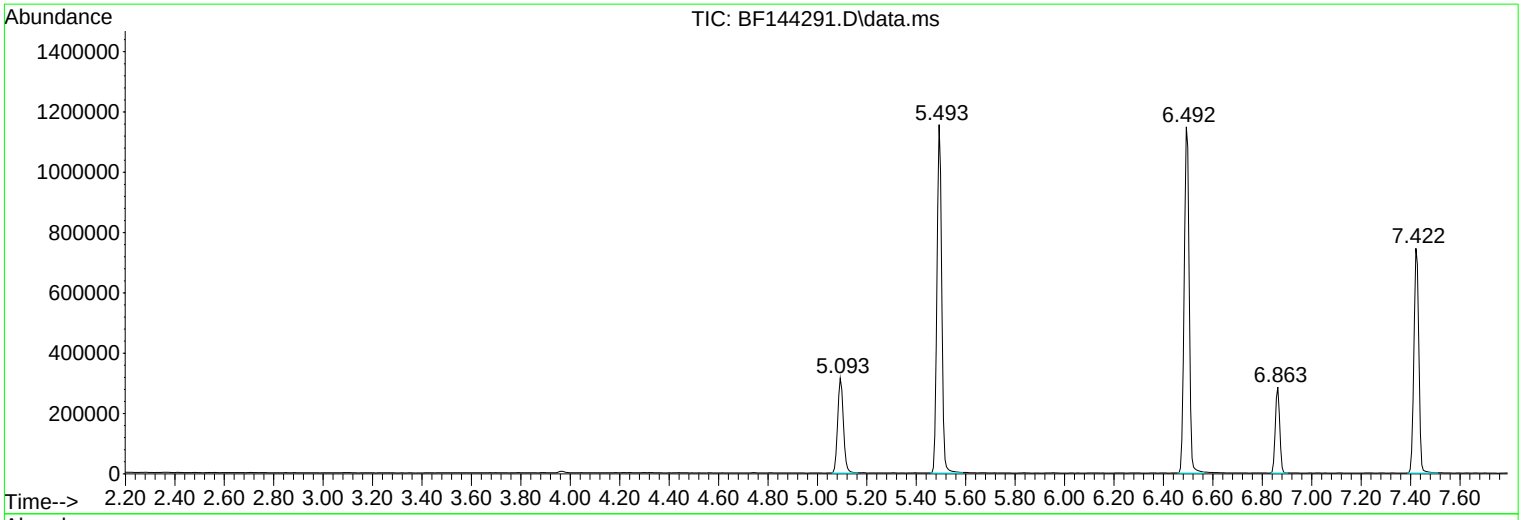
Sample Results: **BF144291.D**

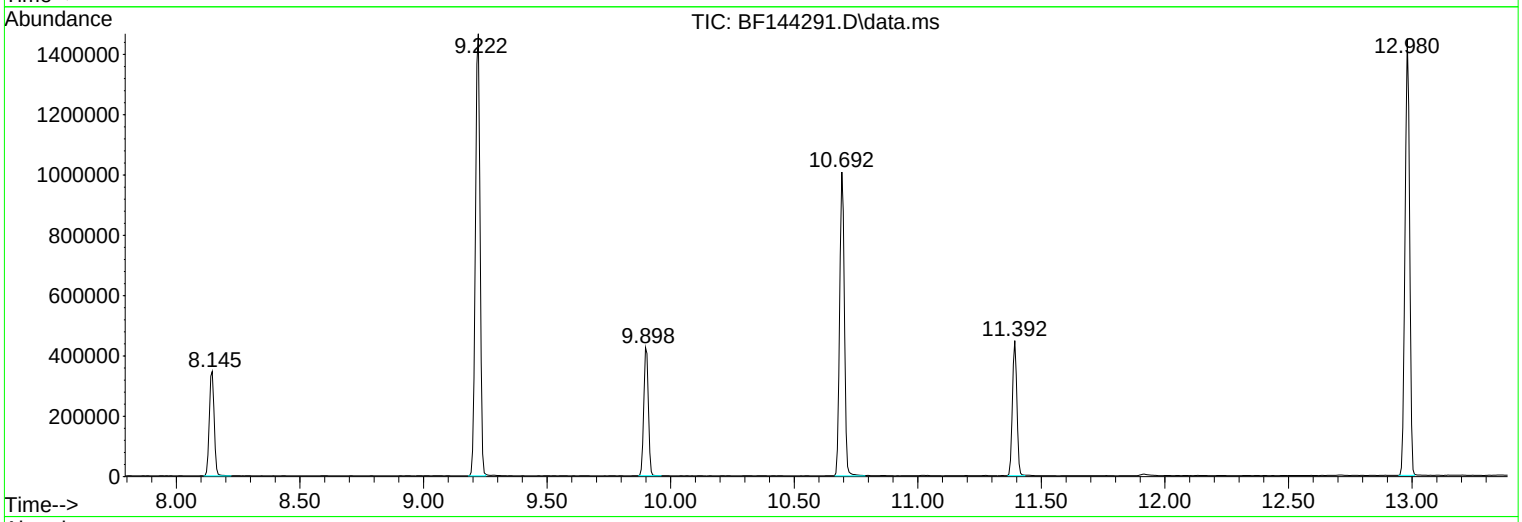
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144291.D
Acq On : 20 Nov 2025 13:25
Operator : RC/JU
Sample : PB170631BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

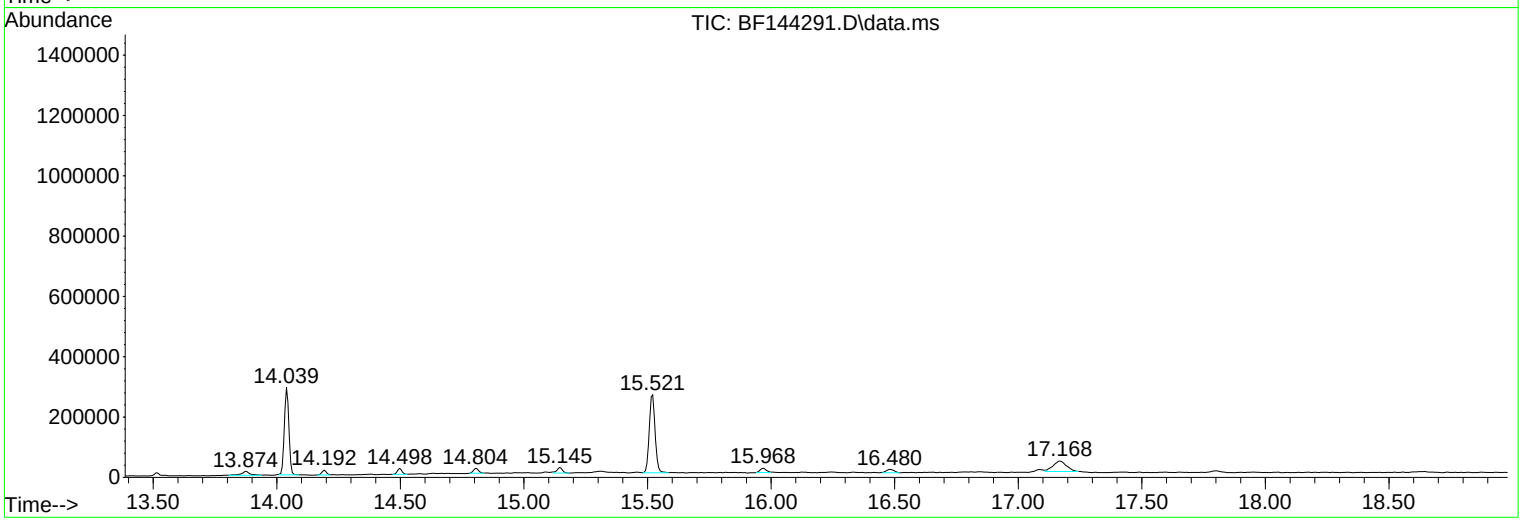
**Instrument :**
BNA_F
**ClientSampleId :**
PB170631BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.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\BF112025\
Data File : BF144291.D
Acq On : 20 Nov 2025 13:25
Operator : RC/JU
Sample : PB170631BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB170631BL

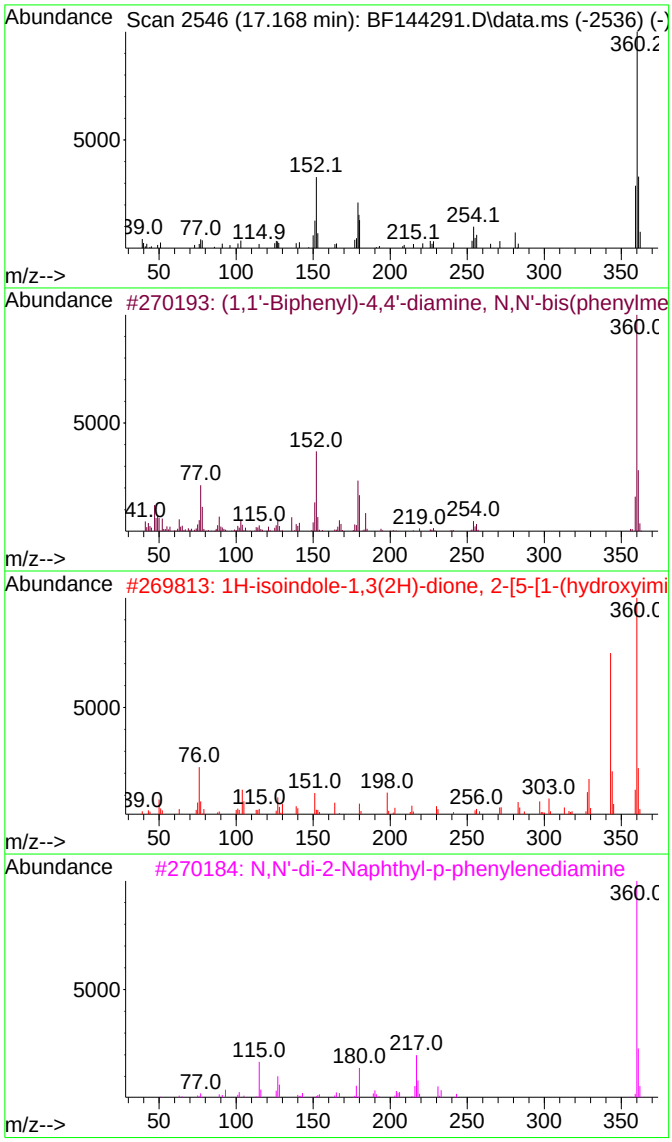
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

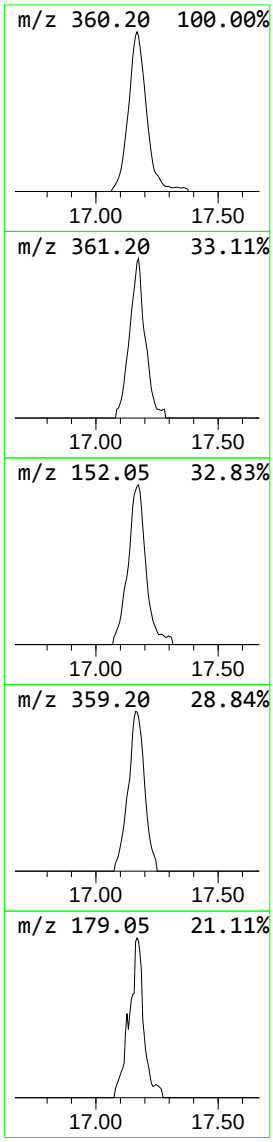
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 (1,1'-Biphenyl)-4,4'-diamin... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.168 | 6.17 ng | 131374 | Perylene-d12 | 15.521 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (1,1'-Biphenyl)-4,4'-diamine, N,... | 360 | C26H20N2 | 006311-48-4 | 87 |
| 2 | 1H-isoindole-1,3(2H)-dione, 2-[5... | 360 | C21H16N2O4 | 1000398-48-8 | 47 |
| 3 | N,N'-di-2-Naphthyl-p-phenylenedi... | 360 | C26H20N2 | 000093-46-9 | 38 |
| 4 | 3-[4-(Methoxymethyl)phenyl]-2-(2... | 360 | C23H20O2S | 1000458-33-8 | 38 |
| 5 | 1,10-Phenanthroline, 2,9-dimethy... | 360 | C26H20N2 | 004733-39-5 | 37 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144291.D
Acq On : 20 Nov 2025 13:25
Operator : RC/JU
Sample : PB170631BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB170631BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.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 |
| (1,1'-Biphenyl)... | 17.168 | 6.2 | ng | 131374 | 6 | 15.521 | 425639 | 20.0 |

Sample Results: **BF144292.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144292.D
Acq On : 20 Nov 2025 13:54
Operator : RC/JU
Sample : PB170631BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 20 14:18:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB170631BS

**Manual Integrations APPROVED**
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.863 | 152 | 64956 | 20.000 | ng | | -0.01 |
| 21) Naphthalene-d8 | 8.145 | 136 | 256491 | 20.000 | ng | | -0.01 |
| 39) Acenaphthene-d10 | 9.904 | 164 | 147675 | 20.000 | ng | | -0.01 |
| 64) Phenanthrene-d10 | 11.392 | 188 | 246268 | 20.000 | ng | | -0.01 |
| 76) Chrysene-d12 | 14.045 | 240 | 145057 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.521 | 264 | 168439 | 20.000 | ng | | -0.02 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.492 | 112 | 470733 | 113.406 | ng | | 0.00 |
| 7) Phenol-d6 | 6.498 | 99 | 545318 | 115.944 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.428 | 82 | 350945 | 79.024 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.698 | 330 | 217640 | 117.443 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 759358 | 75.945 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.980 | 244 | 767648 | 84.059 | ng | | -0.01 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.687 | 88 | 66630 | 38.827 | ng | | 100 |
| 3) Pyridine | 3.457 | 79 | 172131 | 35.953 | ng | | 98 |
| 4) n-Nitrosodimethylamine | 3.398 | 42 | 107324 | 42.915 | ng | | 93 |
| 6) Aniline | 6.528 | 93 | 209370 | 31.244 | ng | # | 86 |
| 8) 2-Chlorophenol | 6.651 | 128 | 173619 | 42.651 | ng | | 99 |
| 9) Benzaldehyde | 6.416 | 77 | 65954 | 24.834 | ng | | 99 |
| 10) Phenol | 6.516 | 94 | 233571 | 40.646 | ng | | 86 |
| 11) bis(2-Chloroethyl)ether | 6.598 | 93 | 183970 | 43.936 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.804 | 146 | 206809 | 41.171 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.881 | 146 | 213099 | 42.346 | ng | | 98 |
| 14) 1,2-Dichlorobenzene | 7.034 | 146 | 203406 | 42.170 | ng | | 99 |
| 15) Benzyl Alcohol | 7.010 | 79 | 168811 | 45.328 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.139 | 45 | 339051 | 43.971 | ng | | 99 |
| 17) 2-Methylphenol | 7.122 | 107 | 141706 | 43.758 | ng | | 95 |
| 18) Hexachloroethane | 7.375 | 117 | 68501 | 40.972 | ng | | 99 |
| 19) n-Nitroso-di-n-propyla... | 7.275 | 70 | 130426 | 42.125 | ng | | 93 |
| 20) 3+4-Methylphenols | 7.275 | 107 | 164001 | 42.960 | ng | | 93 |
| 22) Acetophenone | 7.275 | 105 | 250774 | 45.576 | ng | | 97 |
| 24) Nitrobenzene | 7.445 | 77 | 199168 | 41.305 | ng | | 99 |
| 25) Isophorone | 7.686 | 82 | 373814 | 44.500 | ng | | 99 |
| 26) 2-Nitrophenol | 7.763 | 139 | 103624 | 43.413 | ng | | 97 |
| 27) 2,4-Dimethylphenol | 7.798 | 122 | 168863 | 47.200 | ng | | 97 |
| 28) bis(2-Chloroethoxy)met... | 7.892 | 93 | 230384 | 43.919 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.004 | 162 | 174696 | 42.367 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.086 | 180 | 179426 | 42.376 | ng | | 98 |
| 31) Naphthalene | 8.169 | 128 | 500681 | 41.036 | ng | | 99 |
| 32) Benzoic acid | 7.939 | 122 | 140381 | 53.531 | ng | | 93 |
| 33) 4-Chloroaniline | 8.216 | 127 | 117376 | 26.377 | ng | | 99 |
| 34) Hexachlorobutadiene | 8.281 | 225 | 126366 | 39.600 | ng | | 99 |
| 35) Caprolactam | 8.592 | 113 | 54749m | 48.464 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.704 | 107 | 164164 | 44.423 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.857 | 142 | 316647 | 38.817 | ng | | 100 |
| 38) 1-Methylnaphthalene | 8.957 | 142 | 317678 | 40.360 | ng | | 98 |
| 40) 1,2,4,5-Tetrachloroben... | 9.028 | 216 | 206268 | 42.619 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 9.010 | 237 | 139695 | 75.578 | ng | | 97 |
| 43) 2,4,6-Trichlorophenol | 9.139 | 196 | 138394 | 42.013 | ng | | 98 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144292.D
Acq On : 20 Nov 2025 13:54
Operator : RC/JU
Sample : PB170631BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 20 14:18:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB170631BS

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.186 | 196 | 147482 | 41.542 | ng | 98 |
| 46) 1,1'-Biphenyl | 9.322 | 154 | 468833 | 45.482 | ng | 99 |
| 47) 2-Chloronaphthalene | 9.351 | 162 | 356498 | 40.543 | ng | 99 |
| 48) 2-Nitroaniline | 9.451 | 65 | 111786 | 44.061 | ng | 94 |
| 49) Acenaphthylene | 9.769 | 152 | 548624 | 45.786 | ng | 99 |
| 50) Dimethylphthalate | 9.627 | 163 | 431866 | 44.144 | ng | 99 |
| 51) 2,6-Dinitrotoluene | 9.692 | 165 | 91017 | 45.958 | ng | 97 |
| 52) Acenaphthene | 9.939 | 154 | 309875 | 38.672 | ng | 99 |
| 53) 3-Nitroaniline | 9.863 | 138 | 71538 | 33.044 | ng | 96 |
| 54) 2,4-Dinitrophenol | 9.975 | 184 | 107086 | 89.545 | ng | 98 |
| 55) Dibenzofuran | 10.110 | 168 | 457873 | 40.800 | ng | 99 |
| 56) 4-Nitrophenol | 10.033 | 139 | 125541 | 80.166 | ng | 98 |
| 57) 2,4-Dinitrotoluene | 10.098 | 165 | 120677 | 45.518 | ng | 94 |
| 58) Fluorene | 10.457 | 166 | 359964 | 42.188 | ng | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.233 | 232 | 112290 | 44.705 | ng | 97 |
| 60) Diethylphthalate | 10.327 | 149 | 402192 | 44.596 | ng | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.445 | 204 | 200437 | 41.240 | ng | 98 |
| 62) 4-Nitroaniline | 10.480 | 138 | 89447 | 43.385 | ng | 96 |
| 63) Azobenzene | 10.604 | 77 | 371851 | 44.303 | ng | 99 |
| 65) 4,6-Dinitro-2-methylph... | 10.510 | 198 | 74303 | 44.413 | ng | 99 |
| 66) n-Nitrosodiphenylamine | 10.563 | 169 | 358438 | 45.254 | ng | 99 |
| 67) 4-Bromophenyl-phenylether | 10.933 | 248 | 133783 | 42.560 | ng | 97 |
| 68) Hexachlorobenzene | 11.004 | 284 | 156941 | 42.388 | ng | 97 |
| 69) Atrazine | 11.092 | 200 | 121432 | 48.208 | ng | 97 |
| 70) Pentachlorophenol | 11.204 | 266 | 163403 | 88.628 | ng | 98 |
| 71) Phenanthrene | 11.421 | 178 | 533588 | 43.518 | ng | 99 |
| 72) Anthracene | 11.474 | 178 | 528976 | 42.428 | ng | 99 |
| 73) Carbazole | 11.627 | 167 | 454949 | 42.913 | ng | 98 |
| 74) Di-n-butylphthalate | 11.951 | 149 | 595563 | 46.469 | ng | 100 |
| 75) Fluoranthene | 12.610 | 202 | 526871 | 41.597 | ng | 100 |
| 77) Benzidine | 12.733 | 184 | 81512 | 18.997 | ng | 100 |
| 78) Pyrene | 12.839 | 202 | 517997 | 44.289 | ng | 99 |
| 80) Butylbenzylphthalate | 13.457 | 149 | 191861 | 47.331 | ng | 97 |
| 81) Benzo(a)anthracene | 14.033 | 228 | 451245 | 44.884 | ng | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.992 | 252 | 122492 | 35.545 | ng | 96 |
| 83) Chrysene | 14.068 | 228 | 414304 | 44.641 | ng | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.010 | 149 | 252215 | 45.451 | ng | 99 |
| 85) Di-n-octyl phthalate | 14.627 | 149 | 420561 | 43.927 | ng | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 17.021 | 276 | 479577 | 39.663 | ng | 98 |
| 88) Benzo(b)fluoranthene | 15.086 | 252 | 484028 | 50.545 | ng | 100 |
| 89) Benzo(k)fluoranthene | 15.121 | 252 | 429632 | 47.933 | ng | 98 |
| 90) Benzo(a)pyrene | 15.457 | 252 | 439597 | 49.760 | ng | 99 |
| 91) Dibenzo(a,h)anthracene | 17.033 | 278 | 395045 | 40.682 | ng | 98 |
| 92) Benzo(g,h,i)perylene | 17.474 | 276 | 373437 | 38.943 | ng | 99 |

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

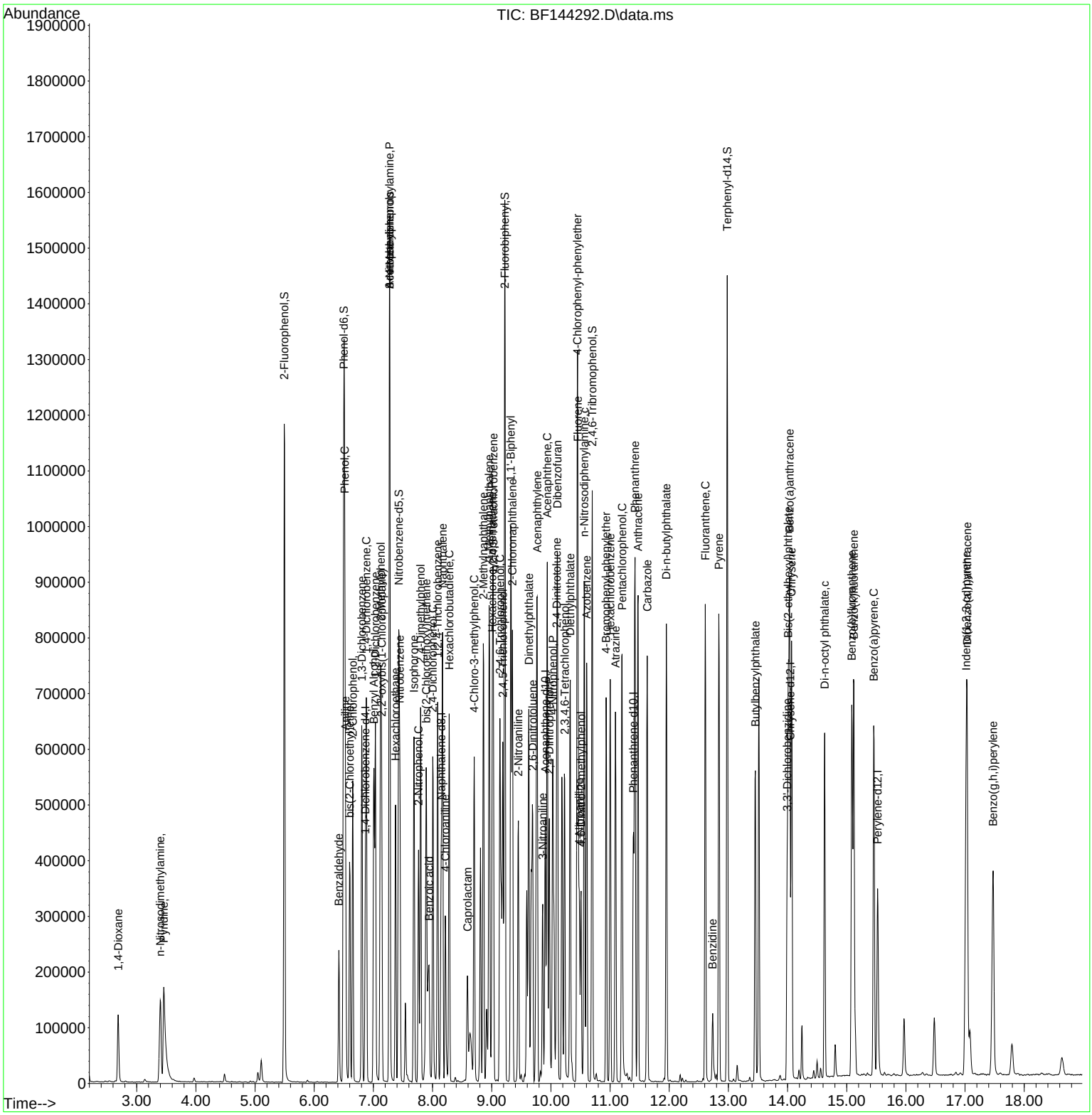
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144292.D
Acq On : 20 Nov 2025 13:54
Operator : RC/JU
Sample : PB170631BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 20 14:18:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB170631BS

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144303.D
Acq On : 20 Nov 2025 19:26
Operator : RC/JU
Sample : Q3662-02MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117MS

Quant Time: Nov 20 23:59:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.863 | 152 | 47796 | 20.000 | ng | | -0.01 |
| 21) Naphthalene-d8 | 8.145 | 136 | 175247 | 20.000 | ng | | -0.01 |
| 39) Acenaphthene-d10 | 9.904 | 164 | 88326 | 20.000 | ng | | -0.01 |
| 64) Phenanthrene-d10 | 11.392 | 188 | 153411 | 20.000 | ng | | -0.01 |
| 76) Chrysene-d12 | 14.045 | 240 | 129309 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.521 | 264 | 103273 | 20.000 | ng | | -0.02 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.493 | 112 | 215853 | 70.672 | ng | | 0.00 |
| 7) Phenol-d6 | 6.498 | 99 | 242523 | 70.078 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.428 | 82 | 148501 | 48.940 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.698 | 330 | 72543 | 65.449 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 301591 | 50.430 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.980 | 244 | 342368 | 42.056 | ng | | -0.01 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.669 | 88 | 63317 | 50.143 | ng | | 98 |
| 3) Pyridine | 3.434 | 79 | 164219 | 46.615 | ng | | 97 |
| 4) n-Nitrosodimethylamine | 3.381 | 42 | 90534 | 49.199 | ng | | 91 |
| 6) Aniline | 6.528 | 93 | 67950 | 13.781 | ng | # | 85 |
| 8) 2-Chlorophenol | 6.651 | 128 | 135084 | 45.098 | ng | | 98 |
| 9) Benzaldehyde | 6.416 | 77 | 73252 | 37.484 | ng | | 98 |
| 10) Phenol | 6.510 | 94 | 184062 | 43.531 | ng | | 96 |
| 11) bis(2-Chloroethyl)ether | 6.598 | 93 | 144683 | 46.959 | ng | | 98 |
| 12) 1,3-Dichlorobenzene | 6.804 | 146 | 171695 | 46.453 | ng | | 98 |
| 13) 1,4-Dichlorobenzene | 6.881 | 146 | 172341 | 46.542 | ng | | 98 |
| 14) 1,2-Dichlorobenzene | 7.034 | 146 | 165526 | 46.637 | ng | | 98 |
| 15) Benzyl Alcohol | 7.004 | 79 | 126922 | 46.316 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.139 | 45 | 260222 | 45.864 | ng | | 99 |
| 17) 2-Methylphenol | 7.122 | 107 | 107301 | 45.030 | ng | | 98 |
| 18) Hexachloroethane | 7.375 | 117 | 52802 | 42.920 | ng | | 97 |
| 19) n-Nitroso-di-n-propyla... | 7.275 | 70 | 102677 | 45.068 | ng | | 98 |
| 20) 3+4-Methylphenols | 7.275 | 107 | 125726 | 44.758 | ng | # | 89 |
| 22) Acetophenone | 7.275 | 105 | 178429 | 47.462 | ng | | 97 |
| 24) Nitrobenzene | 7.445 | 77 | 151066 | 45.853 | ng | | 99 |
| 25) Isophorone | 7.686 | 82 | 267312 | 46.574 | ng | | 99 |
| 26) 2-Nitrophenol | 7.763 | 139 | 63205 | 38.755 | ng | | 97 |
| 27) 2,4-Dimethylphenol | 7.798 | 122 | 122563 | 50.140 | ng | | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.892 | 93 | 167606 | 46.764 | ng | | 97 |
| 29) 2,4-Dichlorophenol | 8.010 | 162 | 120659 | 42.827 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.086 | 180 | 133419 | 46.118 | ng | | 96 |
| 31) Naphthalene | 8.169 | 128 | 374098 | 44.876 | ng | | 99 |
| 32) Benzoic acid | 7.910 | 122 | 60596 | 33.819 | ng | | 96 |
| 33) 4-Chloroaniline | 8.222 | 127 | 34485 | 11.342 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.281 | 225 | 91710 | 42.063 | ng | | 97 |
| 35) Caprolactam | 8.586 | 113 | 34548 | 44.759 | ng | | 93 |
| 36) 4-Chloro-3-methylphenol | 8.704 | 107 | 104964 | 41.571 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.857 | 142 | 224064 | 40.201 | ng | | 98 |
| 38) 1-Methylnaphthalene | 8.957 | 142 | 220613 | 41.022 | ng | | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.028 | 216 | 134695 | 46.531 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 9.010 | 237 | 24125 | 29.996 | ng | | 96 |
| 43) 2,4,6-Trichlorophenol | 9.139 | 196 | 87192 | 44.255 | ng | | 98 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144303.D
Acq On : 20 Nov 2025 19:26
Operator : RC/JU
Sample : Q3662-02MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117MS

Quant Time: Nov 20 23:59:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration

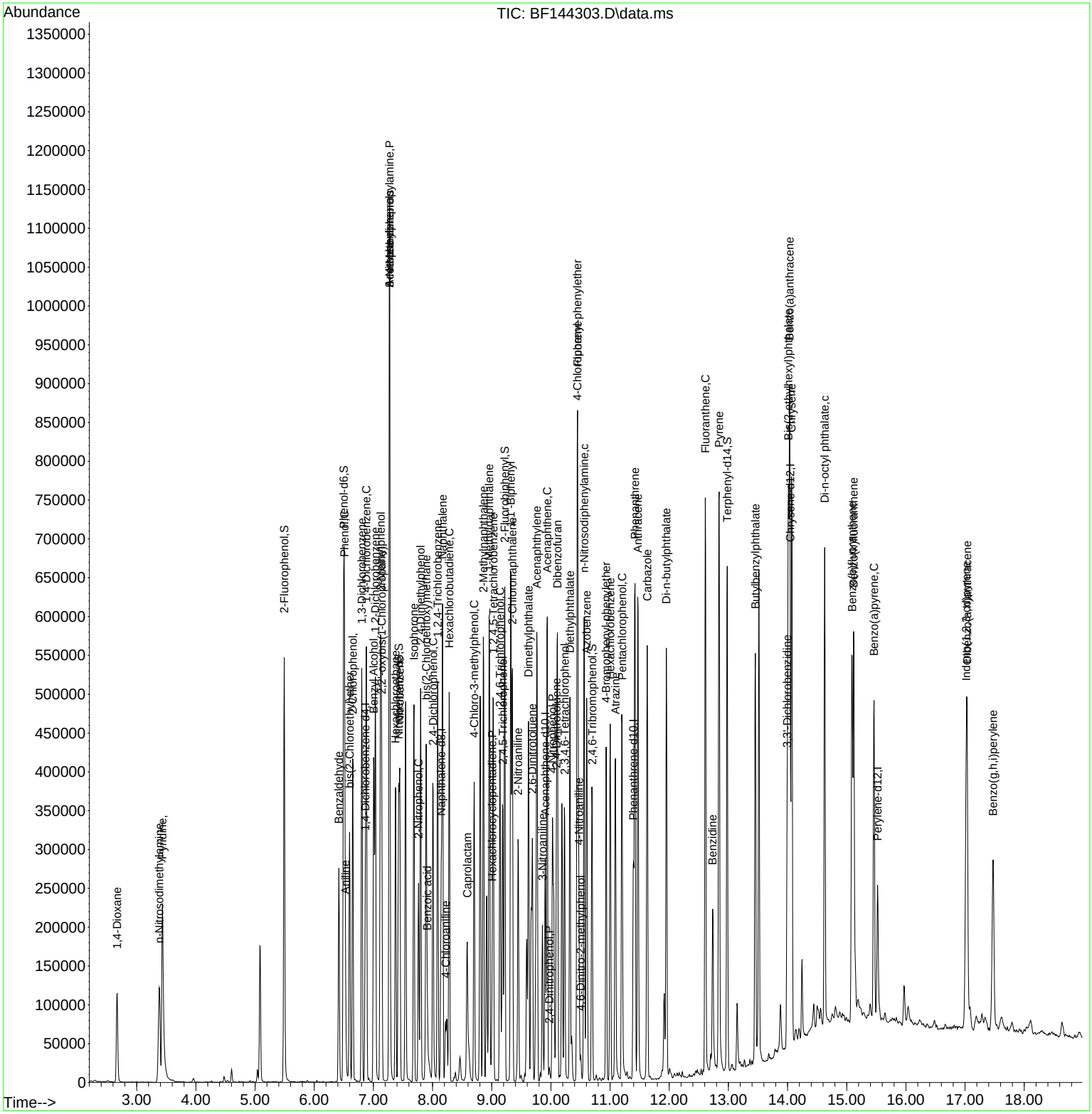
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.186 | 196 | 92551 | 43.586 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.322 | 154 | 290901 | 47.183 | ng | | 100 |
| 47) 2-Chloronaphthalene | 9.351 | 162 | 237319 | 45.125 | ng | | 99 |
| 48) 2-Nitroaniline | 9.445 | 65 | 75092 | 49.486 | ng | | 99 |
| 49) Acenaphthylene | 9.763 | 152 | 364796 | 50.901 | ng | | 100 |
| 50) Dimethylphthalate | 9.622 | 163 | 282211 | 48.229 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.686 | 165 | 57819 | 48.812 | ng | | 95 |
| 52) Acenaphthene | 9.939 | 154 | 194937 | 40.675 | ng | | 99 |
| 53) 3-Nitroaniline | 9.857 | 138 | 43949 | 33.941 | ng | | 100 |
| 54) 2,4-Dinitrophenol | 9.975 | 184 | 5029 | 7.031 | ng | | 93 |
| 55) Dibenzofuran | 10.110 | 168 | 301970 | 44.988 | ng | | 100 |
| 56) 4-Nitrophenol | 10.028 | 139 | 84871 | 90.611 | ng | | 94 |
| 57) 2,4-Dinitrotoluene | 10.092 | 165 | 73241 | 46.188 | ng | # | 99 |
| 58) Fluorene | 10.451 | 166 | 234298 | 45.911 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.233 | 232 | 70902 | 47.194 | ng | | 100 |
| 60) Diethylphthalate | 10.322 | 149 | 256137 | 47.485 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.445 | 204 | 126225 | 43.421 | ng | | 99 |
| 62) 4-Nitroaniline | 10.475 | 138 | 58579 | 47.505 | ng | | 95 |
| 63) Azobenzene | 10.604 | 77 | 246183 | 49.039 | ng | | 95 |
| 65) 4,6-Dinitro-2-methylph... | 10.504 | 198 | 5944 | 5.703 | ng | | 98 |
| 66) n-Nitrosodiphenylamine | 10.563 | 169 | 225030 | 45.607 | ng | | 100 |
| 67) 4-Bromophenyl-phenylether | 10.933 | 248 | 82595 | 42.180 | ng | | 97 |
| 68) Hexachlorobenzene | 11.004 | 284 | 99968 | 43.343 | ng | | 96 |
| 69) Atrazine | 11.092 | 200 | 75460 | 48.090 | ng | | 98 |
| 70) Pentachlorophenol | 11.204 | 266 | 97266 | 84.688 | ng | | 97 |
| 71) Phenanthrene | 11.422 | 178 | 364570 | 47.730 | ng | | 99 |
| 72) Anthracene | 11.469 | 178 | 364256 | 46.900 | ng | | 100 |
| 73) Carbazole | 11.627 | 167 | 333099 | 50.437 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.951 | 149 | 392037 | 49.104 | ng | | 99 |
| 75) Fluoranthene | 12.610 | 202 | 455093 | 57.678 | ng | | 99 |
| 77) Benzidine | 12.733 | 184 | 133834 | 34.990 | ng | | 97 |
| 78) Pyrene | 12.845 | 202 | 471853 | 45.257 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.457 | 149 | 177107 | 49.012 | ng | | 97 |
| 81) Benzo(a)anthracene | 14.033 | 228 | 436124 | 48.663 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.992 | 252 | 105242 | 34.259 | ng | | 97 |
| 83) Chrysene | 14.068 | 228 | 402572 | 48.660 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.015 | 149 | 247104 | 49.953 | ng | | 97 |
| 85) Di-n-octyl phthalate | 14.627 | 149 | 409575 | 47.989 | ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 17.021 | 276 | 280692 | 37.863 | ng | | 98 |
| 88) Benzo(b)fluoranthene | 15.092 | 252 | 338864 | 57.716 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.115 | 252 | 292518 | 53.229 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.462 | 252 | 276440 | 51.037 | ng | | 97 |
| 91) Dibenzo(a,h)anthracene | 17.033 | 278 | 223389 | 37.521 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.474 | 276 | 218137 | 37.102 | ng | | 99 |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144303.D
Acq On : 20 Nov 2025 19:26
Operator : RC/JU
Sample : Q3662-02MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117MS

Quant Time: Nov 20 23:59:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144304.D
Acq On : 20 Nov 2025 19:56
Operator : RC/JU
Sample : Q3662-02MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117MSD

Quant Time: Nov 21 00:00:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.863 | 152 | 44073 | 20.000 | ng | | -0.01 |
| 21) Naphthalene-d8 | 8.145 | 136 | 159722 | 20.000 | ng | | -0.01 |
| 39) Acenaphthene-d10 | 9.904 | 164 | 80476 | 20.000 | ng | | -0.01 |
| 64) Phenanthrene-d10 | 11.392 | 188 | 143551 | 20.000 | ng | | -0.01 |
| 76) Chrysene-d12 | 14.045 | 240 | 118518 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.521 | 264 | 95287 | 20.000 | ng | | -0.02 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.492 | 112 | 216046 | 76.710 | ng | | 0.00 |
| 7) Phenol-d6 | 6.498 | 99 | 237752 | 74.502 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.428 | 82 | 145188 | 52.500 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.698 | 330 | 71402 | 70.703 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.222 | 172 | 288328 | 52.915 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.980 | 244 | 336714 | 45.127 | ng | | -0.01 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.669 | 88 | 62924 | 54.041 | ng | | 100 |
| 3) Pyridine | 3.434 | 79 | 161142 | 49.605 | ng | | 99 |
| 4) n-Nitrosodimethylamine | 3.387 | 42 | 91656 | 54.016 | ng | | 94 |
| 6) Aniline | 6.528 | 93 | 63599 | 13.988 | ng | # | 77 |
| 8) 2-Chlorophenol | 6.651 | 128 | 134540 | 48.711 | ng | | 97 |
| 9) Benzaldehyde | 6.416 | 77 | 75790 | 42.059 | ng | | 97 |
| 10) Phenol | 6.510 | 94 | 183480 | 47.059 | ng | | 96 |
| 11) bis(2-Chloroethyl)ether | 6.598 | 93 | 145578 | 51.241 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.804 | 146 | 170495 | 50.025 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.881 | 146 | 171549 | 50.241 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.034 | 146 | 161736 | 49.419 | ng | | 98 |
| 15) Benzyl Alcohol | 7.004 | 79 | 125227 | 49.558 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.134 | 45 | 255861 | 48.905 | ng | | 90 |
| 17) 2-Methylphenol | 7.122 | 107 | 103587 | 47.143 | ng | | 95 |
| 18) Hexachloroethane | 7.375 | 117 | 50922 | 44.889 | ng | | 99 |
| 19) n-Nitroso-di-n-propyla... | 7.275 | 70 | 99491 | 47.359 | ng | | 97 |
| 20) 3+4-Methylphenols | 7.275 | 107 | 121115 | 46.759 | ng | # | 89 |
| 22) Acetophenone | 7.269 | 105 | 178859 | 52.200 | ng | | 99 |
| 24) Nitrobenzene | 7.445 | 77 | 149955 | 49.940 | ng | | 98 |
| 25) Isophorone | 7.686 | 82 | 260987 | 49.892 | ng | | 98 |
| 26) 2-Nitrophenol | 7.763 | 139 | 63088 | 42.444 | ng | | 96 |
| 27) 2,4-Dimethylphenol | 7.798 | 122 | 121255 | 54.427 | ng | | 97 |
| 28) bis(2-Chloroethoxy)met... | 7.892 | 93 | 167610 | 51.311 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.004 | 162 | 116177 | 45.245 | ng | | 97 |
| 30) 1,2,4-Trichlorobenzene | 8.086 | 180 | 131220 | 49.767 | ng | | 98 |
| 31) Naphthalene | 8.169 | 128 | 365391 | 48.092 | ng | | 99 |
| 32) Benzoic acid | 7.910 | 122 | 60719 | 37.181 | ng | | 93 |
| 33) 4-Chloroaniline | 8.222 | 127 | 35395 | 12.773 | ng | | 99 |
| 34) Hexachlorobutadiene | 8.281 | 225 | 91193 | 45.892 | ng | | 99 |
| 35) Caprolactam | 8.586 | 113 | 33639 | 47.818 | ng | | 94 |
| 36) 4-Chloro-3-methylphenol | 8.704 | 107 | 101868 | 44.267 | ng | | 98 |
| 37) 2-Methylnaphthalene | 8.857 | 142 | 216643 | 42.648 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.957 | 142 | 219367 | 44.755 | ng | | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.028 | 216 | 130774 | 49.583 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 9.010 | 237 | 24474 | 32.525 | ng | | 96 |
| 43) 2,4,6-Trichlorophenol | 9.139 | 196 | 88455 | 49.276 | ng | | 97 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144304.D
Acq On : 20 Nov 2025 19:56
Operator : RC/JU
Sample : Q3662-02MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117MSD

Quant Time: Nov 21 00:00:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration

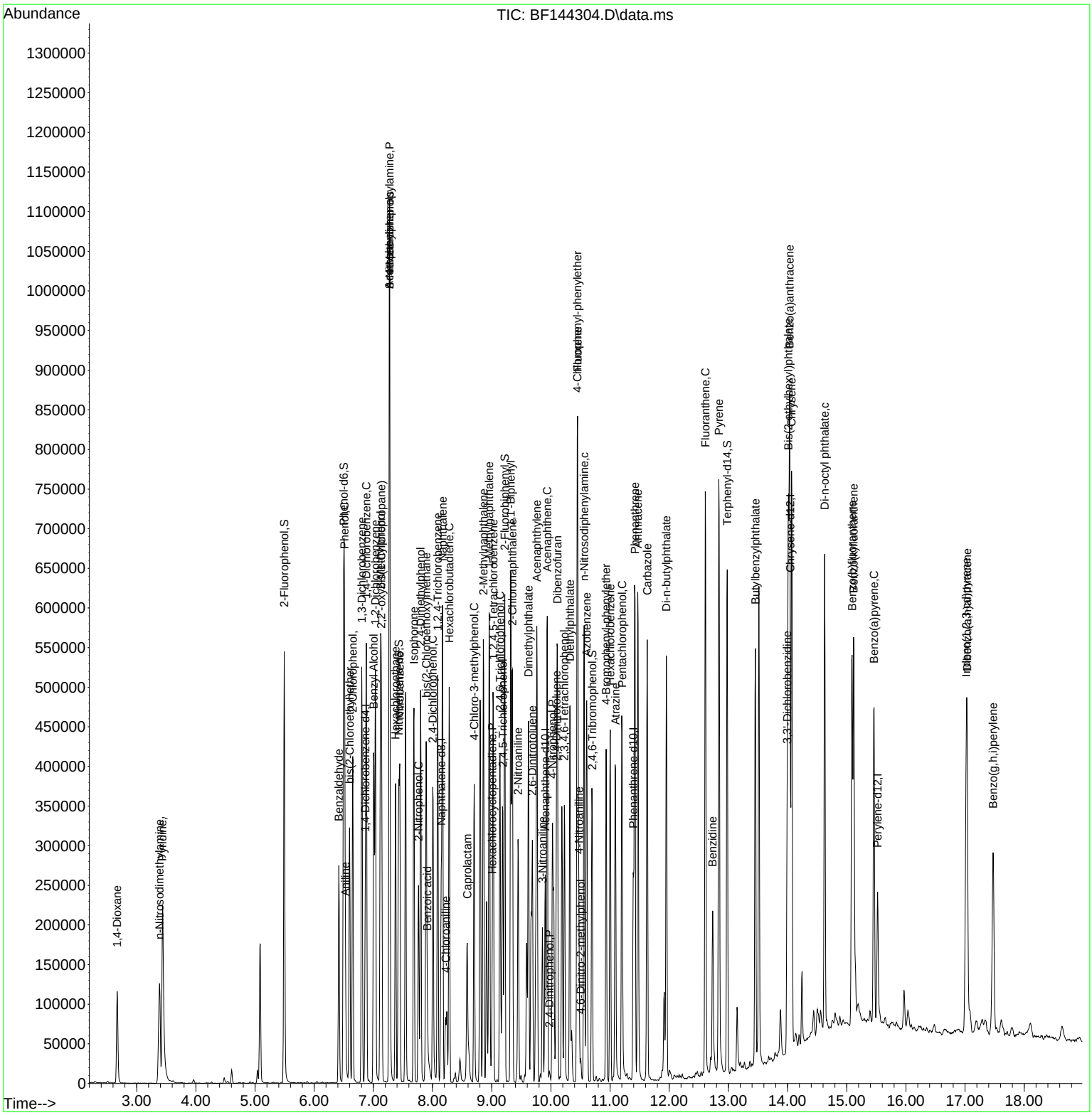
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.186 | 196 | 88549 | 45.769 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.322 | 154 | 286108 | 50.932 | ng | | 98 |
| 47) 2-Chloronaphthalene | 9.351 | 162 | 234340 | 48.905 | ng | | 99 |
| 48) 2-Nitroaniline | 9.445 | 65 | 73544 | 53.193 | ng | | 96 |
| 49) Acenaphthylene | 9.763 | 152 | 354918 | 54.353 | ng | | 100 |
| 50) Dimethylphthalate | 9.622 | 163 | 276955 | 51.948 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.686 | 165 | 53802 | 49.852 | ng | | 97 |
| 52) Acenaphthene | 9.939 | 154 | 188975 | 43.277 | ng | | 98 |
| 53) 3-Nitroaniline | 9.857 | 138 | 41951 | 35.559 | ng | | 98 |
| 54) 2,4-Dinitrophenol | 9.975 | 184 | 3170 | 4.864 | ng | # | 77 |
| 55) Dibenzofuran | 10.110 | 168 | 289563 | 47.348 | ng | | 99 |
| 56) 4-Nitrophenol | 10.027 | 139 | 81615 | 95.634 | ng | | 94 |
| 57) 2,4-Dinitrotoluene | 10.092 | 165 | 71296 | 49.347 | ng | | 99 |
| 58) Fluorene | 10.451 | 166 | 230887 | 49.656 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.227 | 232 | 68953 | 50.374 | ng | | 99 |
| 60) Diethylphthalate | 10.322 | 149 | 248556 | 50.574 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.445 | 204 | 122013 | 46.067 | ng | | 98 |
| 62) 4-Nitroaniline | 10.475 | 138 | 56885 | 50.631 | ng | | 91 |
| 63) Azobenzene | 10.604 | 77 | 238195 | 52.076 | ng | | 94 |
| 65) 4,6-Dinitro-2-methylph... | 10.504 | 198 | 5198 | 5.330 | ng | | 94 |
| 66) n-Nitrosodiphenylamine | 10.563 | 169 | 221308 | 47.933 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.933 | 248 | 77760 | 42.439 | ng | | 96 |
| 68) Hexachlorobenzene | 11.004 | 284 | 97531 | 45.191 | ng | | 96 |
| 69) Atrazine | 11.092 | 200 | 71134 | 48.446 | ng | | 98 |
| 70) Pentachlorophenol | 11.204 | 266 | 93796 | 87.276 | ng | | 96 |
| 71) Phenanthrene | 11.422 | 178 | 358878 | 50.212 | ng | | 100 |
| 72) Anthracene | 11.469 | 178 | 358424 | 49.319 | ng | | 99 |
| 73) Carbazole | 11.627 | 167 | 324871 | 52.570 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.951 | 149 | 378182 | 50.622 | ng | | 99 |
| 75) Fluoranthene | 12.610 | 202 | 448484 | 60.745 | ng | | 99 |
| 77) Benzidine | 12.733 | 184 | 130966 | 37.358 | ng | | 99 |
| 78) Pyrene | 12.839 | 202 | 464531 | 48.612 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.457 | 149 | 176348 | 53.245 | ng | | 96 |
| 81) Benzo(a)anthracene | 14.033 | 228 | 429096 | 52.238 | ng | | 100 |
| 82) 3,3'-Dichlorobenzidine | 13.992 | 252 | 102915 | 36.552 | ng | | 98 |
| 83) Chrysene | 14.068 | 228 | 393684 | 51.918 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.015 | 149 | 243198 | 53.640 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.627 | 149 | 400302 | 51.173 | ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 17.021 | 276 | 275395 | 40.262 | ng | | 98 |
| 88) Benzo(b)fluoranthene | 15.092 | 252 | 331622 | 61.216 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.115 | 252 | 286930 | 56.588 | ng | | 98 |
| 90) Benzo(a)pyrene | 15.462 | 252 | 272478 | 54.521 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.033 | 278 | 216932 | 39.490 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.474 | 276 | 224326 | 41.353 | ng | | 98 |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144304.D
Acq On : 20 Nov 2025 19:56
Operator : RC/JU
Sample : Q3662-02MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B3-0.0-1.0-20251117MSD

Quant Time: Nov 21 00:00:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
Response via : Initial Calibration



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# Manual Integration Report

| Sequence: | BF110525 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICC005 | BF144170.D | Benzo(b)fluoranthene | rahul | 11/6/2025 8:43:08 AM | Jagrut | 11/6/2025 10:21:01 AM | Peak Integrated by Software |
| SSTDICV040 | BF144177.D | Benzoic acid | rahul | 11/6/2025 8:43:11 AM | Jagrut | 11/6/2025 10:21:04 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BF112025 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PB170631BS | BF144292.D | Caprolactam | Jagrut | 11/21/2025 3:34:34 PM | mohammad | 11/22/2025 12:06:20 AM | Peak Integrated by Software |
| Q3662-04 | BF144296.D | Benzo(b)fluoranthene | Jagrut | 11/21/2025 3:34:42 PM | mohammad | 11/22/2025 12:06:20 AM | Peak Integrated by Software |
| Q3662-04 | BF144296.D | Benzo(k)fluoranthene | Jagrut | 11/21/2025 3:34:42 PM | mohammad | 11/22/2025 12:06:20 AM | Peak Integrated by Software |
| Q3662-02 | BF144302.D | Benzo(b)fluoranthene | Jagrut | 11/21/2025 3:34:46 PM | mohammad | 11/22/2025 12:06:20 AM | Peak Integrated by Software |
| Q3662-02 | BF144302.D | Chrysene | Jagrut | 11/21/2025 3:34:46 PM | mohammad | 11/22/2025 12:06:20 AM | Peak Integrated by Software |

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Fax : 908 789 8922

**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF110525

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/5/2025 2:56:50 PM | | | | |
| Supervise By | Jagrut | Supervise On | 11/6/2025 10:21:33 AM | | | | |
| SubDirectory | BF110525 | HP Acquire Method | BNA_F | | HP Processing Method | BF110525 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6875 |
| Initial Calibration Stds | SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864 |
| CCC | SP6860 |
| Internal Standard/PEM | S13181,10ul/1000ul sample |
| ICV/I.BLK | SP6872 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF144168.D | 05 Nov 2025 12:21 | RC/JU | Ok |
| 2 | SSTDICC2.5 | BF144169.D | 05 Nov 2025 12:50 | RC/JU | Ok |
| 3 | SSTDICC005 | BF144170.D | 05 Nov 2025 13:20 | RC/JU | Ok,M |
| 4 | SSTDICC010 | BF144171.D | 05 Nov 2025 13:50 | RC/JU | Ok |
| 5 | SSTDICC020 | BF144172.D | 05 Nov 2025 14:20 | RC/JU | Ok |
| 6 | SSTDICCC040 | BF144173.D | 05 Nov 2025 14:50 | RC/JU | Ok |
| 7 | SSTDICC050 | BF144174.D | 05 Nov 2025 15:49 | RC/JU | Ok |
| 8 | SSTDICC060 | BF144175.D | 05 Nov 2025 16:19 | RC/JU | Ok |
| 9 | SSTDICC080 | BF144176.D | 05 Nov 2025 16:49 | RC/JU | Ok |
| 10 | SSTDICV040 | BF144177.D | 05 Nov 2025 17:21 | RC/JU | Ok,M |
| 11 | PB170372BL | BF144178.D | 05 Nov 2025 18:10 | RC/JU | Ok |

M : Manual Integration

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF112025

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 11/21/2025 3:35:02 PM | | | | |
| Supervise By | mohammad | Supervise On | 11/22/2025 12:06:20 AM | | | | |
| SubDirectory | BF112025 | HP Acquire Method | BNA_F | | HP Processing Method | BF110525 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6875 |
| Initial Calibration Stds | SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864 |
| CCC | SP6860 |
| Internal Standard/PEM | S13183,10ul/1000ul sample |
| ICV/I.BLK | SP6872 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF144289.D | 20 Nov 2025 12:03 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF144290.D | 20 Nov 2025 12:32 | RC/JU | Ok |
| 3 | PB170631BL | BF144291.D | 20 Nov 2025 13:25 | RC/JU | Ok |
| 4 | PB170631BS | BF144292.D | 20 Nov 2025 13:54 | RC/JU | Ok,M |
| 5 | PB170652BL | BF144293.D | 20 Nov 2025 14:24 | RC/JU | Ok |
| 6 | PB170652BS | BF144294.D | 20 Nov 2025 14:54 | RC/JU | Ok,M |
| 7 | Q3669-01 | BF144295.D | 20 Nov 2025 15:30 | RC/JU | Ok,M |
| 8 | Q3662-04 | BF144296.D | 20 Nov 2025 15:59 | RC/JU | Ok,M |
| 9 | Q3667-01 | BF144297.D | 20 Nov 2025 16:28 | RC/JU | Ok |
| 10 | Q3667-05 | BF144298.D | 20 Nov 2025 16:58 | RC/JU | Ok |
| 11 | Q3681-01 | BF144299.D | 20 Nov 2025 17:27 | RC/JU | Ok,M |
| 12 | Q3681-01MS | BF144300.D | 20 Nov 2025 17:57 | RC/JU | Ok |
| 13 | Q3681-01MSD | BF144301.D | 20 Nov 2025 18:27 | RC/JU | Ok |
| 14 | Q3662-02 | BF144302.D | 20 Nov 2025 18:56 | RC/JU | Ok,M |
| 15 | Q3662-02MS | BF144303.D | 20 Nov 2025 19:26 | RC/JU | Ok |
| 16 | Q3662-02MSD | BF144304.D | 20 Nov 2025 19:56 | RC/JU | Ok |

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Fax : 908 789 8922

**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF110525

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/5/2025 2:56:50 PM | | |
| Supervise By | Jagrut | Supervise On | 11/6/2025 10:21:33 AM | | |
| SubDirectory | BF110525 | HP Acquire Method | BNA_F | HP Processing Method | BF110525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6875 |
| Initial Calibration Stds | SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864 |
| CCC | SP6860 |
| Internal Standard/PEM | S13181,10ul/1000ul sample |
| ICV/I.BLK | SP6872 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BF144168.D | 05 Nov 2025 12:21 | | RC/JU | Ok |
| 2 | SSTDICC2.5 | SSTDICC2.5 | BF144169.D | 05 Nov 2025 12:50 | | RC/JU | Ok |
| 3 | SSTDICC005 | SSTDICC005 | BF144170.D | 05 Nov 2025 13:20 | | RC/JU | Ok,M |
| 4 | SSTDICC010 | SSTDICC010 | BF144171.D | 05 Nov 2025 13:50 | | RC/JU | Ok |
| 5 | SSTDICC020 | SSTDICC020 | BF144172.D | 05 Nov 2025 14:20 | | RC/JU | Ok |
| 6 | SSTDICCC040 | SSTDICCC040 | BF144173.D | 05 Nov 2025 14:50 | Compound #41 kept on QR | RC/JU | Ok |
| 7 | SSTDICC050 | SSTDICC050 | BF144174.D | 05 Nov 2025 15:49 | | RC/JU | Ok |
| 8 | SSTDICC060 | SSTDICC060 | BF144175.D | 05 Nov 2025 16:19 | | RC/JU | Ok |
| 9 | SSTDICC080 | SSTDICC080 | BF144176.D | 05 Nov 2025 16:49 | | RC/JU | Ok |
| 10 | SSTDICV040 | ICVBF110525 | BF144177.D | 05 Nov 2025 17:21 | | RC/JU | Ok,M |
| 11 | PB170372BL | PB170372BL | BF144178.D | 05 Nov 2025 18:10 | | RC/JU | Ok |

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Fax : 908 789 8922

**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF112025

| | | | | | |
|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 11/21/2025 3:35:02 PM | | |
| Supervise By | mohammad | Supervise On | 11/22/2025 12:06:20 AM | | |
| SubDirectory | BF112025 | HP Acquire Method | BNA_F | HP Processing Method | BF110525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6875 |
| Initial Calibration Stds | SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864 |
| CCC | SP6860 |
| Internal Standard/PEM | S13183,10ul/1000ul sample |
| ICV/I.BLK | SP6872 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BF144289.D | 20 Nov 2025 12:03 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF144290.D | 20 Nov 2025 12:32 | | RC/JU | Ok |
| 3 | PB170631BL | PB170631BL | BF144291.D | 20 Nov 2025 13:25 | | RC/JU | Ok |
| 4 | PB170631BS | PB170631BS | BF144292.D | 20 Nov 2025 13:54 | | RC/JU | Ok,M |
| 5 | PB170652BL | PB170652BL | BF144293.D | 20 Nov 2025 14:24 | | RC/JU | Ok |
| 6 | PB170652BS | PB170652BS | BF144294.D | 20 Nov 2025 14:54 | | RC/JU | Ok,M |
| 7 | Q3669-01 | EO-01-11182025 | BF144295.D | 20 Nov 2025 15:30 | | RC/JU | Ok,M |
| 8 | Q3662-04 | B1-0.0-1.0-20251117 | BF144296.D | 20 Nov 2025 15:59 | | RC/JU | Ok,M |
| 9 | Q3667-01 | RIGHT-SIDE-WALL | BF144297.D | 20 Nov 2025 16:28 | | RC/JU | Ok |
| 10 | Q3667-05 | LEFT-SIDE-FLOOR | BF144298.D | 20 Nov 2025 16:58 | | RC/JU | Ok |
| 11 | Q3681-01 | ETGI-354 | BF144299.D | 20 Nov 2025 17:27 | | RC/JU | Ok,M |
| 12 | Q3681-01MS | ETGI-354MS | BF144300.D | 20 Nov 2025 17:57 | Comp. #54 recovery is zero, Need noncon | RC/JU | Ok |
| 13 | Q3681-01MSD | ETGI-354MSD | BF144301.D | 20 Nov 2025 18:27 | Comp. #54 recovery is zero, Need noncon | RC/JU | Ok |
| 14 | Q3662-02 | B3-0.0-1.0-20251117 | BF144302.D | 20 Nov 2025 18:56 | | RC/JU | Ok,M |
| 15 | Q3662-02MS | B3-0.0-1.0-20251117MS | BF144303.D | 20 Nov 2025 19:26 | | RC/JU | Ok |
| 16 | Q3662-02MSD | B3-0.0-1.0-20251117MS | BF144304.D | 20 Nov 2025 19:56 | Comp. #54 recovery is zero, Need noncon | RC/JU | Ok |

M : Manual Integration

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB170631

| | | | | | |
|---|---|---|---|---|---|
| **SOP ID:** | M3541-ASE Extraction-15 | | | | |
| **Clean Up SOP #:** | N/A | | | **Extraction Start Date :** | 11/19/2025 |
| **Matrix :** | Solid | | | **Extraction Start Time :** | 09:25 |
| **Weigh By:** | EH | **Extraction By:** | RJ | **Extraction End Date :** | 11/19/2025 |
| **Balance check:** | EH | **Filter By:** | RJ | **Extraction End Time :** | 12:30 |
| **Balance ID:** | EX-SC-2 | **pH Meter ID:** | N/A | **Concentration By:** | EH |
| **pH Strip Lot#:** | N/A | **Hood ID:** | 3,7 | **Supervisor By :** | RUPESH |

**Extraction Method:** ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 50/100 PPM | SP6895 |
| Surrogate | 1.0ML | 100/150 PPM | SP6918 |
| MDL | 1.0ML | ~~N/A~~ 4 PPM | SP6920 |
| MDL | 1.0ML | ~~N/A~~ 8PPM | SP6922 |
| N/A | N/A | N/A | N/A |

RJ 11/19

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| MeCl2/Acetone/1:1 | N/A | EP2659 |
| Baked Na2SO4 | N/A | EP2655 |
| Sand | N/A | E3951 |
| Methylene Chloride | N/A | E3986 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

1.5ML Vial Lot # 2210443.

| | | | |
|---|---|---|---|
| **KD Bath ID:** | N/A | **Envap ID:** | N-EVAP-02 |
| **KD Bath Temperature:** | N/A | **Envap Temperature:** | 40 °C |

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/19/25 | RS (Ext-lab) | RC/SVOC |
| 12:35 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB170631**

**Analytical Method:** M3541-ASE Extraction-15

**Concentration Date:** 11/19/2025

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB170631BL | SBLK631 | SVOC-TCL BNA -20 | 30.02 | N/A | ritesh | Evelyn | 1 | | | U1-1 |
| PB170631BS | SLCS631 | SVOC-TCL BNA -20 | 30.03 | N/A | ritesh | Evelyn | 1 | | | 2 |
| Q3530-03 | MDL-SOIL-03-QT4-2025 4 PPM | SVOC-Chemtech Full -25 | 30.01 | N/A | ritesh | Evelyn | 1 | | | 3 |
| Q3662-02 | B3-0.0-1.0-20251117 | SVOC-TCL BNA -20 | 30.06 | N/A | ritesh | Evelyn | 1 | A | | 4 |
| Q3662-02MS | B3-0.0-1.0-20251117MS | SVOC-TCL BNA -20 | 30.08 | N/A | ritesh | Evelyn | 1 | A | | 5 |
| Q3662-02MSD | B3-0.0-1.0-20251117MSD | SVOC-TCL BNA -20 | 30.07 | N/A | ritesh | Evelyn | 1 | A | | 6 |
| Q3662-04 | B3-0.0-1.0-20251117 | SVOC-TCL BNA -20 | 30.02 | N/A | ritesh | Evelyn | 1 | A | | U2-1 |
| Q3664-01 | ARS20-0001 | SVOC-TCL BNA -20 | 50.08 | N/A | ritesh | Evelyn | 1 | E | Concrete | 2 |
| Q3664-03 | ARS20-0013 | SVOC-TCL BNA -20 | 50.01 | N/A | ritesh | Evelyn | 1 | E | Concrete | 3 |
| Q3664-05 | 291399 | SVOC-TCL BNA -20 | 50.03 | N/A | ritesh | Evelyn | 1 | E | Concrete | 4 |
| Q3668-01 | 2015 | SVOC-PAH | 50.03 | N/A | ritesh | Evelyn | 1 | A | Concrete | 5 |
| Q3669-01 | EO-01-11182025 | SVOC-TCL BNA -20 | 50.05 | N/A | ritesh | Evelyn | 1 | F | | 6 |
| Q3530-03 | MDL-SOIL-03-QT4-2025 8PPM | SVOC-Chemtech Full-25 | 30.04 | 1 | 1 | 1 | 1 | | | U3-1 |

RS 11/19

* **Extracts relinquished on the same date as received.**

170631
9:25

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q3662 **WorkList ID :** 193211 **Department :** Extraction **Date :** 11-19-2025 08:40:49

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q3530-03 | MDL-SOIL-03-QT4-2025 | Solid | SVOC-Chemtech Full -25 | Cool 4 deg C | ALLI03 | QA Of | 11/03/2025 | 8270E |
| Q3662-02 | B3-0.0-1.0-20251117 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | HDRI08 | D41 | 11/17/2025 | 8270E |
| Q3662-04 | B3-0.0-1.0-20251117 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | HDRI08 | D41 | 11/17/2025 | 8270E |
| Q3664-01 | ARS20-0001 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | 8270E |
| Q3664-03 | ARS20-0013 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | 8270E |
| Q3664-05 | 291399 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | 8270E |
| Q3668-01 | 2015 | Solid | SVOC-PAH | Cool 4 deg C | PSEG03 | D41 | 11/18/2025 | 8270E |
| Q3669-01 | EO-01-11182025 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG05 | D41 | 11/18/2025 | 8270E |

**Date/Time** 11/19/25 9:20
**Raw Sample Received by:** RJ (EXT lab)
**Raw Sample Relinquished by:**



**Date/Time** 11/19/25 9:40
**Raw Sample Received by:**
**Raw Sample Relinquished by:** RJ (EXT lab)

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q3662 | **OrderDate:** | 11/18/2025 11:14:00 AM |
| **Client:** | HDR, Inc. | **Project:** | PVWC Linear Construction |
| **Contact:** | Andrew Wadden | **Location:** | D41,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q3662-02** | **B3-0.0-1.0-20251117** | **SOIL** | | | **11/17/25** | | | **11/18/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/19/25 | 11/20/25 | |
| **Q3662-04** | **B1-0.0-1.0-20251117** | **SOIL** | | | **11/17/25** | | | **11/18/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/19/25 | 11/20/25 | |

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Fax : 908 789 8922

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3662 **Order ID:** Q3662

**Client:** HDR, Inc. **Project ID:** PVWC Linear Construction

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : B3-0.0-1.0-20251117** | | | | | | | | |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | 4,4-DDE | 0.36 | J | 0.17 | 2.00 | ug/kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | 4,4-DDT | 0.79 | JP | 0.17 | 2.00 | ug/kg |
| | | | **Total Concentration:** | **1.150** | | | | |
| **Client ID : B1-0.0-1.0-20251117** | | | | | | | | |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | 4,4-DDE | 0.53 | JP | 0.16 | 1.90 | ug/kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | 4,4-DDT | 1.20 | JP | 0.16 | 1.90 | ug/kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | alpha-Chlordane | 6.80 | P | 0.14 | 1.90 | ug/kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | gamma-Chlordane | 2.50 | P | 0.17 | 1.90 | ug/kg |
| | | | **Total Concentration:** | **11.030** | | | | |

Alliance
TECHNICAL GROUP

A
B
C
D
E
F
G
H
I
J
K
L

# SAMPLE DATA

Raw Data: **PD091278.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.0-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-02 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 84.7 |
| Sample Wt/Vol: | 30.01 g Final Vol: 10000 uL | Test: | Pesticide-TCL |
| Prep Method: | SW3541B Prep Date: 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 319-84-6 | alpha-BHC | 0.15 | U | 1 | 0.15 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 319-85-7 | beta-BHC | 0.21 | U | 1 | 0.21 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 319-86-8 | delta-BHC | 0.46 | U | 1 | 0.46 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 58-89-9 | gamma-BHC (Lindane) | 0.17 | U | 1 | 0.17 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 76-44-8 | Heptachlor | 0.14 | U | 1 | 0.14 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 309-00-2 | Aldrin | 0.14 | U | 1 | 0.14 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 1024-57-3 | Heptachlor epoxide | 0.22 | U | 1 | 0.22 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 959-98-8 | Endosulfan I | 0.17 | U | 1 | 0.17 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 60-57-1 | Dieldrin | 0.17 | U | 1 | 0.17 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 72-55-9 | 4,4-DDE | 0.36 | J | 1 | 0.17 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 72-20-8 | Endrin | 0.17 | U | 1 | 0.17 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 33213-65-9 | Endosulfan II | 0.34 | U | 1 | 0.34 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 72-54-8 | 4,4-DDD | 0.18 | U | 1 | 0.18 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 1031-07-8 | Endosulfan Sulfate | 0.15 | U | 1 | 0.15 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 50-29-3 | 4,4-DDT | 0.79 | JP | 1 | 0.17 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 72-43-5 | Methoxychlor | 0.44 | U | 1 | 0.44 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 53494-70-5 | Endrin ketone | 0.22 | U | 1 | 0.22 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 7421-93-4 | Endrin aldehyde | 0.44 | U | 1 | 0.44 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 5103-71-9 | alpha-Chlordane | 0.14 | U | 1 | 0.14 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 5103-74-2 | gamma-Chlordane | 0.18 | U | 1 | 0.18 | 2.00 | ug/kg | 11/19/25 16:24 | PB170628 |
| 8001-35-2 | Toxaphene | 6.40 | U | 1 | 6.40 | 38.9 | ug/kg | 11/19/25 16:24 | PB170628 |
| **SURROGATES** | | | | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 12.6 | | | 30 (10) - 150 (143) | 63% | SPK: 20 | | |
| 877-09-8 | Tetrachloro-m-xylene | 17.1 | | | 30 (10) - 150 (131) | 85% | SPK: 20 | | |

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

Raw Data: **PD091281.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B1-0.0-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-04 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 88.1 |
| Sample Wt/Vol: | 30.04 g Final Vol: 10000 uL | Test: | Pesticide-TCL |
| Prep Method: | SW3541B Prep Date: 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 319-84-6 | alpha-BHC | 0.15 | U | 1 | 0.15 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 319-85-7 | beta-BHC | 0.20 | U | 1 | 0.20 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 319-86-8 | delta-BHC | 0.44 | U | 1 | 0.44 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 58-89-9 | gamma-BHC (Lindane) | 0.16 | U | 1 | 0.16 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 76-44-8 | Heptachlor | 0.14 | U | 1 | 0.14 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 309-00-2 | Aldrin | 0.14 | U | 1 | 0.14 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 1024-57-3 | Heptachlor epoxide | 0.22 | U | 1 | 0.22 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 959-98-8 | Endosulfan I | 0.16 | U | 1 | 0.16 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 60-57-1 | Dieldrin | 0.16 | U | 1 | 0.16 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 72-55-9 | 4,4-DDE | 0.53 | JP | 1 | 0.16 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 72-20-8 | Endrin | 0.16 | U | 1 | 0.16 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 33213-65-9 | Endosulfan II | 0.33 | U | 1 | 0.33 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 72-54-8 | 4,4-DDD | 0.17 | U | 1 | 0.17 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 1031-07-8 | Endosulfan Sulfate | 0.15 | U | 1 | 0.15 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 50-29-3 | 4,4-DDT | 1.20 | JP | 1 | 0.16 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 72-43-5 | Methoxychlor | 0.42 | U | 1 | 0.42 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 53494-70-5 | Endrin ketone | 0.22 | U | 1 | 0.22 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 7421-93-4 | Endrin aldehyde | 0.42 | U | 1 | 0.42 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 5103-71-9 | alpha-Chlordane | 6.80 | P | 1 | 0.14 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 5103-74-2 | gamma-Chlordane | 2.50 | P | 1 | 0.17 | 1.90 | ug/kg | 11/19/25 17:05 | PB170628 |
| 8001-35-2 | Toxaphene | 6.10 | U | 1 | 6.10 | 37.4 | ug/kg | 11/19/25 17:05 | PB170628 |
| **SURROGATES** | | | | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 8.09 | | | 30 (10) - 150 (143) | 40% | SPK: 20 | | |
| 877-09-8 | Tetrachloro-m-xylene | 10.3 | | | 30 (10) - 150 (131) | 52% | SPK: 20 | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

# QC SUMMARY

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

## Surrogate Summary

**SDG No.:** Q3662

**Client:** HDR, Inc.

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Recovery(%) | Qual | Limits(%) Low | Limits(%) High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PD091193.D | PIBLK-PD091193.D | Decachlorobiphen | 1 | 20 | 20.8 | 104 | | 30 (31) | 150 (149) |
| | | Tetrachloro-m-xyl | 1 | 20 | 19.5 | 98 | | 30 (41) | 150 (134) |
| | | Decachlorobiphen | 2 | 20 | 20.1 | 100 | | 30 (31) | 150 (149) |
| | | Tetrachloro-m-xyl | 2 | 20 | 20.0 | 100 | | 30 (41) | 150 (134) |
| I.BLK-PD091264.D | PIBLK-PD091264.D | Decachlorobiphen | 1 | 20 | 22.3 | 111 | | 30 (31) | 150 (149) |
| | | Tetrachloro-m-xyl | 1 | 20 | 21.8 | 109 | | 30 (41) | 150 (134) |
| | | Decachlorobiphen | 2 | 20 | 24.5 | 123 | | 30 (31) | 150 (149) |
| | | Tetrachloro-m-xyl | 2 | 20 | 23.6 | 118 | | 30 (41) | 150 (134) |
| PB170628BL | PB170628BL | Decachlorobiphen | 1 | 20 | 17.8 | 89 | | 30 (10) | 150 (143) |
| | | Tetrachloro-m-xyl | 1 | 20 | 17.2 | 86 | | 30 (10) | 150 (131) |
| | | Decachlorobiphen | 2 | 20 | 19.3 | 97 | | 30 (10) | 150 (143) |
| | | Tetrachloro-m-xyl | 2 | 20 | 18.4 | 92 | | 30 (10) | 150 (131) |
| I.BLK-PD091275.D | PIBLK-PD091275.D | Decachlorobiphen | 1 | 20 | 16.0 | 80 | | 30 (31) | 150 (149) |
| | | Tetrachloro-m-xyl | 1 | 20 | 16.5 | 83 | | 30 (41) | 150 (134) |
| | | Decachlorobiphen | 2 | 20 | 13.9 | 69 | | 30 (31) | 150 (149) |
| | | Tetrachloro-m-xyl | 2 | 20 | 18.1 | 90 | | 30 (41) | 150 (134) |
| Q3662-02 | B3-0.0-1.0-20251117 | Decachlorobiphen | 1 | 20 | 12.6 | 63 | | 30 (10) | 150 (143) |
| | | Tetrachloro-m-xyl | 1 | 20 | 16.1 | 81 | | 30 (10) | 150 (131) |
| | | Decachlorobiphen | 2 | 20 | 11.0 | 55 | | 30 (10) | 150 (143) |
| | | Tetrachloro-m-xyl | 2 | 20 | 17.1 | 85 | | 30 (10) | 150 (131) |
| Q3662-02MS | B3-0.0-1.0-20251117MS | Decachlorobiphen | 1 | 20 | 11.0 | 55 | | 30 (10) | 150 (143) |
| | | Tetrachloro-m-xyl | 1 | 20 | 14.4 | 72 | | 30 (10) | 150 (131) |
| | | Decachlorobiphen | 2 | 20 | 9.10 | 46 | | 30 (10) | 150 (143) |
| | | Tetrachloro-m-xyl | 2 | 20 | 14.7 | 74 | | 30 (10) | 150 (131) |
| Q3662-02MSD | B3-0.0-1.0-20251117MSD | Decachlorobiphen | 1 | 20 | 10.7 | 53 | | 30 (10) | 150 (143) |
| | | Tetrachloro-m-xyl | 1 | 20 | 14.1 | 70 | | 30 (10) | 150 (131) |
| | | Decachlorobiphen | 2 | 20 | 9.75 | 49 | | 30 (10) | 150 (143) |
| | | Tetrachloro-m-xyl | 2 | 20 | 15.3 | 77 | | 30 (10) | 150 (131) |
| Q3662-04 | B1-0.0-1.0-20251117 | Decachlorobiphen | 1 | 20 | 8.09 | 40 | | 30 (10) | 150 (143) |
| | | Tetrachloro-m-xyl | 1 | 20 | 9.96 | 50 | | 30 (10) | 150 (131) |
| | | Decachlorobiphen | 2 | 20 | 6.09 | 30 | | 30 (10) | 150 (143) |
| | | Tetrachloro-m-xyl | 2 | 20 | 10.3 | 52 | | 30 (10) | 150 (131) |
| I.BLK-PD091285.D | PIBLK-PD091285.D | Decachlorobiphen | 1 | 20 | 16.4 | 82 | | 30 (31) | 150 (149) |
| | | Tetrachloro-m-xyl | 1 | 20 | 16.6 | 83 | | 30 (41) | 150 (134) |
| | | Decachlorobiphen | 2 | 20 | 15.2 | 76 | | 30 (31) | 150 (149) |
| | | Tetrachloro-m-xyl | 2 | 20 | 17.5 | 88 | | 30 (41) | 150 (134) |
| I.BLK-PD091328.D | PIBLK-PD091328.D | Decachlorobiphen | 1 | 20 | 21.8 | 109 | | 30 (31) | 150 (149) |
| | | Tetrachloro-m-xyl | 1 | 20 | 20.3 | 101 | | 30 (41) | 150 (134) |
| | | Decachlorobiphen | 2 | 20 | 23.8 | 119 | | 30 (31) | 150 (149) |
| | | Tetrachloro-m-xyl | 2 | 20 | 22.9 | 115 | | 30 (41) | 150 (134) |
| PB170628BS | PB170628BS | Decachlorobiphen | 1 | 20 | 20.7 | 104 | | 30 (10) | 150 (143) |

( ) = LABORATORY INHOUSE LIMIT

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

## Surrogate Summary

**SDG No.:** Q3662

**Client:** HDR, Inc.

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Recovery(%) | Qual | Limits(%) Low | Limits(%) High |
|---|---|---|---|---|---|---|---|---|---|
| PB170628BS | PB170628BS | Tetrachloro-m-xyl | 1 | 20 | 20.6 | 103 | | 30 (10) | 150 (131) |
| | | Decachlorobiphen | 2 | 20 | 23.8 | 119 | | 30 (10) | 150 (143) |
| | | Tetrachloro-m-xyl | 2 | 20 | 22.1 | 111 | | 30 (10) | 150 (131) |
| I.BLK-PD091345.D | PIBLK-PD091345.D | Decachlorobiphen | 1 | 20 | 19.4 | 97 | | 30 (31) | 150 (149) |
| | | Tetrachloro-m-xyl | 1 | 20 | 19.1 | 95 | | 30 (41) | 150 (134) |
| | | Decachlorobiphen | 2 | 20 | 19.3 | 96 | | 30 (31) | 150 (149) |
| | | Tetrachloro-m-xyl | 2 | 20 | 21.2 | 106 | | 30 (41) | 150 (134) |

( ) = LABORATORY INHOUSE LIMIT

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

## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q3662 **Analytical Method:** 8081B

**Client:** HDR, Inc. **DataFile :** PD091279.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** **Q3662-02MS (Column 1)** | **Client Sample ID:** | | **B3-0.0-1.0-20251117MS** | | | | | | | | |
| alpha-BHC | 19.64 | 0 | 16.3 | ug/kg | 83 | | | | 30 (60) | 150 (144) | |
| beta-BHC | 19.64 | 0 | 17.2 | ug/kg | 88 | | | | 30 (54) | 150 (143) | |
| delta-BHC | 19.64 | 0 | 14.0 | ug/kg | 71 | | | | 30 (47) | 150 (129) | |
| gamma-BHC (Lindane) | 19.64 | 0 | 15.7 | ug/kg | 80 | | | | 30 (39) | 150 (136) | |
| Heptachlor | 19.64 | 0 | 9.20 | ug/kg | 47 | | | | 30 (33) | 150 (148) | |
| Aldrin | 19.64 | 0 | 17.4 | ug/kg | 89 | | | | 30 (38) | 150 (139) | |
| Heptachlor epoxide | 19.64 | 0 | 17.1 | ug/kg | 87 | | | | 30 (23) | 150 (155) | |
| Endosulfan I | 19.64 | 0 | 15.2 | ug/kg | 77 | | | | 30 (30) | 150 (142) | |
| Dieldrin | 19.64 | 0 | 16.7 | ug/kg | 85 | | | | 30 (32) | 150 (140) | |
| 4,4'-DDE | 19.64 | 0.26 | 17.5 | ug/kg | 88 | | | | 30 (20) | 150 (156) | |
| Endrin | 19.64 | 0 | 17.4 | ug/kg | 89 | | | | 30 (57) | 150 (139) | |
| Endosulfan II | 19.64 | 0 | 15.0 | ug/kg | 76 | | | | 30 (41) | 150 (125) | |
| 4,4'-DDD | 19.64 | 0 | 14.4 | ug/kg | 73 | | | | 30 (47) | 150 (163) | |
| Endosulfan sulfate | 19.64 | 0 | 11.8 | ug/kg | 60 | | | | 30 (43) | 150 (125) | |
| 4,4'-DDT | 19.64 | 0.21 | 8.40 | ug/kg | 42 | | | | 30 (25) | 150 (149) | |
| Methoxychlor | 19.64 | 0 | 8.20 | ug/kg | 42 | | | | 30 (32) | 150 (132) | |
| Endrin ketone | 19.64 | 0 | 9.40 | ug/kg | 48 | | | | 30 (27) | 150 (142) | |
| Endrin aldehyde | 19.64 | 0 | 6.40 | ug/kg | 33 | | | | 30 (19) | 150 (148) | |
| alpha-Chlordane | 19.64 | 0 | 18.0 | ug/kg | 92 | | | | 30 (26) | 150 (147) | |
| gamma-Chlordane | 19.64 | 0 | 17.9 | ug/kg | 91 | | | | 30 (30) | 150 (142) | |
| **Lab Sample ID:** **Q3662-02MS (Column 2)** | **Client Sample ID:** | | **B3-0.0-1.0-20251117MS** | | | | | | | | |
| alpha-BHC | 19.64 | 0 | 16.7 | ug/kg | 85 | | | | 30 (60) | 150 (144) | |
| beta-BHC | 19.64 | 0 | 17.7 | ug/kg | 90 | | | | 30 (54) | 150 (143) | |
| delta-BHC | 19.64 | 0 | 14.0 | ug/kg | 71 | | | | 30 (47) | 150 (129) | |
| gamma-BHC (Lindane) | 19.64 | 0 | 15.8 | ug/kg | 80 | | | | 30 (39) | 150 (136) | |
| Heptachlor | 19.64 | 0 | 9.80 | ug/kg | 50 | | | | 30 (33) | 150 (148) | |
| Aldrin | 19.64 | 0 | 17.9 | ug/kg | 91 | | | | 30 (38) | 150 (139) | |
| Heptachlor epoxide | 19.64 | 0 | 17.4 | ug/kg | 89 | | | | 30 (23) | 150 (155) | |
| Endosulfan I | 19.64 | 0 | 14.7 | ug/kg | 75 | | | | 30 (30) | 150 (142) | |
| Dieldrin | 19.64 | 0 | 17.8 | ug/kg | 91 | | | | 30 (32) | 150 (140) | |
| 4,4'-DDE | 19.64 | 0.36 | 18.1 | ug/kg | 90 | | | | 30 (20) | 150 (156) | |
| Endrin | 19.64 | 0 | 16.2 | ug/kg | 82 | | | | 30 (57) | 150 (139) | |
| Endosulfan II | 19.64 | 0 | 15.2 | ug/kg | 77 | | | | 30 (41) | 150 (125) | |
| 4,4'-DDD | 19.64 | 0 | 12.9 | ug/kg | 66 | | | | 30 (47) | 150 (163) | |
| Endosulfan sulfate | 19.64 | 0 | 11.3 | ug/kg | 58 | | | | 30 (43) | 150 (125) | |

( ) = LABORATORY INHOUSE LIMIT

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q3662 **Analytical Method:** 8081B

**Client:** HDR, Inc. **DataFile :** PD091279.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT | 19.64 | 0.79 | 9.10 | ug/kg | 42 | | | | 30 (25) | 150 (149) | |
| Methoxychlor | 19.64 | 0 | 7.80 | ug/kg | 40 | | | | 30 (32) | 150 (132) | |
| Endrin ketone | 19.64 | 0 | 8.80 | ug/kg | 45 | | | | 30 (27) | 150 (142) | |
| Endrin aldehyde | 19.64 | 0 | 6.30 | ug/kg | 32 | | | | 30 (19) | 150 (148) | |
| alpha-Chlordane | 19.64 | 0 | 18.1 | ug/kg | 92 | | | | 30 (26) | 150 (147) | |
| gamma-Chlordane | 19.64 | 0 | 20.5 | ug/kg | 104 | | | | 30 (30) | 150 (142) | |

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q3662 **Analytical Method:** 8081B

**Client:** HDR, Inc. **DataFile :** PD091280.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** **Q3662-02MSD (Column 1)** | **Client Sample ID:** | | **B3-0.0-1.0-20251117MSD** | | | | | | | | |
| alpha-BHC | 19.63 | 0 | 17.6 | ug/kg | 90 | | 8 | | 30 (60) | 150 (144) | 30 (15) |
| beta-BHC | 19.63 | 0 | 17.2 | ug/kg | 88 | | 0 | | 30 (54) | 150 (143) | 30 (15) |
| delta-BHC | 19.63 | 0 | 16.7 | ug/kg | 85 | | 18 | | 30 (47) | 150 (129) | 30 (20) |
| gamma-BHC (Lindane) | 19.63 | 0 | 17.2 | ug/kg | 88 | | 10 | | 30 (39) | 150 (136) | 30 (30) |
| Heptachlor | 19.63 | 0 | 10.3 | ug/kg | 52 | | 10 | | 30 (33) | 150 (148) | 30 (20) |
| Aldrin | 19.63 | 0 | 17.5 | ug/kg | 89 | | 0 | | 30 (38) | 150 (139) | 30 (30) |
| Heptachlor epoxide | 19.63 | 0 | 16.9 | ug/kg | 86 | | 1 | | 30 (23) | 150 (155) | 30 (16) |
| Endosulfan I | 19.63 | 0 | 16.4 | ug/kg | 84 | | 9 | | 30 (30) | 150 (142) | 30 (15) |
| Dieldrin | 19.63 | 0 | 16.9 | ug/kg | 86 | | 1 | | 30 (32) | 150 (140) | 30 (20) |
| 4,4'-DDE | 19.63 | 0.26 | 17.1 | ug/kg | 86 | | 2 | | 30 (20) | 150 (156) | 30 (16) |
| Endrin | 19.63 | 0 | 17.7 | ug/kg | 90 | | 1 | | 30 (57) | 150 (139) | 30 (16) |
| Endosulfan II | 19.63 | 0 | 16.2 | ug/kg | 83 | | 9 | | 30 (41) | 150 (125) | 30 (15) |
| 4,4'-DDD | 19.63 | 0 | 15.5 | ug/kg | 79 | | 8 | | 30 (47) | 150 (163) | 30 (20) |
| Endosulfan sulfate | 19.63 | 0 | 14.2 | ug/kg | 72 | | 18 | | 30 (43) | 150 (125) | 30 (15) |
| 4,4'-DDT | 19.63 | 0.21 | 11.6 | ug/kg | 58 | | 32 | * | 30 (25) | 150 (149) | 30 (15) |
| Methoxychlor | 19.63 | 0 | 10.2 | ug/kg | 52 | | 21 | | 30 (32) | 150 (132) | 30 (20) |
| Endrin ketone | 19.63 | 0 | 13.4 | ug/kg | 68 | | 34 | * | 30 (27) | 150 (142) | 30 (15) |
| Endrin aldehyde | 19.63 | 0 | 10.0 | ug/kg | 51 | | 43 | * | 30 (19) | 150 (148) | 30 (15) |
| alpha-Chlordane | 19.63 | 0 | 17.6 | ug/kg | 90 | | 2 | | 30 (26) | 150 (147) | 30 (20) |
| gamma-Chlordane | 19.63 | 0 | 17.5 | ug/kg | 89 | | 2 | | 30 (30) | 150 (142) | 30 (15) |
| **Lab Sample ID:** **Q3662-02MSD (Column 2)** | **Client Sample ID:** | | **B3-0.0-1.0-20251117MSD** | | | | | | | | |
| alpha-BHC | 19.63 | 0 | 17.9 | ug/kg | 91 | | 7 | | 30 (60) | 150 (144) | 30 (15) |
| beta-BHC | 19.63 | 0 | 18.0 | ug/kg | 92 | | 2 | | 30 (54) | 150 (143) | 30 (15) |
| delta-BHC | 19.63 | 0 | 16.7 | ug/kg | 85 | | 18 | | 30 (47) | 150 (129) | 30 (20) |
| gamma-BHC (Lindane) | 19.63 | 0 | 17.3 | ug/kg | 88 | | 10 | | 30 (39) | 150 (136) | 30 (30) |
| Heptachlor | 19.63 | 0 | 11.0 | ug/kg | 56 | | 11 | | 30 (33) | 150 (148) | 30 (20) |
| Aldrin | 19.63 | 0 | 18.0 | ug/kg | 92 | | 1 | | 30 (38) | 150 (139) | 30 (30) |
| Heptachlor epoxide | 19.63 | 0 | 17.6 | ug/kg | 90 | | 1 | | 30 (23) | 150 (155) | 30 (16) |
| Endosulfan I | 19.63 | 0 | 15.9 | ug/kg | 81 | | 8 | | 30 (30) | 150 (142) | 30 (15) |
| Dieldrin | 19.63 | 0 | 17.7 | ug/kg | 90 | | 1 | | 30 (32) | 150 (140) | 30 (20) |
| 4,4'-DDE | 19.63 | 0.36 | 17.8 | ug/kg | 89 | | 1 | | 30 (20) | 150 (156) | 30 (16) |
| Endrin | 19.63 | 0 | 16.7 | ug/kg | 85 | | 4 | | 30 (57) | 150 (139) | 30 (16) |
| Endosulfan II | 19.63 | 0 | 16.3 | ug/kg | 83 | | 8 | | 30 (41) | 150 (125) | 30 (15) |
| 4,4'-DDD | 19.63 | 0 | 14.0 | ug/kg | 71 | | 7 | | 30 (47) | 150 (163) | 30 (20) |
| Endosulfan sulfate | 19.63 | 0 | 13.6 | ug/kg | 69 | | 17 | | 30 (43) | 150 (125) | 30 (15) |

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q3662 **Analytical Method:** 8081B

**Client:** HDR, Inc. **DataFile :** PD091280.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT | 19.63 | 0.79 | 11.5 | ug/kg | 55 | | 27 | | 30 (25) | 150 (149) | 30 (15) |
| Methoxychlor | 19.63 | 0 | 9.50 | ug/kg | 48 | | 18 | | 30 (32) | 150 (132) | 30 (20) |
| Endrin ketone | 19.63 | 0 | 11.8 | ug/kg | 60 | | 29 | | 30 (27) | 150 (142) | 30 (15) |
| Endrin aldehyde | 19.63 | 0 | 9.90 | ug/kg | 50 | | 44 | * | 30 (19) | 150 (148) | 30 (15) |
| alpha-Chlordane | 19.63 | 0 | 18.1 | ug/kg | 92 | | 0 | | 30 (26) | 150 (147) | 30 (20) |
| gamma-Chlordane | 19.63 | 0 | 20.2 | ug/kg | 103 | | 1 | | 30 (30) | 150 (142) | 30 (15) |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3662 **Analytical Method:** 8081B

**Client:** HDR, Inc. **Datafile :** PD091334.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB170628BS (Column 1) | alpha-BHC | 16.66 | 14.2 | ug/kg | 85 | | | | 40 (84) | 140 (123) | |
| | beta-BHC | 16.66 | 14.1 | ug/kg | 85 | | | | 40 (82) | 140 (123) | |
| | delta-BHC | 16.66 | 13.4 | ug/kg | 80 | | | | 40 (83) | 140 (126) | |
| | gamma-BHC (Lindane) | 16.66 | 14.5 | ug/kg | 87 | | | | 40 (83) | 140 (125) | |
| | Heptachlor | 16.66 | 14.7 | ug/kg | 88 | | | | 40 (83) | 140 (122) | |
| | Aldrin | 16.66 | 14.7 | ug/kg | 88 | | | | 40 (82) | 140 (124) | |
| | Heptachlor epoxide | 16.66 | 14.6 | ug/kg | 88 | | | | 40 (83) | 140 (120) | |
| | Endosulfan I | 16.66 | 14.5 | ug/kg | 87 | | | | 40 (81) | 140 (124) | |
| | Dieldrin | 16.66 | 14.6 | ug/kg | 88 | | | | 40 (85) | 140 (121) | |
| | 4,4'-DDE | 16.66 | 14.3 | ug/kg | 86 | | | | 40 (81) | 140 (123) | |
| | Endrin | 16.66 | 15.6 | ug/kg | 94 | | | | 40 (76) | 140 (130) | |
| | Endosulfan II | 16.66 | 14.9 | ug/kg | 89 | | | | 40 (80) | 140 (125) | |
| | 4,4'-DDD | 16.66 | 14.2 | ug/kg | 85 | | | | 40 (80) | 140 (131) | |
| | Endosulfan sulfate | 16.66 | 14.4 | ug/kg | 86 | | | | 40 (81) | 140 (122) | |
| | 4,4'-DDT | 16.66 | 16.1 | ug/kg | 97 | | | | 40 (70) | 140 (129) | |
| | Methoxychlor | 16.66 | 16.2 | ug/kg | 97 | | | | 40 (60) | 140 (119) | |
| | Endrin ketone | 16.66 | 14.7 | ug/kg | 88 | | | | 40 (77) | 140 (132) | |
| | Endrin aldehyde | 16.66 | 15.3 | ug/kg | 92 | | | | 40 (79) | 140 (124) | |
| | alpha-Chlordane | 16.66 | 13.8 | ug/kg | 83 | | | | 40 (84) | 140 (120) | |
| | gamma-Chlordane | 16.66 | 14.5 | ug/kg | 87 | | | | 40 (83) | 140 (122) | |
| PB170628BS (Column 2) | alpha-BHC | 16.66 | 15.4 | ug/kg | 92 | | | | 40 (84) | 140 (123) | |
| | beta-BHC | 16.66 | 15.7 | ug/kg | 94 | | | | 40 (82) | 140 (123) | |
| | delta-BHC | 16.66 | 14.6 | ug/kg | 88 | | | | 40 (83) | 140 (126) | |
| | gamma-BHC (Lindane) | 16.66 | 15.7 | ug/kg | 94 | | | | 40 (83) | 140 (125) | |
| | Heptachlor | 16.66 | 16.1 | ug/kg | 97 | | | | 40 (83) | 140 (122) | |
| | Aldrin | 16.66 | 16.4 | ug/kg | 98 | | | | 40 (82) | 140 (124) | |
| | Heptachlor epoxide | 16.66 | 16.2 | ug/kg | 97 | | | | 40 (83) | 140 (120) | |
| | Endosulfan I | 16.66 | 15.5 | ug/kg | 93 | | | | 40 (81) | 140 (124) | |
| | Dieldrin | 16.66 | 16.4 | ug/kg | 98 | | | | 40 (85) | 140 (121) | |
| | 4,4'-DDE | 16.66 | 16.4 | ug/kg | 98 | | | | 40 (81) | 140 (123) | |
| | Endrin | 16.66 | 18.1 | ug/kg | 109 | | | | 40 (76) | 140 (130) | |
| | Endosulfan II | 16.66 | 16.4 | ug/kg | 98 | | | | 40 (80) | 140 (125) | |
| | 4,4'-DDD | 16.66 | 15.7 | ug/kg | 94 | | | | 40 (80) | 140 (131) | |
| | Endosulfan sulfate | 16.66 | 16.4 | ug/kg | 98 | | | | 40 (81) | 140 (122) | |
| | 4,4'-DDT | 16.66 | 18.5 | ug/kg | 111 | | | | 40 (70) | 140 (129) | |
| | Methoxychlor | 16.66 | 18.3 | ug/kg | 110 | | | | 40 (60) | 140 (119) | |
| | Endrin ketone | 16.66 | 18.0 | ug/kg | 108 | | | | 40 (77) | 140 (132) | |
| | Endrin aldehyde | 16.66 | 17.2 | ug/kg | 103 | | | | 40 (79) | 140 (124) | |
| | alpha-Chlordane | 16.66 | 16.3 | ug/kg | 98 | | | | 40 (84) | 140 (120) | |
| | gamma-Chlordane | 16.66 | 16.4 | ug/kg | 98 | | | | 40 (83) | 140 (122) | |

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB170628BL

Lab Name: Alliance | Contract: HDRI08

Lab Code: ACE | SDG NO.: Q3662

Lab Sample ID: PB170628BL | Lab File ID: PD091270.D

Matrix: (soil/water) Solid | Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N | Date Extracted: 11/19/2025

Date Analyzed (1): 11/19/2025 | Date Analyzed (2): 11/19/2025

Time Analyzed (1): 14:07 | Time Analyzed (2): 14:07

Instrument ID (1): ECD_D | Instrument ID (2): ECD_D

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 |
|---|---|---|---|---|
| B3-0.0-1.0-20251117 | Q3662-02 | PD091278.D | 11/19/2025 | 11/19/2025 |
| B3-0.0-1.0-20251117MS | Q3662-02MS | PD091279.D | 11/19/2025 | 11/19/2025 |
| B3-0.0-1.0-20251117MSD | Q3662-02MSD | PD091280.D | 11/19/2025 | 11/19/2025 |
| B1-0.0-1.0-20251117 | Q3662-04 | PD091281.D | 11/19/2025 | 11/19/2025 |
| PB170628BS | PB170628BS | PD091334.D | 11/21/2025 | 11/21/2025 |

COMMENTS:

# QC SAMPLE DATA

Raw Data: **PD091270.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | |
| Project: | PVWC Linear Construction | Date Received: | |
| Client Sample ID: | PB170628BL | SDG No.: | Q3662 |
| Lab Sample ID: | PB170628BL | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 g | Final Vol: 10000 uL | Test: Pesticide-TCL |
| Prep Method: | SW3541B | Prep Date: 11/19/25 | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 319-84-6 | alpha-BHC | 0.13 | U | 1 | 0.13 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 319-85-7 | beta-BHC | 0.18 | U | 1 | 0.18 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 319-86-8 | delta-BHC | 0.39 | U | 1 | 0.39 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 58-89-9 | gamma-BHC (Lindane) | 0.14 | U | 1 | 0.14 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 76-44-8 | Heptachlor | 0.12 | U | 1 | 0.12 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 309-00-2 | Aldrin | 0.12 | U | 1 | 0.12 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 1024-57-3 | Heptachlor epoxide | 0.19 | U | 1 | 0.19 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 959-98-8 | Endosulfan I | 0.14 | U | 1 | 0.14 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 60-57-1 | Dieldrin | 0.14 | U | 1 | 0.14 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 72-55-9 | 4,4-DDE | 0.14 | U | 1 | 0.14 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 72-20-8 | Endrin | 0.14 | U | 1 | 0.14 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 33213-65-9 | Endosulfan II | 0.29 | U | 1 | 0.29 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 72-54-8 | 4,4-DDD | 0.15 | U | 1 | 0.15 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 1031-07-8 | Endosulfan Sulfate | 0.13 | U | 1 | 0.13 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 50-29-3 | 4,4-DDT | 0.14 | U | 1 | 0.14 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 72-43-5 | Methoxychlor | 0.37 | U | 1 | 0.37 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 53494-70-5 | Endrin ketone | 0.19 | U | 1 | 0.19 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 7421-93-4 | Endrin aldehyde | 0.37 | U | 1 | 0.37 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 5103-71-9 | alpha-Chlordane | 0.12 | U | 1 | 0.12 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 5103-74-2 | gamma-Chlordane | 0.15 | U | 1 | 0.15 | 1.70 | ug/kg | 11/19/25 14:07 | PB170628 |
| 8001-35-2 | Toxaphene | 5.40 | U | 1 | 5.40 | 33.0 | ug/kg | 11/19/25 14:07 | PB170628 |
| **SURROGATES** | | | | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.3 | | | 30 (10) - 150 (143) | 97% | SPK: 20 | | |
| 877-09-8 | Tetrachloro-m-xylene | 18.4 | | | 30 (10) - 150 (131) | 92% | SPK: 20 | | |

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: | HDR, Inc. | Date Collected: | 11/14/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/14/25 |
| Client Sample ID: | PIBLK-PD091193.D | SDG No.: | Q3662 |
| Lab Sample ID: | I.BLK-PD091193.D | Matrix: | WATER |
| Analytical Method: | 8081B | % Solid: | 0 |
| Sample Wt/Vol: | 1000 mL Final Vol: 10000 uL | Test: | Pesticide-TCL |
| Prep Method: | 3510C Prep Date: | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 319-84-6 | alpha-BHC | 0.0039 | U | 1 | 0.0039 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 319-85-7 | beta-BHC | 0.0049 | U | 1 | 0.0049 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 319-86-8 | delta-BHC | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 58-89-9 | gamma-BHC (Lindane) | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 76-44-8 | Heptachlor | 0.0027 | U | 1 | 0.0027 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 309-00-2 | Aldrin | 0.0036 | U | 1 | 0.0036 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 1024-57-3 | Heptachlor epoxide | 0.0096 | U | 1 | 0.0096 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 959-98-8 | Endosulfan I | 0.0031 | U | 1 | 0.0031 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 60-57-1 | Dieldrin | 0.0036 | U | 1 | 0.0036 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 72-55-9 | 4,4-DDE | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 72-20-8 | Endrin | 0.0032 | U | 1 | 0.0032 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 33213-65-9 | Endosulfan II | 0.0079 | U | 1 | 0.0079 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 72-54-8 | 4,4-DDD | 0.0071 | U | 1 | 0.0071 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 1031-07-8 | Endosulfan Sulfate | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 50-29-3 | 4,4-DDT | 0.0035 | U | 1 | 0.0035 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 72-43-5 | Methoxychlor | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 53494-70-5 | Endrin ketone | 0.0093 | U | 1 | 0.0093 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 7421-93-4 | Endrin aldehyde | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 5103-71-9 | alpha-Chlordane | 0.0035 | U | 1 | 0.0035 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 5103-74-2 | gamma-Chlordane | 0.0039 | U | 1 | 0.0039 | 0.050 | ug/L | 11/14/25 | PD111525 |
| 8001-35-2 | Toxaphene | 0.17 | U | 1 | 0.17 | 1.00 | ug/L | 11/14/25 | PD111525 |
| **SURROGATES** | | | | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 20.8 | | | 30 (31) - 150 (149) | 104% | SPK: 20 | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.0 | | | 30 (41) - 150 (134) | 100% | SPK: 20 | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/19/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/19/25 |
| Client Sample ID: | PIBLK-PD091264.D | SDG No.: | Q3662 |
| Lab Sample ID: | I.BLK-PD091264.D | Matrix: | WATER |
| Analytical Method: | 8081B | % Solid: | 0 |
| Sample Wt/Vol: | 1000 mL Final Vol: 10000 uL | Test: | Pesticide-TCL |
| Prep Method: | 3510C Prep Date: | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 319-84-6 | alpha-BHC | 0.0039 | U | 1 | 0.0039 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 319-85-7 | beta-BHC | 0.0049 | U | 1 | 0.0049 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 319-86-8 | delta-BHC | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 58-89-9 | gamma-BHC (Lindane) | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 76-44-8 | Heptachlor | 0.0027 | U | 1 | 0.0027 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 309-00-2 | Aldrin | 0.0036 | U | 1 | 0.0036 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 1024-57-3 | Heptachlor epoxide | 0.0096 | U | 1 | 0.0096 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 959-98-8 | Endosulfan I | 0.0031 | U | 1 | 0.0031 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 60-57-1 | Dieldrin | 0.0036 | U | 1 | 0.0036 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 72-55-9 | 4,4-DDE | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 72-20-8 | Endrin | 0.0032 | U | 1 | 0.0032 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 33213-65-9 | Endosulfan II | 0.0079 | U | 1 | 0.0079 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 72-54-8 | 4,4-DDD | 0.0071 | U | 1 | 0.0071 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 1031-07-8 | Endosulfan Sulfate | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 50-29-3 | 4,4-DDT | 0.0035 | U | 1 | 0.0035 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 72-43-5 | Methoxychlor | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 53494-70-5 | Endrin ketone | 0.0093 | U | 1 | 0.0093 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 7421-93-4 | Endrin aldehyde | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 5103-71-9 | alpha-Chlordane | 0.0035 | U | 1 | 0.0035 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 5103-74-2 | gamma-Chlordane | 0.0039 | U | 1 | 0.0039 | 0.050 | ug/L | 11/19/25 | PD111925 |
| 8001-35-2 | Toxaphene | 0.17 | U | 1 | 0.17 | 1.00 | ug/L | 11/19/25 | PD111925 |
| **SURROGATES** | | | | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 24.5 | | | 30 (31) - 150 (149) | 123% | SPK: 20 | | |
| 877-09-8 | Tetrachloro-m-xylene | 23.6 | | | 30 (41) - 150 (134) | 118% | SPK: 20 | | |

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: | HDR, Inc. | Date Collected: | 11/19/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/19/25 |
| Client Sample ID: | PIBLK-PD091275.D | SDG No.: | Q3662 |
| Lab Sample ID: | I.BLK-PD091275.D | Matrix: | WATER |
| Analytical Method: | 8081B | % Solid: | 0 |
| Sample Wt/Vol: | 1000 mL Final Vol: 10000 uL | Test: | Pesticide-TCL |
| Prep Method: | 3510C Prep Date: | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 319-84-6 | alpha-BHC | 0.0039 | U | 1 | 0.0039 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 319-85-7 | beta-BHC | 0.0049 | U | 1 | 0.0049 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 319-86-8 | delta-BHC | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 58-89-9 | gamma-BHC (Lindane) | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 76-44-8 | Heptachlor | 0.0027 | U | 1 | 0.0027 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 309-00-2 | Aldrin | 0.0036 | U | 1 | 0.0036 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 1024-57-3 | Heptachlor epoxide | 0.0096 | U | 1 | 0.0096 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 959-98-8 | Endosulfan I | 0.0031 | U | 1 | 0.0031 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 60-57-1 | Dieldrin | 0.0036 | U | 1 | 0.0036 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 72-55-9 | 4,4-DDE | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 72-20-8 | Endrin | 0.0032 | U | 1 | 0.0032 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 33213-65-9 | Endosulfan II | 0.0079 | U | 1 | 0.0079 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 72-54-8 | 4,4-DDD | 0.0071 | U | 1 | 0.0071 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 1031-07-8 | Endosulfan Sulfate | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 50-29-3 | 4,4-DDT | 0.0035 | U | 1 | 0.0035 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 72-43-5 | Methoxychlor | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 53494-70-5 | Endrin ketone | 0.0093 | U | 1 | 0.0093 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 7421-93-4 | Endrin aldehyde | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 5103-71-9 | alpha-Chlordane | 0.0035 | U | 1 | 0.0035 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 5103-74-2 | gamma-Chlordane | 0.0039 | U | 1 | 0.0039 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 8001-35-2 | Toxaphene | 0.17 | U | 1 | 0.17 | 1.00 | ug/L | 11/19/25 | pd111925 |
| **SURROGATES** | | | | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 16.0 | | | 30 (31) - 150 (149) | 80% | SPK: 20 | | |
| 877-09-8 | Tetrachloro-m-xylene | 18.1 | | | 30 (41) - 150 (134) | 90% | SPK: 20 | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/19/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/19/25 |
| Client Sample ID: | PIBLK-PD091285.D | SDG No.: | Q3662 |
| Lab Sample ID: | I.BLK-PD091285.D | Matrix: | WATER |
| Analytical Method: | 8081B | % Solid: | 0 |
| Sample Wt/Vol: | 1000 mL Final Vol: 10000 uL | Test: | Pesticide-TCL |
| Prep Method: | 3510C Prep Date: | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 319-84-6 | alpha-BHC | 0.0039 | U | 1 | 0.0039 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 319-85-7 | beta-BHC | 0.0049 | U | 1 | 0.0049 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 319-86-8 | delta-BHC | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 58-89-9 | gamma-BHC (Lindane) | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 76-44-8 | Heptachlor | 0.0027 | U | 1 | 0.0027 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 309-00-2 | Aldrin | 0.0036 | U | 1 | 0.0036 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 1024-57-3 | Heptachlor epoxide | 0.0096 | U | 1 | 0.0096 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 959-98-8 | Endosulfan I | 0.0031 | U | 1 | 0.0031 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 60-57-1 | Dieldrin | 0.0036 | U | 1 | 0.0036 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 72-55-9 | 4,4-DDE | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 72-20-8 | Endrin | 0.0032 | U | 1 | 0.0032 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 33213-65-9 | Endosulfan II | 0.0079 | U | 1 | 0.0079 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 72-54-8 | 4,4-DDD | 0.0071 | U | 1 | 0.0071 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 1031-07-8 | Endosulfan Sulfate | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 50-29-3 | 4,4-DDT | 0.0035 | U | 1 | 0.0035 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 72-43-5 | Methoxychlor | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 53494-70-5 | Endrin ketone | 0.0093 | U | 1 | 0.0093 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 7421-93-4 | Endrin aldehyde | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 5103-71-9 | alpha-Chlordane | 0.0035 | U | 1 | 0.0035 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 5103-74-2 | gamma-Chlordane | 0.0039 | U | 1 | 0.0039 | 0.050 | ug/L | 11/19/25 | pd111925 |
| 8001-35-2 | Toxaphene | 0.17 | U | 1 | 0.17 | 1.00 | ug/L | 11/19/25 | pd111925 |
| **SURROGATES** | | | | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 16.4 | | | 30 (31) - 150 (149) | 82% | SPK: 20 | | |
| 877-09-8 | Tetrachloro-m-xylene | 17.5 | | | 30 (41) - 150 (134) | 88% | SPK: 20 | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/21/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/21/25 |
| Client Sample ID: | PIBLK-PD091328.D | SDG No.: | Q3662 |
| Lab Sample ID: | I.BLK-PD091328.D | Matrix: | WATER |
| Analytical Method: | 8081B | % Solid: | 0 |
| Sample Wt/Vol: | 1000 mL Final Vol: 10000 uL | Test: | Pesticide-TCL |
| Prep Method: | 3510C Prep Date: | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 319-84-6 | alpha-BHC | 0.0039 | U | 1 | 0.0039 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 319-85-7 | beta-BHC | 0.0049 | U | 1 | 0.0049 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 319-86-8 | delta-BHC | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 58-89-9 | gamma-BHC (Lindane) | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 76-44-8 | Heptachlor | 0.0027 | U | 1 | 0.0027 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 309-00-2 | Aldrin | 0.0036 | U | 1 | 0.0036 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 1024-57-3 | Heptachlor epoxide | 0.0096 | U | 1 | 0.0096 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 959-98-8 | Endosulfan I | 0.0031 | U | 1 | 0.0031 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 60-57-1 | Dieldrin | 0.0036 | U | 1 | 0.0036 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 72-55-9 | 4,4-DDE | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 72-20-8 | Endrin | 0.0032 | U | 1 | 0.0032 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 33213-65-9 | Endosulfan II | 0.0079 | U | 1 | 0.0079 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 72-54-8 | 4,4-DDD | 0.0071 | U | 1 | 0.0071 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 1031-07-8 | Endosulfan Sulfate | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 50-29-3 | 4,4-DDT | 0.0035 | U | 1 | 0.0035 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 72-43-5 | Methoxychlor | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 53494-70-5 | Endrin ketone | 0.0093 | U | 1 | 0.0093 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 7421-93-4 | Endrin aldehyde | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 5103-71-9 | alpha-Chlordane | 0.0035 | U | 1 | 0.0035 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 5103-74-2 | gamma-Chlordane | 0.0039 | U | 1 | 0.0039 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 8001-35-2 | Toxaphene | 0.17 | U | 1 | 0.17 | 1.00 | ug/L | 11/21/25 | pd112125 |
| **SURROGATES** | | | | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 23.8 | | | 30 (31) - 150 (149) | 119% | SPK: 20 | | |
| 877-09-8 | Tetrachloro-m-xylene | 22.9 | | | 30 (41) - 150 (134) | 115% | SPK: 20 | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/21/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/21/25 |
| Client Sample ID: | PIBLK-PD091345.D | SDG No.: | Q3662 |
| Lab Sample ID: | I.BLK-PD091345.D | Matrix: | WATER |
| Analytical Method: | 8081B | % Solid: | 0 |
| Sample Wt/Vol: | 1000 mL Final Vol: 10000 uL | Test: | Pesticide-TCL |
| Prep Method: | 3510C Prep Date: | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 319-84-6 | alpha-BHC | 0.0039 | U | 1 | 0.0039 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 319-85-7 | beta-BHC | 0.0049 | U | 1 | 0.0049 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 319-86-8 | delta-BHC | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 58-89-9 | gamma-BHC (Lindane) | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 76-44-8 | Heptachlor | 0.0027 | U | 1 | 0.0027 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 309-00-2 | Aldrin | 0.0036 | U | 1 | 0.0036 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 1024-57-3 | Heptachlor epoxide | 0.0096 | U | 1 | 0.0096 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 959-98-8 | Endosulfan I | 0.0031 | U | 1 | 0.0031 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 60-57-1 | Dieldrin | 0.0036 | U | 1 | 0.0036 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 72-55-9 | 4,4-DDE | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 72-20-8 | Endrin | 0.0032 | U | 1 | 0.0032 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 33213-65-9 | Endosulfan II | 0.0079 | U | 1 | 0.0079 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 72-54-8 | 4,4-DDD | 0.0071 | U | 1 | 0.0071 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 1031-07-8 | Endosulfan Sulfate | 0.0037 | U | 1 | 0.0037 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 50-29-3 | 4,4-DDT | 0.0035 | U | 1 | 0.0035 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 72-43-5 | Methoxychlor | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 53494-70-5 | Endrin ketone | 0.0093 | U | 1 | 0.0093 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 7421-93-4 | Endrin aldehyde | 0.011 | U | 1 | 0.011 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 5103-71-9 | alpha-Chlordane | 0.0035 | U | 1 | 0.0035 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 5103-74-2 | gamma-Chlordane | 0.0039 | U | 1 | 0.0039 | 0.050 | ug/L | 11/21/25 | pd112125 |
| 8001-35-2 | Toxaphene | 0.17 | U | 1 | 0.17 | 1.00 | ug/L | 11/21/25 | pd112125 |
| **SURROGATES** | | | | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.4 | | | 30 (31) - 150 (149) | 97% | SPK: 20 | | |
| 877-09-8 | Tetrachloro-m-xylene | 21.2 | | | 30 (41) - 150 (134) | 106% | SPK: 20 | | |

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

Raw Data: **PD091334.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | |
| Project: | PVWC Linear Construction | Date Received: | |
| Client Sample ID: | PB170628BS | SDG No.: | Q3662 |
| Lab Sample ID: | PB170628BS | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 g | Final Vol: 10000 uL | Test: Pesticide-TCL |
| Prep Method: | SW3541B | Prep Date: 11/19/25 | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 319-84-6 | alpha-BHC | 15.4 | | 1 | 0.13 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 319-85-7 | beta-BHC | 15.7 | | 1 | 0.18 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 319-86-8 | delta-BHC | 14.6 | | 1 | 0.39 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 58-89-9 | gamma-BHC (Lindane) | 15.7 | | 1 | 0.14 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 76-44-8 | Heptachlor | 16.1 | | 1 | 0.12 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 309-00-2 | Aldrin | 16.4 | | 1 | 0.12 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 1024-57-3 | Heptachlor epoxide | 16.2 | | 1 | 0.19 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 959-98-8 | Endosulfan I | 15.5 | | 1 | 0.14 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 60-57-1 | Dieldrin | 16.4 | | 1 | 0.14 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 72-55-9 | 4,4-DDE | 16.4 | | 1 | 0.14 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 72-20-8 | Endrin | 18.1 | | 1 | 0.14 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 33213-65-9 | Endosulfan II | 16.4 | | 1 | 0.29 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 72-54-8 | 4,4-DDD | 15.7 | | 1 | 0.15 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 1031-07-8 | Endosulfan Sulfate | 16.4 | | 1 | 0.13 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 50-29-3 | 4,4-DDT | 18.5 | | 1 | 0.14 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 72-43-5 | Methoxychlor | 18.3 | | 1 | 0.37 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 53494-70-5 | Endrin ketone | 18.0 | | 1 | 0.19 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 7421-93-4 | Endrin aldehyde | 17.2 | | 1 | 0.37 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 5103-71-9 | alpha-Chlordane | 16.3 | | 1 | 0.12 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 5103-74-2 | gamma-Chlordane | 16.4 | | 1 | 0.15 | 1.70 | ug/kg | 11/21/25 11:38 | PB170628 |
| 8001-35-2 | Toxaphene | 5.40 | U | 1 | 5.40 | 33.0 | ug/kg | 11/21/25 11:38 | PB170628 |
| **SURROGATES** | | | | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 23.8 | | | 30 (10) - 150 (143) | 119% | SPK: 20 | | |
| 877-09-8 | Tetrachloro-m-xylene | 22.1 | | | 30 (10) - 150 (131) | 111% | SPK: 20 | | |

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

Raw Data: **PD091279.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.0-1.0-20251117MS | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-02MS | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 84.7 |
| Sample Wt/Vol: | 30.05 g Final Vol: 10000 uL | Test: | Pesticide-TCL |
| Prep Method: | SW3541B Prep Date: 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 319-84-6 | alpha-BHC | 16.7 | | 1 | 0.15 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 319-85-7 | beta-BHC | 17.7 | | 1 | 0.21 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 319-86-8 | delta-BHC | 14.0 | | 1 | 0.46 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 58-89-9 | gamma-BHC (Lindane) | 15.8 | | 1 | 0.17 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 76-44-8 | Heptachlor | 9.80 | | 1 | 0.14 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 309-00-2 | Aldrin | 17.9 | | 1 | 0.14 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 1024-57-3 | Heptachlor epoxide | 17.4 | | 1 | 0.22 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 959-98-8 | Endosulfan I | 15.2 | | 1 | 0.17 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 60-57-1 | Dieldrin | 17.8 | | 1 | 0.17 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 72-55-9 | 4,4-DDE | 18.1 | | 1 | 0.17 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 72-20-8 | Endrin | 17.4 | | 1 | 0.17 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 33213-65-9 | Endosulfan II | 15.2 | | 1 | 0.34 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 72-54-8 | 4,4-DDD | 14.4 | | 1 | 0.18 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 1031-07-8 | Endosulfan Sulfate | 11.8 | | 1 | 0.15 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 50-29-3 | 4,4-DDT | 9.10 | | 1 | 0.17 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 72-43-5 | Methoxychlor | 8.20 | | 1 | 0.44 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 53494-70-5 | Endrin ketone | 9.40 | | 1 | 0.22 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 7421-93-4 | Endrin aldehyde | 6.40 | | 1 | 0.44 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 5103-71-9 | alpha-Chlordane | 18.1 | | 1 | 0.14 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 5103-74-2 | gamma-Chlordane | 20.5 | | 1 | 0.18 | 2.00 | ug/kg | 11/19/25 16:37 | PB170628 |
| 8001-35-2 | Toxaphene | 6.40 | U | 1 | 6.40 | 38.9 | ug/kg | 11/19/25 16:37 | PB170628 |
| **SURROGATES** | | | | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 11.0 | | | 30 (10) - 150 (143) | 55% | SPK: 20 | | |
| 877-09-8 | Tetrachloro-m-xylene | 14.7 | | | 30 (10) - 150 (131) | 74% | SPK: 20 | | |

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

Raw Data: **PD091280.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.0-1.0-20251117MSD | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-02MSD | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 84.7 |
| Sample Wt/Vol: | 30.08 g Final Vol: 10000 uL | Test: | Pesticide-TCL |
| Prep Method: | SW3541B Prep Date: 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 319-84-6 | alpha-BHC | 17.9 | | 1 | 0.15 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 319-85-7 | beta-BHC | 18.0 | | 1 | 0.21 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 319-86-8 | delta-BHC | 16.7 | | 1 | 0.46 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 58-89-9 | gamma-BHC (Lindane) | 17.3 | | 1 | 0.16 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 76-44-8 | Heptachlor | 11.0 | | 1 | 0.14 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 309-00-2 | Aldrin | 18.0 | | 1 | 0.14 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 1024-57-3 | Heptachlor epoxide | 17.6 | | 1 | 0.22 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 959-98-8 | Endosulfan I | 16.4 | | 1 | 0.16 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 60-57-1 | Dieldrin | 17.7 | | 1 | 0.16 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 72-55-9 | 4,4-DDE | 17.8 | | 1 | 0.16 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 72-20-8 | Endrin | 17.7 | | 1 | 0.16 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 33213-65-9 | Endosulfan II | 16.3 | | 1 | 0.34 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 72-54-8 | 4,4-DDD | 15.5 | | 1 | 0.18 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 1031-07-8 | Endosulfan Sulfate | 14.2 | | 1 | 0.15 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 50-29-3 | 4,4-DDT | 11.6 | | 1 | 0.16 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 72-43-5 | Methoxychlor | 10.2 | | 1 | 0.44 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 53494-70-5 | Endrin ketone | 13.4 | | 1 | 0.22 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 7421-93-4 | Endrin aldehyde | 10.0 | | 1 | 0.44 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 5103-71-9 | alpha-Chlordane | 18.1 | | 1 | 0.14 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 5103-74-2 | gamma-Chlordane | 20.2 | | 1 | 0.18 | 2.00 | ug/kg | 11/19/25 16:51 | PB170628 |
| 8001-35-2 | Toxaphene | 6.40 | U | 1 | 6.40 | 38.9 | ug/kg | 11/19/25 16:51 | PB170628 |
| **SURROGATES** | | | | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 10.7 | | | 30 (10) - 150 (143) | 53% | SPK: 20 | | |
| 877-09-8 | Tetrachloro-m-xylene | 15.3 | | | 30 (10) - 150 (131) | 77% | SPK: 20 | | |

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

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

## RETENTION TIMES OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Contract:** HDRI08
**Lab Code:** ACE
**SDG NO.:** Q3662
**Instrument ID:** ECD_D
**Calibration Date(s):** 11/14/2025 11/14/2025
**Calibration Times:** 20:56 21:51

GC Column: ZB-MR1 ID: 0.32 (mm)

**LAB FILE ID:** RT 100 = PD091196.D RT 075 = PD091197.D
RT 050 = PD091198.D RT 025 = PD091199.D RT 005 = PD091200.D

| COMPOUND | RT 100 | RT 075 | RT 050 | RT 025 | RT 005 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.70 | 6.70 | 6.70 | 6.70 | 6.70 | 6.70 | 6.60 | 6.80 |
| 4,4'-DDE | 6.19 | 6.19 | 6.19 | 6.19 | 6.19 | 6.19 | 6.09 | 6.29 |
| 4,4'-DDT | 7.01 | 7.02 | 7.01 | 7.02 | 7.01 | 7.01 | 6.91 | 7.11 |
| Aldrin | 5.26 | 5.26 | 5.26 | 5.26 | 5.26 | 5.26 | 5.16 | 5.36 |
| alpha-BHC | 3.99 | 3.99 | 3.99 | 3.99 | 3.99 | 3.99 | 3.89 | 4.09 |
| alpha-Chlordane | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 5.92 | 6.12 |
| beta-BHC | 4.51 | 4.51 | 4.51 | 4.51 | 4.51 | 4.51 | 4.41 | 4.61 |
| Decachlorobiphenyl | 9.06 | 9.06 | 9.06 | 9.07 | 9.06 | 9.06 | 8.96 | 9.16 |
| delta-BHC | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.66 | 4.86 |
| Dieldrin | 6.34 | 6.34 | 6.34 | 6.34 | 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 | 6.78 | 6.78 | 6.78 | 6.78 | 6.78 | 6.78 | 6.68 | 6.88 |
| Endosulfan sulfate | 7.14 | 7.14 | 7.14 | 7.14 | 7.14 | 7.14 | 7.04 | 7.24 |
| Endrin | 6.57 | 6.57 | 6.57 | 6.57 | 6.57 | 6.57 | 6.47 | 6.67 |
| Endrin aldehyde | 6.91 | 6.91 | 6.91 | 6.91 | 6.91 | 6.91 | 6.81 | 7.01 |
| Endrin ketone | 7.62 | 7.63 | 7.62 | 7.62 | 7.62 | 7.62 | 7.52 | 7.72 |
| gamma-BHC (Lindane) | 4.32 | 4.32 | 4.32 | 4.32 | 4.32 | 4.32 | 4.22 | 4.42 |
| 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 | 5.68 | 5.68 | 5.68 | 5.68 | 5.68 | 5.68 | 5.58 | 5.78 |
| Methoxychlor | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.39 | 7.59 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.54 | 3.54 | 3.54 | 3.54 | 3.44 | 3.64 |

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

## RETENTION TIMES OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Lab Code:** ACE
**Instrument ID:** ECD_D
**Contract:** HDRI08
**SDG NO.:** Q3662
**Calibration Date(s):** 11/14/2025 11/14/2025
**Calibration Times:** 20:56 21:51

GC Column: ZB-MR2 ID: 0.32 (mm)

**LAB FILE ID:** RT 100 = PD091196.D RT 075 = PD091197.D
RT 050 = PD091198.D RT 025 = PD091199.D RT 005 = PD091200.D

| COMPOUND | RT 100 | RT 075 | RT 050 | RT 025 | RT 005 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.92 | 5.92 | 5.92 | 5.92 | 5.92 | 5.92 | 5.82 | 6.02 |
| 4,4'-DDE | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.26 | 5.46 |
| 4,4'-DDT | 6.17 | 6.17 | 6.17 | 6.17 | 6.17 | 6.17 | 6.07 | 6.27 |
| Aldrin | 4.36 | 4.36 | 4.36 | 4.36 | 4.36 | 4.36 | 4.26 | 4.46 |
| alpha-BHC | 3.39 | 3.39 | 3.39 | 3.39 | 3.39 | 3.39 | 3.29 | 3.49 |
| alpha-Chlordane | 5.18 | 5.18 | 5.18 | 5.18 | 5.18 | 5.18 | 5.08 | 5.28 |
| beta-BHC | 4.02 | 4.02 | 4.02 | 4.02 | 4.02 | 4.02 | 3.92 | 4.12 |
| Decachlorobiphenyl | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 7.96 | 8.16 |
| delta-BHC | 4.25 | 4.25 | 4.25 | 4.25 | 4.25 | 4.25 | 4.15 | 4.35 |
| Dieldrin | 5.50 | 5.50 | 5.50 | 5.50 | 5.50 | 5.50 | 5.40 | 5.60 |
| Endosulfan I | 5.24 | 5.24 | 5.24 | 5.24 | 5.24 | 5.24 | 5.14 | 5.34 |
| Endosulfan II | 6.07 | 6.07 | 6.07 | 6.07 | 6.07 | 6.07 | 5.97 | 6.17 |
| Endosulfan sulfate | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.37 | 6.57 |
| Endrin | 5.78 | 5.78 | 5.78 | 5.78 | 5.78 | 5.78 | 5.68 | 5.88 |
| Endrin aldehyde | 6.25 | 6.25 | 6.25 | 6.25 | 6.25 | 6.25 | 6.15 | 6.35 |
| Endrin ketone | 6.98 | 6.98 | 6.98 | 6.98 | 6.98 | 6.98 | 6.88 | 7.08 |
| gamma-BHC (Lindane) | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.72 | 3.62 | 3.82 |
| gamma-Chlordane | 5.11 | 5.11 | 5.11 | 5.12 | 5.11 | 5.11 | 5.01 | 5.21 |
| Heptachlor | 4.07 | 4.07 | 4.07 | 4.07 | 4.07 | 4.07 | 3.97 | 4.17 |
| Heptachlor epoxide | 4.86 | 4.86 | 4.86 | 4.86 | 4.86 | 4.86 | 4.76 | 4.96 |
| Methoxychlor | 6.74 | 6.74 | 6.74 | 6.74 | 6.74 | 6.74 | 6.64 | 6.84 |
| Tetrachloro-m-xylene | 2.87 | 2.87 | 2.87 | 2.87 | 2.87 | 2.87 | 2.77 | 2.97 |

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

## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Lab Code:** ACE
**Instrument ID:** ECD_D

**Contract:** HDRI08
**SDG NO.:** Q3662
**Calibration Date(s):** 11/14/2025 11/14/2025
**Calibration Times:** 20:56 21:51

**GC Column:** ZB-MR1 **ID:** 0.32 (mm)

**LAB FILE ID:** CF 100 = PD091196.D CF 075 = PD091197.D
CF 050 = PD091198.D CF 025 = PD091199.D CF 005 = PD091200.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 4592720000 | 4750410000 | 4706670000 | 4762630000 | 5745110000 | 4911510000 | 10 |
| 4,4'-DDE | 5537410000 | 5724420000 | 5594750000 | 5596930000 | 6543500000 | 5799400000 | 7 |
| 4,4'-DDT | 4033900000 | 4103640000 | 4023370000 | 3973800000 | 4542840000 | 4135510000 | 6 |
| Aldrin | 6913630000 | 7108360000 | 6994820000 | 7033330000 | 8231840000 | 7256400000 | 8 |
| alpha-BHC | 7991490000 | 8120730000 | 7870330000 | 7613270000 | 8381750000 | 7995510000 | 4 |
| alpha-Chlordane | 6168980000 | 6320470000 | 6262210000 | 6530520000 | 9131880000 | 6882810000 | 18 |
| beta-BHC | 2584470000 | 2701070000 | 2721620000 | 2850470000 | 3669860000 | 2905500000 | 15 |
| Decachlorobiphenyl | 4266550000 | 4520270000 | 4633000000 | 4951710000 | 6537810000 | 4981870000 | 18 |
| delta-BHC | 7343040000 | 7477970000 | 7279360000 | 7082560000 | 7977500000 | 7432080000 | 5 |
| Dieldrin | 6112350000 | 6323390000 | 6220240000 | 6264150000 | 7404460000 | 6464920000 | 8 |
| Endosulfan I | 5622190000 | 5847020000 | 5809210000 | 5991120000 | 7445430000 | 6142990000 | 12 |
| Endosulfan II | 5022110000 | 5221970000 | 5253890000 | 5419940000 | 6878740000 | 5559330000 | 14 |
| Endosulfan sulfate | 4635330000 | 4824080000 | 4867360000 | 5023730000 | 6373440000 | 5144790000 | 14 |
| Endrin | 4763010000 | 4861760000 | 4775160000 | 4762720000 | 5654790000 | 4963490000 | 8 |
| Endrin aldehyde | 3642590000 | 3820110000 | 3882150000 | 4087850000 | 5397480000 | 4166040000 | 17 |
| Endrin ketone | 5131250000 | 5317460000 | 5324710000 | 5507230000 | 6887120000 | 5633560000 | 13 |
| gamma-BHC (Lindane) | 7349570000 | 7492470000 | 7318000000 | 7162850000 | 8041460000 | 7472870000 | 5 |
| gamma-Chlordane | 6123460000 | 6343120000 | 6211230000 | 6313670000 | 7512390000 | 6500770000 | 9 |
| Heptachlor | 6873030000 | 7051630000 | 6922840000 | 6902860000 | 8058350000 | 7161740000 | 7 |
| Heptachlor epoxide | 6045880000 | 6198590000 | 6197710000 | 6327850000 | 7713630000 | 6496730000 | 11 |
| Methoxychlor | 1967810000 | 2033910000 | 2048060000 | 2143440000 | 2678460000 | 2174340000 | 13 |
| Tetrachloro-m-xylene | 3100550000 | 3224630000 | 3262160000 | 3454950000 | 4200860000 | 3448630000 | 13 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Lab Code:** ACE
**Instrument ID:** ECD_D

**Contract:** HDRI08
**SDG NO.:** Q3662
**Calibration Date(s):** 11/14/2025 11/14/2025
**Calibration Times:** 20:56 21:51

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 100 =** PD091196.D **CF 075 =** PD091197.D
**CF 050 =** PD091198.D **CF 025 =** PD091199.D **CF 005 =** PD091200.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 42169800000 | 44652200000 | 46098100000 | 48914200000 | 62508300000 | 48868500000 | 16 |
| 4,4'-DDE | 46784900000 | 49153600000 | 50413800000 | 53041500000 | 67816900000 | 53442100000 | 16 |
| 4,4'-DDT | 36565400000 | 37844700000 | 38225900000 | 38748200000 | 44278500000 | 39132500000 | 8 |
| Aldrin | 49756900000 | 52224800000 | 53642000000 | 56183400000 | 70485000000 | 56458400000 | 14 |
| alpha-BHC | 57081100000 | 59401300000 | 60005600000 | 62092800000 | 77433200000 | 63202800000 | 13 |
| alpha-Chlordane | 46162300000 | 48496400000 | 49694800000 | 52042000000 | 65261400000 | 52331400000 | 14 |
| beta-BHC | 20855800000 | 21963600000 | 22629700000 | 23880400000 | 30805800000 | 24027100000 | 16 |
| Decachlorobiphenyl | 35391500000 | 36530600000 | 37125400000 | 38755300000 | 50071600000 | 39574900000 | 15 |
| delta-BHC | 51951800000 | 54520500000 | 55333700000 | 57523500000 | 73056200000 | 58477100000 | 14 |
| Dieldrin | 47342900000 | 49974500000 | 51581700000 | 54390600000 | 68265900000 | 54311100000 | 15 |
| Endosulfan I | 41219300000 | 43810000000 | 45334200000 | 48114600000 | 60781000000 | 47851800000 | 16 |
| Endosulfan II | 40233600000 | 42630400000 | 44155200000 | 46739900000 | 59639900000 | 46679800000 | 16 |
| Endosulfan sulfate | 38807500000 | 40991800000 | 42555300000 | 44718700000 | 57101400000 | 44834900000 | 16 |
| Endrin | 39723100000 | 41747800000 | 43010100000 | 44994600000 | 56487600000 | 45192700000 | 15 |
| Endrin aldehyde | 29904600000 | 31738200000 | 33159100000 | 35293100000 | 46350200000 | 35289100000 | 18 |
| Endrin ketone | 43743400000 | 46381200000 | 48213200000 | 51142400000 | 65299300000 | 50955900000 | 17 |
| gamma-BHC (Lindane) | 52036700000 | 54159800000 | 54955200000 | 56993600000 | 70961400000 | 57821300000 | 13 |
| gamma-Chlordane | 48541600000 | 50822000000 | 51970500000 | 54222400000 | 67580500000 | 54627400000 | 14 |
| Heptachlor | 48452800000 | 51096600000 | 52341200000 | 55061200000 | 69095300000 | 55209400000 | 15 |
| Heptachlor epoxide | 43794700000 | 46344600000 | 48042100000 | 50883900000 | 65728100000 | 50958700000 | 17 |
| Methoxychlor | 17875100000 | 18763500000 | 19368600000 | 20213700000 | 24036200000 | 20051400000 | 12 |
| Tetrachloro-m-xylene | 32274400000 | 33875900000 | 34577100000 | 36418900000 | 46004800000 | 36630200000 | 15 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Instrument ID:** ECD_D **Date(s) Analyzed:** 11/14/2025 11/14/2025

**GC Column:** ZB-MR1 **ID:** 0.32 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Toxaphene | 500 | 1 | 6.23 | 6.13 | 6.33 | 42812100 |
| | | 2 | 6.44 | 6.34 | 6.54 | 68979500 |
| | | 3 | 7.14 | 7.04 | 7.24 | 112624000 |
| | | 4 | 7.56 | 7.46 | 7.66 | 130712000 |
| | | 5 | 7.92 | 7.82 | 8.02 | 79291700 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Instrument ID:** ECD_D **Date(s) Analyzed:** 11/14/2025 11/14/2025

**GC Column:** ZB-MR2 **ID:** 0.32 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Toxaphene | 500 | 1 | 5.46 | 5.36 | 5.56 | 348471000 |
| | | 2 | 5.64 | 5.54 | 5.74 | 231072000 |
| | | 3 | 6.74 | 6.64 | 6.84 | 1091020000 |
| | | 4 | 7.19 | 7.09 | 7.29 | 705058000 |
| | | 5 | 7.32 | 7.22 | 7.42 | 442502000 |

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# CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/19/2025 **Initial Calibration Date(s):** 11/14/2025 11/14/2025

**Continuing Calib Time:** 12:24 **Initial Calibration Time(s):** 20:56 21:51

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.07 | 9.06 | 8.96 | 9.16 | -0.01 |
| Tetrachloro-m-xylene | 3.55 | 3.54 | 3.44 | 3.64 | -0.01 |
| alpha-BHC | 4.00 | 3.99 | 3.89 | 4.09 | -0.01 |
| beta-BHC | 4.52 | 4.51 | 4.41 | 4.61 | -0.01 |
| delta-BHC | 4.77 | 4.76 | 4.66 | 4.86 | 0.00 |
| gamma-BHC (Lindane) | 4.33 | 4.32 | 4.22 | 4.42 | -0.01 |
| Heptachlor | 4.93 | 4.92 | 4.82 | 5.02 | -0.01 |
| Aldrin | 5.27 | 5.26 | 5.16 | 5.36 | -0.01 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | -0.01 |
| Endosulfan I | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| Dieldrin | 6.35 | 6.34 | 6.24 | 6.44 | -0.01 |
| 4,4'-DDE | 6.20 | 6.19 | 6.09 | 6.29 | -0.01 |
| Endrin | 6.57 | 6.57 | 6.47 | 6.67 | 0.00 |
| Endosulfan II | 6.79 | 6.78 | 6.68 | 6.88 | 0.00 |
| 4,4'-DDD | 6.71 | 6.70 | 6.60 | 6.80 | 0.00 |
| Endosulfan sulfate | 7.15 | 7.14 | 7.04 | 7.24 | -0.01 |
| 4,4'-DDT | 7.02 | 7.01 | 6.91 | 7.11 | -0.01 |
| Methoxychlor | 7.49 | 7.49 | 7.39 | 7.59 | 0.00 |
| Endrin ketone | 7.63 | 7.62 | 7.52 | 7.72 | -0.01 |
| Endrin aldehyde | 6.92 | 6.91 | 6.81 | 7.01 | 0.00 |
| alpha-Chlordane | 6.03 | 6.02 | 5.92 | 6.12 | -0.01 |
| gamma-Chlordane | 5.95 | 5.94 | 5.84 | 6.04 | -0.01 |

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# CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/19/2025 **Initial Calibration Date(s):** 11/14/2025 11/14/2025

**Continuing Calib Time:** 12:24 **Initial Calibration Time(s):** 20:56 21:51

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.06 | 8.06 | 7.96 | 8.16 | 0.00 |
| Tetrachloro-m-xylene | 2.87 | 2.87 | 2.77 | 2.97 | 0.00 |
| alpha-BHC | 3.38 | 3.39 | 3.29 | 3.49 | 0.01 |
| beta-BHC | 4.02 | 4.02 | 3.92 | 4.12 | 0.01 |
| delta-BHC | 4.25 | 4.25 | 4.15 | 4.35 | 0.00 |
| gamma-BHC (Lindane) | 3.72 | 3.72 | 3.62 | 3.82 | 0.00 |
| Heptachlor | 4.07 | 4.07 | 3.97 | 4.17 | 0.00 |
| Aldrin | 4.36 | 4.36 | 4.26 | 4.46 | 0.00 |
| Heptachlor epoxide | 4.86 | 4.86 | 4.76 | 4.96 | 0.00 |
| Endosulfan I | 5.23 | 5.24 | 5.14 | 5.34 | 0.01 |
| Dieldrin | 5.50 | 5.50 | 5.40 | 5.60 | 0.00 |
| 4,4'-DDE | 5.36 | 5.36 | 5.26 | 5.46 | 0.00 |
| Endrin | 5.78 | 5.78 | 5.68 | 5.88 | 0.00 |
| Endosulfan II | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| 4,4'-DDD | 5.92 | 5.92 | 5.82 | 6.02 | 0.00 |
| Endosulfan sulfate | 6.47 | 6.47 | 6.37 | 6.57 | 0.00 |
| 4,4'-DDT | 6.17 | 6.17 | 6.07 | 6.27 | 0.00 |
| Methoxychlor | 6.74 | 6.74 | 6.64 | 6.84 | 0.00 |
| Endrin ketone | 6.98 | 6.98 | 6.88 | 7.08 | 0.00 |
| Endrin aldehyde | 6.25 | 6.25 | 6.15 | 6.35 | 0.00 |
| alpha-Chlordane | 5.18 | 5.18 | 5.08 | 5.28 | 0.00 |
| gamma-Chlordane | 5.11 | 5.11 | 5.01 | 5.21 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/14/2025 11/14/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/19/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD091266.D **Time Analyzed:** 12:24

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.705 | 6.599 | 6.799 | 45.400 | 50.000 | -9.2 |
| 4,4'-DDE | 6.195 | 6.089 | 6.289 | 46.480 | 50.000 | -7.0 |
| 4,4'-DDT | 7.021 | 6.914 | 7.114 | 53.560 | 50.000 | 7.1 |
| Aldrin | 5.268 | 5.163 | 5.363 | 46.770 | 50.000 | -6.5 |
| alpha-BHC | 3.998 | 3.893 | 4.093 | 48.290 | 50.000 | -3.4 |
| alpha-Chlordane | 6.025 | 5.919 | 6.119 | 43.990 | 50.000 | -12.0 |
| beta-BHC | 4.517 | 4.411 | 4.611 | 45.910 | 50.000 | -8.2 |
| Decachlorobiphenyl | 9.071 | 8.963 | 9.163 | 44.220 | 50.000 | -11.6 |
| delta-BHC | 4.765 | 4.660 | 4.860 | 47.940 | 50.000 | -4.1 |
| Dieldrin | 6.346 | 6.239 | 6.439 | 46.820 | 50.000 | -6.4 |
| Endosulfan I | 6.073 | 5.966 | 6.166 | 46.120 | 50.000 | -7.8 |
| Endosulfan II | 6.785 | 6.679 | 6.879 | 46.670 | 50.000 | -6.7 |
| Endosulfan sulfate | 7.150 | 7.043 | 7.243 | 45.880 | 50.000 | -8.2 |
| Endrin | 6.573 | 6.466 | 6.666 | 51.290 | 50.000 | 2.6 |
| Endrin aldehyde | 6.915 | 6.808 | 7.008 | 45.340 | 50.000 | -9.3 |
| Endrin ketone | 7.630 | 7.524 | 7.724 | 45.460 | 50.000 | -9.1 |
| gamma-BHC (Lindane) | 4.329 | 4.224 | 4.424 | 47.900 | 50.000 | -4.2 |
| gamma-Chlordane | 5.945 | 5.838 | 6.038 | 46.620 | 50.000 | -6.8 |
| Heptachlor | 4.927 | 4.821 | 5.021 | 48.920 | 50.000 | -2.2 |
| Heptachlor epoxide | 5.689 | 5.582 | 5.782 | 46.910 | 50.000 | -6.2 |
| Methoxychlor | 7.494 | 7.387 | 7.587 | 51.700 | 50.000 | 3.4 |
| Tetrachloro-m-xylene | 3.549 | 3.444 | 3.644 | 45.820 | 50.000 | -8.4 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/14/2025 11/14/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/19/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD091266.D **Time Analyzed:** 12:24

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.917 | 5.817 | 6.017 | 44.410 | 50.000 | -11.2 |
| 4,4'-DDE | 5.362 | 5.263 | 5.463 | 49.640 | 50.000 | -0.7 |
| 4,4'-DDT | 6.170 | 6.071 | 6.271 | 56.810 | 50.000 | 13.6 |
| Aldrin | 4.355 | 4.258 | 4.458 | 49.040 | 50.000 | -1.9 |
| alpha-BHC | 3.382 | 3.286 | 3.486 | 48.820 | 50.000 | -2.4 |
| alpha-Chlordane | 5.177 | 5.079 | 5.279 | 48.910 | 50.000 | -2.2 |
| beta-BHC | 4.015 | 3.918 | 4.118 | 47.690 | 50.000 | -4.6 |
| Decachlorobiphenyl | 8.058 | 7.958 | 8.158 | 51.120 | 50.000 | 2.2 |
| delta-BHC | 4.251 | 4.153 | 4.353 | 48.320 | 50.000 | -3.4 |
| Dieldrin | 5.499 | 5.401 | 5.601 | 48.080 | 50.000 | -3.8 |
| Endosulfan I | 5.234 | 5.135 | 5.335 | 45.950 | 50.000 | -8.1 |
| Endosulfan II | 6.068 | 5.969 | 6.169 | 48.860 | 50.000 | -2.3 |
| Endosulfan sulfate | 6.470 | 6.371 | 6.571 | 49.740 | 50.000 | -0.5 |
| Endrin | 5.776 | 5.678 | 5.878 | 50.960 | 50.000 | 1.9 |
| Endrin aldehyde | 6.246 | 6.148 | 6.348 | 48.150 | 50.000 | -3.7 |
| Endrin ketone | 6.979 | 6.880 | 7.080 | 47.730 | 50.000 | -4.5 |
| gamma-BHC (Lindane) | 3.718 | 3.621 | 3.821 | 48.750 | 50.000 | -2.5 |
| gamma-Chlordane | 5.112 | 5.014 | 5.214 | 49.450 | 50.000 | -1.1 |
| Heptachlor | 4.070 | 3.973 | 4.173 | 46.100 | 50.000 | -7.8 |
| Heptachlor epoxide | 4.860 | 4.762 | 4.962 | 47.970 | 50.000 | -4.1 |
| Methoxychlor | 6.741 | 6.641 | 6.841 | 52.480 | 50.000 | 5.0 |
| Tetrachloro-m-xylene | 2.870 | 2.774 | 2.974 | 48.490 | 50.000 | -3.0 |

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# CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/19/2025 **Initial Calibration Date(s):** 11/14/2025 11/14/2025

**Continuing Calib Time:** 15:55 **Initial Calibration Time(s):** 20:56 21:51

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.07 | 9.06 | 8.96 | 9.16 | -0.01 |
| Tetrachloro-m-xylene | 3.55 | 3.54 | 3.44 | 3.64 | -0.01 |
| alpha-BHC | 4.00 | 3.99 | 3.89 | 4.09 | -0.01 |
| beta-BHC | 4.52 | 4.51 | 4.41 | 4.61 | -0.01 |
| delta-BHC | 4.77 | 4.76 | 4.66 | 4.86 | 0.00 |
| gamma-BHC (Lindane) | 4.33 | 4.32 | 4.22 | 4.42 | -0.01 |
| Heptachlor | 4.93 | 4.92 | 4.82 | 5.02 | -0.01 |
| Aldrin | 5.27 | 5.26 | 5.16 | 5.36 | -0.01 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | -0.01 |
| Endosulfan I | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| Dieldrin | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 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 | 6.78 | 6.68 | 6.88 | 0.00 |
| 4,4'-DDD | 6.70 | 6.70 | 6.60 | 6.80 | 0.00 |
| Endosulfan sulfate | 7.15 | 7.14 | 7.04 | 7.24 | -0.01 |
| 4,4'-DDT | 7.02 | 7.01 | 6.91 | 7.11 | -0.01 |
| Methoxychlor | 7.49 | 7.49 | 7.39 | 7.59 | 0.00 |
| Endrin ketone | 7.63 | 7.62 | 7.52 | 7.72 | -0.01 |
| Endrin aldehyde | 6.91 | 6.91 | 6.81 | 7.01 | 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

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/19/2025 **Initial Calibration Date(s):** 11/14/2025 11/14/2025

**Continuing Calib Time:** 15:55 **Initial Calibration Time(s):** 20:56 21:51

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.06 | 8.06 | 7.96 | 8.16 | 0.00 |
| Tetrachloro-m-xylene | 2.87 | 2.87 | 2.77 | 2.97 | 0.00 |
| alpha-BHC | 3.38 | 3.39 | 3.29 | 3.49 | 0.01 |
| beta-BHC | 4.02 | 4.02 | 3.92 | 4.12 | 0.00 |
| delta-BHC | 4.25 | 4.25 | 4.15 | 4.35 | 0.00 |
| gamma-BHC (Lindane) | 3.72 | 3.72 | 3.62 | 3.82 | 0.00 |
| Heptachlor | 4.07 | 4.07 | 3.97 | 4.17 | 0.00 |
| Aldrin | 4.36 | 4.36 | 4.26 | 4.46 | 0.00 |
| Heptachlor epoxide | 4.86 | 4.86 | 4.76 | 4.96 | 0.00 |
| Endosulfan I | 5.23 | 5.24 | 5.14 | 5.34 | 0.01 |
| Dieldrin | 5.50 | 5.50 | 5.40 | 5.60 | 0.00 |
| 4,4'-DDE | 5.36 | 5.36 | 5.26 | 5.46 | 0.00 |
| Endrin | 5.78 | 5.78 | 5.68 | 5.88 | 0.00 |
| Endosulfan II | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| 4,4'-DDD | 5.92 | 5.92 | 5.82 | 6.02 | 0.00 |
| Endosulfan sulfate | 6.47 | 6.47 | 6.37 | 6.57 | 0.00 |
| 4,4'-DDT | 6.17 | 6.17 | 6.07 | 6.27 | 0.00 |
| Methoxychlor | 6.74 | 6.74 | 6.64 | 6.84 | 0.00 |
| Endrin ketone | 6.98 | 6.98 | 6.88 | 7.08 | 0.00 |
| Endrin aldehyde | 6.25 | 6.25 | 6.15 | 6.35 | 0.00 |
| alpha-Chlordane | 5.18 | 5.18 | 5.08 | 5.28 | 0.00 |
| gamma-Chlordane | 5.11 | 5.11 | 5.01 | 5.21 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/14/2025 11/14/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/19/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD091276.D **Time Analyzed:** 15:55

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.704 | 6.599 | 6.799 | 47.550 | 50.000 | -4.9 |
| 4,4'-DDE | 6.194 | 6.089 | 6.289 | 46.550 | 50.000 | -6.9 |
| 4,4'-DDT | 7.019 | 6.914 | 7.114 | 54.200 | 50.000 | 8.4 |
| Aldrin | 5.267 | 5.163 | 5.363 | 48.720 | 50.000 | -2.6 |
| alpha-BHC | 3.998 | 3.893 | 4.093 | 50.750 | 50.000 | 1.5 |
| alpha-Chlordane | 6.024 | 5.919 | 6.119 | 44.430 | 50.000 | -11.1 |
| beta-BHC | 4.517 | 4.411 | 4.611 | 46.810 | 50.000 | -6.4 |
| Decachlorobiphenyl | 9.068 | 8.963 | 9.163 | 44.010 | 50.000 | -12.0 |
| delta-BHC | 4.765 | 4.660 | 4.860 | 49.270 | 50.000 | -1.5 |
| Dieldrin | 6.344 | 6.239 | 6.439 | 46.650 | 50.000 | -6.7 |
| Endosulfan I | 6.072 | 5.966 | 6.166 | 46.560 | 50.000 | -6.9 |
| Endosulfan II | 6.785 | 6.679 | 6.879 | 46.960 | 50.000 | -6.1 |
| Endosulfan sulfate | 7.148 | 7.043 | 7.243 | 44.370 | 50.000 | -11.3 |
| Endrin | 6.572 | 6.466 | 6.666 | 51.800 | 50.000 | 3.6 |
| Endrin aldehyde | 6.914 | 6.808 | 7.008 | 46.090 | 50.000 | -7.8 |
| Endrin ketone | 7.629 | 7.524 | 7.724 | 44.830 | 50.000 | -10.3 |
| gamma-BHC (Lindane) | 4.329 | 4.224 | 4.424 | 49.790 | 50.000 | -0.4 |
| gamma-Chlordane | 5.943 | 5.838 | 6.038 | 47.790 | 50.000 | -4.4 |
| Heptachlor | 4.926 | 4.821 | 5.021 | 50.800 | 50.000 | 1.6 |
| Heptachlor epoxide | 5.688 | 5.582 | 5.782 | 46.570 | 50.000 | -6.9 |
| Methoxychlor | 7.492 | 7.387 | 7.587 | 50.800 | 50.000 | 1.6 |
| Tetrachloro-m-xylene | 3.548 | 3.444 | 3.644 | 47.810 | 50.000 | -4.4 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/14/2025 11/14/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/19/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD091276.D **Time Analyzed:** 15:55

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.917 | 5.817 | 6.017 | 44.380 | 50.000 | -11.2 |
| 4,4'-DDE | 5.362 | 5.263 | 5.463 | 49.930 | 50.000 | -0.1 |
| 4,4'-DDT | 6.171 | 6.071 | 6.271 | 55.040 | 50.000 | 10.1 |
| Aldrin | 4.357 | 4.258 | 4.458 | 50.440 | 50.000 | 0.9 |
| alpha-BHC | 3.383 | 3.286 | 3.486 | 50.650 | 50.000 | 1.3 |
| alpha-Chlordane | 5.178 | 5.079 | 5.279 | 49.970 | 50.000 | -0.1 |
| beta-BHC | 4.016 | 3.918 | 4.118 | 49.450 | 50.000 | -1.1 |
| Decachlorobiphenyl | 8.058 | 7.958 | 8.158 | 42.460 | 50.000 | -15.1 |
| delta-BHC | 4.252 | 4.153 | 4.353 | 50.080 | 50.000 | 0.2 |
| Dieldrin | 5.500 | 5.401 | 5.601 | 48.390 | 50.000 | -3.2 |
| Endosulfan I | 5.234 | 5.135 | 5.335 | 46.250 | 50.000 | -7.5 |
| Endosulfan II | 6.068 | 5.969 | 6.169 | 46.940 | 50.000 | -6.1 |
| Endosulfan sulfate | 6.471 | 6.371 | 6.571 | 47.030 | 50.000 | -5.9 |
| Endrin | 5.777 | 5.678 | 5.878 | 52.790 | 50.000 | 5.6 |
| Endrin aldehyde | 6.247 | 6.148 | 6.348 | 46.090 | 50.000 | -7.8 |
| Endrin ketone | 6.980 | 6.880 | 7.080 | 44.040 | 50.000 | -11.9 |
| gamma-BHC (Lindane) | 3.719 | 3.621 | 3.821 | 50.650 | 50.000 | 1.3 |
| gamma-Chlordane | 5.113 | 5.014 | 5.214 | 50.420 | 50.000 | 0.8 |
| Heptachlor | 4.071 | 3.973 | 4.173 | 51.390 | 50.000 | 2.8 |
| Heptachlor epoxide | 4.861 | 4.762 | 4.962 | 49.360 | 50.000 | -1.3 |
| Methoxychlor | 6.742 | 6.641 | 6.841 | 52.170 | 50.000 | 4.3 |
| Tetrachloro-m-xylene | 2.871 | 2.774 | 2.974 | 49.650 | 50.000 | -0.7 |

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# CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/19/2025 **Initial Calibration Date(s):** 11/14/2025 11/14/2025

**Continuing Calib Time:** 18:40 **Initial Calibration Time(s):** 20:56 21:51

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.06 | 8.96 | 9.16 | 0.00 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| alpha-BHC | 3.99 | 3.99 | 3.89 | 4.09 | 0.00 |
| beta-BHC | 4.51 | 4.51 | 4.41 | 4.61 | 0.00 |
| delta-BHC | 4.76 | 4.76 | 4.66 | 4.86 | 0.00 |
| gamma-BHC (Lindane) | 4.32 | 4.32 | 4.22 | 4.42 | 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 | 6.06 | 6.07 | 5.97 | 6.17 | 0.01 |
| Dieldrin | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 4,4'-DDE | 6.19 | 6.19 | 6.09 | 6.29 | 0.01 |
| Endrin | 6.56 | 6.57 | 6.47 | 6.67 | 0.01 |
| Endosulfan II | 6.78 | 6.78 | 6.68 | 6.88 | 0.00 |
| 4,4'-DDD | 6.70 | 6.70 | 6.60 | 6.80 | 0.00 |
| Endosulfan sulfate | 7.14 | 7.14 | 7.04 | 7.24 | 0.00 |
| 4,4'-DDT | 7.01 | 7.01 | 6.91 | 7.11 | 0.00 |
| Methoxychlor | 7.48 | 7.49 | 7.39 | 7.59 | 0.01 |
| Endrin ketone | 7.62 | 7.62 | 7.52 | 7.72 | 0.00 |
| Endrin aldehyde | 6.91 | 6.91 | 6.81 | 7.01 | 0.00 |
| alpha-Chlordane | 6.02 | 6.02 | 5.92 | 6.12 | 0.00 |
| gamma-Chlordane | 5.94 | 5.94 | 5.84 | 6.04 | 0.01 |

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# CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/19/2025 **Initial Calibration Date(s):** 11/14/2025 11/14/2025

**Continuing Calib Time:** 18:40 **Initial Calibration Time(s):** 20:56 21:51

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.06 | 8.06 | 7.96 | 8.16 | 0.00 |
| Tetrachloro-m-xylene | 2.87 | 2.87 | 2.77 | 2.97 | 0.00 |
| alpha-BHC | 3.38 | 3.39 | 3.29 | 3.49 | 0.01 |
| beta-BHC | 4.02 | 4.02 | 3.92 | 4.12 | 0.01 |
| delta-BHC | 4.25 | 4.25 | 4.15 | 4.35 | 0.00 |
| gamma-BHC (Lindane) | 3.72 | 3.72 | 3.62 | 3.82 | 0.00 |
| Heptachlor | 4.07 | 4.07 | 3.97 | 4.17 | 0.00 |
| Aldrin | 4.36 | 4.36 | 4.26 | 4.46 | 0.00 |
| Heptachlor epoxide | 4.86 | 4.86 | 4.76 | 4.96 | 0.00 |
| Endosulfan I | 5.23 | 5.24 | 5.14 | 5.34 | 0.01 |
| Dieldrin | 5.50 | 5.50 | 5.40 | 5.60 | 0.00 |
| 4,4'-DDE | 5.36 | 5.36 | 5.26 | 5.46 | 0.00 |
| Endrin | 5.78 | 5.78 | 5.68 | 5.88 | 0.00 |
| Endosulfan II | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| 4,4'-DDD | 5.92 | 5.92 | 5.82 | 6.02 | 0.00 |
| Endosulfan sulfate | 6.47 | 6.47 | 6.37 | 6.57 | 0.00 |
| 4,4'-DDT | 6.17 | 6.17 | 6.07 | 6.27 | 0.00 |
| Methoxychlor | 6.74 | 6.74 | 6.64 | 6.84 | 0.00 |
| Endrin ketone | 6.98 | 6.98 | 6.88 | 7.08 | 0.00 |
| Endrin aldehyde | 6.25 | 6.25 | 6.15 | 6.35 | 0.01 |
| alpha-Chlordane | 5.18 | 5.18 | 5.08 | 5.28 | 0.00 |
| gamma-Chlordane | 5.11 | 5.11 | 5.01 | 5.21 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/14/2025 11/14/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 11/19/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD091287.D **Time Analyzed:** 18:40

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.696 | 6.599 | 6.799 | 47.400 | 50.000 | -5.2 |
| 4,4'-DDE | 6.185 | 6.089 | 6.289 | 49.020 | 50.000 | -2.0 |
| 4,4'-DDT | 7.011 | 6.914 | 7.114 | 45.410 | 50.000 | -9.2 |
| Aldrin | 5.260 | 5.163 | 5.363 | 49.910 | 50.000 | -0.2 |
| alpha-BHC | 3.991 | 3.893 | 4.093 | 51.290 | 50.000 | 2.6 |
| alpha-Chlordane | 6.016 | 5.919 | 6.119 | 46.580 | 50.000 | -6.8 |
| beta-BHC | 4.509 | 4.411 | 4.611 | 49.050 | 50.000 | -1.9 |
| Decachlorobiphenyl | 9.058 | 8.963 | 9.163 | 45.850 | 50.000 | -8.3 |
| delta-BHC | 4.757 | 4.660 | 4.860 | 51.080 | 50.000 | 2.2 |
| Dieldrin | 6.336 | 6.239 | 6.439 | 49.260 | 50.000 | -1.5 |
| Endosulfan I | 6.063 | 5.966 | 6.166 | 48.840 | 50.000 | -2.3 |
| Endosulfan II | 6.775 | 6.679 | 6.879 | 47.600 | 50.000 | -4.8 |
| Endosulfan sulfate | 7.140 | 7.043 | 7.243 | 46.220 | 50.000 | -7.6 |
| Endrin | 6.563 | 6.466 | 6.666 | 52.600 | 50.000 | 5.2 |
| Endrin aldehyde | 6.905 | 6.808 | 7.008 | 47.120 | 50.000 | -5.8 |
| Endrin ketone | 7.620 | 7.524 | 7.724 | 44.920 | 50.000 | -10.2 |
| gamma-BHC (Lindane) | 4.321 | 4.224 | 4.424 | 50.760 | 50.000 | 1.5 |
| gamma-Chlordane | 5.935 | 5.838 | 6.038 | 50.120 | 50.000 | 0.2 |
| Heptachlor | 4.918 | 4.821 | 5.021 | 43.060 | 50.000 | -13.9 |
| Heptachlor epoxide | 5.679 | 5.582 | 5.782 | 49.690 | 50.000 | -0.6 |
| Methoxychlor | 7.484 | 7.387 | 7.587 | 40.550 | 50.000 | -18.9 |
| Tetrachloro-m-xylene | 3.541 | 3.444 | 3.644 | 49.280 | 50.000 | -1.4 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/14/2025 11/14/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 11/19/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD091287.D **Time Analyzed:** 18:40

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.916 | 5.817 | 6.017 | 46.580 | 50.000 | -6.8 |
| 4,4'-DDE | 5.359 | 5.263 | 5.463 | 50.570 | 50.000 | 1.1 |
| 4,4'-DDT | 6.169 | 6.071 | 6.271 | 47.190 | 50.000 | -5.6 |
| Aldrin | 4.356 | 4.258 | 4.458 | 52.190 | 50.000 | 4.4 |
| alpha-BHC | 3.383 | 3.286 | 3.486 | 50.530 | 50.000 | 1.1 |
| alpha-Chlordane | 5.177 | 5.079 | 5.279 | 50.730 | 50.000 | 1.5 |
| beta-BHC | 4.015 | 3.918 | 4.118 | 49.340 | 50.000 | -1.3 |
| Decachlorobiphenyl | 8.055 | 7.958 | 8.158 | 45.000 | 50.000 | -10.0 |
| delta-BHC | 4.251 | 4.153 | 4.353 | 50.440 | 50.000 | 0.9 |
| Dieldrin | 5.498 | 5.401 | 5.601 | 50.270 | 50.000 | 0.5 |
| Endosulfan I | 5.233 | 5.135 | 5.335 | 41.550 | 50.000 | -16.9 |
| Endosulfan II | 6.067 | 5.969 | 6.169 | 49.210 | 50.000 | -1.6 |
| Endosulfan sulfate | 6.468 | 6.371 | 6.571 | 47.980 | 50.000 | -4.0 |
| Endrin | 5.775 | 5.678 | 5.878 | 52.990 | 50.000 | 6.0 |
| Endrin aldehyde | 6.245 | 6.148 | 6.348 | 47.600 | 50.000 | -4.8 |
| Endrin ketone | 6.977 | 6.880 | 7.080 | 45.870 | 50.000 | -8.3 |
| gamma-BHC (Lindane) | 3.719 | 3.621 | 3.821 | 50.140 | 50.000 | 0.3 |
| gamma-Chlordane | 5.112 | 5.014 | 5.214 | 51.550 | 50.000 | 3.1 |
| Heptachlor | 4.070 | 3.973 | 4.173 | 44.190 | 50.000 | -11.6 |
| Heptachlor epoxide | 4.860 | 4.762 | 4.962 | 50.100 | 50.000 | 0.2 |
| Methoxychlor | 6.739 | 6.641 | 6.841 | 43.340 | 50.000 | -13.3 |
| Tetrachloro-m-xylene | 2.872 | 2.774 | 2.974 | 50.050 | 50.000 | 0.1 |

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# CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/21/2025 **Initial Calibration Date(s):** 11/14/2025 11/14/2025

**Continuing Calib Time:** 09:59 **Initial Calibration Time(s):** 20:56 21:51

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.07 | 9.06 | 8.96 | 9.16 | -0.01 |
| Tetrachloro-m-xylene | 3.55 | 3.54 | 3.44 | 3.64 | -0.01 |
| alpha-BHC | 4.00 | 3.99 | 3.89 | 4.09 | -0.01 |
| beta-BHC | 4.52 | 4.51 | 4.41 | 4.61 | 0.00 |
| delta-BHC | 4.76 | 4.76 | 4.66 | 4.86 | 0.00 |
| gamma-BHC (Lindane) | 4.33 | 4.32 | 4.22 | 4.42 | -0.01 |
| Heptachlor | 4.93 | 4.92 | 4.82 | 5.02 | -0.01 |
| Aldrin | 5.27 | 5.26 | 5.16 | 5.36 | -0.01 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | -0.01 |
| Endosulfan I | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| Dieldrin | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 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 | 6.78 | 6.78 | 6.68 | 6.88 | 0.00 |
| 4,4'-DDD | 6.70 | 6.70 | 6.60 | 6.80 | 0.00 |
| Endosulfan sulfate | 7.15 | 7.14 | 7.04 | 7.24 | -0.01 |
| 4,4'-DDT | 7.02 | 7.01 | 6.91 | 7.11 | -0.01 |
| Methoxychlor | 7.49 | 7.49 | 7.39 | 7.59 | 0.00 |
| Endrin ketone | 7.63 | 7.62 | 7.52 | 7.72 | -0.01 |
| Endrin aldehyde | 6.91 | 6.91 | 6.81 | 7.01 | 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

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/21/2025 **Initial Calibration Date(s):** 11/14/2025 11/14/2025

**Continuing Calib Time:** 09:59 **Initial Calibration Time(s):** 20:56 21:51

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.06 | 8.06 | 7.96 | 8.16 | 0.00 |
| Tetrachloro-m-xylene | 2.87 | 2.87 | 2.77 | 2.97 | 0.00 |
| alpha-BHC | 3.38 | 3.39 | 3.29 | 3.49 | 0.01 |
| beta-BHC | 4.02 | 4.02 | 3.92 | 4.12 | 0.01 |
| delta-BHC | 4.25 | 4.25 | 4.15 | 4.35 | 0.00 |
| gamma-BHC (Lindane) | 3.72 | 3.72 | 3.62 | 3.82 | 0.00 |
| Heptachlor | 4.07 | 4.07 | 3.97 | 4.17 | 0.00 |
| Aldrin | 4.36 | 4.36 | 4.26 | 4.46 | 0.00 |
| Heptachlor epoxide | 4.86 | 4.86 | 4.76 | 4.96 | 0.00 |
| Endosulfan I | 5.23 | 5.24 | 5.14 | 5.34 | 0.01 |
| Dieldrin | 5.50 | 5.50 | 5.40 | 5.60 | 0.00 |
| 4,4'-DDE | 5.36 | 5.36 | 5.26 | 5.46 | 0.00 |
| Endrin | 5.78 | 5.78 | 5.68 | 5.88 | 0.00 |
| Endosulfan II | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| 4,4'-DDD | 5.92 | 5.92 | 5.82 | 6.02 | 0.00 |
| Endosulfan sulfate | 6.47 | 6.47 | 6.37 | 6.57 | 0.00 |
| 4,4'-DDT | 6.17 | 6.17 | 6.07 | 6.27 | 0.00 |
| Methoxychlor | 6.74 | 6.74 | 6.64 | 6.84 | 0.00 |
| Endrin ketone | 6.98 | 6.98 | 6.88 | 7.08 | 0.00 |
| Endrin aldehyde | 6.25 | 6.25 | 6.15 | 6.35 | 0.00 |
| alpha-Chlordane | 5.18 | 5.18 | 5.08 | 5.28 | 0.00 |
| gamma-Chlordane | 5.11 | 5.11 | 5.01 | 5.21 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/14/2025 11/14/2025

**Client Sample No.:** CCAL04 **Date Analyzed:** 11/21/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD091330.D **Time Analyzed:** 09:59

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.703 | 6.599 | 6.799 | 46.950 | 50.000 | -6.1 |
| 4,4'-DDE | 6.192 | 6.089 | 6.289 | 45.660 | 50.000 | -8.7 |
| 4,4'-DDT | 7.018 | 6.914 | 7.114 | 51.500 | 50.000 | 3.0 |
| Aldrin | 5.266 | 5.163 | 5.363 | 46.580 | 50.000 | -6.8 |
| alpha-BHC | 3.996 | 3.893 | 4.093 | 47.740 | 50.000 | -4.5 |
| alpha-Chlordane | 6.022 | 5.919 | 6.119 | 43.730 | 50.000 | -12.5 |
| beta-BHC | 4.515 | 4.411 | 4.611 | 45.540 | 50.000 | -8.9 |
| Decachlorobiphenyl | 9.067 | 8.963 | 9.163 | 44.580 | 50.000 | -10.8 |
| delta-BHC | 4.763 | 4.660 | 4.860 | 46.810 | 50.000 | -6.4 |
| Dieldrin | 6.343 | 6.239 | 6.439 | 46.540 | 50.000 | -6.9 |
| Endosulfan I | 6.070 | 5.966 | 6.166 | 46.000 | 50.000 | -8.0 |
| Endosulfan II | 6.783 | 6.679 | 6.879 | 47.840 | 50.000 | -4.3 |
| Endosulfan sulfate | 7.147 | 7.043 | 7.243 | 45.010 | 50.000 | -10.0 |
| Endrin | 6.570 | 6.466 | 6.666 | 49.740 | 50.000 | -0.5 |
| Endrin aldehyde | 6.912 | 6.808 | 7.008 | 45.750 | 50.000 | -8.5 |
| Endrin ketone | 7.627 | 7.524 | 7.724 | 45.390 | 50.000 | -9.2 |
| gamma-BHC (Lindane) | 4.327 | 4.224 | 4.424 | 47.550 | 50.000 | -4.9 |
| gamma-Chlordane | 5.942 | 5.838 | 6.038 | 46.700 | 50.000 | -6.6 |
| Heptachlor | 4.925 | 4.821 | 5.021 | 47.780 | 50.000 | -4.4 |
| Heptachlor epoxide | 5.686 | 5.582 | 5.782 | 45.660 | 50.000 | -8.7 |
| Methoxychlor | 7.490 | 7.387 | 7.587 | 49.380 | 50.000 | -1.2 |
| Tetrachloro-m-xylene | 3.547 | 3.444 | 3.644 | 46.760 | 50.000 | -6.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/14/2025 11/14/2025

**Client Sample No.:** CCAL04 **Date Analyzed:** 11/21/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD091330.D **Time Analyzed:** 09:59

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.916 | 5.817 | 6.017 | 47.560 | 50.000 | -4.9 |
| 4,4'-DDE | 5.361 | 5.263 | 5.463 | 52.100 | 50.000 | 4.2 |
| 4,4'-DDT | 6.170 | 6.071 | 6.271 | 57.520 | 50.000 | 15.0 |
| Aldrin | 4.355 | 4.258 | 4.458 | 51.390 | 50.000 | 2.8 |
| alpha-BHC | 3.382 | 3.286 | 3.486 | 49.980 | 50.000 | 0.0 |
| alpha-Chlordane | 5.177 | 5.079 | 5.279 | 51.010 | 50.000 | 2.0 |
| beta-BHC | 4.015 | 3.918 | 4.118 | 48.850 | 50.000 | -2.3 |
| Decachlorobiphenyl | 8.057 | 7.958 | 8.158 | 53.570 | 50.000 | 7.1 |
| delta-BHC | 4.251 | 4.153 | 4.353 | 50.060 | 50.000 | 0.1 |
| Dieldrin | 5.499 | 5.401 | 5.601 | 50.690 | 50.000 | 1.4 |
| Endosulfan I | 5.233 | 5.135 | 5.335 | 46.120 | 50.000 | -7.8 |
| Endosulfan II | 6.068 | 5.969 | 6.169 | 50.500 | 50.000 | 1.0 |
| Endosulfan sulfate | 6.470 | 6.371 | 6.571 | 51.030 | 50.000 | 2.1 |
| Endrin | 5.776 | 5.678 | 5.878 | 54.950 | 50.000 | 9.9 |
| Endrin aldehyde | 6.246 | 6.148 | 6.348 | 50.390 | 50.000 | 0.8 |
| Endrin ketone | 6.979 | 6.880 | 7.080 | 50.620 | 50.000 | 1.2 |
| gamma-BHC (Lindane) | 3.718 | 3.621 | 3.821 | 50.120 | 50.000 | 0.2 |
| gamma-Chlordane | 5.112 | 5.014 | 5.214 | 51.320 | 50.000 | 2.6 |
| Heptachlor | 4.070 | 3.973 | 4.173 | 50.340 | 50.000 | 0.7 |
| Heptachlor epoxide | 4.859 | 4.762 | 4.962 | 50.450 | 50.000 | 0.9 |
| Methoxychlor | 6.741 | 6.641 | 6.841 | 55.330 | 50.000 | 10.7 |
| Tetrachloro-m-xylene | 2.870 | 2.774 | 2.974 | 50.920 | 50.000 | 1.8 |

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# CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/21/2025 **Initial Calibration Date(s):** 11/14/2025 11/14/2025

**Continuing Calib Time:** 15:02 **Initial Calibration Time(s):** 20:56 21:51

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.06 | 8.96 | 9.16 | 0.00 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| alpha-BHC | 3.99 | 3.99 | 3.89 | 4.09 | 0.00 |
| beta-BHC | 4.51 | 4.51 | 4.41 | 4.61 | 0.00 |
| delta-BHC | 4.76 | 4.76 | 4.66 | 4.86 | 0.00 |
| gamma-BHC (Lindane) | 4.32 | 4.32 | 4.22 | 4.42 | 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 | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 4,4'-DDE | 6.19 | 6.19 | 6.09 | 6.29 | 0.00 |
| Endrin | 6.56 | 6.57 | 6.47 | 6.67 | 0.01 |
| Endosulfan II | 6.78 | 6.78 | 6.68 | 6.88 | 0.00 |
| 4,4'-DDD | 6.70 | 6.70 | 6.60 | 6.80 | 0.00 |
| Endosulfan sulfate | 7.14 | 7.14 | 7.04 | 7.24 | 0.00 |
| 4,4'-DDT | 7.01 | 7.01 | 6.91 | 7.11 | 0.00 |
| Methoxychlor | 7.49 | 7.49 | 7.39 | 7.59 | 0.00 |
| Endrin ketone | 7.62 | 7.62 | 7.52 | 7.72 | 0.00 |
| Endrin aldehyde | 6.91 | 6.91 | 6.81 | 7.01 | 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

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/21/2025 **Initial Calibration Date(s):** 11/14/2025 11/14/2025

**Continuing Calib Time:** 15:02 **Initial Calibration Time(s):** 20:56 21:51

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.06 | 8.06 | 7.96 | 8.16 | 0.00 |
| Tetrachloro-m-xylene | 2.87 | 2.87 | 2.77 | 2.97 | 0.00 |
| alpha-BHC | 3.38 | 3.39 | 3.29 | 3.49 | 0.01 |
| beta-BHC | 4.02 | 4.02 | 3.92 | 4.12 | 0.00 |
| delta-BHC | 4.25 | 4.25 | 4.15 | 4.35 | 0.00 |
| gamma-BHC (Lindane) | 3.72 | 3.72 | 3.62 | 3.82 | 0.00 |
| Heptachlor | 4.07 | 4.07 | 3.97 | 4.17 | 0.00 |
| Aldrin | 4.36 | 4.36 | 4.26 | 4.46 | 0.00 |
| Heptachlor epoxide | 4.86 | 4.86 | 4.76 | 4.96 | 0.00 |
| Endosulfan I | 5.23 | 5.24 | 5.14 | 5.34 | 0.01 |
| Dieldrin | 5.50 | 5.50 | 5.40 | 5.60 | 0.00 |
| 4,4'-DDE | 5.36 | 5.36 | 5.26 | 5.46 | 0.00 |
| Endrin | 5.78 | 5.78 | 5.68 | 5.88 | 0.00 |
| Endosulfan II | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| 4,4'-DDD | 5.92 | 5.92 | 5.82 | 6.02 | 0.00 |
| Endosulfan sulfate | 6.47 | 6.47 | 6.37 | 6.57 | 0.00 |
| 4,4'-DDT | 6.17 | 6.17 | 6.07 | 6.27 | 0.00 |
| Methoxychlor | 6.74 | 6.74 | 6.64 | 6.84 | 0.00 |
| Endrin ketone | 6.98 | 6.98 | 6.88 | 7.08 | 0.00 |
| Endrin aldehyde | 6.25 | 6.25 | 6.15 | 6.35 | 0.01 |
| alpha-Chlordane | 5.18 | 5.18 | 5.08 | 5.28 | 0.00 |
| gamma-Chlordane | 5.11 | 5.11 | 5.01 | 5.21 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/14/2025 11/14/2025

**Client Sample No.:** CCAL05 **Date Analyzed:** 11/21/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD091346.D **Time Analyzed:** 15:02

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.697 | 6.599 | 6.799 | 44.820 | 50.000 | -10.4 |
| 4,4'-DDE | 6.187 | 6.089 | 6.289 | 45.120 | 50.000 | -9.8 |
| 4,4'-DDT | 7.012 | 6.914 | 7.114 | 46.980 | 50.000 | -6.0 |
| Aldrin | 5.261 | 5.163 | 5.363 | 47.090 | 50.000 | -5.8 |
| alpha-BHC | 3.991 | 3.893 | 4.093 | 49.170 | 50.000 | -1.7 |
| alpha-Chlordane | 6.017 | 5.919 | 6.119 | 43.570 | 50.000 | -12.9 |
| beta-BHC | 4.510 | 4.411 | 4.611 | 46.650 | 50.000 | -6.7 |
| Decachlorobiphenyl | 9.060 | 8.963 | 9.163 | 44.030 | 50.000 | -11.9 |
| delta-BHC | 4.757 | 4.660 | 4.860 | 47.890 | 50.000 | -4.2 |
| Dieldrin | 6.337 | 6.239 | 6.439 | 45.950 | 50.000 | -8.1 |
| Endosulfan I | 6.065 | 5.966 | 6.166 | 45.640 | 50.000 | -8.7 |
| Endosulfan II | 6.778 | 6.679 | 6.879 | 46.130 | 50.000 | -7.7 |
| Endosulfan sulfate | 7.141 | 7.043 | 7.243 | 43.990 | 50.000 | -12.0 |
| Endrin | 6.564 | 6.466 | 6.666 | 48.220 | 50.000 | -3.6 |
| Endrin aldehyde | 6.907 | 6.808 | 7.008 | 44.300 | 50.000 | -11.4 |
| Endrin ketone | 7.622 | 7.524 | 7.724 | 44.590 | 50.000 | -10.8 |
| gamma-BHC (Lindane) | 4.322 | 4.224 | 4.424 | 48.670 | 50.000 | -2.7 |
| gamma-Chlordane | 5.936 | 5.838 | 6.038 | 46.560 | 50.000 | -6.9 |
| Heptachlor | 4.920 | 4.821 | 5.021 | 47.020 | 50.000 | -6.0 |
| Heptachlor epoxide | 5.681 | 5.582 | 5.782 | 46.060 | 50.000 | -7.9 |
| Methoxychlor | 7.485 | 7.387 | 7.587 | 45.250 | 50.000 | -9.5 |
| Tetrachloro-m-xylene | 3.542 | 3.444 | 3.644 | 48.720 | 50.000 | -2.6 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/14/2025 11/14/2025

**Client Sample No.:** CCAL05 **Date Analyzed:** 11/21/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD091346.D **Time Analyzed:** 15:02

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.916 | 5.817 | 6.017 | 46.710 | 50.000 | -6.6 |
| 4,4'-DDE | 5.361 | 5.263 | 5.463 | 51.760 | 50.000 | 3.5 |
| 4,4'-DDT | 6.169 | 6.071 | 6.271 | 51.010 | 50.000 | 2.0 |
| Aldrin | 4.356 | 4.258 | 4.458 | 51.780 | 50.000 | 3.6 |
| alpha-BHC | 3.383 | 3.286 | 3.486 | 50.870 | 50.000 | 1.7 |
| alpha-Chlordane | 5.177 | 5.079 | 5.279 | 50.680 | 50.000 | 1.4 |
| beta-BHC | 4.016 | 3.918 | 4.118 | 49.500 | 50.000 | -1.0 |
| Decachlorobiphenyl | 8.057 | 7.958 | 8.158 | 46.720 | 50.000 | -6.6 |
| delta-BHC | 4.252 | 4.153 | 4.353 | 50.400 | 50.000 | 0.8 |
| Dieldrin | 5.499 | 5.401 | 5.601 | 49.980 | 50.000 | 0.0 |
| Endosulfan I | 5.233 | 5.135 | 5.335 | 45.700 | 50.000 | -8.6 |
| Endosulfan II | 6.068 | 5.969 | 6.169 | 48.430 | 50.000 | -3.1 |
| Endosulfan sulfate | 6.469 | 6.371 | 6.571 | 47.930 | 50.000 | -4.1 |
| Endrin | 5.776 | 5.678 | 5.878 | 52.950 | 50.000 | 5.9 |
| Endrin aldehyde | 6.245 | 6.148 | 6.348 | 47.330 | 50.000 | -5.3 |
| Endrin ketone | 6.978 | 6.880 | 7.080 | 47.250 | 50.000 | -5.5 |
| gamma-BHC (Lindane) | 3.720 | 3.621 | 3.821 | 50.920 | 50.000 | 1.8 |
| gamma-Chlordane | 5.112 | 5.014 | 5.214 | 51.090 | 50.000 | 2.2 |
| Heptachlor | 4.071 | 3.973 | 4.173 | 50.530 | 50.000 | 1.1 |
| Heptachlor epoxide | 4.859 | 4.762 | 4.962 | 50.040 | 50.000 | 0.1 |
| Methoxychlor | 6.740 | 6.641 | 6.841 | 48.840 | 50.000 | -2.3 |
| Tetrachloro-m-xylene | 2.872 | 2.774 | 2.974 | 51.680 | 50.000 | 3.4 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/14/2025 11/14/2025

**Client Sample No. (PEM):** PEM - PD091194.D **Date Analyzed:** 11/14/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 20:15

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.064 | 8.960 | 9.160 | 20.170 | 20.000 | 0.9 |
| Tetrachloro-m-xylene | 3.544 | 3.490 | 3.590 | 19.500 | 20.000 | -2.5 |
| alpha-BHC | 3.993 | 3.940 | 4.040 | 8.250 | 10.000 | -17.5 |
| beta-BHC | 4.511 | 4.460 | 4.560 | 9.240 | 10.000 | -7.6 |
| gamma-BHC (Lindane) | 4.324 | 4.270 | 4.370 | 8.450 | 10.000 | -15.5 |
| Endrin | 6.567 | 6.500 | 6.640 | 44.390 | 50.000 | -11.2 |
| 4,4'-DDT | 7.015 | 6.940 | 7.090 | 88.290 | 100.000 | -11.7 |
| Methoxychlor | 7.487 | 7.420 | 7.560 | 207.040 | 250.000 | -17.2 |

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/14/2025 11/14/2025

**Client Sample No. (PEM):** PEM - PD091194.D **Date Analyzed:** 11/14/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 20:15

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.059 | 7.960 | 8.160 | 19.620 | 20.000 | -1.9 |
| Tetrachloro-m-xylene | 2.874 | 2.820 | 2.920 | 19.370 | 20.000 | -3.2 |
| alpha-BHC | 3.385 | 3.330 | 3.440 | 9.380 | 10.000 | -6.2 |
| beta-BHC | 4.018 | 3.970 | 4.070 | 9.530 | 10.000 | -4.7 |
| gamma-BHC (Lindane) | 3.721 | 3.670 | 3.770 | 9.460 | 10.000 | -5.4 |
| Endrin | 5.779 | 5.710 | 5.850 | 45.450 | 50.000 | -9.1 |
| 4,4'-DDT | 6.172 | 6.100 | 6.240 | 89.340 | 100.000 | -10.7 |
| Methoxychlor | 6.742 | 6.670 | 6.810 | 186.630 | 250.000 | -25.3 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/14/2025 11/14/2025

**Client Sample No. (PEM):** PEM - PD091265.D **Date Analyzed:** 11/19/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 09:19

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.059 | 8.960 | 9.160 | 17.850 | 20.000 | -10.8 |
| Tetrachloro-m-xylene | 3.541 | 3.490 | 3.590 | 18.480 | 20.000 | -7.6 |
| alpha-BHC | 3.990 | 3.940 | 4.040 | 7.760 | 10.000 | -22.4 |
| beta-BHC | 4.509 | 4.460 | 4.560 | 9.000 | 10.000 | -10.0 |
| gamma-BHC (Lindane) | 4.321 | 4.270 | 4.370 | 8.120 | 10.000 | -18.8 |
| Endrin | 6.564 | 6.490 | 6.630 | 45.570 | 50.000 | -8.9 |
| 4,4'-DDT | 7.012 | 6.940 | 7.080 | 94.380 | 100.000 | -5.6 |
| Methoxychlor | 7.485 | 7.410 | 7.560 | 217.780 | 250.000 | -12.9 |

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/14/2025 11/14/2025

**Client Sample No. (PEM):** PEM - PD091265.D **Date Analyzed:** 11/19/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 09:19

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.054 | 7.950 | 8.150 | 20.630 | 20.000 | 3.2 |
| Tetrachloro-m-xylene | 2.871 | 2.820 | 2.920 | 19.510 | 20.000 | -2.5 |
| alpha-BHC | 3.382 | 3.330 | 3.430 | 9.470 | 10.000 | -5.3 |
| beta-BHC | 4.015 | 3.960 | 4.070 | 9.800 | 10.000 | -2.0 |
| gamma-BHC (Lindane) | 3.718 | 3.670 | 3.770 | 9.630 | 10.000 | -3.7 |
| Endrin | 5.774 | 5.700 | 5.840 | 48.970 | 50.000 | -2.1 |
| 4,4'-DDT | 6.168 | 6.100 | 6.240 | 104.260 | 100.000 | 4.3 |
| Methoxychlor | 6.738 | 6.670 | 6.810 | 207.550 | 250.000 | -17.0 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/14/2025 11/14/2025

**Client Sample No. (PEM):** PEM - PD091329.D **Date Analyzed:** 11/21/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 09:25

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.061 | 8.960 | 9.160 | 20.200 | 20.000 | 1.0 |
| Tetrachloro-m-xylene | 3.542 | 3.490 | 3.590 | 19.870 | 20.000 | -0.7 |
| alpha-BHC | 3.991 | 3.940 | 4.040 | 8.450 | 10.000 | -15.5 |
| beta-BHC | 4.509 | 4.460 | 4.560 | 9.670 | 10.000 | -3.3 |
| gamma-BHC (Lindane) | 4.322 | 4.270 | 4.370 | 8.700 | 10.000 | -13.0 |
| Endrin | 6.564 | 6.490 | 6.630 | 48.110 | 50.000 | -3.8 |
| 4,4'-DDT | 7.012 | 6.940 | 7.080 | 96.830 | 100.000 | -3.2 |
| Methoxychlor | 7.485 | 7.410 | 7.560 | 223.950 | 250.000 | -10.4 |

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/14/2025 11/14/2025

**Client Sample No. (PEM):** PEM - PD091329.D **Date Analyzed:** 11/21/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 09:25

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.055 | 7.950 | 8.160 | 23.100 | 20.000 | 15.5 |
| Tetrachloro-m-xylene | 2.871 | 2.820 | 2.920 | 21.540 | 20.000 | 7.7 |
| alpha-BHC | 3.382 | 3.330 | 3.430 | 10.420 | 10.000 | 4.2 |
| beta-BHC | 4.015 | 3.960 | 4.070 | 10.650 | 10.000 | 6.5 |
| gamma-BHC (Lindane) | 3.718 | 3.670 | 3.770 | 10.590 | 10.000 | 5.9 |
| Endrin | 5.775 | 5.700 | 5.850 | 52.460 | 50.000 | 4.9 |
| 4,4'-DDT | 6.169 | 6.100 | 6.240 | 108.340 | 100.000 | 8.3 |
| Methoxychlor | 6.739 | 6.670 | 6.810 | 216.520 | 250.000 | -13.4 |

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# Analytical Sequence

**Client:** HDR, Inc. **SDG No.:** Q3662

**Project:** PVWC Linear Construction **Instrument ID:** ECD_D

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/14/2025 11/14/2025

**THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:**

| CLIENT ID | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 11/14/2025 | 20:01 | PD091193.D | 9.06 | 3.54 |
| PEM | PEM | 11/14/2025 | 20:15 | PD091194.D | 9.06 | 3.54 |
| RESCHK | RESCHK | 11/14/2025 | 20:43 | PD091195.D | 9.06 | 3.54 |
| PSTDICC100 | PSTDICC100 | 11/14/2025 | 20:56 | PD091196.D | 9.06 | 3.54 |
| PSTDICC075 | PSTDICC075 | 11/14/2025 | 21:10 | PD091197.D | 9.06 | 3.54 |
| PSTDICC050 | PSTDICC050 | 11/14/2025 | 21:24 | PD091198.D | 9.06 | 3.54 |
| PSTDICC025 | PSTDICC025 | 11/14/2025 | 21:37 | PD091199.D | 9.07 | 3.54 |
| PSTDICC005 | PSTDICC005 | 11/14/2025 | 21:51 | PD091200.D | 9.06 | 3.54 |
| PCHLORICC500 | PCHLORICC500 | 11/14/2025 | 22:32 | PD091203.D | 9.06 | 3.54 |
| PTOXICC500 | PTOXICC500 | 11/14/2025 | 23:40 | PD091208.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 11/19/2025 | 09:05 | PD091264.D | 9.06 | 3.54 |
| PEM | PEM | 11/19/2025 | 09:19 | PD091265.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/19/2025 | 12:24 | PD091266.D | 9.07 | 3.55 |
| PB170628BL | PB170628BL | 11/19/2025 | 14:07 | PD091270.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 11/19/2025 | 15:16 | PD091275.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/19/2025 | 15:55 | PD091276.D | 9.07 | 3.55 |
| B3-0.0-1.0-20251117 | Q3662-02 | 11/19/2025 | 16:24 | PD091278.D | 9.06 | 3.54 |
| B3-0.0-1.0-20251117MS | Q3662-02MS | 11/19/2025 | 16:37 | PD091279.D | 9.06 | 3.54 |
| B3-0.0-1.0-20251117MSD | Q3662-02MSD | 11/19/2025 | 16:51 | PD091280.D | 9.06 | 3.54 |
| B1-0.0-1.0-20251117 | Q3662-04 | 11/19/2025 | 17:05 | PD091281.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 11/19/2025 | 17:59 | PD091285.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/19/2025 | 18:40 | PD091287.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 11/21/2025 | 09:11 | PD091328.D | 9.07 | 3.55 |
| PEM | PEM | 11/21/2025 | 09:25 | PD091329.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/21/2025 | 09:59 | PD091330.D | 9.07 | 3.55 |
| PB170628BS | PB170628BS | 11/21/2025 | 11:38 | PD091334.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 11/21/2025 | 14:48 | PD091345.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/21/2025 | 15:02 | PD091346.D | 9.06 | 3.54 |

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# Analytical Sequence

**Client:** HDR, Inc. **SDG No.:** Q3662

**Project:** PVWC Linear Construction **Instrument ID:** ECD_D

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/14/2025 11/14/2025

**THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:**

| CLIENT ID | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 11/14/2025 | 20:01 | PD091193.D | 8.06 | 2.88 |
| PEM | PEM | 11/14/2025 | 20:15 | PD091194.D | 8.06 | 2.87 |
| RESCHK | RESCHK | 11/14/2025 | 20:43 | PD091195.D | 8.06 | 2.87 |
| PSTDICC100 | PSTDICC100 | 11/14/2025 | 20:56 | PD091196.D | 8.06 | 2.87 |
| PSTDICC075 | PSTDICC075 | 11/14/2025 | 21:10 | PD091197.D | 8.06 | 2.87 |
| PSTDICC050 | PSTDICC050 | 11/14/2025 | 21:24 | PD091198.D | 8.06 | 2.87 |
| PSTDICC025 | PSTDICC025 | 11/14/2025 | 21:37 | PD091199.D | 8.06 | 2.87 |
| PSTDICC005 | PSTDICC005 | 11/14/2025 | 21:51 | PD091200.D | 8.06 | 2.87 |
| PCHLORICC500 | PCHLORICC500 | 11/14/2025 | 22:32 | PD091203.D | 8.06 | 2.87 |
| PTOXICC500 | PTOXICC500 | 11/14/2025 | 23:40 | PD091208.D | 8.06 | 2.87 |
| I.BLK | I.BLK | 11/19/2025 | 09:05 | PD091264.D | 8.06 | 2.87 |
| PEM | PEM | 11/19/2025 | 09:19 | PD091265.D | 8.05 | 2.87 |
| PSTDCCC050 | PSTDCCC050 | 11/19/2025 | 12:24 | PD091266.D | 8.06 | 2.87 |
| PB170628BL | PB170628BL | 11/19/2025 | 14:07 | PD091270.D | 8.06 | 2.87 |
| I.BLK | I.BLK | 11/19/2025 | 15:16 | PD091275.D | 8.06 | 2.87 |
| PSTDCCC050 | PSTDCCC050 | 11/19/2025 | 15:55 | PD091276.D | 8.06 | 2.87 |
| B3-0.0-1.0-20251117 | Q3662-02 | 11/19/2025 | 16:24 | PD091278.D | 8.06 | 2.87 |
| B3-0.0-1.0-20251117MS | Q3662-02MS | 11/19/2025 | 16:37 | PD091279.D | 8.06 | 2.87 |
| B3-0.0-1.0-20251117MSD | Q3662-02MSD | 11/19/2025 | 16:51 | PD091280.D | 8.05 | 2.87 |
| B1-0.0-1.0-20251117 | Q3662-04 | 11/19/2025 | 17:05 | PD091281.D | 8.06 | 2.87 |
| I.BLK | I.BLK | 11/19/2025 | 17:59 | PD091285.D | 8.06 | 2.87 |
| PSTDCCC050 | PSTDCCC050 | 11/19/2025 | 18:40 | PD091287.D | 8.06 | 2.87 |
| I.BLK | I.BLK | 11/21/2025 | 09:11 | PD091328.D | 8.06 | 2.87 |
| PEM | PEM | 11/21/2025 | 09:25 | PD091329.D | 8.06 | 2.87 |
| PSTDCCC050 | PSTDCCC050 | 11/21/2025 | 09:59 | PD091330.D | 8.06 | 2.87 |
| PB170628BS | PB170628BS | 11/21/2025 | 11:38 | PD091334.D | 8.06 | 2.87 |
| I.BLK | I.BLK | 11/21/2025 | 14:48 | PD091345.D | 8.06 | 2.87 |
| PSTDCCC050 | PSTDCCC050 | 11/21/2025 | 15:02 | PD091346.D | 8.06 | 2.87 |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**B1-0.0-1.0-20251117**

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Lab Sample ID:** Q3662-04 **Date(s) Analyzed:** 11/19/2025 11/19/2025

**Instrument ID (1):** ECD_D **Instrument ID (2):** ECD_D

**GC Column: (1):** ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 2.50 | 142.1 |
| | 2 | 5.11 | 5.06 | 5.16 | 0.42 | |
| alpha-Chlordane | 1 | 6.03 | 5.98 | 6.08 | 6.80 | 140 |
| | 2 | 5.18 | 5.13 | 5.23 | 1.20 | |
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 0.34 | 41.7 |
| | 2 | 5.36 | 5.31 | 5.41 | 0.53 | |
| 4,4'-DDT | 1 | 7.01 | 6.96 | 7.06 | 0.50 | 81.9 |
| | 2 | 6.17 | 6.12 | 6.22 | 1.20 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**B3-0.0-1.0-20251117**

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Lab Sample ID:** Q3662-02 **Date(s) Analyzed:** 11/19/2025 11/19/2025

**Instrument ID (1):** ECD_D **Instrument ID (2):** ECD_D

**GC Column: (1):** ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| 4,4'-DDT | 1 | 7.01 | 6.96 | 7.06 | 0.21 | 116.2 |
| | 2 | 6.17 | 6.12 | 6.22 | 0.79 | |
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 0.26 | 32.9 |
| | 2 | 5.36 | 5.31 | 5.41 | 0.36 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**B3-0.0-1.0-20251117MS**

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Lab Sample ID:** Q3662-02MS **Date(s) Analyzed:** 11/19/2025 11/19/2025

**Instrument ID (1):** ECD_D **Instrument ID (2):** ECD_D

**GC Column: (1):** ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan II | 1 | 6.78 | 6.73 | 6.83 | 15.0 | 1.3 |
| | 2 | 6.07 | 6.02 | 6.12 | 15.2 | |
| 4,4'-DDD | 1 | 6.70 | 6.65 | 6.75 | 14.4 | 11 |
| | 2 | 5.92 | 5.87 | 5.97 | 12.9 | |
| 4,4'-DDT | 1 | 7.01 | 6.96 | 7.06 | 8.40 | 8 |
| | 2 | 6.17 | 6.12 | 6.22 | 9.10 | |
| Endrin aldehyde | 1 | 6.91 | 6.86 | 6.96 | 6.40 | 1.6 |
| | 2 | 6.25 | 6.20 | 6.30 | 6.30 | |
| Endosulfan sulfate | 1 | 7.14 | 7.09 | 7.19 | 11.8 | 4.3 |
| | 2 | 6.47 | 6.42 | 6.52 | 11.3 | |
| Methoxychlor | 1 | 7.49 | 7.44 | 7.54 | 8.20 | 5 |
| | 2 | 6.74 | 6.69 | 6.79 | 7.80 | |
| Endrin ketone | 1 | 7.62 | 7.57 | 7.67 | 9.40 | 6.6 |
| | 2 | 6.98 | 6.93 | 7.03 | 8.80 | |
| alpha-BHC | 1 | 3.99 | 3.94 | 4.04 | 16.3 | 2.4 |
| | 2 | 3.38 | 3.33 | 3.43 | 16.7 | |
| gamma-BHC (Lindane) | 1 | 4.32 | 4.27 | 4.37 | 15.7 | 0.6 |
| | 2 | 3.72 | 3.67 | 3.77 | 15.8 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 9.20 | 6.3 |
| | 2 | 4.07 | 4.02 | 4.12 | 9.80 | |
| Aldrin | 1 | 5.26 | 5.21 | 5.31 | 17.4 | 2.8 |
| | 2 | 4.36 | 4.31 | 4.41 | 17.9 | |
| beta-BHC | 1 | 4.51 | 4.46 | 4.56 | 17.2 | 2.9 |
| | 2 | 4.02 | 3.97 | 4.07 | 17.7 | |
| delta-BHC | 1 | 4.76 | 4.71 | 4.81 | 14.0 | 0 |
| | 2 | 4.25 | 4.20 | 4.30 | 14.0 | |
| Heptachlor epoxide | 1 | 5.68 | 5.63 | 5.73 | 17.1 | 1.7 |
| | 2 | 4.86 | 4.81 | 4.91 | 17.4 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**B3-0.0-1.0-20251117MS**

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Lab Sample ID:** Q3662-02MS **Date(s) Analyzed:** 11/19/2025 11/19/2025

**Instrument ID (1):** ECD_D **Instrument ID (2):** ECD_D

**GC Column: (1):** ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan I | 1 | 6.06 | 6.01 | 6.11 | 15.2 | 3.3 |
| | 2 | 5.23 | 5.18 | 5.28 | 14.7 | |
| gamma-Chlordane | 1 | 5.93 | 5.88 | 5.98 | 17.9 | 13.5 |
| | 2 | 5.11 | 5.06 | 5.16 | 20.5 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 18.0 | 0.6 |
| | 2 | 5.18 | 5.13 | 5.23 | 18.1 | |
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 17.5 | 3.4 |
| | 2 | 5.36 | 5.31 | 5.41 | 18.1 | |
| Dieldrin | 1 | 6.34 | 6.29 | 6.39 | 16.7 | 6.4 |
| | 2 | 5.50 | 5.45 | 5.55 | 17.8 | |
| Endrin | 1 | 6.56 | 6.51 | 6.61 | 17.4 | 7.1 |
| | 2 | 5.78 | 5.73 | 5.83 | 16.2 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**B3-0.0-1.0-20251117MSD**

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Lab Sample ID:** Q3662-02MSD **Date(s) Analyzed:** 11/19/2025 11/19/2025

**Instrument ID (1):** ECD_D **Instrument ID (2):** ECD_D

**GC Column: (1):** ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan II | 1 | 6.78 | 6.73 | 6.83 | 16.2 | 0.6 |
| | 2 | 6.07 | 6.02 | 6.12 | 16.3 | |
| 4,4'-DDD | 1 | 6.70 | 6.65 | 6.75 | 15.5 | 10.2 |
| | 2 | 5.92 | 5.87 | 5.97 | 14.0 | |
| 4,4'-DDT | 1 | 7.01 | 6.96 | 7.06 | 11.6 | 0.9 |
| | 2 | 6.17 | 6.12 | 6.22 | 11.5 | |
| Endrin aldehyde | 1 | 6.91 | 6.86 | 6.96 | 10.0 | 1 |
| | 2 | 6.25 | 6.20 | 6.30 | 9.90 | |
| Endosulfan sulfate | 1 | 7.14 | 7.09 | 7.19 | 14.2 | 4.3 |
| | 2 | 6.47 | 6.42 | 6.52 | 13.6 | |
| Methoxychlor | 1 | 7.48 | 7.43 | 7.53 | 10.2 | 7.1 |
| | 2 | 6.74 | 6.69 | 6.79 | 9.50 | |
| Endrin ketone | 1 | 7.62 | 7.57 | 7.67 | 13.4 | 12.7 |
| | 2 | 6.98 | 6.93 | 7.03 | 11.8 | |
| alpha-BHC | 1 | 3.99 | 3.94 | 4.04 | 17.6 | 1.7 |
| | 2 | 3.38 | 3.33 | 3.43 | 17.9 | |
| gamma-BHC (Lindane) | 1 | 4.32 | 4.27 | 4.37 | 17.2 | 0.6 |
| | 2 | 3.72 | 3.67 | 3.77 | 17.3 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 10.3 | 6.6 |
| | 2 | 4.07 | 4.02 | 4.12 | 11.0 | |
| Aldrin | 1 | 5.26 | 5.21 | 5.31 | 17.5 | 2.8 |
| | 2 | 4.36 | 4.31 | 4.41 | 18.0 | |
| beta-BHC | 1 | 4.51 | 4.46 | 4.56 | 17.2 | 4.5 |
| | 2 | 4.02 | 3.97 | 4.07 | 18.0 | |
| delta-BHC | 1 | 4.76 | 4.71 | 4.81 | 16.7 | 0 |
| | 2 | 4.25 | 4.20 | 4.30 | 16.7 | |
| Heptachlor epoxide | 1 | 5.68 | 5.63 | 5.73 | 16.9 | 4.1 |
| | 2 | 4.86 | 4.81 | 4.91 | 17.6 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**B3-0.0-1.0-20251117MSD**

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Lab Sample ID:** Q3662-02MSD **Date(s) Analyzed:** 11/19/2025 11/19/2025

**Instrument ID (1):** ECD_D **Instrument ID (2):** ECD_D

**GC Column: (1):** ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan I | 1 | 6.06 | 6.01 | 6.11 | 16.4 | 3.1 |
| | 2 | 5.23 | 5.18 | 5.28 | 15.9 | |
| gamma-Chlordane | 1 | 5.93 | 5.88 | 5.98 | 17.5 | 14.3 |
| | 2 | 5.11 | 5.06 | 5.16 | 20.2 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 17.6 | 2.8 |
| | 2 | 5.18 | 5.13 | 5.23 | 18.1 | |
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 17.1 | 4 |
| | 2 | 5.36 | 5.31 | 5.41 | 17.8 | |
| Dieldrin | 1 | 6.34 | 6.29 | 6.39 | 16.9 | 4.6 |
| | 2 | 5.50 | 5.45 | 5.55 | 17.7 | |
| Endrin | 1 | 6.56 | 6.51 | 6.61 | 17.7 | 5.8 |
| | 2 | 5.78 | 5.73 | 5.83 | 16.7 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB170628BS**

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Lab Sample ID:** PB170628BS **Date(s) Analyzed:** 11/21/2025 11/21/2025

**Instrument ID (1):** ECD_D **Instrument ID (2):** ECD_D

**GC Column: (1):** ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan II | 1 | 6.78 | 6.73 | 6.83 | 14.9 | 9.6 |
| | 2 | 6.07 | 6.02 | 6.12 | 16.4 | |
| 4,4'-DDD | 1 | 6.70 | 6.65 | 6.75 | 14.2 | 10 |
| | 2 | 5.92 | 5.87 | 5.97 | 15.7 | |
| 4,4'-DDT | 1 | 7.01 | 6.96 | 7.06 | 16.1 | 13.9 |
| | 2 | 6.17 | 6.12 | 6.22 | 18.5 | |
| Endrin aldehyde | 1 | 6.91 | 6.86 | 6.96 | 15.3 | 11.7 |
| | 2 | 6.25 | 6.20 | 6.30 | 17.2 | |
| Endosulfan sulfate | 1 | 7.14 | 7.09 | 7.19 | 14.4 | 13 |
| | 2 | 6.47 | 6.42 | 6.52 | 16.4 | |
| alpha-BHC | 1 | 3.99 | 3.94 | 4.04 | 14.2 | 8.1 |
| | 2 | 3.38 | 3.33 | 3.43 | 15.4 | |
| Aldrin | 1 | 5.26 | 5.21 | 5.31 | 14.7 | 10.9 |
| | 2 | 4.36 | 4.31 | 4.41 | 16.4 | |
| beta-BHC | 1 | 4.51 | 4.46 | 4.56 | 14.1 | 10.7 |
| | 2 | 4.02 | 3.97 | 4.07 | 15.7 | |
| delta-BHC | 1 | 4.76 | 4.71 | 4.81 | 13.4 | 8.6 |
| | 2 | 4.25 | 4.20 | 4.30 | 14.6 | |
| Endosulfan I | 1 | 6.07 | 6.02 | 6.12 | 14.5 | 6.7 |
| | 2 | 5.23 | 5.18 | 5.28 | 15.5 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 13.8 | 16.6 |
| | 2 | 5.18 | 5.13 | 5.23 | 16.3 | |
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 14.3 | 13.7 |
| | 2 | 5.36 | 5.31 | 5.41 | 16.4 | |
| Dieldrin | 1 | 6.34 | 6.29 | 6.39 | 14.6 | 11.6 |
| | 2 | 5.50 | 5.45 | 5.55 | 16.4 | |
| Endrin | 1 | 6.56 | 6.51 | 6.61 | 15.6 | 14.8 |
| | 2 | 5.78 | 5.73 | 5.83 | 18.1 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB170628BS**

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Lab Sample ID:** PB170628BS **Date(s) Analyzed:** 11/21/2025 11/21/2025

**Instrument ID (1):** ECD_D **Instrument ID (2):** ECD_D

**GC Column: (1):** ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Methoxychlor | 1 | 7.49 | 7.44 | 7.54 | 16.2 | 12.2 |
| | 2 | 6.74 | 6.69 | 6.79 | 18.3 | |
| Endrin ketone | 1 | 7.62 | 7.57 | 7.67 | 14.7 | 20.2 |
| | 2 | 6.98 | 6.93 | 7.03 | 18.0 | |
| gamma-BHC (Lindane) | 1 | 4.32 | 4.27 | 4.37 | 14.5 | 7.9 |
| | 2 | 3.72 | 3.67 | 3.77 | 15.7 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 14.7 | 9.1 |
| | 2 | 4.07 | 4.02 | 4.12 | 16.1 | |
| Heptachlor epoxide | 1 | 5.68 | 5.63 | 5.73 | 14.6 | 10.4 |
| | 2 | 4.86 | 4.81 | 4.91 | 16.2 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 14.5 | 12.3 |
| | 2 | 5.11 | 5.06 | 5.16 | 16.4 | |

# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD111925\
Data File : PD091278.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 16:24
Operator : AR\AJ
Sample : Q3662-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
ECD_D
**ClientSampleId :**
B3-0.0-1.0-20251117

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 01:30:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD111525.M
Quant Title : GC Extractables
QLast Update : Sat Nov 15 04:46:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.542 | 2.871 | 55602506 | 625.6E6 | 16.123m | 17.080 |
| 28) | SA Decachlor... | 9.060 | 8.056 | 62597456 | 434.4E6 | 12.565m | 10.978 |
| | Target Compounds | | | | | | |
| 8) | B Heptachlo... | 5.681 | 4.858 | 2712645 | 24647689 | 0.418 | 0.484m |
| 12) | B 4,4'-DDE | 6.187 | 5.360 | 3829327 | 49093467 | 0.660m | 0.919m# |
| 17) | MA 4,4'-DDT | 7.012 | 6.166 | 2186367 | 78175974 | 0.529m | 1.998 # |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

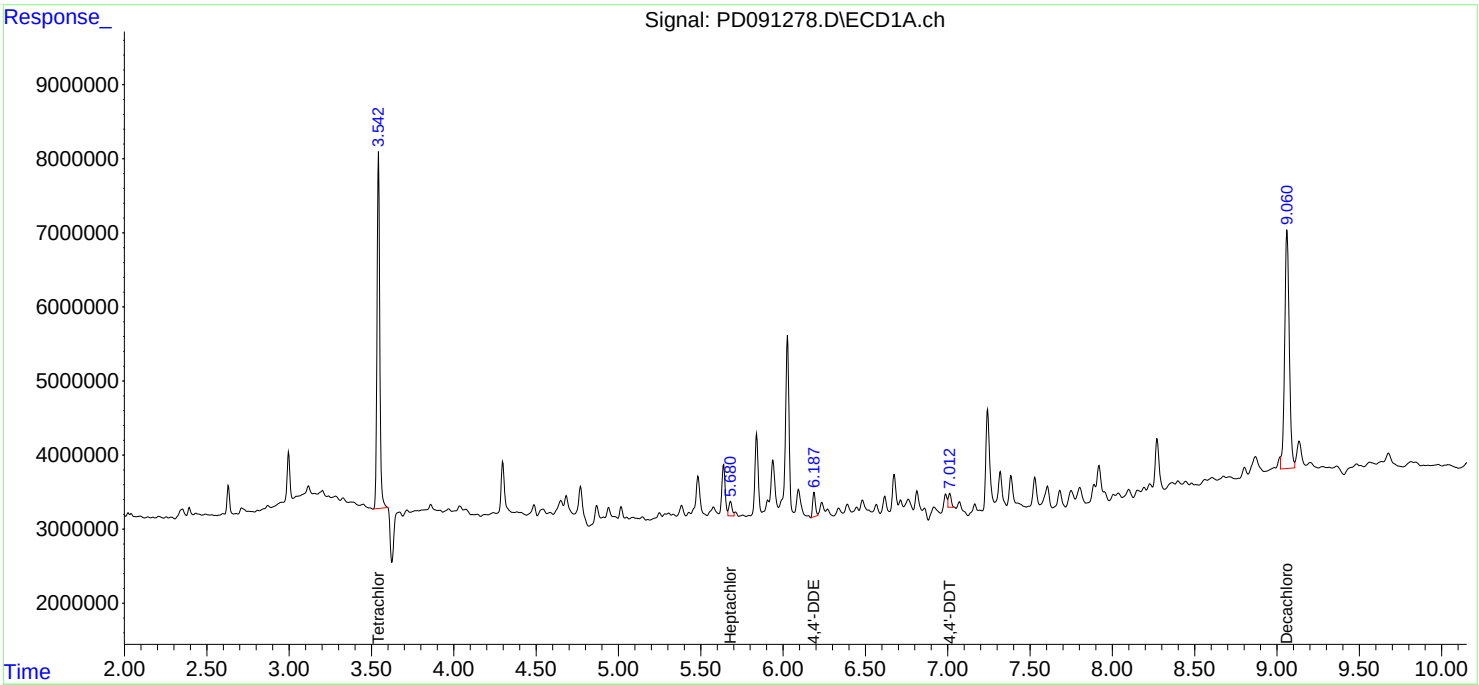
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD111925\
Data File : PD091278.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 16:24
Operator : AR\AJ
Sample : Q3662-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

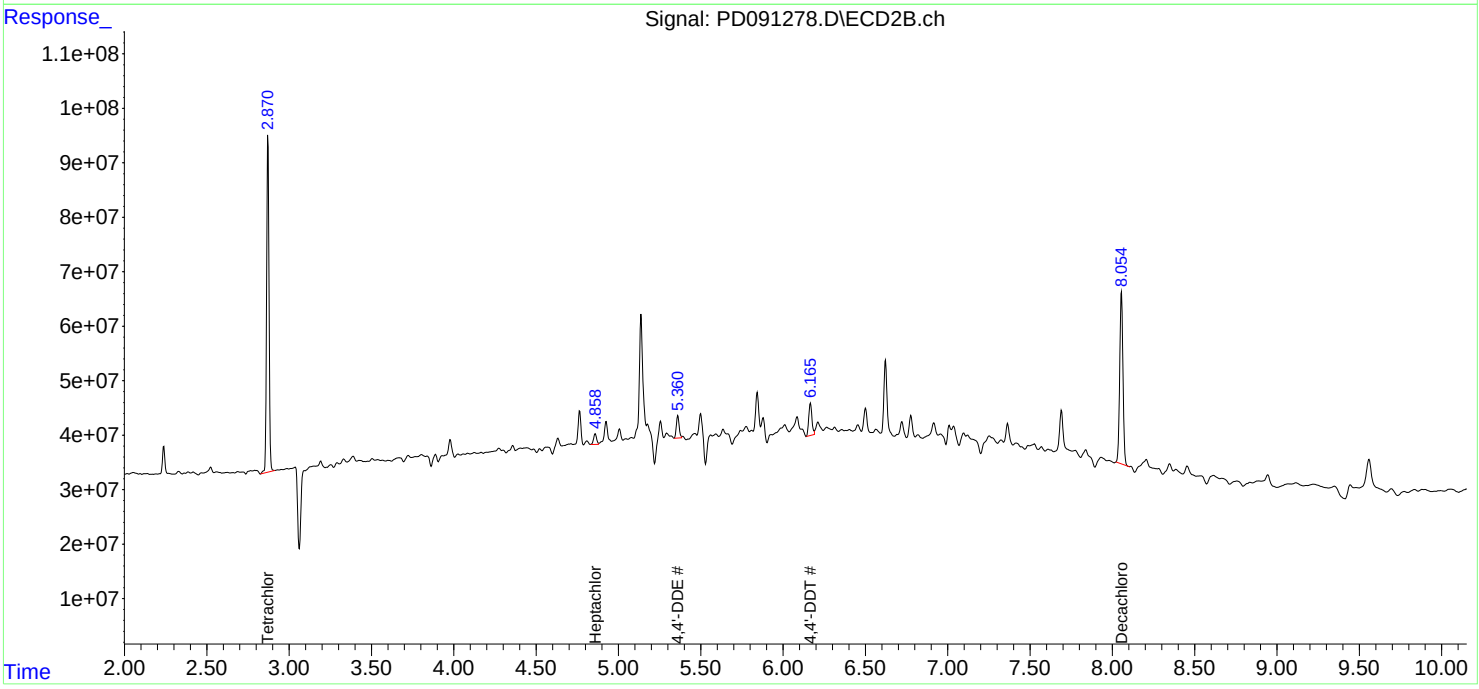
**Instrument :**
ECD_D
**ClientSampleId :**
B3-0.0-1.0-20251117

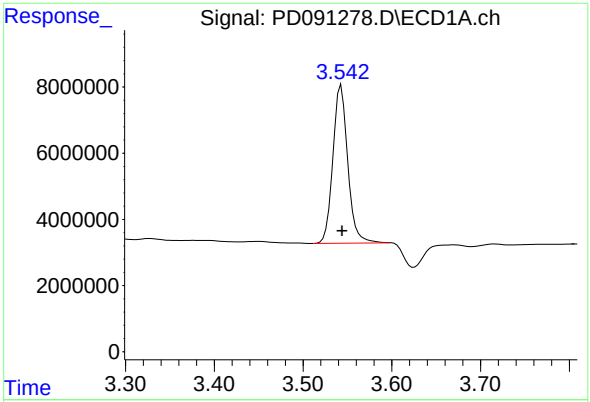
**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 01:30:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD111525.M
Quant Title : GC Extractables
QLast Update : Sat Nov 15 04:46:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





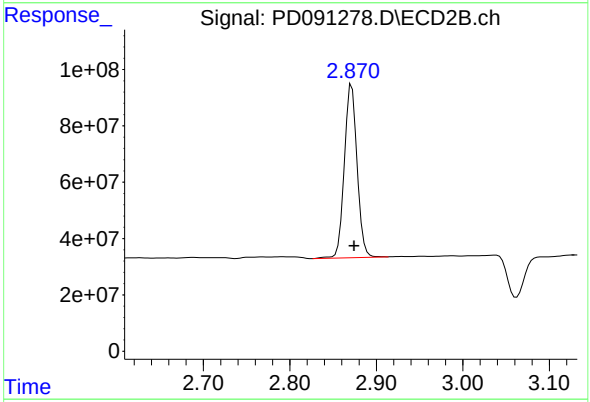

#1 Tetrachloro-m-xylene

R.T.: 3.542 min
Delta R.T.: -0.002 min
Response: 55602506
Conc: 16.12 ng/ml

**Instrument :**
ECD_D
**ClientSampleId :**
B3-0.0-1.0-20251117

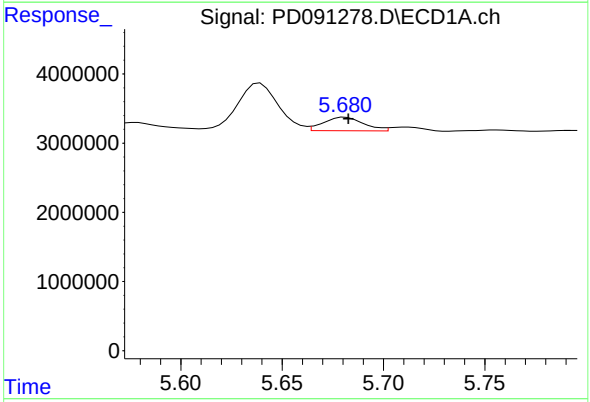
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025



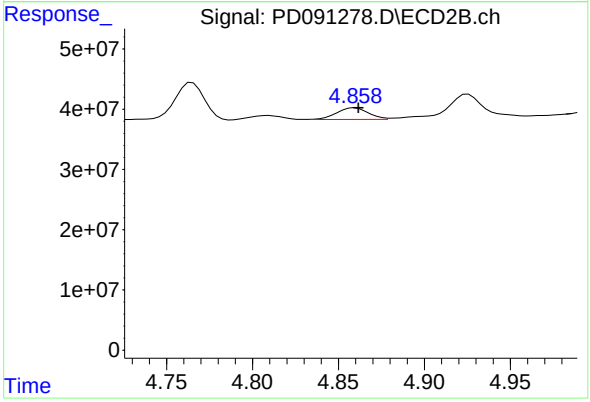

#1 Tetrachloro-m-xylene

R.T.: 2.871 min
Delta R.T.: -0.003 min
Response: 625627191
Conc: 17.08 ng/ml



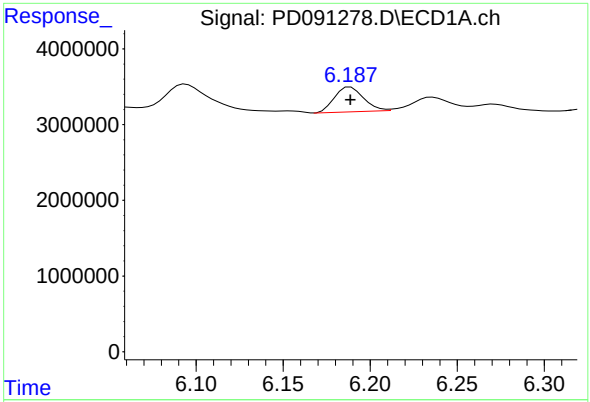

#8 Heptachlor epoxide

R.T.: 5.681 min
Delta R.T.: -0.001 min
Response: 2712645
Conc: 0.42 ng/ml




#8 Heptachlor epoxide

R.T.: 4.858 min
Delta R.T.: -0.003 min
Response: 24647689
Conc: 0.48 ng/ml m



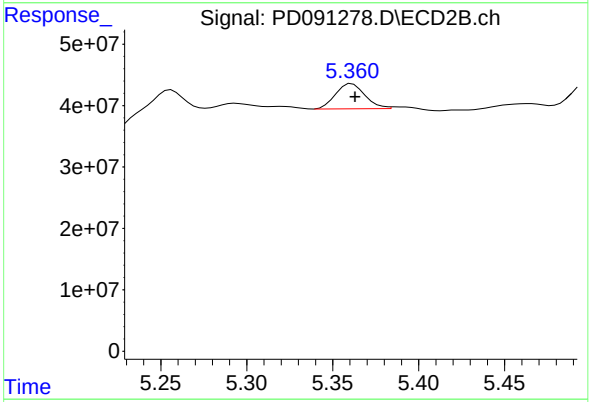

#12 4,4'-DDE

R.T.: 6.187 min
Delta R.T.: -0.001 min
Response: 3829327
Conc: 0.66 ng/ml

**Instrument :**
ECD_D
**ClientSampleId :**
B3-0.0-1.0-20251117

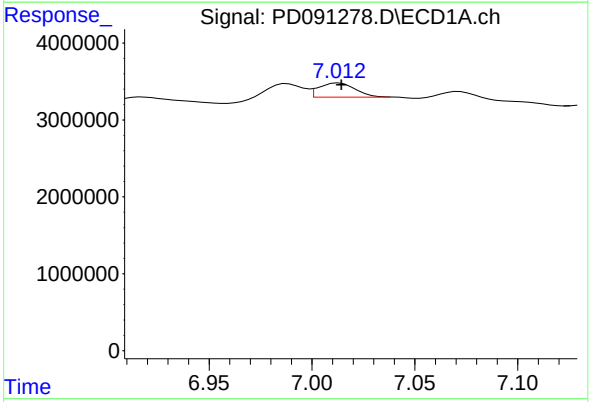
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025



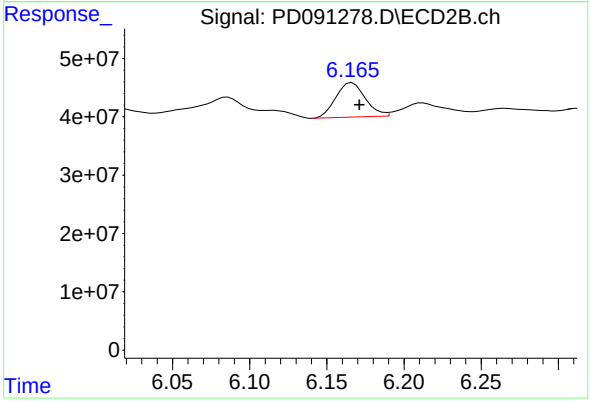

#12 4,4'-DDE

R.T.: 5.360 min
Delta R.T.: -0.003 min
Response: 49093467
Conc: 0.92 ng/ml m



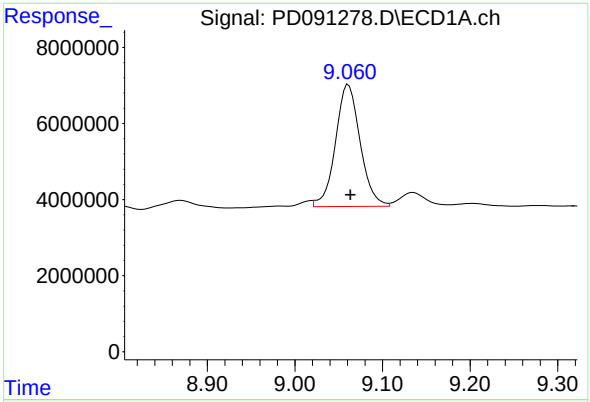

#17 4,4'-DDT

R.T.: 7.012 min
Delta R.T.: -0.002 min
Response: 2186367
Conc: 0.53 ng/ml m




#17 4,4'-DDT

R.T.: 6.166 min
Delta R.T.: -0.005 min
Response: 78175974
Conc: 2.00 ng/ml



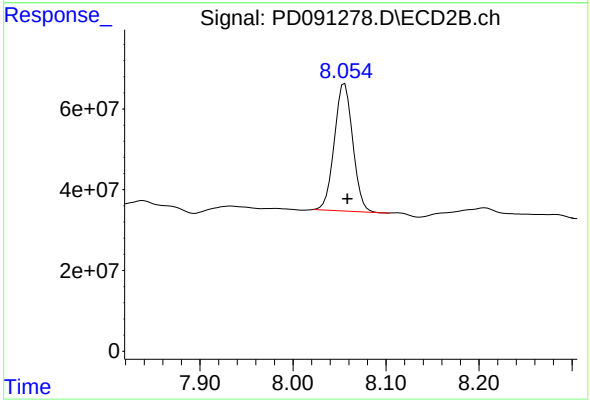

#28 Decachlorobiphenyl

R.T.: 9.060 min
Delta R.T.: -0.004 min
Response: 62597456
Conc: 12.57 ng/ml

**Instrument :**
ECD_D
**ClientSampleId :**
B3-0.0-1.0-20251117

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025




#28 Decachlorobiphenyl

R.T.: 8.056 min
Delta R.T.: -0.003 min
Response: 434433998
Conc: 10.98 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD111925\
Data File : PD091281.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 17:05
Operator : AR\AJ
Sample : Q3662-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
ECD_D
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 01:31:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD111525.M
Quant Title : GC Extractables
QLast Update : Sat Nov 15 04:46:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.542 | 2.872 | 34335384 | 379.1E6 | 9.956 | 10.349 |
| 28) | SA Decachlor... | 9.059 | 8.056 | 40284888 | 241.1E6 | 8.086 | 6.093 |
| | Target Compounds | | | | | | |
| 10) | B gamma-Chl... | 5.938 | 5.113 | 43300040 | 61206424 | 6.661 | 1.120m# |
| 11) | B alpha-Chl... | 6.025 | 5.175 | 124.3E6 | 168.4E6 | 18.062 | 3.218m# |
| 12) | B 4,4'-DDE | 6.187 | 5.361 | 5268953 | 74282946 | 0.909m | 1.390 # |
| 17) | MA 4,4'-DDT | 7.010 | 6.166 | 5495018 | 127.6E6 | 1.329m | 3.261 # |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD111925\
Data File : PD091281.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 17:05
Operator : AR\AJ
Sample : Q3662-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

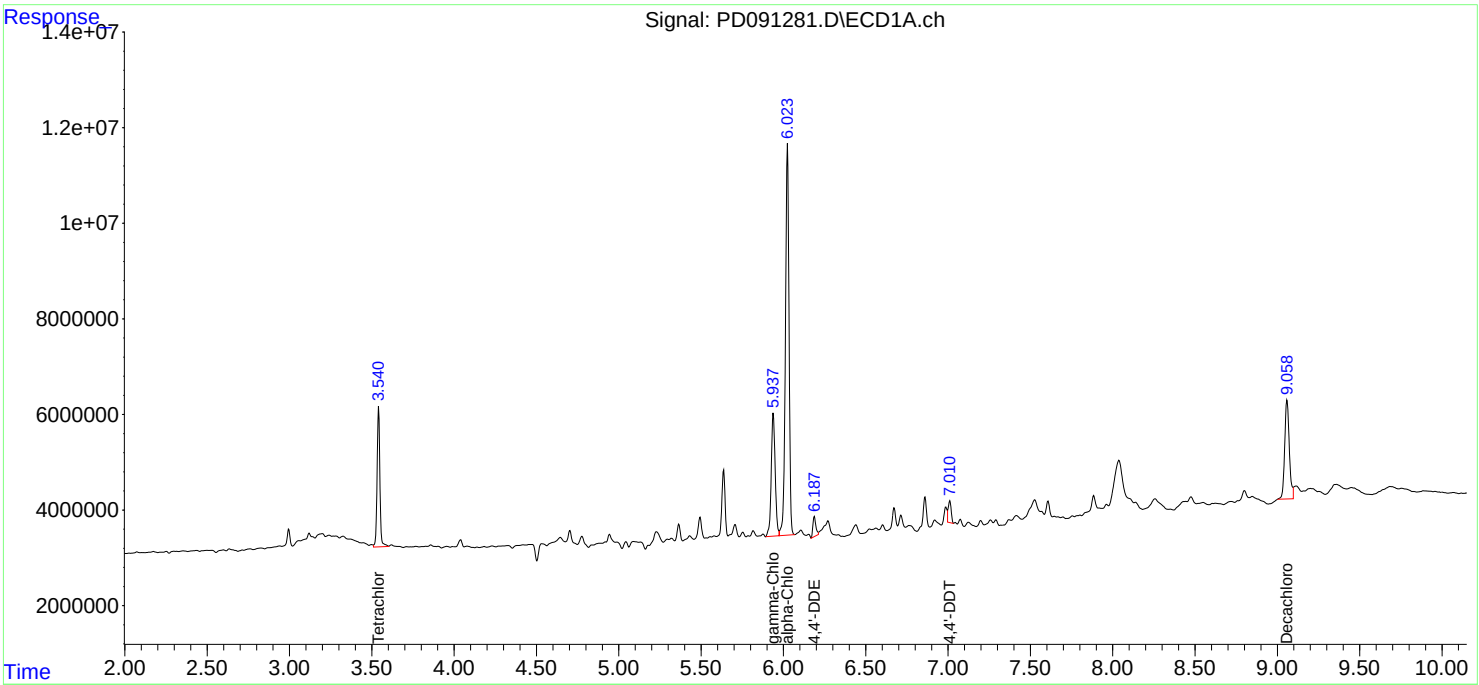
**Instrument :**
ECD_D
**ClientSampleId :**
B1-0.0-1.0-20251117

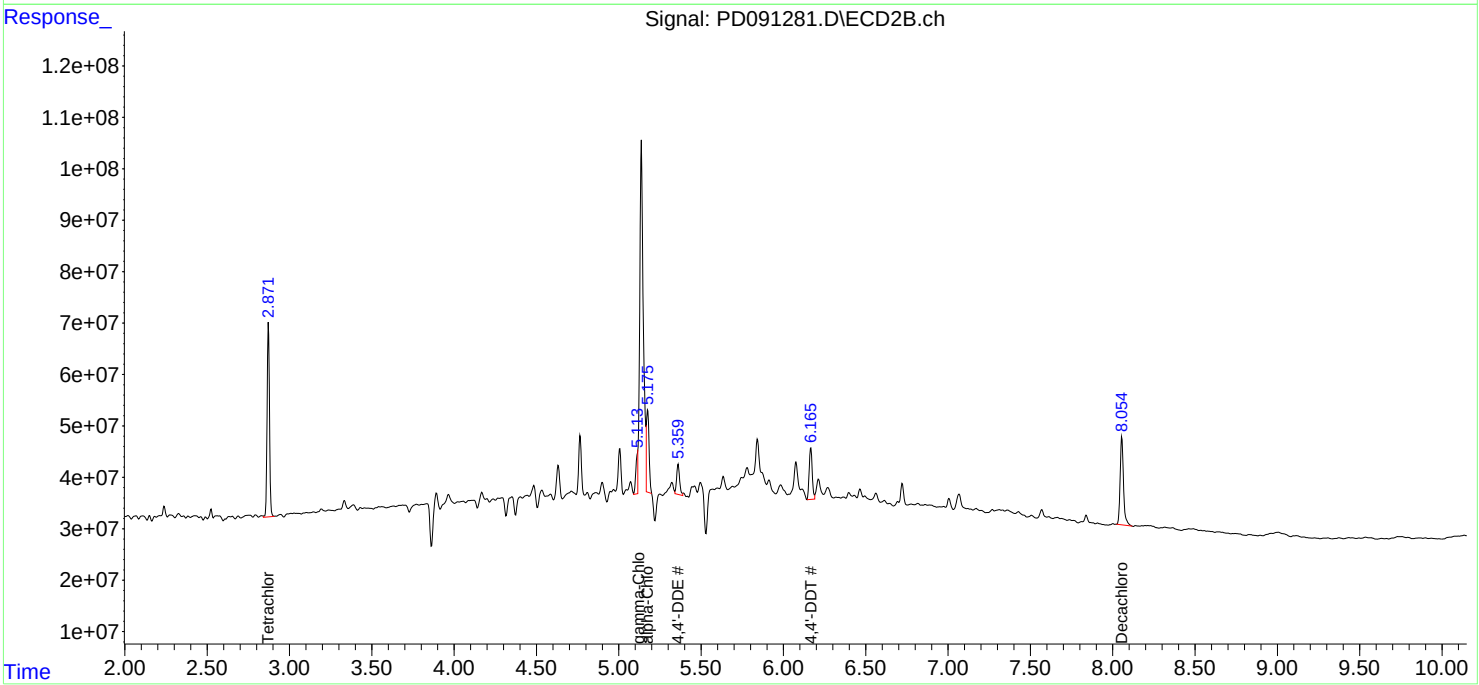
**Manual Integrations APPROVED**

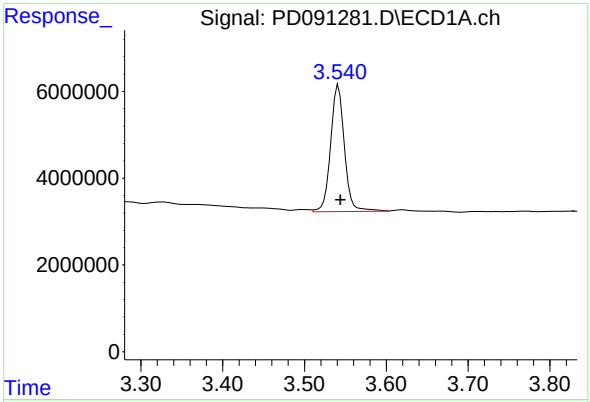
Reviewed By :Abdul Mirza 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 01:31:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD111525.M
Quant Title : GC Extractables
QLast Update : Sat Nov 15 04:46:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





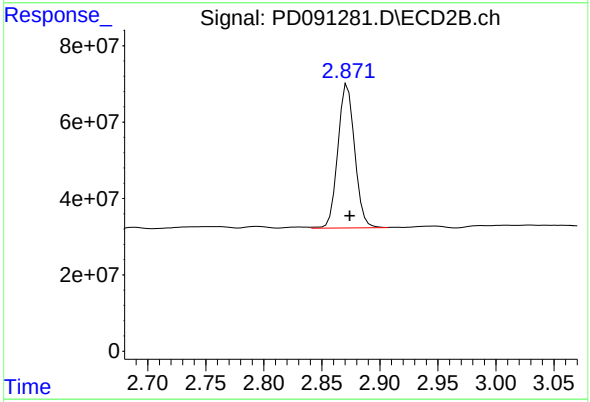

#1 Tetrachloro-m-xylene

R.T.: 3.542 min
Delta R.T.: -0.002 min
Response: 34335384
Conc: 9.96 ng/ml

**Instrument :**
ECD_D
**ClientSampleId :**
B1-0.0-1.0-20251117

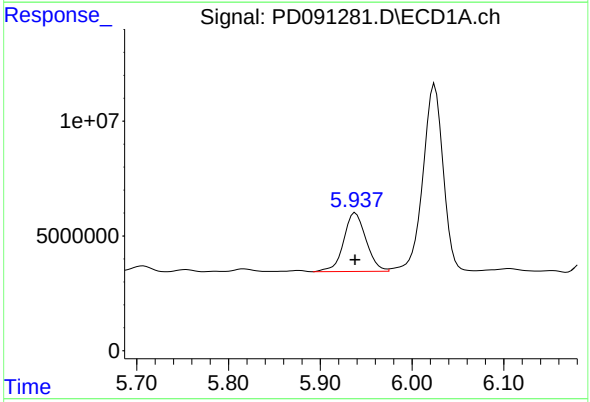
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025



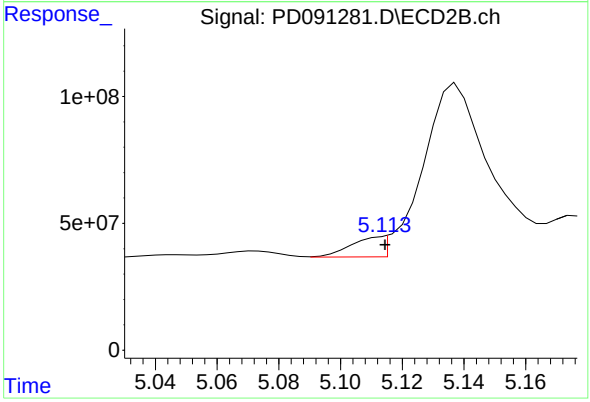

#1 Tetrachloro-m-xylene

R.T.: 2.872 min
Delta R.T.: -0.002 min
Response: 379072985
Conc: 10.35 ng/ml



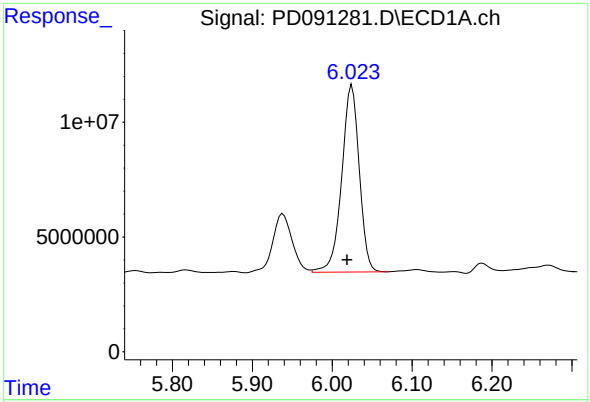

#10 gamma-Chlordane

R.T.: 5.938 min
Delta R.T.: 0.000 min
Response: 43300040
Conc: 6.66 ng/ml




#10 gamma-Chlordane

R.T.: 5.113 min
Delta R.T.: -0.001 min
Response: 61206424
Conc: 1.12 ng/ml m



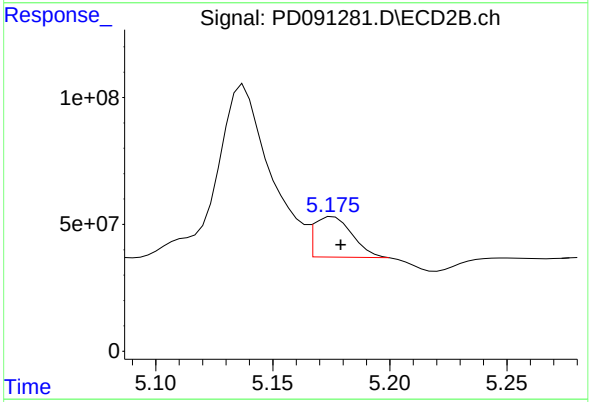

#11 alpha-Chlordane

R.T.: 6.025 min
Delta R.T.: 0.006 min
Response: 124314113
Conc: 18.06 ng/ml

**Instrument :**
ECD_D
**ClientSampleId :**
B1-0.0-1.0-20251117

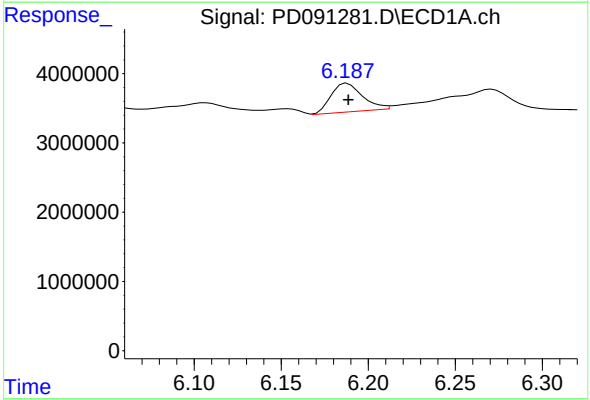
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025



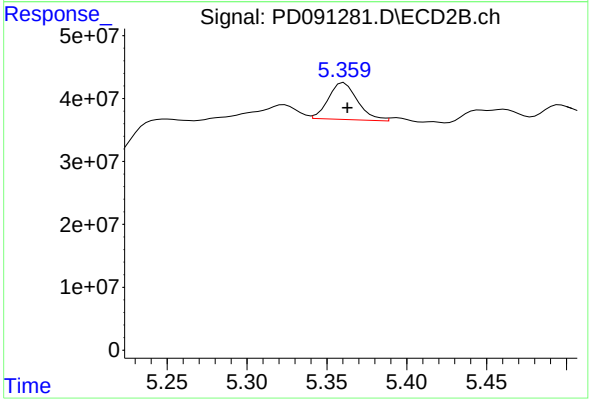

#11 alpha-Chlordane

R.T.: 5.175 min
Delta R.T.: -0.004 min
Response: 168428522
Conc: 3.22 ng/ml m



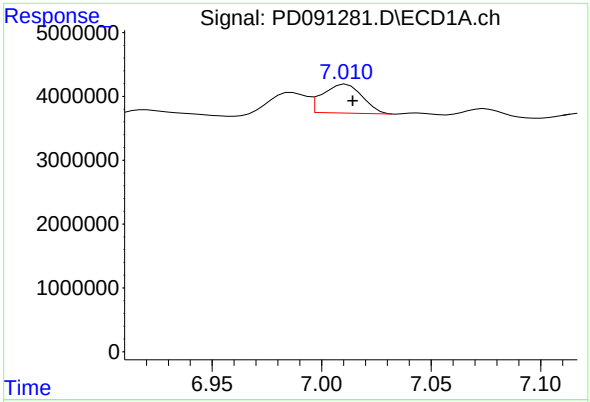

#12 4,4'-DDE

R.T.: 6.187 min
Delta R.T.: -0.002 min
Response: 5268953
Conc: 0.91 ng/ml m




#12 4,4'-DDE

R.T.: 5.361 min
Delta R.T.: -0.002 min
Response: 74282946
Conc: 1.39 ng/ml



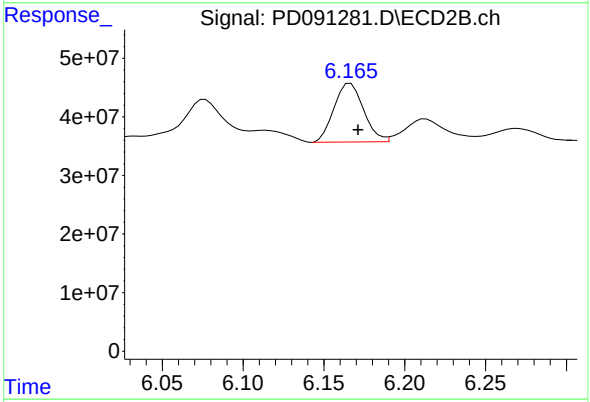

#17 4,4'-DDT

R.T.: 7.010 min
Delta R.T.: -0.004 min
Response: 5495018
Conc: 1.33 ng/ml

**Instrument :**
ECD_D
**ClientSampleId :**
B1-0.0-1.0-20251117

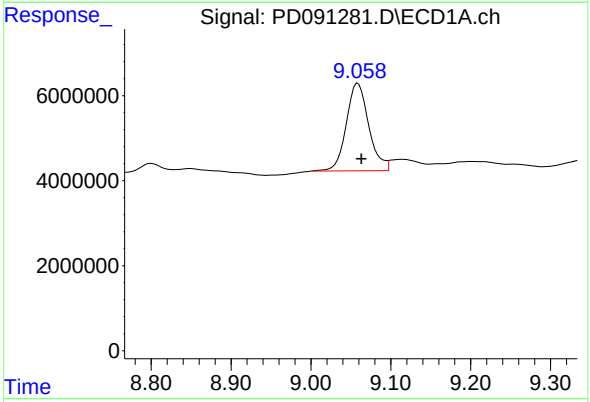
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025



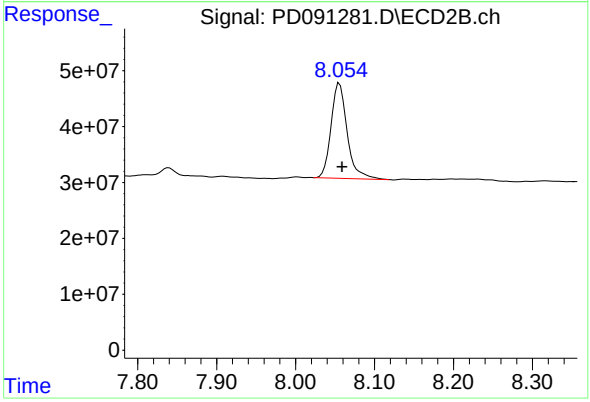

#17 4,4'-DDT

R.T.: 6.166 min
Delta R.T.: -0.005 min
Response: 127594622
Conc: 3.26 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.059 min
Delta R.T.: -0.004 min
Response: 40284888
Conc: 8.09 ng/ml




#28 Decachlorobiphenyl

R.T.: 8.056 min
Delta R.T.: -0.003 min
Response: 241116794
Conc: 6.09 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD111925\
Data File : PD091270.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 14:07
Operator : AR\AJ
Sample : PB170628BL
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
ECD_D
**ClientSampleId :**
PB170628BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 01:29:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD111525.M
Quant Title : GC Extractables
QLast Update : Sat Nov 15 04:46:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.542 | 2.872 | 59182749 | 672.4E6 | 17.161 | 18.356 |
| 28) | SA Decachlor... | 9.059 | 8.056 | 88790088 | 765.1E6 | 17.823 | 19.333 |
| | Target Compounds | | | | | | |

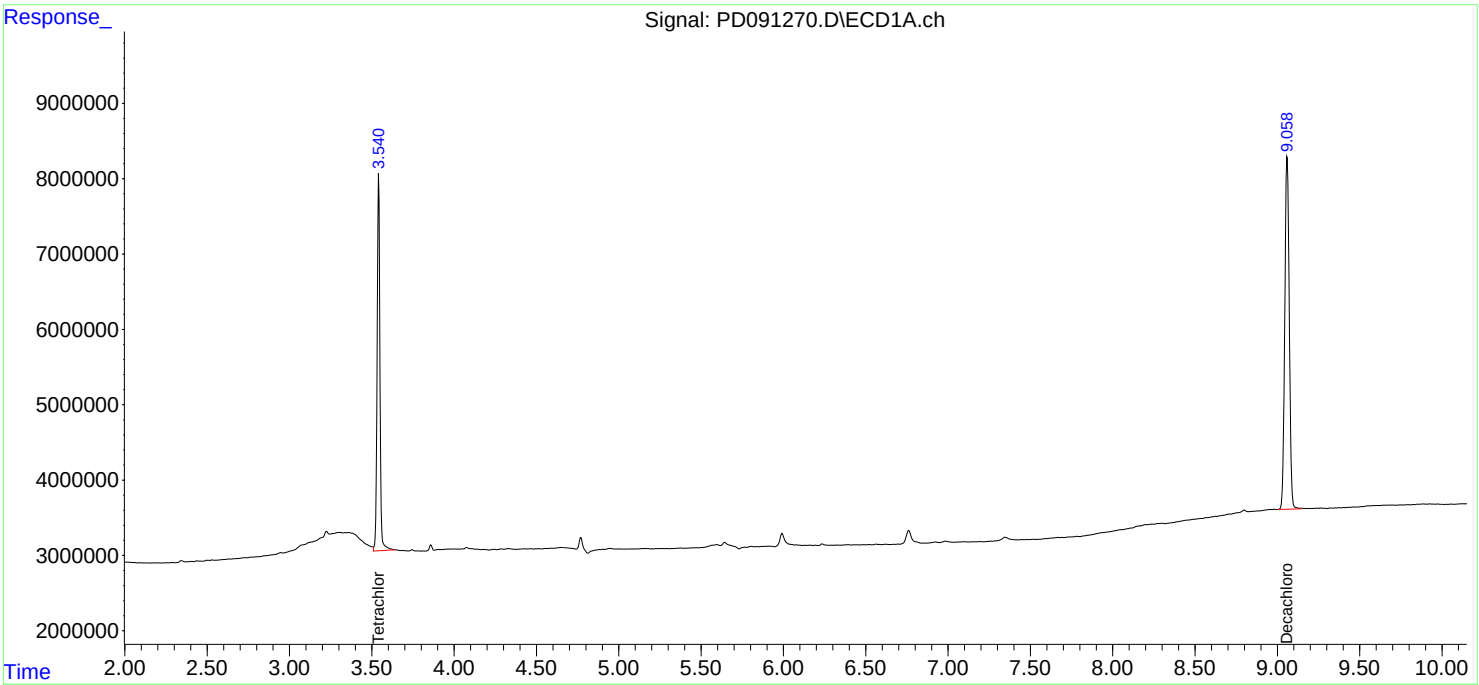
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

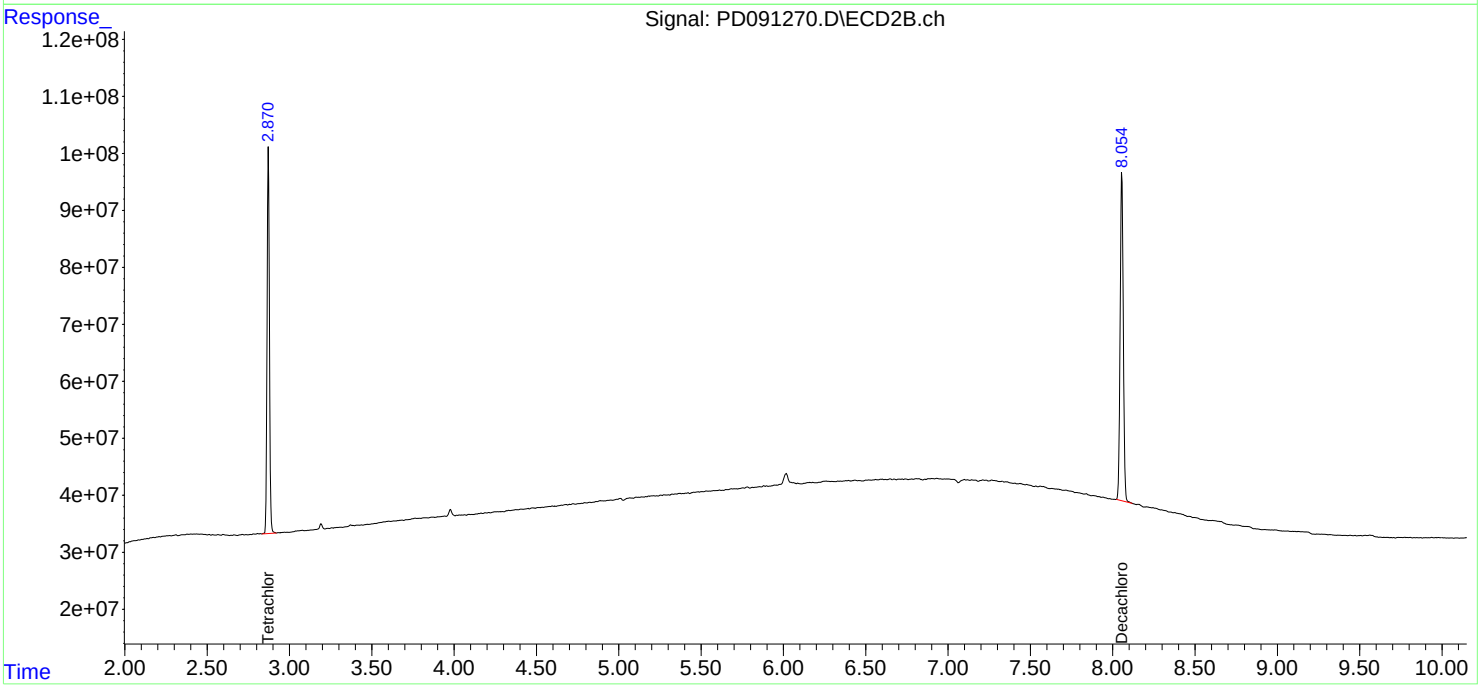
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD111925\
Data File : PD091270.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 14:07
Operator : AR\AJ
Sample : PB170628BL
Misc :
ALS Vial : 8 Sample Multiplier: 1

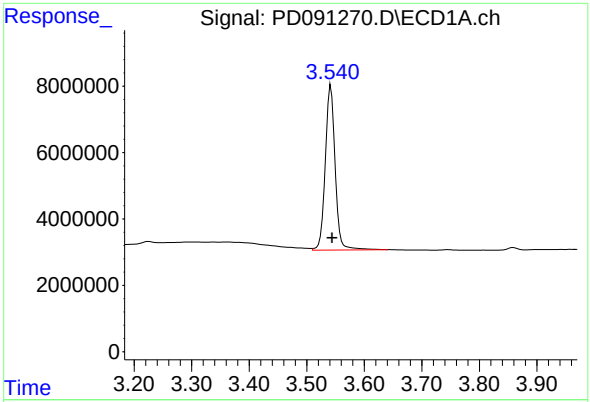
**Instrument :**
ECD_D
**ClientSampleId :**
PB170628BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 01:29:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD111525.M
Quant Title : GC Extractables
QLast Update : Sat Nov 15 04:46:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



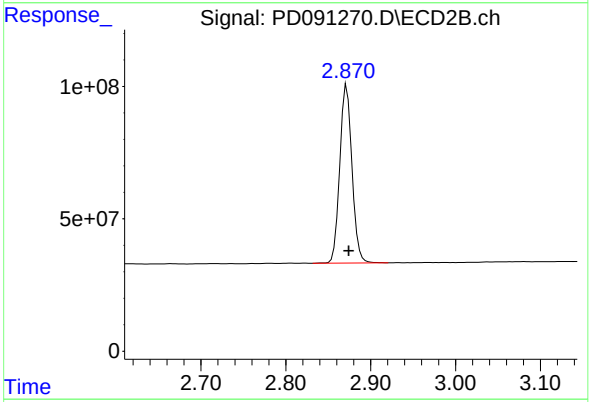






#1 Tetrachloro-m-xylene

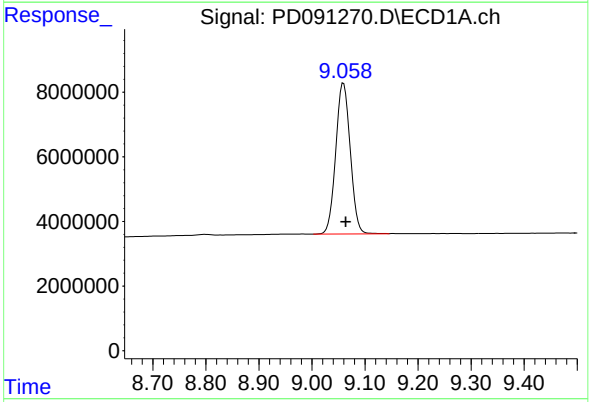
R.T.: 3.542 min
Delta R.T.: -0.002 min
Response: 59182749
Conc: 17.16 ng/ml

**Instrument :**
ECD_D
**ClientSampleId :**
PB170628BL



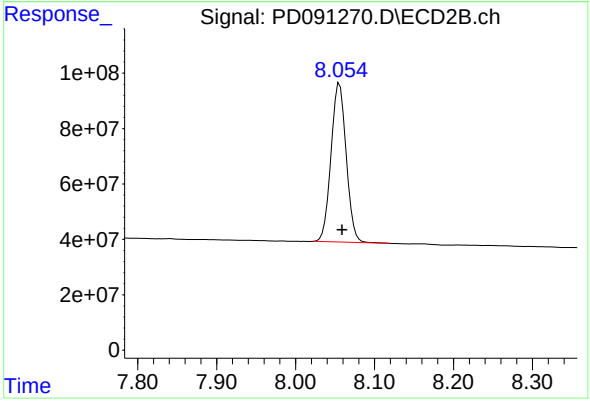

#1 Tetrachloro-m-xylene

R.T.: 2.872 min
Delta R.T.: -0.002 min
Response: 672387576
Conc: 18.36 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.059 min
Delta R.T.: -0.004 min
Response: 88790088
Conc: 17.82 ng/ml




#28 Decachlorobiphenyl

R.T.: 8.056 min
Delta R.T.: -0.003 min
Response: 765113097
Conc: 19.33 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112125\
Data File : PD091334.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2025 11:38
Operator : AR\AJ
Sample : PB170628BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
ECD_D
**ClientSampleId :**
PB170628BS

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 11/26/2025
Supervised By :mohammad ahmed 11/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 26 00:46:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD111525.M
Quant Title : GC Extractables
QLast Update : Sat Nov 15 04:46:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.542 | 2.872 | 70901179 | 811.3E6 | 20.559 | 22.149 |
| 28) | SA Decachlor... | 9.061 | 8.056 | 103.3E6 | 939.8E6 | 20.734 | 23.747 |
| | Target Compounds | | | | | | |
| 2) | A alpha-BHC | 3.991 | 3.383 | 340.7E6 | 2918.8E6 | 42.610 | 46.181 |
| 3) | MA gamma-BHC... | 4.322 | 3.719 | 324.4E6 | 2732.8E6 | 43.415 | 47.263 |
| 4) | MA Heptachlor | 4.919 | 4.071 | 316.4E6 | 2662.2E6 | 44.185 | 48.220 |
| 5) | MB Aldrin | 5.261 | 4.356 | 320.5E6 | 2776.9E6 | 44.172 | 49.186 |
| 6) | B beta-BHC | 4.510 | 4.015 | 122.6E6 | 1128.8E6 | 42.197 | 46.979 |
| 7) | B delta-BHC | 4.758 | 4.251 | 299.7E6 | 2556.0E6 | 40.321 | 43.710 |
| 8) | B Heptachlo... | 5.681 | 4.859 | 285.6E6 | 2475.8E6 | 43.956 | 48.584 |
| 9) | A Endosulfan I | 6.065 | 5.233 | 266.5E6 | 2220.8E6 | 43.389 | 46.410 |
| 10) | B gamma-Chl... | 5.936 | 5.112 | 282.3E6 | 2681.4E6 | 43.424 | 49.086 |
| 11) | B alpha-Chl... | 6.017 | 5.176 | 284.1E6 | 2554.7E6 | 41.278 | 48.818 |
| 12) | B 4,4'-DDE | 6.186 | 5.359 | 248.9E6 | 2629.6E6 | 42.922 | 49.204m |
| 13) | MA Dieldrin | 6.337 | 5.499 | 284.2E6 | 2665.4E6 | 43.959 | 49.076 |
| 14) | MA Endrin | 6.564 | 5.776 | 232.3E6 | 2459.3E6 | 46.810 | 54.418 |
| 15) | B Endosulfa... | 6.778 | 6.067 | 247.9E6 | 2291.2E6 | 44.592 | 49.083 |
| 16) | A 4,4'-DDD | 6.697 | 5.916 | 209.1E6 | 2295.3E6 | 42.566 | 46.969 |
| 17) | MA 4,4'-DDT | 7.013 | 6.169 | 199.8E6 | 2174.4E6 | 48.314 | 55.566 |
| 18) | B Endrin al... | 6.907 | 6.245 | 190.7E6 | 1819.4E6 | 45.779 | 51.557 |
| 19) | B Endosulfa... | 7.141 | 6.469 | 221.9E6 | 2209.4E6 | 43.139 | 49.278 |
| 20) | A Methoxychlor | 7.486 | 6.740 | 105.4E6 | 1104.0E6 | 48.472 | 55.058 |
| 21) | B Endrin ke... | 7.622 | 6.976 | 248.2E6 | 2759.0E6 | 44.053 | 54.145m |
| 22) | Mirex | 8.104 | 7.170 | 152.6E6 | 1624.1E6 | 42.905 | 49.008 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

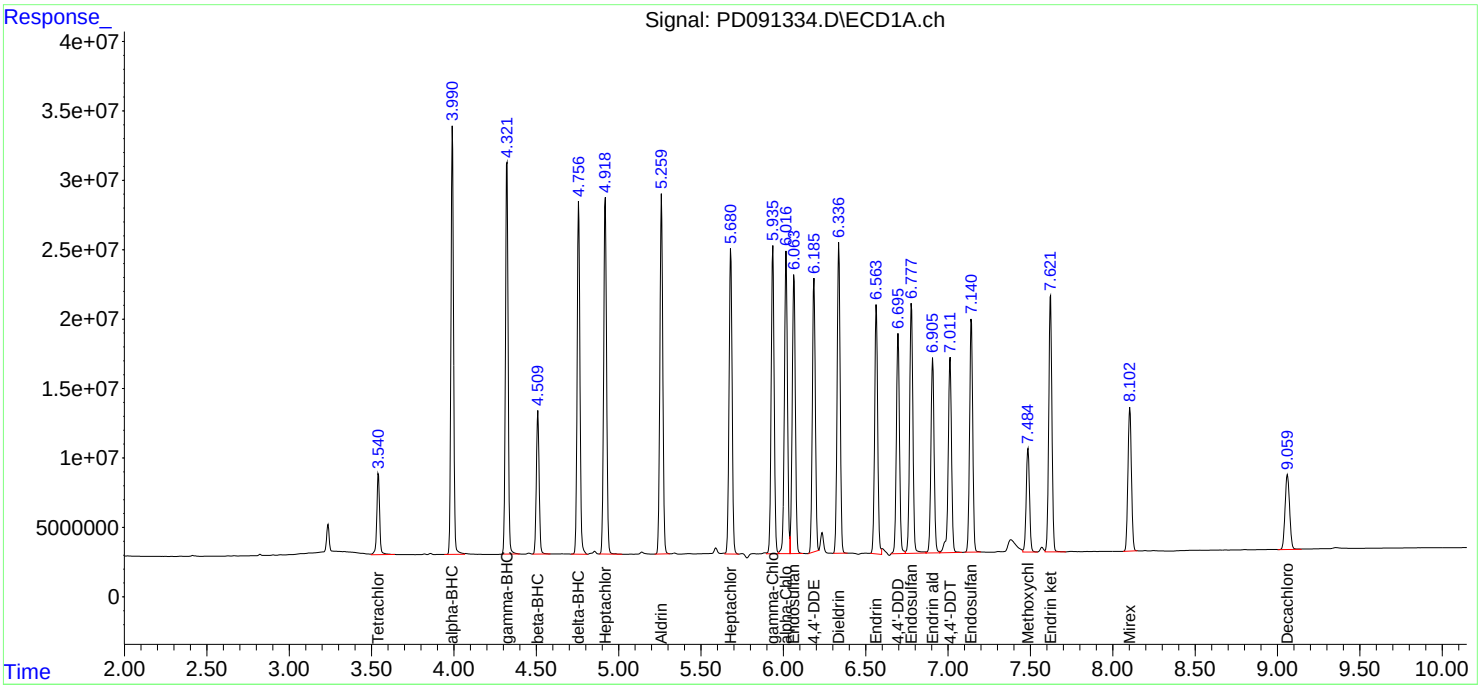
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112125\
Data File : PD091334.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2025 11:38
Operator : AR\AJ
Sample : PB170628BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

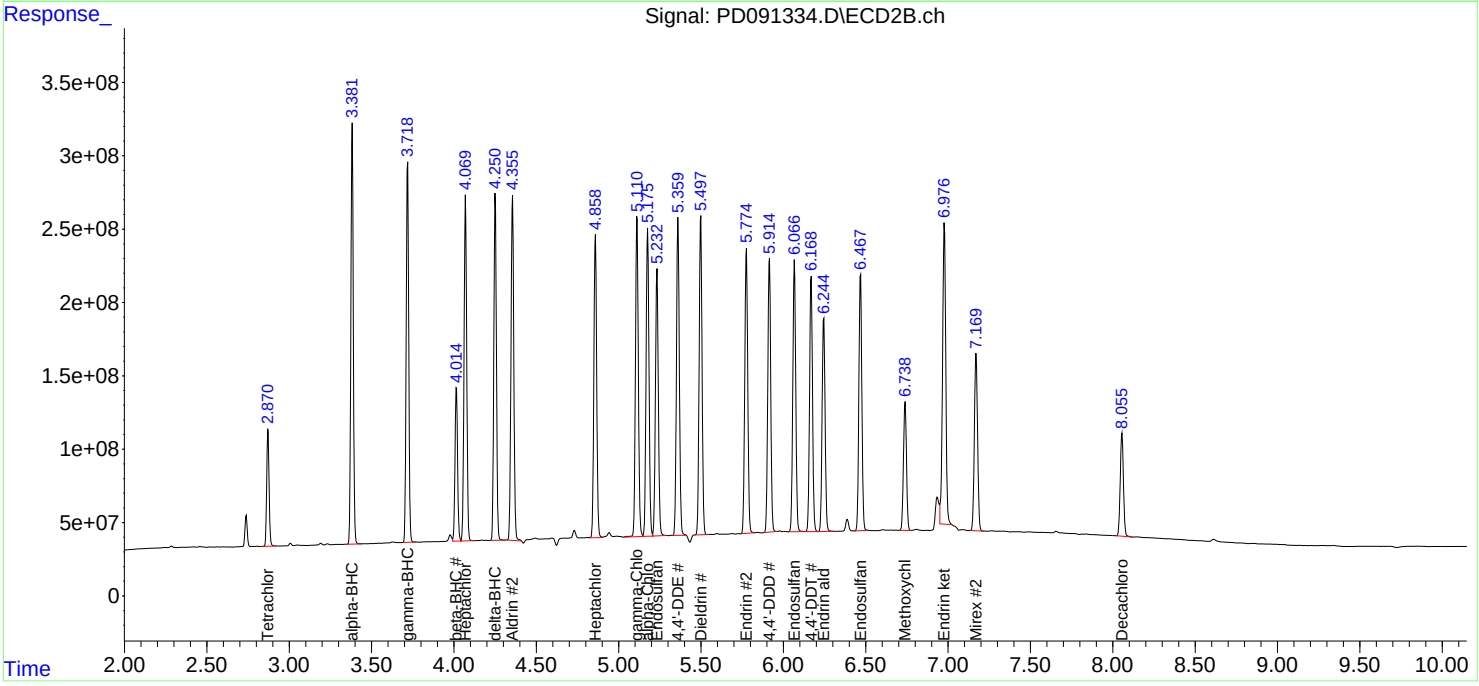
**Instrument :**
ECD_D
**ClientSampleId :**
PB170628BS

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 11/26/2025
Supervised By :mohammad ahmed 11/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 26 00:46:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD111525.M
Quant Title : GC Extractables
QLast Update : Sat Nov 15 04:46:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD111925\
Data File : PD091279.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 16:37
Operator : AR\AJ
Sample : Q3662-02MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
ECD_D
**ClientSampleId :**
B3-0.0-1.0-20251117MS

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 01:31:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD111525.M
Quant Title : GC Extractables
QLast Update : Sat Nov 15 04:46:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.540 | 2.872 | 49530956 | 538.9E6 | 14.363m | 14.713 |
| 28) | SA Decachlor... | 9.058 | 8.055 | 54845841 | 360.0E6 | 11.009m | 9.098 |
| | Target Compounds | | | | | | |
| 2) | A alpha-BHC | 3.990 | 3.383 | 332.5E6 | 2684.6E6 | 41.590 | 42.476 |
| 3) | MA gamma-BHC... | 4.320 | 3.719 | 299.1E6 | 2321.1E6 | 40.021m | 40.142 |
| 4) | MA Heptachlor | 4.918 | 4.070 | 168.1E6 | 1382.0E6 | 23.475 | 25.031 |
| 5) | MB Aldrin | 5.260 | 4.356 | 321.6E6 | 2570.7E6 | 44.320 | 45.533 |
| 6) | B beta-BHC | 4.509 | 4.015 | 127.1E6 | 1082.7E6 | 43.732 | 45.060 |
| 7) | B delta-BHC | 4.757 | 4.251 | 265.0E6 | 2090.5E6 | 35.657 | 35.750 |
| 8) | B Heptachlo... | 5.680 | 4.859 | 282.4E6 | 2255.0E6 | 43.462 | 44.251 |
| 9) | A Endosulfan I | 6.063 | 5.234 | 237.6E6 | 1795.0E6 | 38.673 | 37.511 |
| 10) | B gamma-Chl... | 5.934 | 5.112 | 296.7E6 | 2845.9E6 | 45.641m | 52.097 |
| 11) | B alpha-Chl... | 6.017 | 5.176 | 314.7E6 | 2415.3E6 | 45.716 | 46.155 |
| 12) | B 4,4'-DDE | 6.186 | 5.360 | 257.7E6 | 2464.3E6 | 44.443 | 46.111 |
| 13) | MA Dieldrin | 6.336 | 5.498 | 275.4E6 | 2458.7E6 | 42.593 | 45.270 |
| 14) | MA Endrin | 6.563 | 5.775 | 219.8E6 | 1867.5E6 | 44.289 | 41.322 |
| 15) | B Endosulfa... | 6.775 | 6.065 | 212.0E6 | 1807.0E6 | 38.141m | 38.710m |
| 16) | A 4,4'-DDD | 6.696 | 5.915 | 179.6E6 | 1608.0E6 | 36.574 | 32.905 |
| 17) | MA 4,4'-DDT | 7.011 | 6.169 | 88384940 | 910.7E6 | 21.372 | 23.271 |
| 18) | B Endrin al... | 6.906 | 6.245 | 67752068 | 563.9E6 | 16.263 | 15.979 |
| 19) | B Endosulfa... | 7.140 | 6.468 | 154.7E6 | 1283.9E6 | 30.079 | 28.635 |
| 20) | A Methoxychlor | 7.485 | 6.739 | 45416910 | 398.5E6 | 20.888 | 19.876 |
| 21) | B Endrin ke... | 7.620 | 6.977 | 135.4E6 | 1135.9E6 | 24.043 | 22.291 |
| 22) | Mirex | 8.100 | 7.170 | 143.2E6 | 1243.7E6 | 40.268m | 37.529 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

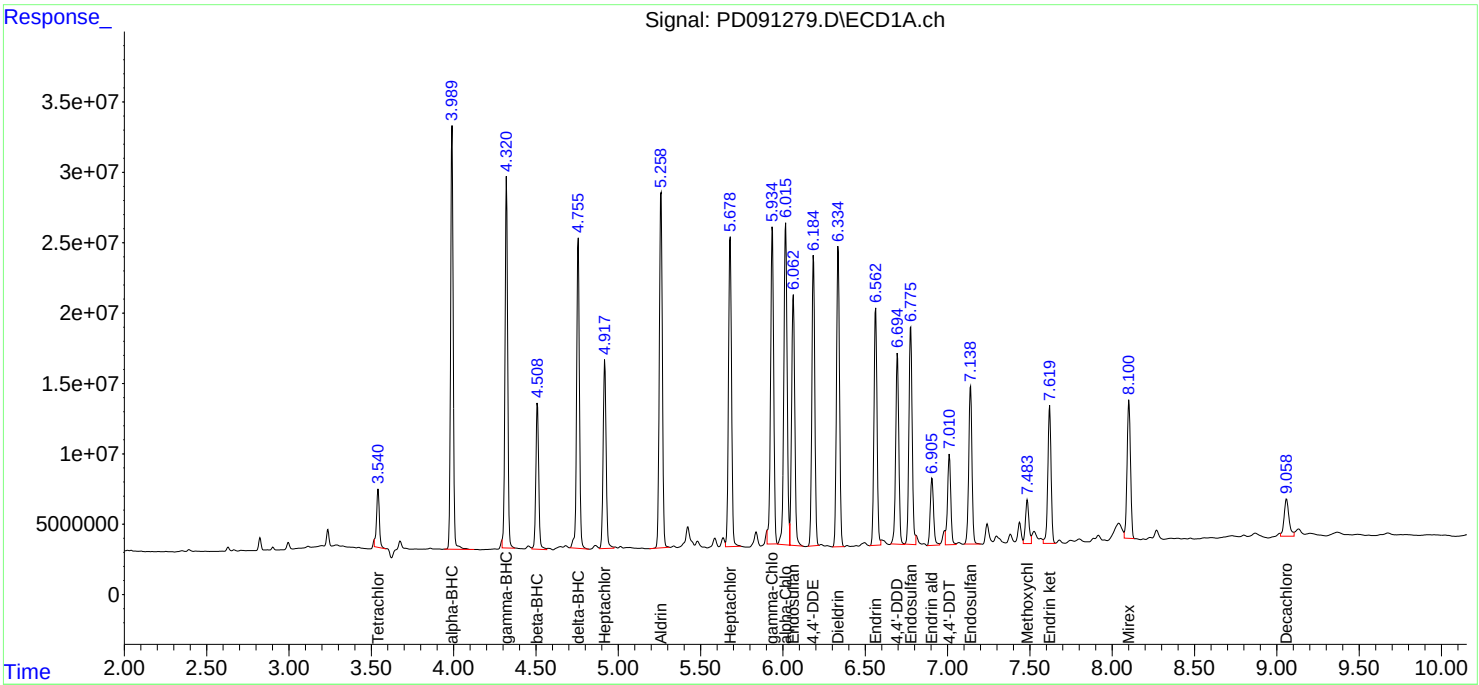
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD111925\
Data File : PD091279.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 16:37
Operator : AR\AJ
Sample : Q3662-02MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

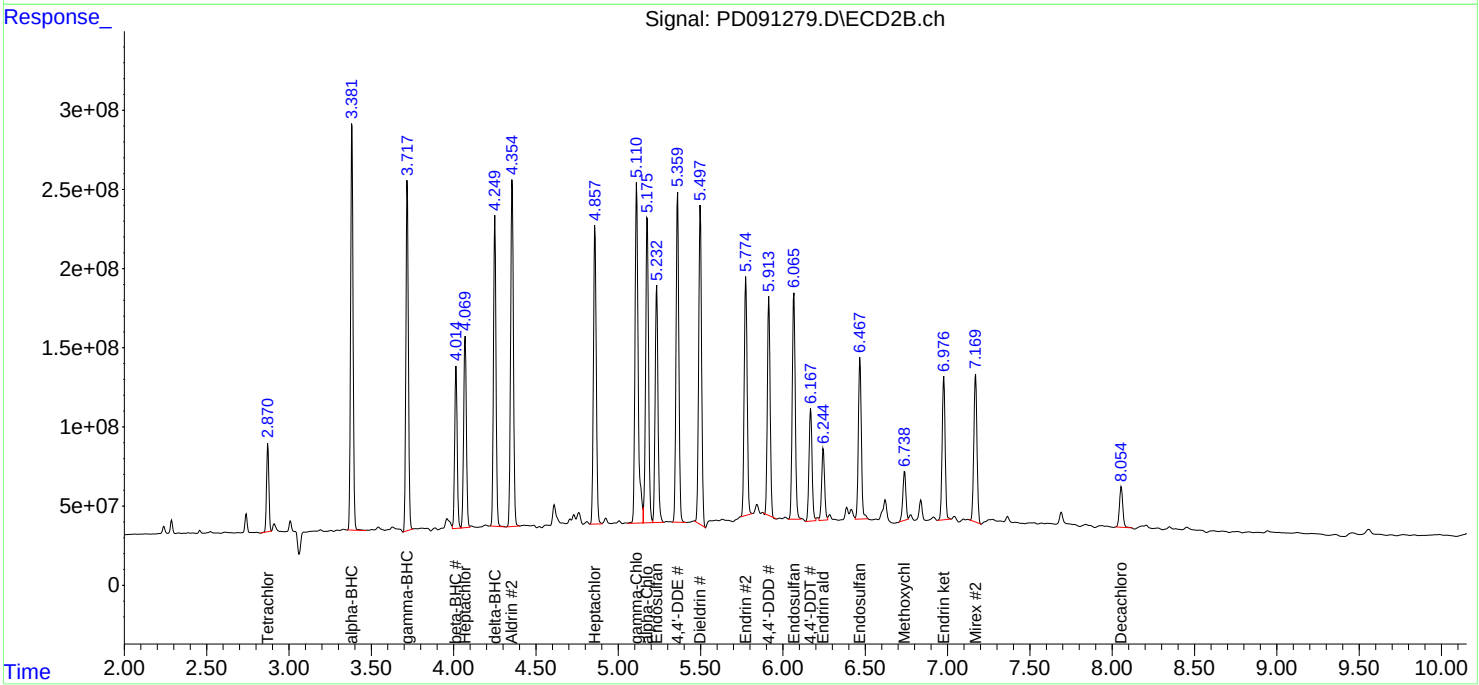
**Instrument :**
ECD_D
**ClientSampleId :**
B3-0.0-1.0-20251117MS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 01:31:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD111525.M
Quant Title : GC Extractables
QLast Update : Sat Nov 15 04:46:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD111925\
Data File : PD091280.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 16:51
Operator : AR\AJ
Sample : Q3662-02MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
ECD_D
**ClientSampleId :**
B3-0.0-1.0-20251117MSD

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 01:31:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD111525.M
Quant Title : GC Extractables
QLast Update : Sat Nov 15 04:46:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.540 | 2.872 | 48588177 | 560.8E6 | 14.089m | 15.309 |
| 28) | SA Decachlor... | 9.059 | 8.054 | 53098325 | 385.8E6 | 10.658 | 9.749 |
| | Target Compounds | | | | | | |
| 2) | A alpha-BHC | 3.991 | 3.383 | 358.0E6 | 2882.3E6 | 44.773 | 45.605 |
| 3) | MA gamma-BHC... | 4.320 | 3.719 | 326.6E6 | 2550.8E6 | 43.702m | 44.115 |
| 4) | MA Heptachlor | 4.918 | 4.070 | 187.7E6 | 1546.5E6 | 26.202 | 28.011 |
| 5) | MB Aldrin | 5.260 | 4.356 | 324.0E6 | 2590.0E6 | 44.655 | 45.875 |
| 6) | B beta-BHC | 4.509 | 4.015 | 127.6E6 | 1103.0E6 | 43.919 | 45.907 |
| 7) | B delta-BHC | 4.757 | 4.251 | 316.1E6 | 2490.5E6 | 42.537 | 42.589 |
| 8) | B Heptachlo... | 5.680 | 4.859 | 280.4E6 | 2289.5E6 | 43.161 | 44.929 |
| 9) | A Endosulfan I | 6.064 | 5.233 | 257.0E6 | 1937.6E6 | 41.844 | 40.492 |
| 10) | B gamma-Chl... | 5.934 | 5.112 | 290.0E6 | 2806.0E6 | 44.608m | 51.367 |
| 11) | B alpha-Chl... | 6.017 | 5.176 | 308.4E6 | 2410.0E6 | 44.803 | 46.054 |
| 12) | B 4,4'-DDE | 6.186 | 5.361 | 252.3E6 | 2425.9E6 | 43.512 | 45.392 |
| 13) | MA Dieldrin | 6.337 | 5.499 | 277.7E6 | 2448.3E6 | 42.960 | 45.078 |
| 14) | MA Endrin | 6.563 | 5.775 | 224.2E6 | 1925.4E6 | 45.173 | 42.604 |
| 15) | B Endosulfa... | 6.775 | 6.065 | 229.8E6 | 1941.6E6 | 41.337m | 41.594m |
| 16) | A 4,4'-DDD | 6.695 | 5.915 | 194.0E6 | 1737.3E6 | 39.489 | 35.550 |
| 17) | MA 4,4'-DDT | 7.011 | 6.168 | 122.4E6 | 1142.8E6 | 29.609 | 29.202 |
| 18) | B Endrin al... | 6.906 | 6.245 | 105.7E6 | 893.9E6 | 25.370 | 25.331 |
| 19) | B Endosulfa... | 7.140 | 6.468 | 185.6E6 | 1550.3E6 | 36.068 | 34.577 |
| 20) | A Methoxychlor | 7.484 | 6.739 | 56368320 | 484.0E6 | 25.924 | 24.136 |
| 21) | B Endrin ke... | 7.621 | 6.977 | 191.8E6 | 1532.5E6 | 34.040 | 30.074 |
| 22) | Mirex | 8.101 | 7.169 | 140.3E6 | 1213.8E6 | 39.456m | 36.628 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

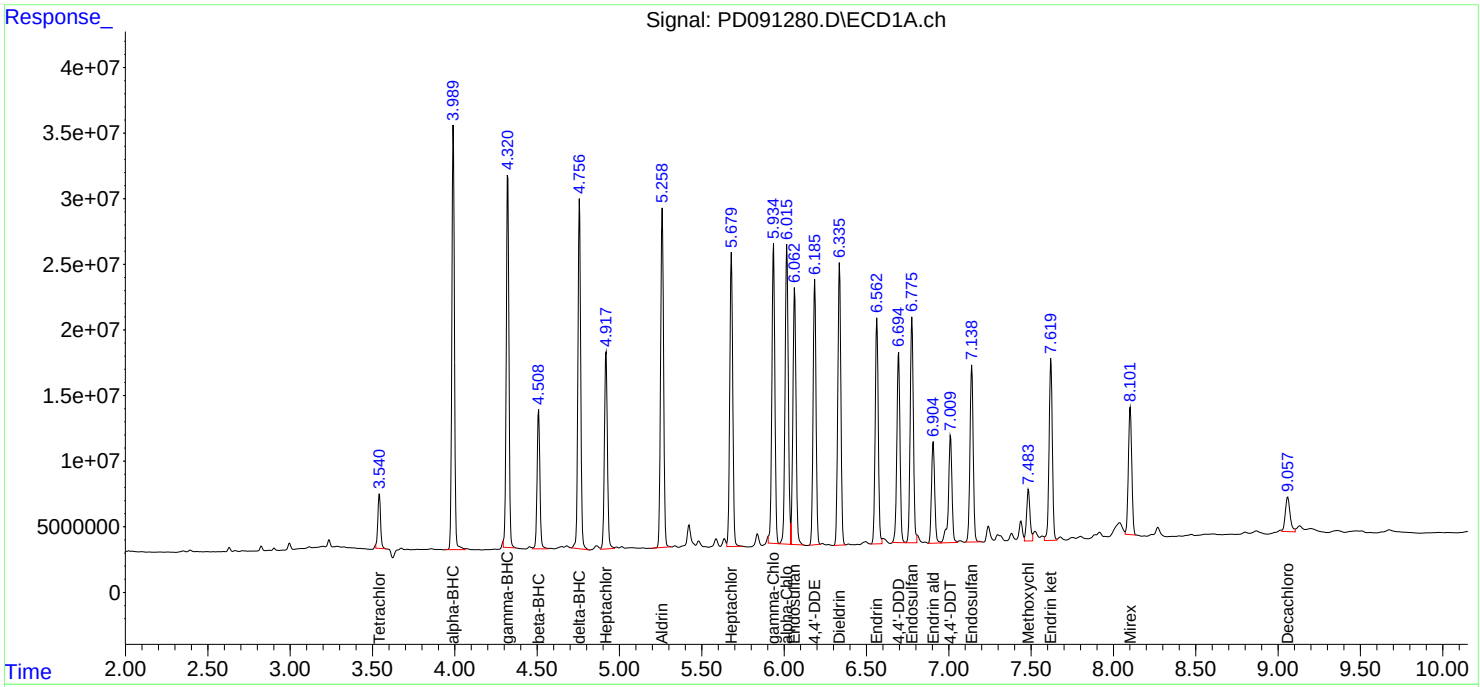
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD111925\
Data File : PD091280.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 16:51
Operator : AR\AJ
Sample : Q3662-02MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

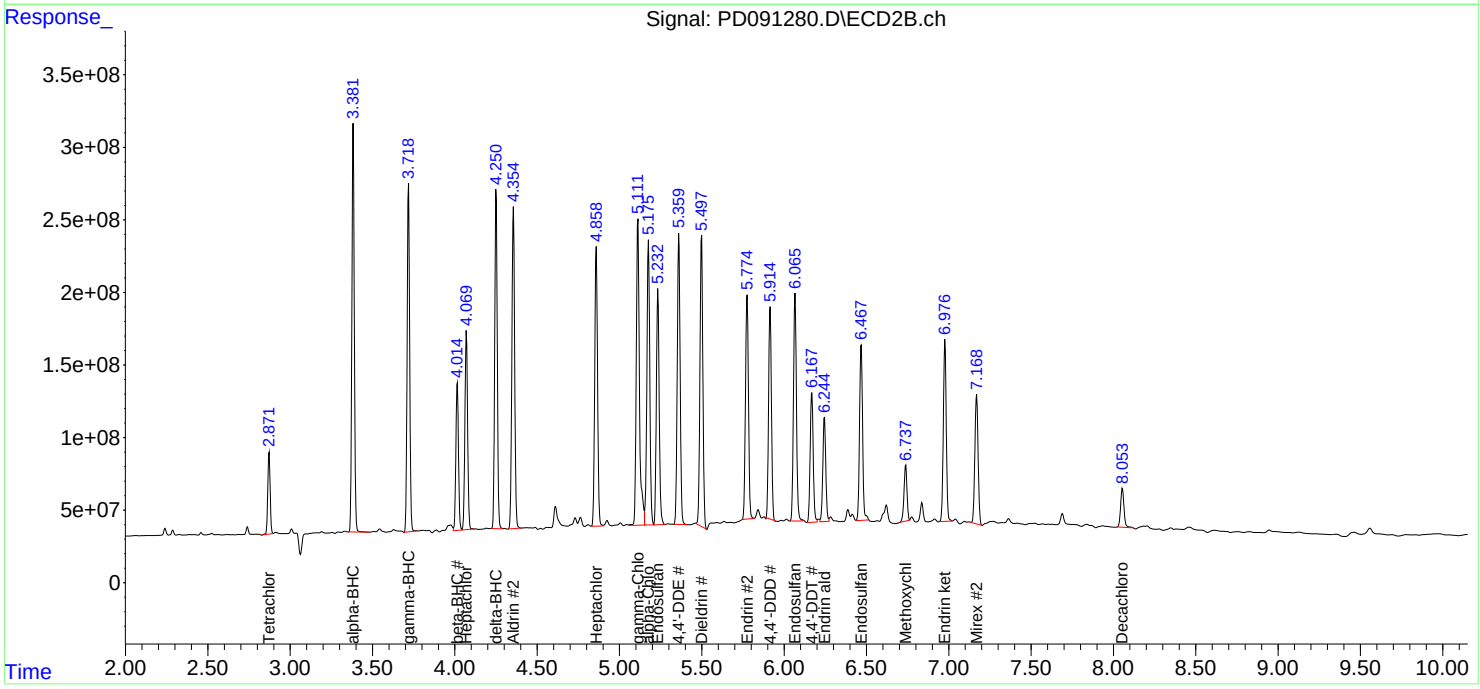
**Instrument :**
ECD_D
**ClientSampleId :**
B3-0.0-1.0-20251117MSD

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 01:31:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD111525.M
Quant Title : GC Extractables
QLast Update : Sat Nov 15 04:46:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



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

# Manual Integration Report

| Sequence: | PD111525 | Instrument | ECD_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PEM | PD091194.D | 4,4"-DDE #2 | Abdul | 11/17/2025 8:53:25 AM | Sohil | 11/17/2025 2:13:45 | Peak Integrated by Software |
| PEM | PD091194.D | Endrin aldehyde | Abdul | 11/17/2025 8:53:25 AM | Sohil | 11/17/2025 2:13:45 | Peak Integrated by Software |
| PEM | PD091194.D | Endrin aldehyde #2 | Abdul | 11/17/2025 8:53:25 AM | Sohil | 11/17/2025 2:13:45 | Peak Integrated by Software |
| PSTDICC005 | PD091200.D | delta-BHC | Abdul | 11/17/2025 8:54:07 AM | Sohil | 11/17/2025 2:13:50 | Peak Integrated by Software |
| PSTDICC005 | PD091200.D | Heptachlor | Abdul | 11/17/2025 8:54:07 AM | Sohil | 11/17/2025 2:13:50 | Peak Integrated by Software |
| PSTDICC005 | PD091200.D | Heptachlor epoxide | Abdul | 11/17/2025 8:54:07 AM | Sohil | 11/17/2025 2:13:50 | Peak Integrated by Software |
| PSTDICC005 | PD091200.D | Tetrachloro-m-xylene | Abdul | 11/17/2025 8:54:07 AM | Sohil | 11/17/2025 2:13:50 | Peak Integrated by Software |
| PSTDICC005 | PD091200.D | Tetrachloro-m-xylene #2 | Abdul | 11/17/2025 8:54:07 AM | Sohil | 11/17/2025 2:13:50 | Peak Integrated by Software |
| PEM | PD091215.D | 4,4"-DDE #2 | Abdul | 11/17/2025 8:53:18 AM | Sohil | 11/17/2025 2:14:03 | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | PD111925 | Instrument | ECD_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q3662-02 | PD091278.D | 4,4"-DDE | Abdul | 11/20/2025 8:19:39 AM | Sohil | 11/20/2025 4:02:44 | Peak Integrated by Software |
| Q3662-02 | PD091278.D | 4,4"-DDE #2 | Abdul | 11/20/2025 8:19:39 AM | Sohil | 11/20/2025 4:02:44 | Peak Integrated by Software |
| Q3662-02 | PD091278.D | 4,4"-DDT | Abdul | 11/20/2025 8:19:39 AM | Sohil | 11/20/2025 4:02:44 | Peak Integrated by Software |
| Q3662-02 | PD091278.D | Decachlorobiphenyl | Abdul | 11/20/2025 8:19:39 AM | Sohil | 11/20/2025 4:02:44 | Peak Integrated by Software |
| Q3662-02 | PD091278.D | Heptachlor epoxide #2 | Abdul | 11/20/2025 8:19:39 AM | Sohil | 11/20/2025 4:02:44 | Peak Integrated by Software |
| Q3662-02 | PD091278.D | Tetrachloro-m-xylene | Abdul | 11/20/2025 8:19:39 AM | Sohil | 11/20/2025 4:02:44 | Peak Integrated by Software |
| Q3662-02MS | PD091279.D | Decachlorobiphenyl | Abdul | 11/20/2025 8:19:36 AM | Sohil | 11/20/2025 4:02:46 | Peak Integrated by Software |
| Q3662-02MS | PD091279.D | Endosulfan II | Abdul | 11/20/2025 8:19:36 AM | Sohil | 11/20/2025 4:02:46 | Peak Integrated by Software |
| Q3662-02MS | PD091279.D | Endosulfan II #2 | Abdul | 11/20/2025 8:19:36 AM | Sohil | 11/20/2025 4:02:46 | Peak Integrated by Software |
| Q3662-02MS | PD091279.D | gamma-BHC (Lindane) | Abdul | 11/20/2025 8:19:36 AM | Sohil | 11/20/2025 4:02:46 | Peak Integrated by Software |
| Q3662-02MS | PD091279.D | gamma-Chlordane | Abdul | 11/20/2025 8:19:36 AM | Sohil | 11/20/2025 4:02:46 | Peak Integrated by Software |
| Q3662-02MS | PD091279.D | Mirex | Abdul | 11/20/2025 8:19:36 AM | Sohil | 11/20/2025 4:02:46 | Peak Integrated by Software |
| Q3662-02MS | PD091279.D | Tetrachloro-m-xylene | Abdul | 11/20/2025 8:19:36 AM | Sohil | 11/20/2025 4:02:46 | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | PD111925 | Instrument | ECD_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q3662-02MSD | PD091280.D | Endosulfan II | Abdul | 11/20/2025 8:19:32 AM | Sohil | 11/20/2025 4:02:49 | Peak Integrated by Software |
| Q3662-02MSD | PD091280.D | Endosulfan II #2 | Abdul | 11/20/2025 8:19:32 AM | Sohil | 11/20/2025 4:02:49 | Peak Integrated by Software |
| Q3662-02MSD | PD091280.D | gamma-BHC (Lindane) | Abdul | 11/20/2025 8:19:32 AM | Sohil | 11/20/2025 4:02:49 | Peak Integrated by Software |
| Q3662-02MSD | PD091280.D | gamma-Chlordane | Abdul | 11/20/2025 8:19:32 AM | Sohil | 11/20/2025 4:02:49 | Peak Integrated by Software |
| Q3662-02MSD | PD091280.D | Mirex | Abdul | 11/20/2025 8:19:32 AM | Sohil | 11/20/2025 4:02:49 | Peak Integrated by Software |
| Q3662-02MSD | PD091280.D | Tetrachloro-m-xylene | Abdul | 11/20/2025 8:19:32 AM | Sohil | 11/20/2025 4:02:49 | Peak Integrated by Software |
| Q3662-04 | PD091281.D | 4,4"-DDE | Abdul | 11/20/2025 8:19:28 AM | Sohil | 11/20/2025 4:02:51 | Peak Integrated by Software |
| Q3662-04 | PD091281.D | 4,4"-DDT | Abdul | 11/20/2025 8:19:28 AM | Sohil | 11/20/2025 4:02:51 | Peak Integrated by Software |
| Q3662-04 | PD091281.D | alpha-Chlordane #2 | Abdul | 11/20/2025 8:19:28 AM | Sohil | 11/20/2025 4:02:51 | Peak Integrated by Software |
| Q3662-04 | PD091281.D | gamma-Chlordane #2 | Abdul | 11/20/2025 8:19:28 AM | Sohil | 11/20/2025 4:02:51 | Peak Integrated by Software |
| PEM | PD091286.D | 4,4"-DDE #2 | Abdul | 11/20/2025 8:19:00 AM | Sohil | 11/20/2025 4:03:02 | Peak Integrated by Software |
| PEM | PD091286.D | beta-BHC #2 | Abdul | 11/20/2025 8:19:00 AM | Sohil | 11/20/2025 4:03:02 | Peak Integrated by Software |
| PEM | PD091286.D | Endrin aldehyde | Abdul | 11/20/2025 8:19:00 AM | Sohil | 11/20/2025 4:03:02 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PD111925 | Instrument | ECD_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PEM | PD091286.D | Tetrachloro-m-xylene | Abdul | 11/20/2025 8:19:00 AM | Sohil | 11/20/2025 4:03:02 | Peak Integrated by Software |
| PSTDCCC050 | PD091287.D | 4,4"-DDE #2 | Abdul | 11/20/2025 8:18:55 AM | Sohil | 11/20/2025 4:03:05 | Peak Integrated by Software |
| PSTDCCC050 | PD091287.D | Endosulfan II | Abdul | 11/20/2025 8:18:55 AM | Sohil | 11/20/2025 4:03:05 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | pd112125 | Instrument | ECD_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PEM | PD091329.D | 4,4"-DDE #2 | rahul | 11/26/2025 4:51:50 AM | mohammad | 11/26/2025 4:54:22 | Peak Integrated by Software |
| PB170628BS | PD091334.D | 4,4"-DDE #2 | rahul | 11/26/2025 4:51:56 AM | mohammad | 11/26/2025 4:54:22 | Peak Integrated by Software |
| PB170628BS | PD091334.D | Endrin ketone #2 | rahul | 11/26/2025 4:51:56 AM | mohammad | 11/26/2025 4:54:22 | Peak Integrated by Software |

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**Instrument ID: ECD_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # PD111525

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/14/2025 3:12:58 PM | | |
| Supervise By | Sohil | Supervise On | 11/17/2025 2:14:18 PM | | |
| SubDirectory | PD111525 | HP Acquire Method | | HP Processing Method | pd111525 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24942,PP24651 |
| Initial Calibration Stds | PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,PP24763,PP24764 |
| CCC | PP24751,PP24756,PP24761 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24754,PP24759,PP24761 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | I.BLK | PD091193.D | 14 Nov 2025 20:01 | AR\AJ | Ok |
| 2 | PEM | PD091194.D | 14 Nov 2025 20:15 | AR\AJ | Ok,M |
| 3 | RESCHK | PD091195.D | 14 Nov 2025 20:43 | AR\AJ | Ok |
| 4 | PSTDICC100 | PD091196.D | 14 Nov 2025 20:56 | AR\AJ | Ok |
| 5 | PSTDICC075 | PD091197.D | 14 Nov 2025 21:10 | AR\AJ | Ok |
| 6 | PSTDICC050 | PD091198.D | 14 Nov 2025 21:24 | AR\AJ | Ok |
| 7 | PSTDICC025 | PD091199.D | 14 Nov 2025 21:37 | AR\AJ | Ok |
| 8 | PSTDICC005 | PD091200.D | 14 Nov 2025 21:51 | AR\AJ | Ok,M |
| 9 | PCHLORICC1000 | PD091201.D | 14 Nov 2025 22:04 | AR\AJ | Ok |
| 10 | PCHLORICC750 | PD091202.D | 14 Nov 2025 22:18 | AR\AJ | Ok |
| 11 | PCHLORICC500 | PD091203.D | 14 Nov 2025 22:32 | AR\AJ | Ok |
| 12 | PCHLORICC250 | PD091204.D | 14 Nov 2025 22:46 | AR\AJ | Ok,M |
| 13 | PCHLORICC50 | PD091205.D | 14 Nov 2025 22:59 | AR\AJ | Ok,M |
| 14 | PTOXICC1000 | PD091206.D | 14 Nov 2025 23:13 | AR\AJ | Ok |
| 15 | PTOXICC750 | PD091207.D | 14 Nov 2025 23:27 | AR\AJ | Ok |
| 16 | PTOXICC500 | PD091208.D | 14 Nov 2025 23:40 | AR\AJ | Ok |
| 17 | PTOXICC250 | PD091209.D | 14 Nov 2025 23:54 | AR\AJ | Ok |
| 18 | PTOXICC100 | PD091210.D | 15 Nov 2025 00:08 | AR\AJ | Ok |
| 19 | PSTDICV050 | PD091211.D | 15 Nov 2025 00:21 | AR\AJ | Ok |
| 20 | PCHLORICV050 | PD091212.D | 15 Nov 2025 00:49 | AR\AJ | Ok |
| 21 | PTOXICV050 | PD091213.D | 15 Nov 2025 01:30 | AR\AJ | Ok |

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**Instrument ID: ECD_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # PD111525

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/14/2025 3:12:58 PM | | |
| Supervise By | Sohil | Supervise On | 11/17/2025 2:14:18 PM | | |
| SubDirectory | PD111525 | HP Acquire Method | | HP Processing Method | pd111525 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24942,PP24651 |
| Initial Calibration Stds | PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762 ,PP24763,PP24764 |
| CCC | PP24751,PP24756,PP24761 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24754,PP24759,PP24761 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | I.BLK | PD091214.D | 15 Nov 2025 01:44 | AR\AJ | Ok |
| 23 | PEM | PD091215.D | 15 Nov 2025 01:57 | AR\AJ | Ok,M |
| 24 | PSTDCCC050 | PD091216.D | 15 Nov 2025 02:11 | AR\AJ | Ok |

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**Instrument ID: ECD_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # PD111925

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 11/20/2025 8:20:36 AM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 4:03:21 PM | | |
| SubDirectory | PD111925 | HP Acquire Method | | HP Processing Method | pd111525 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24942,PP24651 |
| Initial Calibration Stds | PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,PP24763,PP24764 |
| CCC | PP24751,PP24756,PP24761 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24754,PP24759,PP24761 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PD091263.D | 19 Nov 2025 08:52 | AR\AJ | Ok |
| 2 | I.BLK | PD091264.D | 19 Nov 2025 09:05 | AR\AJ | Ok |
| 3 | PEM | PD091265.D | 19 Nov 2025 09:19 | AR\AJ | Ok |
| 4 | PSTDCCC050 | PD091266.D | 19 Nov 2025 12:24 | AR\AJ | Ok |
| 5 | Q3660-01 | PD091267.D | 19 Nov 2025 12:38 | AR\AJ | Ok |
| 6 | PB170610BS | PD091268.D | 19 Nov 2025 13:33 | AR\AJ | Not Ok |
| 7 | PB170610BSD | PD091269.D | 19 Nov 2025 13:54 | AR\AJ | Not Ok |
| 8 | PB170628BL | PD091270.D | 19 Nov 2025 14:07 | AR\AJ | Ok |
| 9 | PB170628BS | PD091271.D | 19 Nov 2025 14:21 | AR\AJ | Not Ok |
| 10 | Q3483-20 | PD091272.D | 19 Nov 2025 14:34 | AR\AJ | Dilution |
| 11 | Q3669-01 | PD091273.D | 19 Nov 2025 14:48 | AR\AJ | Ok,M |
| 12 | Q3483-20DL | PD091274.D | 19 Nov 2025 15:02 | AR\AJ | Ok,M |
| 13 | I.BLK | PD091275.D | 19 Nov 2025 15:16 | AR\AJ | Ok |
| 14 | PSTDCCC050 | PD091276.D | 19 Nov 2025 15:55 | AR\AJ | Ok |
| 15 | PP25072 | PD091277.D | 19 Nov 2025 16:09 | AR\AJ | Ok |
| 16 | Q3662-02 | PD091278.D | 19 Nov 2025 16:24 | AR\AJ | Ok,M |
| 17 | Q3662-02MS | PD091279.D | 19 Nov 2025 16:37 | AR\AJ | Ok,M |
| 18 | Q3662-02MSD | PD091280.D | 19 Nov 2025 16:51 | AR\AJ | Ok,M |
| 19 | Q3662-04 | PD091281.D | 19 Nov 2025 17:05 | AR\AJ | Ok,M |
| 20 | Q3664-01 | PD091282.D | 19 Nov 2025 17:18 | AR\AJ | Ok,M |
| 21 | Q3664-03 | PD091283.D | 19 Nov 2025 17:32 | AR\AJ | Ok,M |

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**Instrument ID: ECD_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # PD111925

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 11/20/2025 8:20:36 AM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 4:03:21 PM | | |
| SubDirectory | PD111925 | HP Acquire Method | | HP Processing Method | pd111525 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24942,PP24651 |
| Initial Calibration Stds | PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,PP24763,PP24764 |
| CCC | PP24751,PP24756,PP24761 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24754,PP24759,PP24761 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q3664-05 | PD091284.D | 19 Nov 2025 17:45 | AR\AJ | Ok,M |
| 23 | I.BLK | PD091285.D | 19 Nov 2025 17:59 | AR\AJ | Ok |
| 24 | PEM | PD091286.D | 19 Nov 2025 18:13 | AR\AJ | Ok,M |
| 25 | PSTDCCC050 | PD091287.D | 19 Nov 2025 18:40 | AR\AJ | Ok,M |
| 26 | PB170638BL | PD091288.D | 19 Nov 2025 18:54 | AR\AJ | Ok |
| 27 | PB170638BS | PD091289.D | 19 Nov 2025 19:07 | AR\AJ | Not Ok |
| 28 | PB170600TB | PD091290.D | 19 Nov 2025 19:21 | AR\AJ | Ok |
| 29 | Q3659-01 | PD091291.D | 19 Nov 2025 19:35 | AR\AJ | Ok |
| 30 | Q3659-01MS | PD091292.D | 19 Nov 2025 19:48 | AR\AJ | Ok,M |
| 31 | Q3659-01MSD | PD091293.D | 19 Nov 2025 20:02 | AR\AJ | Ok,M |
| 32 | Q3659-02 | PD091294.D | 19 Nov 2025 20:16 | AR\AJ | Ok |
| 33 | I.BLK | PD091295.D | 19 Nov 2025 20:29 | AR\AJ | Ok |
| 34 | PSTDCCC050 | PD091296.D | 19 Nov 2025 20:43 | AR\AJ | Ok |

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**Instrument ID: ECD_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # PD112125

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/26/2025 4:53:09 AM | | |
| Supervise By | mohammad | Supervise On | 11/26/2025 4:54:22 AM | | |
| SubDirectory | PD112125 | HP Acquire Method | | HP Processing Method | pd111525 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24942,PP24651 |
| Initial Calibration Stds | PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,PP24763,PP24764 |
| CCC | PP24751,PP24756,PP24761 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24754,PP24759,PP24761 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PD091327.D | 21 Nov 2025 08:55 | AR\AJ | Ok |
| 2 | I.BLK | PD091328.D | 21 Nov 2025 09:11 | AR\AJ | Ok |
| 3 | PEM | PD091329.D | 21 Nov 2025 09:25 | AR\AJ | Ok,M |
| 4 | PSTDCCC050 | PD091330.D | 21 Nov 2025 09:59 | AR\AJ | Ok |
| 5 | PB170610BS | PD091331.D | 21 Nov 2025 10:31 | AR\AJ | Ok |
| 6 | PB170610BSD | PD091332.D | 21 Nov 2025 11:07 | AR\AJ | Ok,M |
| 7 | PB170638BS | PD091333.D | 21 Nov 2025 11:24 | AR\AJ | Ok,M |
| 8 | PB170628BS | PD091334.D | 21 Nov 2025 11:38 | AR\AJ | Ok,M |
| 9 | PB170651BS | PD091335.D | 21 Nov 2025 12:32 | AR\AJ | Ok,M |
| 10 | PB170672BL | PD091336.D | 21 Nov 2025 12:46 | AR\AJ | Ok |
| 11 | PB170672BS | PD091337.D | 21 Nov 2025 13:00 | AR\AJ | Ok,M |
| 12 | Q3699-01 | PD091338.D | 21 Nov 2025 13:13 | AR\AJ | Ok,M |
| 13 | Q3699-03 | PD091339.D | 21 Nov 2025 13:27 | AR\AJ | ReRun |
| 14 | Q3699-03MS | PD091340.D | 21 Nov 2025 13:40 | AR\AJ | Ok,M |
| 15 | Q3699-03MSD | PD091341.D | 21 Nov 2025 13:54 | AR\AJ | Ok,M |
| 16 | Q3697-01 | PD091342.D | 21 Nov 2025 14:08 | AR\AJ | Ok |
| 17 | Q3697-02 | PD091343.D | 21 Nov 2025 14:21 | AR\AJ | Ok,M |
| 18 | Q3697-03 | PD091344.D | 21 Nov 2025 14:35 | AR\AJ | Ok,M |
| 19 | I.BLK | PD091345.D | 21 Nov 2025 14:48 | AR\AJ | Ok |
| 20 | PSTDCCC050 | PD091346.D | 21 Nov 2025 15:02 | AR\AJ | Ok |

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**Instrument ID:** ECD_D

## Daily Analysis Runlog For Sequence/QCBatch ID # PD111525

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/14/2025 3:12:58 PM | | |
| Supervise By | Sohil | Supervise On | 11/17/2025 2:14:18 PM | | |
| SubDirectory | PD111525 | HP Acquire Method | | HP Processing Method | pd111525 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24942,PP24651 |
| Initial Calibration Stds | PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,PP24763,PP24764 |
| CCC | PP24751,PP24756,PP24761 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24754,PP24759,PP24761 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | I.BLK | I.BLK | PD091193.D | 14 Nov 2025 20:01 | | AR\AJ | Ok |
| 2 | PEM | PEM | PD091194.D | 14 Nov 2025 20:15 | | AR\AJ | Ok,M |
| 3 | RESCHK | RESCHK | PD091195.D | 14 Nov 2025 20:43 | | AR\AJ | Ok |
| 4 | PSTDICC100 | PSTDICC100 | PD091196.D | 14 Nov 2025 20:56 | | AR\AJ | Ok |
| 5 | PSTDICC075 | PSTDICC075 | PD091197.D | 14 Nov 2025 21:10 | | AR\AJ | Ok |
| 6 | PSTDICC050 | PSTDICC050 | PD091198.D | 14 Nov 2025 21:24 | | AR\AJ | Ok |
| 7 | PSTDICC025 | PSTDICC025 | PD091199.D | 14 Nov 2025 21:37 | | AR\AJ | Ok |
| 8 | PSTDICC005 | PSTDICC005 | PD091200.D | 14 Nov 2025 21:51 | | AR\AJ | Ok,M |
| 9 | PCHLORICC1000 | PCHLORICC1000 | PD091201.D | 14 Nov 2025 22:04 | | AR\AJ | Ok |
| 10 | PCHLORICC750 | PCHLORICC750 | PD091202.D | 14 Nov 2025 22:18 | | AR\AJ | Ok |
| 11 | PCHLORICC500 | PCHLORICC500 | PD091203.D | 14 Nov 2025 22:32 | | AR\AJ | Ok |
| 12 | PCHLORICC250 | PCHLORICC250 | PD091204.D | 14 Nov 2025 22:46 | | AR\AJ | Ok,M |
| 13 | PCHLORICC50 | PCHLORICC50 | PD091205.D | 14 Nov 2025 22:59 | | AR\AJ | Ok,M |
| 14 | PTOXICC1000 | PTOXICC1000 | PD091206.D | 14 Nov 2025 23:13 | | AR\AJ | Ok |
| 15 | PTOXICC750 | PTOXICC750 | PD091207.D | 14 Nov 2025 23:27 | | AR\AJ | Ok |
| 16 | PTOXICC500 | PTOXICC500 | PD091208.D | 14 Nov 2025 23:40 | | AR\AJ | Ok |
| 17 | PTOXICC250 | PTOXICC250 | PD091209.D | 14 Nov 2025 23:54 | | AR\AJ | Ok |
| 18 | PTOXICC100 | PTOXICC100 | PD091210.D | 15 Nov 2025 00:08 | | AR\AJ | Ok |

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**Instrument ID:** ECD_D

## Daily Analysis Runlog For Sequence/QCBatch ID # PD111525

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/14/2025 3:12:58 PM | | |
| Supervise By | Sohil | Supervise On | 11/17/2025 2:14:18 PM | | |
| SubDirectory | PD111525 | HP Acquire Method | | HP Processing Method | pd111525 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24942,PP24651 |
| Initial Calibration Stds | PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,PP24763,PP24764 |
| CCC | PP24751,PP24756,PP24761 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24754,PP24759,PP24761 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | PSTDICV050 | ICVPD111525 | PD091211.D | 15 Nov 2025 00:21 | | AR\AJ | Ok |
| 20 | PCHLORICV050 | ICVPD111525CHLOR | PD091212.D | 15 Nov 2025 00:49 | | AR\AJ | Ok |
| 21 | PTOXICV050 | ICVPD111525TOX | PD091213.D | 15 Nov 2025 01:30 | | AR\AJ | Ok |
| 22 | I.BLK | I.BLK | PD091214.D | 15 Nov 2025 01:44 | | AR\AJ | Ok |
| 23 | PEM | PEM | PD091215.D | 15 Nov 2025 01:57 | | AR\AJ | Ok,M |
| 24 | PSTDCCC050 | PSTDCCC050 | PD091216.D | 15 Nov 2025 02:11 | | AR\AJ | Ok |

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**Instrument ID:** ECD_D

## Daily Analysis Runlog For Sequence/QCBatch ID # PD111925

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 11/20/2025 8:20:36 AM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 4:03:21 PM | | |
| SubDirectory | PD111925 | HP Acquire Method | | HP Processing Method | pd111525 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24942,PP24651 |
| Initial Calibration Stds | PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,PP24763,PP24764 |
| CCC | PP24751,PP24756,PP24761 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24754,PP24759,PP24761 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PD091263.D | 19 Nov 2025 08:52 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PD091264.D | 19 Nov 2025 09:05 | | AR\AJ | Ok |
| 3 | PEM | PEM | PD091265.D | 19 Nov 2025 09:19 | | AR\AJ | Ok |
| 4 | PSTDCCC050 | PSTDCCC050 | PD091266.D | 19 Nov 2025 12:24 | | AR\AJ | Ok |
| 5 | Q3660-01 | FRAC-TANK-M21012 | PD091267.D | 19 Nov 2025 12:38 | | AR\AJ | Ok |
| 6 | PB170610BS | PB170610BS | PD091268.D | 19 Nov 2025 13:33 | TCMX high in both column | AR\AJ | Not Ok |
| 7 | PB170610BSD | PB170610BSD | PD091269.D | 19 Nov 2025 13:54 | TCMX high in both column | AR\AJ | Not Ok |
| 8 | PB170628BL | PB170628BL | PD091270.D | 19 Nov 2025 14:07 | | AR\AJ | Ok |
| 9 | PB170628BS | PB170628BS | PD091271.D | 19 Nov 2025 14:21 | DCB high in 2nd column | AR\AJ | Not Ok |
| 10 | Q3483-20 | HW1025-PT-PEST-SOI | PD091272.D | 19 Nov 2025 14:34 | need dilution | AR\AJ | Dilution |
| 11 | Q3669-01 | EO-01-11182025 | PD091273.D | 19 Nov 2025 14:48 | | AR\AJ | Ok,M |
| 12 | Q3483-20DL | HW1025-PT-PEST-SOI | PD091274.D | 19 Nov 2025 15:02 | TCMX high in 2nd column | AR\AJ | Ok,M |
| 13 | I.BLK | I.BLK | PD091275.D | 19 Nov 2025 15:16 | | AR\AJ | Ok |
| 14 | PSTDCCC050 | PSTDCCC050 | PD091276.D | 19 Nov 2025 15:55 | | AR\AJ | Ok |
| 15 | PP25072 | PP25072 | PD091277.D | 19 Nov 2025 16:09 | | AR\AJ | Ok |
| 16 | Q3662-02 | B3-0.0-1.0-20251117 | PD091278.D | 19 Nov 2025 16:24 | | AR\AJ | Ok,M |
| 17 | Q3662-02MS | B3-0.0-1.0-20251117MS | PD091279.D | 19 Nov 2025 16:37 | | AR\AJ | Ok,M |
| 18 | Q3662-02MSD | B3-0.0-1.0-20251117MS | PD091280.D | 19 Nov 2025 16:51 | RPD Fail | AR\AJ | Ok,M |

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**Instrument ID:** ECD_D

## Daily Analysis Runlog For Sequence/QCBatch ID # PD111925

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 11/20/2025 8:20:36 AM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 4:03:21 PM | | |
| SubDirectory | PD111925 | HP Acquire Method | | HP Processing Method | pd111525 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24942,PP24651 |
| Initial Calibration Stds | PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,PP24763,PP24764 |
| CCC | PP24751,PP24756,PP24761 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24754,PP24759,PP24761 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3662-04 | B1-0.0-1.0-20251117 | PD091281.D | 19 Nov 2025 17:05 | | AR\AJ | Ok,M |
| 20 | Q3664-01 | ARS20-0001 | PD091282.D | 19 Nov 2025 17:18 | | AR\AJ | Ok,M |
| 21 | Q3664-03 | ARS20-0013 | PD091283.D | 19 Nov 2025 17:32 | | AR\AJ | Ok,M |
| 22 | Q3664-05 | 291399 | PD091284.D | 19 Nov 2025 17:45 | | AR\AJ | Ok,M |
| 23 | I.BLK | I.BLK | PD091285.D | 19 Nov 2025 17:59 | | AR\AJ | Ok |
| 24 | PEM | PEM | PD091286.D | 19 Nov 2025 18:13 | | AR\AJ | Ok,M |
| 25 | PSTDCCC050 | PSTDCCC050 | PD091287.D | 19 Nov 2025 18:40 | | AR\AJ | Ok,M |
| 26 | PB170638BL | PB170638BL | PD091288.D | 19 Nov 2025 18:54 | | AR\AJ | Ok |
| 27 | PB170638BS | PB170638BS | PD091289.D | 19 Nov 2025 19:07 | some compound recovery fail | AR\AJ | Not Ok |
| 28 | PB170600TB | PB170600TB | PD091290.D | 19 Nov 2025 19:21 | | AR\AJ | Ok |
| 29 | Q3659-01 | TANK-1-COMP-1 | PD091291.D | 19 Nov 2025 19:35 | | AR\AJ | Ok |
| 30 | Q3659-01MS | TANK-1-COMP-1MS | PD091292.D | 19 Nov 2025 19:48 | | AR\AJ | Ok,M |
| 31 | Q3659-01MSD | TANK-1-COMP-1MSD | PD091293.D | 19 Nov 2025 20:02 | | AR\AJ | Ok,M |
| 32 | Q3659-02 | TANK-1-COMP-2 | PD091294.D | 19 Nov 2025 20:16 | | AR\AJ | Ok |
| 33 | I.BLK | I.BLK | PD091295.D | 19 Nov 2025 20:29 | | AR\AJ | Ok |
| 34 | PSTDCCC050 | PSTDCCC050 | PD091296.D | 19 Nov 2025 20:43 | | AR\AJ | Ok |

M : Manual Integration

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**Instrument ID:** ECD_D

## Daily Analysis Runlog For Sequence/QCBatch ID # PD112125

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/26/2025 4:53:09 AM | | |
| Supervise By | mohammad | Supervise On | 11/26/2025 4:54:22 AM | | |
| SubDirectory | PD112125 | HP Acquire Method | | HP Processing Method | pd111525 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24942,PP24651 |
| Initial Calibration Stds | PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,PP24763,PP24764 |
| CCC | PP24751,PP24756,PP24761 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24754,PP24759,PP24761 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PD091327.D | 21 Nov 2025 08:55 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PD091328.D | 21 Nov 2025 09:11 | | AR\AJ | Ok |
| 3 | PEM | PEM | PD091329.D | 21 Nov 2025 09:25 | | AR\AJ | Ok,M |
| 4 | PSTDCCC050 | PSTDCCC050 | PD091330.D | 21 Nov 2025 09:59 | | AR\AJ | Ok |
| 5 | PB170610BS | PB170610BS | PD091331.D | 21 Nov 2025 10:31 | | AR\AJ | Ok |
| 6 | PB170610BSD | PB170610BSD | PD091332.D | 21 Nov 2025 11:07 | | AR\AJ | Ok,M |
| 7 | PB170638BS | PB170638BS | PD091333.D | 21 Nov 2025 11:24 | | AR\AJ | Ok,M |
| 8 | PB170628BS | PB170628BS | PD091334.D | 21 Nov 2025 11:38 | | AR\AJ | Ok,M |
| 9 | PB170651BS | PB170651BS | PD091335.D | 21 Nov 2025 12:32 | | AR\AJ | Ok,M |
| 10 | PB170672BL | PB170672BL | PD091336.D | 21 Nov 2025 12:46 | | AR\AJ | Ok |
| 11 | PB170672BS | PB170672BS | PD091337.D | 21 Nov 2025 13:00 | | AR\AJ | Ok,M |
| 12 | Q3699-01 | TR-04-112025 | PD091338.D | 21 Nov 2025 13:13 | | AR\AJ | Ok,M |
| 13 | Q3699-03 | TR-06-112025 | PD091339.D | 21 Nov 2025 13:27 | TCMX high in both column | AR\AJ | ReRun |
| 14 | Q3699-03MS | TR-06-112025 | PD091340.D | 21 Nov 2025 13:40 | | AR\AJ | Ok,M |
| 15 | Q3699-03MSD | TR-06-112025 | PD091341.D | 21 Nov 2025 13:54 | | AR\AJ | Ok,M |
| 16 | Q3697-01 | MOO-25-0331 | PD091342.D | 21 Nov 2025 14:08 | | AR\AJ | Ok |
| 17 | Q3697-02 | MOO-25-0332 | PD091343.D | 21 Nov 2025 14:21 | | AR\AJ | Ok,M |
| 18 | Q3697-03 | MOO-25-0333 | PD091344.D | 21 Nov 2025 14:35 | | AR\AJ | Ok,M |

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**Instrument ID:** ECD_D

## Daily Analysis Runlog For Sequence/QCBatch ID # PD112125

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/26/2025 4:53:09 AM | | |
| Supervise By | mohammad | Supervise On | 11/26/2025 4:54:22 AM | | |
| SubDirectory | PD112125 | HP Acquire Method | | HP Processing Method | pd111525 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24942,PP24651 |
| Initial Calibration Stds | PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,PP24763,PP24764 |
| CCC | PP24751,PP24756,PP24761 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24754,PP24759,PP24761 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | I.BLK | I.BLK | PD091345.D | 21 Nov 2025 14:48 | | AR\AJ | Ok |
| 20 | PSTDCCC050 | PSTDCCC050 | PD091346.D | 21 Nov 2025 15:02 | | AR\AJ | Ok |

M : Manual Integration

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**EXTRACTION LOGPAGE**

PB170628

**SOP ID:** M3541-ASE Extraction-15

**Clean Up SOP #:** Florisil

**Matrix :** Solid

**Weigh By:** EH

**Balance check:** EH

**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 :** 11/19/2025

**Extraction Start Time :** 08:55

**Extraction End Date :** 11/19/2025

**Extraction End Time :** 12:00

**Concentration By:** EH

**Supervisor By :** RUPESH

**Extraction Method:** [ ] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [√] Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 500 PPB | PP24766 |
| Surrogate | 1.0ML | 200 PPB | PP24663 |
| 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 | EP2660 |
| Baked Na2SO4 | N/A | EP2655 |
| Sand | N/A | E3951 |
| Hexane | N/A | E3984 |
| Florisil | N/A | E3976 |
| 9:1 Hexane:Acetone Mixture | N/A | EP2644 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

40ML Vial Lot # 03-40BTS721.

**KD Bath ID:** N/A

**KD Bath Temperature:** N/A

**Envap ID:** N-EVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/19/25 | RS (Ext lab) | R. Patel/PLBL CA |
| 12:05 | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB170628**

**Analytical Method:** M3541-ASE Extraction-15

**Concentration Date:** 11/19/2025

| Sample ID | Client Sample ID | Test | g/mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB170628BL | PBLK628 | Pesticide-TCL | 30.02 | N/A | ritesh | Evelyn | 10 | | | U3-1 |
| PB170628BS | PLCS628 | Pesticide-TCL | 30.01 | N/A | ritesh | Evelyn | 10 | | | 2 |
| Q3483-20 | HW1025-PT-PEST-SOIL | PESTICIDE Group1 | 29.98 | N/A | ritesh | Evelyn | 10 | A | | 3 |
| Q3662-02 | B3-0.0-1.0-20251117 | Pesticide-TCL | 30.01 | N/A | ritesh | Evelyn | 10 | A | | 4 |
| Q3662-02MS | B3-0.0-1.0-20251117MS | Pesticide-TCL | 30.05 | N/A | ritesh | Evelyn | 10 | A | | 5 |
| Q3662-02MSD | B3-0.0-1.0-20251117MSD | Pesticide-TCL | 30.08 | N/A | ritesh | Evelyn | 10 | A | | 6 |
| Q3662-04 | B3-0.0-1.0-20251117 | Pesticide-TCL | 30.04 | N/A | ritesh | Evelyn | 10 | A | | U4-1 |
| Q3664-01 | ARS20-0001 | Pesticide-TCL | 30.02 | N/A | ritesh | Evelyn | 10 | E | Concrete | 2 |
| Q3664-03 | ARS20-0013 | Pesticide-TCL | 30.07 | N/A | ritesh | Evelyn | 10 | E | Concrete | 3 |
| Q3664-05 | 291399 | Pesticide-TCL | 30.01 | N/A | ritesh | Evelyn | 10 | E | Concrete | 4 |
| Q3669-01 | EO-01-11182025 | Pesticide-TCL | 30.07 | N/A | ritesh | Evelyn | 10 | F | | 5 |

RS
11/19

* **Extracts relinguished on the same date as received.**

17062 8:55

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q3664P **WorkList ID :** 193210 **Department :** Extraction **Date :** 11-19-2025 08:36:46

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q3483-20 | HW1025-PT-PEST-SOIL | Solid | PESTICIDE Group1 | Cool 4 deg C | ALLI03 | QA Of | 10/27/2025 | 8081B |
| Q3662-02 | B3-0.0-1.0-20251117 | Solid | Pesticide-TCL | Cool 4 deg C | HDRI08 | D41 | 11/17/2025 | 8081B |
| Q3662-04 | B3-0.0-1.0-20251117 | Solid | Pesticide-TCL | Cool 4 deg C | HDRI08 | D41 | 11/17/2025 | 8081B |
| Q3664-01 | ARS20-0001 | Solid | Pesticide-TCL | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | 8081B |
| Q3664-03 | ARS20-0013 | Solid | Pesticide-TCL | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | 8081B |
| Q3664-05 | 291399 | Solid | Pesticide-TCL | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | 8081B |
| Q3669-01 | EO-01-11182025 | Solid | Pesticide-TCL | Cool 4 deg C | PSEG05 | D41 | 11/18/2025 | 8081B |

**Date/Time** 11/19/25 8:50
**Raw Sample Received by:** RJ (Extlab)
**Raw Sample Relinquished by:**



**Date/Time** 11/19/25 9:20
**Raw Sample Received by:**
**Raw Sample Relinquished by:** RJ (Extlab)

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q3662 | **OrderDate:** | 11/18/2025 11:14:00 AM |
| **Client:** | HDR, Inc. | **Project:** | PVWC Linear Construction |
| **Contact:** | Andrew Wadden | **Location:** | D41,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q3662-02** | **B3-0.0-1.0-20251117** | **SOIL** | | | **11/17/25** | | | **11/18/25** |
| | | | PCB | 8082A | | 11/19/25 | 11/19/25 | |
| | | | Pesticide-TCL | 8081B | | 11/19/25 | 11/19/25 | |
| **Q3662-04** | **B1-0.0-1.0-20251117** | **SOIL** | | | **11/17/25** | | | **11/18/25** |
| | | | PCB | 8082A | | 11/19/25 | 11/19/25 | |
| | | | Pesticide-TCL | 8081B | | 11/19/25 | 11/19/25 | |
| | | | EPH_NF | NJEPH | | 11/19/25 | 11/19/25 | |

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# Hit Summary Sheet
## SW-846

**SDG No.:** Q3662 **Order ID:** Q3662

**Client:** HDR, Inc. **Project ID:** PVWC Linear Construction

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|

**Client ID :**

**Total Concentration:** **0.000**

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TECHNICAL GROUP

A
B
C
D
E
F
G
H
I
J
K
L

# SAMPLE DATA

Raw Data: **PO115214.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.0-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-02 | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 84.7 |
| Sample Wt/Vol: | 30.01 g Final Vol: 10000 uL | Test: | PCB |
| Prep Method: | SW3541B Prep Date: 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | 4.70 | U | 1 | 4.70 | 20.1 | ug/kg | 11/19/25 13:17 | PB170627 |
| 11104-28-2 | Aroclor-1221 | 4.80 | U | 1 | 4.80 | 20.1 | ug/kg | 11/19/25 13:17 | PB170627 |
| 11141-16-5 | Aroclor-1232 | 4.40 | U | 1 | 4.40 | 20.1 | ug/kg | 11/19/25 13:17 | PB170627 |
| 53469-21-9 | Aroclor-1242 | 4.70 | U | 1 | 4.70 | 20.1 | ug/kg | 11/19/25 13:17 | PB170627 |
| 12672-29-6 | Aroclor-1248 | 7.00 | U | 1 | 7.00 | 20.1 | ug/kg | 11/19/25 13:17 | PB170627 |
| 11097-69-1 | Aroclor-1254 | 3.80 | U | 1 | 3.80 | 20.1 | ug/kg | 11/19/25 13:17 | PB170627 |
| 37324-23-5 | Aroclor-1262 | 5.90 | U | 1 | 5.90 | 20.1 | ug/kg | 11/19/25 13:17 | PB170627 |
| 11100-14-4 | Aroclor-1268 | 4.20 | U | 1 | 4.20 | 20.1 | ug/kg | 11/19/25 13:17 | PB170627 |
| 11096-82-5 | Aroclor-1260 | 3.80 | U | 1 | 3.80 | 20.1 | ug/kg | 11/19/25 13:17 | PB170627 |
| **SURROGATES** | | | | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 19.6 | | | 30 (21) - 150 (165) | 98% | SPK: 20 | | |
| 2051-24-3 | Decachlorobiphenyl | 16.1 | | | 30 (10) - 150 (170) | 81% | SPK: 20 | | |

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

Raw Data: **PO115215.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B1-0.0-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-04 | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 88.1 |
| Sample Wt/Vol: | 30.04 g Final Vol: 10000 uL | Test: | PCB |
| Prep Method: | SW3541B Prep Date: 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | 4.50 | U | 1 | 4.50 | 19.3 | ug/kg | 11/19/25 13:35 | PB170627 |
| 11104-28-2 | Aroclor-1221 | 4.60 | U | 1 | 4.60 | 19.3 | ug/kg | 11/19/25 13:35 | PB170627 |
| 11141-16-5 | Aroclor-1232 | 4.20 | U | 1 | 4.20 | 19.3 | ug/kg | 11/19/25 13:35 | PB170627 |
| 53469-21-9 | Aroclor-1242 | 4.50 | U | 1 | 4.50 | 19.3 | ug/kg | 11/19/25 13:35 | PB170627 |
| 12672-29-6 | Aroclor-1248 | 6.70 | U | 1 | 6.70 | 19.3 | ug/kg | 11/19/25 13:35 | PB170627 |
| 11097-69-1 | Aroclor-1254 | 3.60 | U | 1 | 3.60 | 19.3 | ug/kg | 11/19/25 13:35 | PB170627 |
| 37324-23-5 | Aroclor-1262 | 5.70 | U | 1 | 5.70 | 19.3 | ug/kg | 11/19/25 13:35 | PB170627 |
| 11100-14-4 | Aroclor-1268 | 4.10 | U | 1 | 4.10 | 19.3 | ug/kg | 11/19/25 13:35 | PB170627 |
| 11096-82-5 | Aroclor-1260 | 3.70 | U | 1 | 3.70 | 19.3 | ug/kg | 11/19/25 13:35 | PB170627 |
| **SURROGATES** | | | | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 19.6 | | | 30 (21) - 150 (165) | 98% | SPK: 20 | | |
| 2051-24-3 | Decachlorobiphenyl | 17.4 | | | 30 (10) - 150 (170) | 87% | SPK: 20 | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

# QC SUMMARY

Alliance TECHNICAL GROUP
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## Surrogate Summary

**SDG No.:** Q3662

**Client:** HDR, Inc.

**Analytical Method:** 8082A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Recovery(%) | Qual | Limits(%) Low | Limits(%) High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PO114870.D | PIBLK-PO114870.D | Tetrachloro-m-xyl | 1 | 20 | 15.5 | 77 | | 70 (60) | 130 (140) |
| | | Decachlorobiphen | 1 | 20 | 16.8 | 84 | | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xyl | 2 | 20 | 16.2 | 81 | | 70 (60) | 130 (140) |
| | | Decachlorobiphen | 2 | 20 | 17.3 | 86 | | 70 (60) | 130 (140) |
| I.BLK-PO115209.D | PIBLK-PO115209.D | Tetrachloro-m-xyl | 1 | 20 | 25.2 | 126 | | 70 (60) | 130 (140) |
| | | Decachlorobiphen | 1 | 20 | 26.6 | 133 | * | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xyl | 2 | 20 | 24.7 | 124 | | 70 (60) | 130 (140) |
| | | Decachlorobiphen | 2 | 20 | 27.3 | 136 | * | 70 (60) | 130 (140) |
| Q3662-02 | B3-0.0-1.0-20251117 | Tetrachloro-m-xyl | 1 | 20 | 18.4 | 92 | | 30 (21) | 150 (165) |
| | | Decachlorobiphen | 1 | 20 | 15.1 | 75 | | 30 (10) | 150 (170) |
| | | Tetrachloro-m-xyl | 2 | 20 | 19.6 | 98 | | 30 (21) | 150 (165) |
| | | Decachlorobiphen | 2 | 20 | 16.1 | 81 | | 30 (10) | 150 (170) |
| Q3662-04 | B1-0.0-1.0-20251117 | Tetrachloro-m-xyl | 1 | 20 | 18.5 | 93 | | 30 (21) | 150 (165) |
| | | Decachlorobiphen | 1 | 20 | 17.4 | 87 | | 30 (10) | 150 (170) |
| | | Tetrachloro-m-xyl | 2 | 20 | 19.6 | 98 | | 30 (21) | 150 (165) |
| | | Decachlorobiphen | 2 | 20 | 14.7 | 73 | | 30 (10) | 150 (170) |
| I.BLK-PO115224.D | PIBLK-PO115224.D | Tetrachloro-m-xyl | 1 | 20 | 22.5 | 112 | | 70 (60) | 130 (140) |
| | | Decachlorobiphen | 1 | 20 | 22.6 | 113 | | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xyl | 2 | 20 | 22.2 | 111 | | 70 (60) | 130 (140) |
| | | Decachlorobiphen | 2 | 20 | 23.2 | 116 | | 70 (60) | 130 (140) |
| I.BLK-PQ071272.D | PIBLK-PQ071272.D | Tetrachloro-m-xyl | 1 | 20 | 21.9 | 110 | | 70 (60) | 130 (140) |
| | | Decachlorobiphen | 1 | 20 | 22.2 | 111 | | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xyl | 2 | 20 | 22.2 | 111 | | 70 (60) | 130 (140) |
| | | Decachlorobiphen | 2 | 20 | 21.7 | 109 | | 70 (60) | 130 (140) |
| I.BLK-PQ071333.D | PIBLK-PQ071333.D | Tetrachloro-m-xyl | 1 | 20 | 22.8 | 114 | | 70 (60) | 130 (140) |
| | | Decachlorobiphen | 1 | 20 | 22.9 | 115 | | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xyl | 2 | 20 | 26.5 | 132 | * | 70 (60) | 130 (140) |
| | | Decachlorobiphen | 2 | 20 | 25.6 | 128 | | 70 (60) | 130 (140) |
| PB170627BL | PB170627BL | Tetrachloro-m-xyl | 1 | 20 | 18.4 | 92 | | 30 (21) | 150 (165) |
| | | Decachlorobiphen | 1 | 20 | 18.6 | 93 | | 30 (10) | 150 (170) |
| | | Tetrachloro-m-xyl | 2 | 20 | 21.5 | 107 | | 30 (21) | 150 (165) |
| | | Decachlorobiphen | 2 | 20 | 21.0 | 105 | | 30 (10) | 150 (170) |
| PB170627BS | PB170627BS | Tetrachloro-m-xyl | 1 | 20 | 18.6 | 93 | | 30 (21) | 150 (165) |
| | | Decachlorobiphen | 1 | 20 | 18.5 | 93 | | 30 (10) | 150 (170) |
| | | Tetrachloro-m-xyl | 2 | 20 | 19.8 | 99 | | 30 (21) | 150 (165) |
| | | Decachlorobiphen | 2 | 20 | 20.5 | 102 | | 30 (10) | 150 (170) |
| Q3669-01MS | EO-01-11182025MS | Tetrachloro-m-xyl | 1 | 20 | 10.9 | 54 | | 30 (21) | 150 (165) |
| | | Decachlorobiphen | 1 | 20 | 12.2 | 61 | | 30 (10) | 150 (170) |
| | | Tetrachloro-m-xyl | 2 | 20 | 12.7 | 64 | | 30 (21) | 150 (165) |
| | | Decachlorobiphen | 2 | 20 | 8.99 | 45 | | 30 (10) | 150 (170) |
| Q3669-01MSD | EO-01-11182025MSD | Tetrachloro-m-xyl | 1 | 20 | 11.1 | 56 | | 30 (21) | 150 (165) |

( ) = LABORATORY INHOUSE LIMIT

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## Surrogate Summary

**SDG No.:** Q3662

**Client:** HDR, Inc.

**Analytical Method:** 8082A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Recovery(%) | Qual | Limits(%) Low | Limits(%) High |
|---|---|---|---|---|---|---|---|---|---|
| Q3669-01MSD | EO-01-11182025MSD | Decachlorobiphen | 1 | 20 | 12.2 | 61 | | 30 (10) | 150 (170) |
| | | Tetrachloro-m-xyl | 2 | 20 | 13.1 | 65 | | 30 (21) | 150 (165) |
| | | Decachlorobiphen | 2 | 20 | 8.74 | 44 | | 30 (10) | 150 (170) |
| I.BLK-PQ071345.D | PIBLK-PQ071345.D | Tetrachloro-m-xyl | 1 | 20 | 22.1 | 111 | | 70 (60) | 130 (140) |
| | | Decachlorobiphen | 1 | 20 | 20.1 | 101 | | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xyl | 2 | 20 | 25.9 | 129 | | 70 (60) | 130 (140) |
| | | Decachlorobiphen | 2 | 20 | 21.3 | 106 | | 70 (60) | 130 (140) |

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q3662 **Analytical Method:** 8082A

**Client:** HDR, Inc. **DataFile :** PQ071340.D

| | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** | **Q3669-01MS (Column 1)** | **Client Sample ID:** | | **EO-01-11182025MS** | | | | | | | | |
| | AR1016 | 179 | 0 | 90.2 | ug/kg | 50 | | | | 40 (39) | 140 (159) | |
| | AR1260 | 179 | 0 | 86.2 | ug/kg | 48 | | | | 40 (19) | 140 (160) | |
| **Lab Sample ID:** | **Q3669-01MS (Column 2)** | **Client Sample ID:** | | **EO-01-11182025MS** | | | | | | | | |
| | AR1016 | 179 | 0 | 101 | ug/kg | 56 | | | | 40 (39) | 140 (159) | |
| | AR1260 | 179 | 0 | 85.2 | ug/kg | 48 | | | | 40 (19) | 140 (160) | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q3662 **Analytical Method:** 8082A

**Client:** HDR, Inc. **DataFile :** PQ071341.D

| | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** | **Q3669-01MSD (Column 1)** | **Client Sample ID:** | | **EO-01-11182025MSD** | | | | | | | | |
| | AR1016 | 179.3 | 0 | 91.7 | ug/kg | 51 | | 2 | | 40 (39) | 140 (159) | 30 (21) |
| | AR1260 | 179.3 | 0 | 85.4 | ug/kg | 48 | | 0 | | 40 (19) | 140 (160) | 30 (15) |
| **Lab Sample ID:** | **Q3669-01MSD (Column 2)** | **Client Sample ID:** | | **EO-01-11182025MSD** | | | | | | | | |
| | AR1016 | 179.3 | 0 | 101 | ug/kg | 56 | | 0 | | 40 (39) | 140 (159) | 30 (21) |
| | AR1260 | 179.3 | 0 | 85.0 | ug/kg | 47 | | 2 | | 40 (19) | 140 (160) | 30 (15) |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

## SW-846

**SDG No.:** Q3662 **Analytical Method:** 8082A

**Client:** HDR, Inc. **Datafile :** PQ071335.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB170627BS (Column 1) | AR1016 | 166.5 | 130 | ug/kg | 78 | | | | 40 (71) | 140 (120) | |
| | AR1260 | 166.5 | 123 | ug/kg | 74 | | | | 40 (65) | 140 (130) | |
| PB170627BS (Column 2) | AR1016 | 166.5 | 143 | ug/kg | 86 | | | | 40 (71) | 140 (120) | |
| | AR1260 | 166.5 | 141 | ug/kg | 85 | | | | 40 (65) | 140 (130) | |

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB170627BL

Lab Name: Alliance | Contract: HDRI08

Lab Code: ACE | SDG NO.: Q3662

Lab Sample ID: PB170627BL | Lab File ID: PQ071334.D

Matrix: (soil/water) Solid | Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N | Date Extracted: 11/19/2025

Date Analyzed (1): 11/19/2025 | Date Analyzed (2): 11/19/2025

Time Analyzed (1): 13:34 | Time Analyzed (2): 13:34

Instrument ID (1): ECD_Q | Instrument ID (2): ECD_Q

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 |
|---|---|---|---|---|
| B3-0.0-1.0-20251117 | Q3662-02 | PO115214.D | 11/19/2025 | 11/19/2025 |
| B1-0.0-1.0-20251117 | Q3662-04 | PO115215.D | 11/19/2025 | 11/19/2025 |
| PB170627BS | PB170627BS | PQ071335.D | 11/19/2025 | 11/19/2025 |
| EO-01-11182025MS | Q3669-01MS | PQ071340.D | 11/19/2025 | 11/19/2025 |
| EO-01-11182025MSD | Q3669-01MSD | PQ071341.D | 11/19/2025 | 11/19/2025 |

COMMENTS:

# QC SAMPLE DATA

Raw Data: **PQ071334.D**

Alliance TECHNICAL GROUP
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | |
| Project: | PVWC Linear Construction | Date Received: | |
| Client Sample ID: | PB170627BL | SDG No.: | Q3662 |
| Lab Sample ID: | PB170627BL | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 g | Final Vol: 10000 uL | Test: PCB |
| Prep Method: | SW3541B | Prep Date: 11/19/25 | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.90 | U | 1 | 3.90 | 17.0 | ug/kg | 11/19/25 13:34 | PB170627 |
| 11104-28-2 | Aroclor-1221 | 4.00 | U | 1 | 4.00 | 17.0 | ug/kg | 11/19/25 13:34 | PB170627 |
| 11141-16-5 | Aroclor-1232 | 3.70 | U | 1 | 3.70 | 17.0 | ug/kg | 11/19/25 13:34 | PB170627 |
| 53469-21-9 | Aroclor-1242 | 4.00 | U | 1 | 4.00 | 17.0 | ug/kg | 11/19/25 13:34 | PB170627 |
| 12672-29-6 | Aroclor-1248 | 5.90 | U | 1 | 5.90 | 17.0 | ug/kg | 11/19/25 13:34 | PB170627 |
| 11097-69-1 | Aroclor-1254 | 3.20 | U | 1 | 3.20 | 17.0 | ug/kg | 11/19/25 13:34 | PB170627 |
| 37324-23-5 | Aroclor-1262 | 5.00 | U | 1 | 5.00 | 17.0 | ug/kg | 11/19/25 13:34 | PB170627 |
| 11100-14-4 | Aroclor-1268 | 3.60 | U | 1 | 3.60 | 17.0 | ug/kg | 11/19/25 13:34 | PB170627 |
| 11096-82-5 | Aroclor-1260 | 3.20 | U | 1 | 3.20 | 17.0 | ug/kg | 11/19/25 13:34 | PB170627 |
| **SURROGATES** | | | | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 21.5 | | | 30 (21) - 150 (165) | 107% | SPK: 20 | | |
| 2051-24-3 | Decachlorobiphenyl | 21.0 | | | 30 (10) - 150 (170) | 105% | SPK: 20 | | |

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: | HDR, Inc. | Date Collected: | 11/04/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/04/25 |
| Client Sample ID: | PIBLK-PO114870.D | SDG No.: | Q3662 |
| Lab Sample ID: | I.BLK-PO114870.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 |
| Sample Wt/Vol: | 1000 mL Final Vol: 10000 uL | Test: | PCB |
| Prep Method: | 5030 Prep Date: | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 1 | 0.097 | 0.50 | ug/L | 11/04/25 | po110425 |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 1 | 0.13 | 0.50 | ug/L | 11/04/25 | po110425 |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 1 | 0.096 | 0.50 | ug/L | 11/04/25 | po110425 |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 1 | 0.12 | 0.50 | ug/L | 11/04/25 | po110425 |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 1 | 0.071 | 0.50 | ug/L | 11/04/25 | po110425 |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 1 | 0.094 | 0.50 | ug/L | 11/04/25 | po110425 |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 1 | 0.081 | 0.50 | ug/L | 11/04/25 | po110425 |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 1 | 0.14 | 0.50 | ug/L | 11/04/25 | po110425 |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 1 | 0.11 | 0.50 | ug/L | 11/04/25 | po110425 |
| **SURROGATES** | | | | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 15.5 | | | 70 (60) - 130 (140) | 77% | SPK: 20 | | |
| 2051-24-3 | Decachlorobiphenyl | 16.8 | | | 70 (60) - 130 (140) | 84% | SPK: 20 | | |

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: | HDR, Inc. | Date Collected: | 11/19/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/19/25 |
| Client Sample ID: | PIBLK-PO115209.D | SDG No.: | Q3662 |
| Lab Sample ID: | I.BLK-PO115209.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 |
| Sample Wt/Vol: | 1000 mL Final Vol: 10000 uL | Test: | PCB |
| Prep Method: | 5030 Prep Date: | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 1 | 0.097 | 0.50 | ug/L | 11/19/25 | PO111925 |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 1 | 0.13 | 0.50 | ug/L | 11/19/25 | PO111925 |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 1 | 0.096 | 0.50 | ug/L | 11/19/25 | PO111925 |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 1 | 0.12 | 0.50 | ug/L | 11/19/25 | PO111925 |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 1 | 0.071 | 0.50 | ug/L | 11/19/25 | PO111925 |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 1 | 0.094 | 0.50 | ug/L | 11/19/25 | PO111925 |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 1 | 0.081 | 0.50 | ug/L | 11/19/25 | PO111925 |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 1 | 0.14 | 0.50 | ug/L | 11/19/25 | PO111925 |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 1 | 0.11 | 0.50 | ug/L | 11/19/25 | PO111925 |
| **SURROGATES** | | | | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 24.7 | | | 70 (60) - 130 (140) | 124% | SPK: 20 | | |
| 2051-24-3 | Decachlorobiphenyl | 26.6 | * | | 70 (60) - 130 (140) | 133% | SPK: 20 | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/19/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/19/25 |
| Client Sample ID: | PIBLK-PO115224.D | SDG No.: | Q3662 |
| Lab Sample ID: | I.BLK-PO115224.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 |
| Sample Wt/Vol: | 1000 mL Final Vol: 10000 uL | Test: | PCB |
| Prep Method: | 5030 Prep Date: | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 1 | 0.097 | 0.50 | ug/L | 11/19/25 | PO111925 |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 1 | 0.13 | 0.50 | ug/L | 11/19/25 | PO111925 |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 1 | 0.096 | 0.50 | ug/L | 11/19/25 | PO111925 |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 1 | 0.12 | 0.50 | ug/L | 11/19/25 | PO111925 |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 1 | 0.071 | 0.50 | ug/L | 11/19/25 | PO111925 |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 1 | 0.094 | 0.50 | ug/L | 11/19/25 | PO111925 |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 1 | 0.081 | 0.50 | ug/L | 11/19/25 | PO111925 |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 1 | 0.14 | 0.50 | ug/L | 11/19/25 | PO111925 |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 1 | 0.11 | 0.50 | ug/L | 11/19/25 | PO111925 |
| **SURROGATES** | | | | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 22.2 | | | 70 (60) - 130 (140) | 111% | SPK: 20 | | |
| 2051-24-3 | Decachlorobiphenyl | 22.6 | | | 70 (60) - 130 (140) | 113% | SPK: 20 | | |

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: | HDR, Inc. | Date Collected: | 11/18/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | PIBLK-PQ071272.D | SDG No.: | Q3662 |
| Lab Sample ID: | I.BLK-PQ071272.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 |
| Sample Wt/Vol: | 1000 mL Final Vol: 10000 uL | Test: | PCB |
| Prep Method: | 5030 Prep Date: | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 1 | 0.097 | 0.50 | ug/L | 11/18/25 | PQ111825 |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 1 | 0.13 | 0.50 | ug/L | 11/18/25 | PQ111825 |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 1 | 0.096 | 0.50 | ug/L | 11/18/25 | PQ111825 |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 1 | 0.12 | 0.50 | ug/L | 11/18/25 | PQ111825 |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 1 | 0.071 | 0.50 | ug/L | 11/18/25 | PQ111825 |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 1 | 0.094 | 0.50 | ug/L | 11/18/25 | PQ111825 |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 1 | 0.081 | 0.50 | ug/L | 11/18/25 | PQ111825 |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 1 | 0.14 | 0.50 | ug/L | 11/18/25 | PQ111825 |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 1 | 0.11 | 0.50 | ug/L | 11/18/25 | PQ111825 |
| **SURROGATES** | | | | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 21.9 | | | 70 (60) - 130 (140) | 110% | SPK: 20 | | |
| 2051-24-3 | Decachlorobiphenyl | 21.7 | | | 70 (60) - 130 (140) | 109% | SPK: 20 | | |

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: | HDR, Inc. | Date Collected: | 11/19/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/19/25 |
| Client Sample ID: | PIBLK-PQ071333.D | SDG No.: | Q3662 |
| Lab Sample ID: | I.BLK-PQ071333.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 |
| Sample Wt/Vol: | 1000 mL Final Vol: 10000 uL | Test: | PCB |
| Prep Method: | 5030 Prep Date: | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 1 | 0.097 | 0.50 | ug/L | 11/19/25 | pq111925 |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 1 | 0.13 | 0.50 | ug/L | 11/19/25 | pq111925 |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 1 | 0.096 | 0.50 | ug/L | 11/19/25 | pq111925 |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 1 | 0.12 | 0.50 | ug/L | 11/19/25 | pq111925 |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 1 | 0.071 | 0.50 | ug/L | 11/19/25 | pq111925 |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 1 | 0.094 | 0.50 | ug/L | 11/19/25 | pq111925 |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 1 | 0.081 | 0.50 | ug/L | 11/19/25 | pq111925 |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 1 | 0.14 | 0.50 | ug/L | 11/19/25 | pq111925 |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 1 | 0.11 | 0.50 | ug/L | 11/19/25 | pq111925 |
| **SURROGATES** | | | | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 22.8 | | | 70 (60) - 130 (140) | 114% | SPK: 20 | | |
| 2051-24-3 | Decachlorobiphenyl | 22.9 | | | 70 (60) - 130 (140) | 115% | SPK: 20 | | |

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: | HDR, Inc. | Date Collected: | 11/19/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/19/25 |
| Client Sample ID: | PIBLK-PQ071345.D | SDG No.: | Q3662 |
| Lab Sample ID: | I.BLK-PQ071345.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 |
| Sample Wt/Vol: | 1000 mL Final Vol: 10000 uL | Test: | PCB |
| Prep Method: | 5030 Prep Date: | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 1 | 0.097 | 0.50 | ug/L | 11/19/25 | pq111925 |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 1 | 0.13 | 0.50 | ug/L | 11/19/25 | pq111925 |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 1 | 0.096 | 0.50 | ug/L | 11/19/25 | pq111925 |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 1 | 0.12 | 0.50 | ug/L | 11/19/25 | pq111925 |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 1 | 0.071 | 0.50 | ug/L | 11/19/25 | pq111925 |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 1 | 0.094 | 0.50 | ug/L | 11/19/25 | pq111925 |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 1 | 0.081 | 0.50 | ug/L | 11/19/25 | pq111925 |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 1 | 0.14 | 0.50 | ug/L | 11/19/25 | pq111925 |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 1 | 0.11 | 0.50 | ug/L | 11/19/25 | pq111925 |
| **SURROGATES** | | | | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 22.1 | | | 70 (60) - 130 (140) | 111% | SPK: 20 | | |
| 2051-24-3 | Decachlorobiphenyl | 20.1 | | | 70 (60) - 130 (140) | 101% | SPK: 20 | | |

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

Raw Data: **PQ071335.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | |
| Project: | PVWC Linear Construction | Date Received: | |
| Client Sample ID: | PB170627BS | SDG No.: | Q3662 |
| Lab Sample ID: | PB170627BS | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 g | Final Vol: 10000 uL | Test: PCB |
| Prep Method: | SW3541B | Prep Date: 11/19/25 | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | 143 | | 1 | 3.90 | 17.0 | ug/kg | 11/19/25 13:48 | PB170627 |
| 11104-28-2 | Aroclor-1221 | 4.00 | U | 1 | 4.00 | 17.0 | ug/kg | 11/19/25 13:48 | PB170627 |
| 11141-16-5 | Aroclor-1232 | 3.70 | U | 1 | 3.70 | 17.0 | ug/kg | 11/19/25 13:48 | PB170627 |
| 53469-21-9 | Aroclor-1242 | 4.00 | U | 1 | 4.00 | 17.0 | ug/kg | 11/19/25 13:48 | PB170627 |
| 12672-29-6 | Aroclor-1248 | 5.90 | U | 1 | 5.90 | 17.0 | ug/kg | 11/19/25 13:48 | PB170627 |
| 11097-69-1 | Aroclor-1254 | 3.20 | U | 1 | 3.20 | 17.0 | ug/kg | 11/19/25 13:48 | PB170627 |
| 37324-23-5 | Aroclor-1262 | 5.00 | U | 1 | 5.00 | 17.0 | ug/kg | 11/19/25 13:48 | PB170627 |
| 11100-14-4 | Aroclor-1268 | 3.60 | U | 1 | 3.60 | 17.0 | ug/kg | 11/19/25 13:48 | PB170627 |
| 11096-82-5 | Aroclor-1260 | 141 | | 1 | 3.20 | 17.0 | ug/kg | 11/19/25 13:48 | PB170627 |
| **SURROGATES** | | | | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 19.8 | | | 30 (21) - 150 (165) | 99% | SPK: 20 | | |
| 2051-24-3 | Decachlorobiphenyl | 20.5 | | | 30 (10) - 150 (170) | 102% | SPK: 20 | | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PQ071340.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/18/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | EO-01-11182025MS | SDG No.: | Q3662 |
| Lab Sample ID: | Q3669-01MS | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 92.9 |
| Sample Wt/Vol: | 30.06 g | Final Vol: 10000 uL | Test: PCB |
| Prep Method: | SW3541B | Prep Date: 11/19/25 | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | 101 | | 1 | 4.20 | 18.3 | ug/kg | 11/19/25 15:01 | PB170627 |
| 11104-28-2 | Aroclor-1221 | 4.30 | U | 1 | 4.30 | 18.3 | ug/kg | 11/19/25 15:01 | PB170627 |
| 11141-16-5 | Aroclor-1232 | 4.00 | U | 1 | 4.00 | 18.3 | ug/kg | 11/19/25 15:01 | PB170627 |
| 53469-21-9 | Aroclor-1242 | 4.30 | U | 1 | 4.30 | 18.3 | ug/kg | 11/19/25 15:01 | PB170627 |
| 12672-29-6 | Aroclor-1248 | 6.40 | U | 1 | 6.40 | 18.3 | ug/kg | 11/19/25 15:01 | PB170627 |
| 11097-69-1 | Aroclor-1254 | 3.40 | U | 1 | 3.40 | 18.3 | ug/kg | 11/19/25 15:01 | PB170627 |
| 37324-23-5 | Aroclor-1262 | 5.40 | U | 1 | 5.40 | 18.3 | ug/kg | 11/19/25 15:01 | PB170627 |
| 11100-14-4 | Aroclor-1268 | 3.90 | U | 1 | 3.90 | 18.3 | ug/kg | 11/19/25 15:01 | PB170627 |
| 11096-82-5 | Aroclor-1260 | 86.2 | | 1 | 3.50 | 18.3 | ug/kg | 11/19/25 15:01 | PB170627 |
| **SURROGATES** | | | | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 12.7 | | | 30 (21) - 150 (165) | 64% | SPK: 20 | | |
| 2051-24-3 | Decachlorobiphenyl | 12.2 | | | 30 (10) - 150 (170) | 61% | SPK: 20 | | |

U = Not Detected
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PQ071341.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/18/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | EO-01-11182025MSD | SDG No.: | Q3662 |
| Lab Sample ID: | Q3669-01MSD | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 92.9 |
| Sample Wt/Vol: | 30.02 g Final Vol: 10000 uL | Test: | PCB |
| Prep Method: | SW3541B Prep Date: 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 12674-11-2 | Aroclor-1016 | 101 | | 1 | 4.20 | 18.3 | ug/kg | 11/19/25 15:16 | PB170627 |
| 11104-28-2 | Aroclor-1221 | 4.30 | U | 1 | 4.30 | 18.3 | ug/kg | 11/19/25 15:16 | PB170627 |
| 11141-16-5 | Aroclor-1232 | 4.00 | U | 1 | 4.00 | 18.3 | ug/kg | 11/19/25 15:16 | PB170627 |
| 53469-21-9 | Aroclor-1242 | 4.30 | U | 1 | 4.30 | 18.3 | ug/kg | 11/19/25 15:16 | PB170627 |
| 12672-29-6 | Aroclor-1248 | 6.40 | U | 1 | 6.40 | 18.3 | ug/kg | 11/19/25 15:16 | PB170627 |
| 11097-69-1 | Aroclor-1254 | 3.50 | U | 1 | 3.50 | 18.3 | ug/kg | 11/19/25 15:16 | PB170627 |
| 37324-23-5 | Aroclor-1262 | 5.40 | U | 1 | 5.40 | 18.3 | ug/kg | 11/19/25 15:16 | PB170627 |
| 11100-14-4 | Aroclor-1268 | 3.90 | U | 1 | 3.90 | 18.3 | ug/kg | 11/19/25 15:16 | PB170627 |
| 11096-82-5 | Aroclor-1260 | 85.4 | | 1 | 3.50 | 18.3 | ug/kg | 11/19/25 15:16 | PB170627 |
| **SURROGATES** | | | | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 13.1 | | | 30 (21) - 150 (165) | 65% | SPK: 20 | | |
| 2051-24-3 | Decachlorobiphenyl | 12.2 | | | 30 (10) - 150 (170) | 61% | SPK: 20 | | |

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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* = 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

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Instrument ID:** ECD_O **Calibration Date(s):** 11/04/2025 11/04/2025

**Calibration Times:** 09:39 18:31

GC Column: ZB-MR1 ID: 0.32 (mm)

**LAB FILE ID:** RT 1000 = PO114871.D RT 750 = PO114872.D

RT 500 = PO114873.D RT 250 = PO114874.D RT 050 = PO114875.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 050 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 5.39 | 5.59 |
| Aroclor-1016-2 | (2) | 5.51 | 5.51 | 5.51 | 5.51 | 5.51 | 5.51 | 5.41 | 5.61 |
| Aroclor-1016-3 | (3) | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.47 | 5.67 |
| Aroclor-1016-4 | (4) | 5.67 | 5.67 | 5.67 | 5.67 | 5.67 | 5.67 | 5.57 | 5.77 |
| Aroclor-1016-5 | (5) | 5.96 | 5.96 | 5.96 | 5.96 | 5.96 | 5.96 | 5.86 | 6.06 |
| Aroclor-1260-1 | (1) | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 6.97 | 7.17 |
| Aroclor-1260-2 | (2) | 7.33 | 7.33 | 7.33 | 7.33 | 7.33 | 7.33 | 7.23 | 7.43 |
| Aroclor-1260-3 | (3) | 7.68 | 7.68 | 7.68 | 7.68 | 7.68 | 7.68 | 7.58 | 7.78 |
| Aroclor-1260-4 | (4) | 7.90 | 7.90 | 7.90 | 7.90 | 7.90 | 7.90 | 7.80 | 8.00 |
| Aroclor-1260-5 | (5) | 8.21 | 8.21 | 8.21 | 8.21 | 8.21 | 8.21 | 8.11 | 8.31 |
| Decachlorobiphenyl | | 9.93 | 9.93 | 9.93 | 9.93 | 9.93 | 9.93 | 9.83 | 10.03 |
| Tetrachloro-m-xylene | | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.25 | 4.45 |
| Aroclor-1242-1 | (1) | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 5.39 | 5.59 |
| Aroclor-1242-2 | (2) | 5.51 | 5.51 | 5.51 | 5.51 | 5.51 | 5.51 | 5.41 | 5.61 |
| Aroclor-1242-3 | (3) | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.47 | 5.67 |
| Aroclor-1242-4 | (4) | 5.67 | 5.67 | 5.67 | 5.67 | 5.67 | 5.67 | 5.57 | 5.77 |
| Aroclor-1242-5 | (5) | 6.39 | 6.39 | 6.39 | 6.39 | 6.39 | 6.39 | 6.29 | 6.49 |
| Decachlorobiphenyl | | 9.93 | 9.93 | 9.93 | 9.93 | 9.93 | 9.93 | 9.83 | 10.03 |
| Tetrachloro-m-xylene | | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.25 | 4.45 |
| Aroclor-1248-1 | (1) | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 5.39 | 5.59 |
| Aroclor-1248-2 | (2) | 5.76 | 5.76 | 5.76 | 5.76 | 5.76 | 5.76 | 5.66 | 5.86 |
| Aroclor-1248-3 | (3) | 5.96 | 5.96 | 5.96 | 5.96 | 5.96 | 5.96 | 5.86 | 6.06 |
| Aroclor-1248-4 | (4) | 6.35 | 6.36 | 6.35 | 6.35 | 6.36 | 6.35 | 6.25 | 6.45 |
| Aroclor-1248-5 | (5) | 6.39 | 6.39 | 6.39 | 6.39 | 6.39 | 6.39 | 6.29 | 6.49 |
| Decachlorobiphenyl | | 9.93 | 9.93 | 9.93 | 9.93 | 9.93 | 9.93 | 9.83 | 10.03 |
| Tetrachloro-m-xylene | | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.25 | 4.45 |
| Aroclor-1254-1 | (1) | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.23 | 6.43 |
| Aroclor-1254-2 | (2) | 6.55 | 6.55 | 6.55 | 6.55 | 6.55 | 6.55 | 6.45 | 6.65 |
| Aroclor-1254-3 | (3) | 6.91 | 6.91 | 6.91 | 6.91 | 6.91 | 6.91 | 6.81 | 7.01 |
| Aroclor-1254-4 | (4) | 7.19 | 7.19 | 7.19 | 7.19 | 7.19 | 7.19 | 7.09 | 7.29 |
| Aroclor-1254-5 | (5) | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.50 | 7.70 |
| Decachlorobiphenyl | | 9.93 | 9.93 | 9.93 | 9.93 | 9.93 | 9.93 | 9.83 | 10.03 |
| Tetrachloro-m-xylene | | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.25 | 4.45 |
| Aroclor-1268-1 | (1) | 8.51 | 8.51 | 8.51 | 8.51 | 8.51 | 8.51 | 8.41 | 8.61 |
| Aroclor-1268-2 | (2) | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 | 8.50 | 8.70 |
| Aroclor-1268-3 | (3) | 8.82 | 8.82 | 8.82 | 8.82 | 8.82 | 8.82 | 8.72 | 8.92 |
| Aroclor-1268-4 | (4) | 9.22 | 9.22 | 9.22 | 9.22 | 9.21 | 9.22 | 9.12 | 9.32 |
| Aroclor-1268-5 | (5) | 9.61 | 9.61 | 9.61 | 9.61 | 9.61 | 9.61 | 9.51 | 9.71 |

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**RETENTION TIMES OF INITIAL CALIBRATION**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.93 | 9.93 | 9.93 | 9.93 | 9.93 | 9.93 | 9.83 | 10.03 |
| Tetrachloro-m-xylene | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.25 | 4.45 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Instrument ID:** ECD_O **Calibration Date(s):** 11/04/2025 11/04/2025

**Calibration Times:** 09:39 18:31

GC Column: ZB-MR2 ID: 0.32 (mm)

**LAB FILE ID:** RT 1000 = PO114871.D RT 750 = PO114872.D

RT 500 = PO114873.D RT 250 = PO114874.D RT 050 = PO114875.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 050 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.63 | 4.83 |
| Aroclor-1016-2 | (2) | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.65 | 4.85 |
| Aroclor-1016-3 | (3) | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.82 | 5.02 |
| Aroclor-1016-4 | (4) | 4.96 | 4.96 | 4.96 | 4.96 | 4.96 | 4.96 | 4.86 | 5.06 |
| Aroclor-1016-5 | (5) | 5.18 | 5.18 | 5.18 | 5.18 | 5.18 | 5.18 | 5.08 | 5.28 |
| Aroclor-1260-1 | (1) | 6.21 | 6.21 | 6.21 | 6.21 | 6.21 | 6.21 | 6.11 | 6.31 |
| Aroclor-1260-2 | (2) | 6.39 | 6.39 | 6.39 | 6.39 | 6.39 | 6.39 | 6.29 | 6.49 |
| Aroclor-1260-3 | (3) | 6.55 | 6.55 | 6.55 | 6.55 | 6.55 | 6.55 | 6.45 | 6.65 |
| Aroclor-1260-4 | (4) | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 6.92 | 7.12 |
| Aroclor-1260-5 | (5) | 7.26 | 7.26 | 7.26 | 7.26 | 7.26 | 7.26 | 7.16 | 7.36 |
| Decachlorobiphenyl | | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.54 | 8.74 |
| Tetrachloro-m-xylene | | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 | 3.55 | 3.75 |
| Aroclor-1242-1 | (1) | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.63 | 4.83 |
| Aroclor-1242-2 | (2) | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.65 | 4.85 |
| Aroclor-1242-3 | (3) | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.82 | 5.02 |
| Aroclor-1242-4 | (4) | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.91 | 5.11 |
| Aroclor-1242-5 | (5) | 5.53 | 5.53 | 5.53 | 5.53 | 5.53 | 5.53 | 5.43 | 5.63 |
| Decachlorobiphenyl | | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.54 | 8.74 |
| Tetrachloro-m-xylene | | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 | 3.55 | 3.75 |
| Aroclor-1248-1 | (1) | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.63 | 4.83 |
| Aroclor-1248-2 | (2) | 4.96 | 4.97 | 4.96 | 4.96 | 4.96 | 4.96 | 4.86 | 5.06 |
| Aroclor-1248-3 | (3) | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.91 | 5.11 |
| Aroclor-1248-4 | (4) | 5.18 | 5.18 | 5.18 | 5.18 | 5.18 | 5.18 | 5.08 | 5.28 |
| Aroclor-1248-5 | (5) | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.47 | 5.67 |
| Decachlorobiphenyl | | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.54 | 8.74 |
| Tetrachloro-m-xylene | | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 | 3.55 | 3.75 |
| Aroclor-1254-1 | (1) | 5.53 | 5.53 | 5.53 | 5.53 | 5.53 | 5.53 | 5.43 | 5.63 |
| Aroclor-1254-2 | (2) | 5.68 | 5.68 | 5.67 | 5.67 | 5.67 | 5.67 | 5.57 | 5.77 |
| Aroclor-1254-3 | (3) | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 | 5.98 | 6.18 |
| Aroclor-1254-4 | (4) | 6.30 | 6.30 | 6.30 | 6.30 | 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 | 8.64 | 8.64 | 8.64 | 8.64 | 8.54 | 8.74 |
| Tetrachloro-m-xylene | | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 | 3.55 | 3.75 |
| Aroclor-1268-1 | (1) | 7.54 | 7.54 | 7.54 | 7.54 | 7.54 | 7.54 | 7.44 | 7.64 |
| Aroclor-1268-2 | (2) | 7.61 | 7.61 | 7.61 | 7.61 | 7.61 | 7.61 | 7.51 | 7.71 |
| Aroclor-1268-3 | (3) | 7.81 | 7.81 | 7.81 | 7.81 | 7.81 | 7.81 | 7.71 | 7.91 |
| Aroclor-1268-4 | (4) | 8.10 | 8.10 | 8.10 | 8.10 | 8.10 | 8.10 | 8.00 | 8.20 |
| Aroclor-1268-5 | (5) | 8.39 | 8.39 | 8.39 | 8.39 | 8.39 | 8.39 | 8.29 | 8.49 |

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**RETENTION TIMES OF INITIAL CALIBRATION**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.54 | 8.74 |
| Tetrachloro-m-xylene | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 | 3.55 | 3.75 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Lab Code:** ACE
**Instrument ID:** ECD_O

**Contract:** HDRI08
**SDG NO.:** Q3662
**Calibration Date(s):** 11/04/2025 11/04/2025
**Calibration Times:** 09:39 18:31

**GC Column:** ZB-MR1 **ID:** 0.32 (mm)

**LAB FILE ID:** CF 1000 = PO114871.D CF 750 = PO114872.D
CF 500 = PO114873.D CF 250 = PO114874.D CF 050 = PO114875.D

| COMPOUND | | CF 1000 | CF 750 | CF 500 | CF 250 | CF 050 | CF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 235183609 | 242405119 | 252300612 | 252330724 | 247880040 | 246020021 | 3 |
| Aroclor-1016-2 | (2) | 380671765 | 391174169 | 403435360 | 408228592 | 401844700 | 397070917 | 3 |
| Aroclor-1016-3 | (3) | 214892716 | 220811199 | 230510330 | 231508016 | 217282560 | 223000964 | 3 |
| Aroclor-1016-4 | (4) | 180735079 | 184273587 | 191842228 | 192742164 | 194782360 | 188875084 | 3 |
| Aroclor-1016-5 | (5) | 166479276 | 173610481 | 179587174 | 180772736 | 190536000 | 178197133 | 5 |
| Aroclor-1260-1 | (1) | 291080181 | 301659089 | 311914366 | 329562032 | 293951540 | 305633442 | 5 |
| Aroclor-1260-2 | (2) | 393658847 | 402595176 | 414352186 | 418536840 | 350242960 | 395877202 | 7 |
| Aroclor-1260-3 | (3) | 331096941 | 340266576 | 347857958 | 348147780 | 291720640 | 331817979 | 7 |
| Aroclor-1260-4 | (4) | 303823322 | 310642864 | 321126472 | 321507392 | 268000240 | 305020058 | 7 |
| Aroclor-1260-5 | (5) | 714393776 | 724690244 | 737226162 | 719415648 | 670367440 | 713218654 | 3 |
| Decachlorobiphenyl | | 4451734610 | 4516548787 | 4612561720 | 4524869360 | 3995527600 | 4420248415 | 6 |
| Tetrachloro-m-xylene | | 7020403280 | 7162783533 | 7307727940 | 7156075200 | 6543618600 | 7038121711 | 4 |
| Aroclor-1242-1 | (1) | 180395803 | 184480117 | 189796832 | 192180524 | 184350480 | 186240751 | 2 |
| Aroclor-1242-2 | (2) | 290607708 | 295647931 | 305830174 | 302003732 | 299791360 | 298776181 | 2 |
| Aroclor-1242-3 | (3) | 164449629 | 167684461 | 173929682 | 174410736 | 176369820 | 171368866 | 3 |
| Aroclor-1242-4 | (4) | 136844790 | 140633719 | 146402846 | 139660276 | 152376540 | 143183634 | 4 |
| Aroclor-1242-5 | (5) | 138362947 | 141839337 | 145002188 | 138385972 | 141196180 | 140957325 | 2 |
| Decachlorobiphenyl | | 4729850460 | 4804993427 | 4858375920 | 4746069120 | 4160138600 | 4659885505 | 6 |
| Tetrachloro-m-xylene | | 7348004600 | 7445204373 | 7532777260 | 7262019280 | 6694579200 | 7256516943 | 5 |
| Aroclor-1248-1 | (1) | 130126160 | 135244476 | 137909000 | 141742196 | 154206600 | 139845686 | 6 |
| Aroclor-1248-2 | (2) | 182893435 | 187680161 | 194064692 | 196392780 | 211353600 | 194476934 | 5 |
| Aroclor-1248-3 | (3) | 203368877 | 206306241 | 213983954 | 212927108 | 217587500 | 210834736 | 3 |
| Aroclor-1248-4 | (4) | 240181487 | 246210361 | 255848644 | 255957264 | 264773260 | 252594203 | 4 |
| Aroclor-1248-5 | (5) | 225312398 | 230738423 | 239469078 | 240115800 | 243213880 | 235769916 | 3 |
| Decachlorobiphenyl | | 4590720290 | 4647354867 | 4744288880 | 4661202760 | 4211361200 | 4570985599 | 5 |
| Tetrachloro-m-xylene | | 7316541360 | 7442934853 | 7528054520 | 7402608560 | 7218400400 | 7381707939 | 2 |
| Aroclor-1254-1 | (1) | 240591852 | 247416493 | 258765478 | 257075152 | 263299240 | 253429643 | 3 |
| Aroclor-1254-2 | (2) | 346021204 | 353529297 | 371589652 | 368897016 | 412184820 | 370444398 | 7 |
| Aroclor-1254-3 | (3) | 372893964 | 380446979 | 397009938 | 384293176 | 389678940 | 384864599 | 2 |
| Aroclor-1254-4 | (4) | 315539209 | 321424513 | 336840998 | 326904952 | 342871860 | 328716306 | 3 |
| Aroclor-1254-5 | (5) | 295373361 | 300690525 | 312155076 | 300474784 | 300573260 | 301853401 | 2 |
| Decachlorobiphenyl | | 4791769470 | 4896862187 | 5061968640 | 4831244600 | 4661831200 | 4848735219 | 3 |
| Tetrachloro-m-xylene | | 7410585440 | 7526809333 | 7802184660 | 7481754040 | 7408041400 | 7525874975 | 2 |
| Aroclor-1268-1 | (1) | 876279188 | 885717404 | 893041022 | 887529864 | 813508780 | 871215252 | 4 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1268-2 | (2) | 748334854 | 756337347 | 765525536 | 759915712 | 702804360 | 746583562 | 3 |
| Aroclor-1268-3 | (3) | 663299706 | 672085827 | 679866912 | 671661004 | 617886840 | 660960058 | 4 |
| Aroclor-1268-4 | (4) | 274155738 | 277531193 | 282310020 | 282161716 | 286808980 | 280593529 | 2 |
| Aroclor-1268-5 | (5) | 1966581606 | 1979440064 | 1985729368 | 1956798376 | 1807416340 | 1939193151 | 4 |
| Decachlorobiphenyl | | 8288385350 | 8396434587 | 8504946880 | 8419357920 | 7722111200 | 8266247187 | 4 |
| Tetrachloro-m-xylene | | 7475792880 | 7636683133 | 7655291620 | 7597134240 | 7121440400 | 7497268455 | 3 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Lab Code:** ACE
**Instrument ID:** ECD_O

**Contract:** HDRI08
**SDG NO.:** Q3662
**Calibration Date(s):** 11/04/2025 11/04/2025
**Calibration Times:** 09:39 18:31

**GC Column:** ZB-MR2 **ID:** 0.32 (mm)

**LAB FILE ID:** CF 1000 = PO114871.D CF 750 = PO114872.D
CF 500 = PO114873.D CF 250 = PO114874.D CF 050 = PO114875.D

| COMPOUND | | CF 1000 | CF 750 | CF 500 | CF 250 | CF 050 | CF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 178795127 | 185535456 | 193106802 | 200932132 | 192907960 | 190255495 | 4 |
| Aroclor-1016-2 | (2) | 260787154 | 267435697 | 277593168 | 286495324 | 262010880 | 270864445 | 4 |
| Aroclor-1016-3 | (3) | 140310175 | 144533207 | 150201526 | 154962192 | 149858780 | 147973176 | 4 |
| Aroclor-1016-4 | (4) | 108607533 | 112021955 | 117721682 | 122827936 | 125909940 | 117417809 | 6 |
| Aroclor-1016-5 | (5) | 142235561 | 147493437 | 153611756 | 157990124 | 162236540 | 152713484 | 5 |
| Aroclor-1260-1 | (1) | 272865489 | 283696256 | 302549666 | 306994580 | 314431380 | 296107474 | 5 |
| Aroclor-1260-2 | (2) | 410849028 | 420744668 | 440173148 | 441650472 | 436738740 | 430031211 | 3 |
| Aroclor-1260-3 | (3) | 328919579 | 344471297 | 362206406 | 366201912 | 353957800 | 351151399 | 4 |
| Aroclor-1260-4 | (4) | 295043629 | 302500340 | 313130718 | 316509244 | 287959420 | 303028670 | 4 |
| Aroclor-1260-5 | (5) | 819932115 | 830411719 | 851082708 | 846532168 | 760181660 | 821628074 | 4 |
| Decachlorobiphenyl | | 3768213910 | 3862452533 | 4051635320 | 3997632280 | 3839185200 | 3903823849 | 3 |
| Tetrachloro-m-xylene | | 4444199150 | 4532189360 | 4610968540 | 4573862320 | 4172678600 | 4466779594 | 4 |
| Aroclor-1242-1 | (1) | 138347633 | 144438088 | 149108388 | 148877560 | 150336280 | 146221590 | 3 |
| Aroclor-1242-2 | (2) | 199908386 | 204961789 | 213926082 | 211880332 | 205062860 | 207147890 | 3 |
| Aroclor-1242-3 | (3) | 108216818 | 112229521 | 116418372 | 113485296 | 109537600 | 111977521 | 3 |
| Aroclor-1242-4 | (4) | 101919263 | 105301932 | 110004430 | 109236748 | 109193360 | 107131147 | 3 |
| Aroclor-1242-5 | (5) | 135980897 | 140103160 | 145653410 | 150301700 | 142549620 | 142917757 | 4 |
| Decachlorobiphenyl | | 4093300380 | 4301738307 | 4403735460 | 4338775160 | 4380898600 | 4303689581 | 3 |
| Tetrachloro-m-xylene | | 4800115840 | 4683347560 | 4961464680 | 4527345840 | 4437059000 | 4681866584 | 4 |
| Aroclor-1248-1 | (1) | 101027399 | 105625799 | 111262386 | 113093188 | 115539800 | 109309714 | 5 |
| Aroclor-1248-2 | (2) | 136540550 | 142594189 | 148530518 | 152692968 | 164144180 | 148900481 | 7 |
| Aroclor-1248-3 | (3) | 143887712 | 149887199 | 155474250 | 158349236 | 169440400 | 155407759 | 6 |
| Aroclor-1248-4 | (4) | 171266913 | 177666692 | 184171754 | 187513908 | 195642380 | 183252329 | 5 |
| Aroclor-1248-5 | (5) | 174649655 | 180220384 | 187038042 | 189642400 | 190092660 | 184328628 | 3 |
| Decachlorobiphenyl | | 4076042330 | 4166088587 | 4290124020 | 4403270520 | 4144788800 | 4216062851 | 3 |
| Tetrachloro-m-xylene | | 4758509080 | 4829545453 | 4892334280 | 4811209560 | 4727034000 | 4803726475 | 1 |
| Aroclor-1254-1 | (1) | 275439068 | 284238351 | 300243386 | 299923620 | 341055960 | 300180077 | 8 |
| Aroclor-1254-2 | (2) | 245333366 | 253279232 | 267984098 | 268318040 | 313122940 | 269607535 | 9 |
| Aroclor-1254-3 | (3) | 398238109 | 410614839 | 430545692 | 426530308 | 445294740 | 422244738 | 4 |
| Aroclor-1254-4 | (4) | 284785979 | 294895399 | 305027804 | 301955520 | 300306220 | 297394184 | 3 |
| Aroclor-1254-5 | (5) | 385708423 | 392326712 | 409498118 | 398089984 | 402006780 | 397526003 | 2 |
| Decachlorobiphenyl | | 4273373360 | 4367226933 | 4604811080 | 4533103920 | 4272134600 | 4410129979 | 3 |
| Tetrachloro-m-xylene | | 4791085320 | 4887004773 | 5044010700 | 4876428000 | 4843036000 | 4888312959 | 2 |
| Aroclor-1268-1 | (1) | 948830555 | 965398547 | 981732904 | 993582148 | 991082540 | 976125339 | 2 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1268-2 | (2) | 784312077 | 796694211 | 811227528 | 817006596 | 768929160 | 795633914 | 2 |
| Aroclor-1268-3 | (3) | 672635507 | 681509284 | 695723330 | 696225136 | 632763280 | 675771307 | 4 |
| Aroclor-1268-4 | (4) | 270862616 | 275402580 | 280086838 | 282372280 | 267609400 | 275266743 | 2 |
| Aroclor-1268-5 | (5) | 1768544208 | 1786014605 | 1818457210 | 1831952004 | 1717683400 | 1784530285 | 2 |
| Decachlorobiphenyl | | 7349980390 | 7437822467 | 7706201340 | 7861559120 | 8321979800 | 7735508623 | 5 |
| Tetrachloro-m-xylene | | 4791521570 | 4902547960 | 4915920660 | 4883273320 | 4724156000 | 4843483902 | 2 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Instrument ID:** ECD_O **Date(s) Analyzed:** 11/04/2025 11/04/2025

**GC Column:** ZB-MR1 **ID:** 0.32 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Aroclor-1221 | 500 | 1 | 4.55 | 4.45 | 4.65 | 84124000 |
| | | 2 | 4.63 | 4.53 | 4.73 | 60183600 |
| | | 3 | 4.71 | 4.61 | 4.81 | 193335000 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1232 | 500 | 1 | 4.71 | 4.61 | 4.81 | 150015000 |
| | | 2 | 5.22 | 5.12 | 5.32 | 72567400 |
| | | 3 | 5.51 | 5.41 | 5.61 | 158675000 |
| | | 4 | 5.67 | 5.57 | 5.77 | 73795600 |
| | | 5 | 5.76 | 5.66 | 5.86 | 51580600 |
| Aroclor-1262 | 500 | 1 | 7.70 | 7.60 | 7.80 | 453404000 |
| | | 2 | 8.23 | 8.13 | 8.33 | 707198000 |
| | | 3 | 8.53 | 8.43 | 8.63 | 451420000 |
| | | 4 | 8.62 | 8.52 | 8.72 | 336186000 |
| | | 5 | 9.24 | 9.14 | 9.34 | 241816000 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Instrument ID:** ECD_O **Date(s) Analyzed:** 11/04/2025 11/04/2025

**GC Column:** ZB-MR2 **ID:** 0.32 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Aroclor-1221 | 500 | 1 | 3.86 | 3.76 | 3.96 | 61799200 |
| | | 2 | 3.95 | 3.85 | 4.05 | 45637000 |
| | | 3 | 4.02 | 3.92 | 4.12 | 140257000 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1232 | 500 | 1 | 4.02 | 3.92 | 4.12 | 111493000 |
| | | 2 | 4.75 | 4.65 | 4.85 | 112095000 |
| | | 3 | 4.92 | 4.82 | 5.02 | 59654200 |
| | | 4 | 5.01 | 4.91 | 5.11 | 50889000 |
| | | 5 | 5.18 | 5.08 | 5.28 | 56587600 |
| Aroclor-1262 | 500 | 1 | 6.76 | 6.66 | 6.86 | 494206000 |
| | | 2 | 7.26 | 7.16 | 7.36 | 795090000 |
| | | 3 | 7.54 | 7.44 | 7.64 | 329028000 |
| | | 4 | 7.61 | 7.51 | 7.71 | 538192000 |
| | | 5 | 8.10 | 8.00 | 8.20 | 238020000 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Contract:** HDRI08
**Lab Code:** ACE
**SDG NO.:** Q3662
**Instrument ID:** ECD_Q
**Calibration Date(s):** 11/18/2025 11/18/2025
**Calibration Times:** 12:13 17:52

GC Column: ZB-MR1 ID: 0.32 (mm)

**LAB FILE ID:** RT 1000 = PQ071273.D RT 750 = PQ071274.D
RT 500 = PQ071275.D RT 250 = PQ071276.D RT 050 = PQ071277.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 050 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.50 | 4.50 | 4.50 | 4.50 | 4.52 | 4.50 | 4.40 | 4.60 |
| Aroclor-1016-2 | (2) | 4.52 | 4.52 | 4.52 | 4.52 | 4.53 | 4.52 | 4.42 | 4.62 |
| Aroclor-1016-3 | (3) | 4.57 | 4.57 | 4.57 | 4.57 | 4.59 | 4.58 | 4.48 | 4.68 |
| Aroclor-1016-4 | (4) | 4.66 | 4.66 | 4.66 | 4.66 | 4.68 | 4.67 | 4.57 | 4.77 |
| Aroclor-1016-5 | (5) | 4.95 | 4.95 | 4.95 | 4.95 | 4.97 | 4.95 | 4.85 | 5.05 |
| Aroclor-1260-1 | (1) | 6.04 | 6.04 | 6.04 | 6.04 | 6.06 | 6.05 | 5.95 | 6.15 |
| Aroclor-1260-2 | (2) | 6.30 | 6.30 | 6.30 | 6.30 | 6.32 | 6.30 | 6.20 | 6.40 |
| Aroclor-1260-3 | (3) | 6.65 | 6.65 | 6.65 | 6.65 | 6.67 | 6.66 | 6.56 | 6.76 |
| Aroclor-1260-4 | (4) | 6.87 | 6.87 | 6.87 | 6.87 | 6.89 | 6.87 | 6.77 | 6.97 |
| Aroclor-1260-5 | (5) | 7.18 | 7.18 | 7.18 | 7.18 | 7.19 | 7.18 | 7.08 | 7.28 |
| Decachlorobiphenyl | | 8.54 | 8.54 | 8.54 | 8.54 | 8.56 | 8.54 | 8.44 | 8.64 |
| Tetrachloro-m-xylene | | 3.41 | 3.41 | 3.41 | 3.41 | 3.43 | 3.41 | 3.31 | 3.51 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Contract:** HDRI08
**Lab Code:** ACE
**SDG NO.:** Q3662
**Instrument ID:** ECD_Q
**Calibration Date(s):** 11/18/2025 11/18/2025
**Calibration Times:** 12:13 17:52

GC Column: ZB-MR2 ID: 0.32 (mm)

**LAB FILE ID:** RT 1000 = PQ071273.D RT 750 = PQ071274.D
RT 500 = PQ071275.D RT 250 = PQ071276.D RT 050 = PQ071277.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 050 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 3.87 | 3.87 | 3.87 | 3.87 | 3.87 | 3.87 | 3.77 | 3.97 |
| Aroclor-1016-2 | (2) | 3.89 | 3.89 | 3.89 | 3.89 | 3.89 | 3.89 | 3.79 | 3.99 |
| Aroclor-1016-3 | (3) | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 3.95 | 4.15 |
| Aroclor-1016-4 | (4) | 4.10 | 4.10 | 4.10 | 4.10 | 4.10 | 4.10 | 4.00 | 4.20 |
| Aroclor-1016-5 | (5) | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.20 | 4.40 |
| Aroclor-1260-1 | (1) | 5.30 | 5.30 | 5.30 | 5.30 | 5.30 | 5.30 | 5.20 | 5.40 |
| Aroclor-1260-2 | (2) | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 5.39 | 5.59 |
| Aroclor-1260-3 | (3) | 5.63 | 5.63 | 5.63 | 5.63 | 5.63 | 5.63 | 5.53 | 5.73 |
| Aroclor-1260-4 | (4) | 6.09 | 6.09 | 6.09 | 6.09 | 6.10 | 6.09 | 5.99 | 6.19 |
| Aroclor-1260-5 | (5) | 6.34 | 6.34 | 6.34 | 6.34 | 6.34 | 6.34 | 6.24 | 6.44 |
| Decachlorobiphenyl | | 7.66 | 7.66 | 7.66 | 7.66 | 7.67 | 7.66 | 7.56 | 7.76 |
| Tetrachloro-m-xylene | | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.76 | 2.96 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Lab Code:** ACE
**Instrument ID:** ECD_Q

**Contract:** HDRI08
**SDG NO.:** Q3662
**Calibration Date(s):** 11/18/2025 11/18/2025
**Calibration Times:** 12:13 17:52

**GC Column:** ZB-MR1 **ID:** 0.32 (mm)

**LAB FILE ID:** CF 1000 = PQ071273.D CF 750 = PQ071274.D
CF 500 = PQ071275.D CF 250 = PQ071276.D CF 050 = PQ071277.D

| COMPOUND | | CF 1000 | CF 750 | CF 500 | CF 250 | CF 050 | CF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 311209443 | 325306409 | 334960420 | 370775688 | 310495920 | 330549576 | 7 |
| Aroclor-1016-2 | (2) | 454956483 | 483617911 | 488216998 | 532284408 | 419023680 | 475619896 | 9 |
| Aroclor-1016-3 | (3) | 281433085 | 296253320 | 305626516 | 333395192 | 275584660 | 298458555 | 8 |
| Aroclor-1016-4 | (4) | 234302490 | 247746569 | 253468024 | 274270176 | 217948160 | 245547084 | 9 |
| Aroclor-1016-5 | (5) | 227588399 | 240337467 | 244778336 | 266881628 | 202488280 | 236414822 | 10 |
| Aroclor-1260-1 | (1) | 403697389 | 422049059 | 431530760 | 470973172 | 509235360 | 447497148 | 9 |
| Aroclor-1260-2 | (2) | 484063668 | 508755839 | 518003726 | 565534068 | 478211840 | 510913828 | 7 |
| Aroclor-1260-3 | (3) | 363748675 | 381918643 | 387953578 | 420676408 | 359371540 | 382733769 | 6 |
| Aroclor-1260-4 | (4) | 401463798 | 418074460 | 426123752 | 460070296 | 384990780 | 418144617 | 7 |
| Aroclor-1260-5 | (5) | 815891195 | 848908912 | 857360548 | 908709984 | 730318200 | 832237768 | 8 |
| Decachlorobiphenyl | | 6030880380 | 6352203200 | 6158598760 | 6987849240 | 5778207800 | 6261547876 | 7 |
| Tetrachloro-m-xylene | | 8546006460 | 8858225840 | 8899975320 | 9586516600 | 7635115600 | 8705167964 | 8 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Lab Code:** ACE
**Instrument ID:** ECD_Q

**Contract:** HDRI08
**SDG NO.:** Q3662
**Calibration Date(s):** 11/18/2025 11/18/2025
**Calibration Times:** 12:13 17:52

**GC Column:** ZB-MR2 **ID:** 0.32 (mm)

**LAB FILE ID:** CF 1000 = PQ071273.D CF 750 = PQ071274.D
CF 500 = PQ071275.D CF 250 = PQ071276.D CF 050 = PQ071277.D

| COMPOUND | | CF 1000 | CF 750 | CF 500 | CF 250 | CF 050 | CF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 332630983 | 356211511 | 365223582 | 399854352 | 356694960 | 362123078 | 7 |
| Aroclor-1016-2 | (2) | 469915964 | 498445101 | 508986280 | 558587480 | 419976800 | 491182325 | 10 |
| Aroclor-1016-3 | (3) | 261212829 | 276527187 | 282397422 | 312410520 | 257410940 | 277991780 | 8 |
| Aroclor-1016-4 | (4) | 206335378 | 219784485 | 225788532 | 249141124 | 220190920 | 224248088 | 7 |
| Aroclor-1016-5 | (5) | 261975238 | 278879635 | 287126196 | 315646164 | 249213060 | 278568059 | 9 |
| Aroclor-1260-1 | (1) | 470834211 | 499030651 | 506558908 | 553760816 | 464449480 | 498926813 | 7 |
| Aroclor-1260-2 | (2) | 578885125 | 611817109 | 624534876 | 679410500 | 537231520 | 606375826 | 9 |
| Aroclor-1260-3 | (3) | 569533507 | 586805373 | 600799622 | 662489508 | 536292560 | 591184114 | 8 |
| Aroclor-1260-4 | (4) | 474748397 | 501533260 | 509116144 | 552472196 | 439023960 | 495378791 | 9 |
| Aroclor-1260-5 | (5) | 1113907697 | 1165903804 | 1178172802 | 1262924788 | 1020520040 | 1148285826 | 8 |
| Decachlorobiphenyl | | 8663334660 | 9173331373 | 9334286420 | 10163392120 | 8354125200 | 9137693955 | 8 |
| Tetrachloro-m-xylene | | 9084208260 | 9541859853 | 9573016560 | 10330655880 | 8153694800 | 9336687071 | 9 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Instrument ID:** ECD_Q **Date(s) Analyzed:** 11/18/2025 11/18/2025

**GC Column:** ZB-MR1 **ID:** 0.32 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Aroclor-1221 | 500 | 1 | 3.62 | 3.52 | 3.72 | 108487000 |
| | | 2 | 3.70 | 3.60 | 3.80 | 79330000 |
| | | 3 | 3.77 | 3.67 | 3.87 | 243616000 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1232 | 500 | 1 | 3.76 | 3.66 | 3.86 | 197386000 |
| | | 2 | 4.24 | 4.14 | 4.34 | 102466000 |
| | | 3 | 4.52 | 4.42 | 4.62 | 207190000 |
| | | 4 | 4.67 | 4.57 | 4.77 | 103833000 |
| | | 5 | 4.81 | 4.71 | 4.91 | 84473000 |
| Aroclor-1242 | 500 | 1 | 4.50 | 4.40 | 4.60 | 260736000 |
| | | 2 | 4.52 | 4.42 | 4.62 | 380776000 |
| | | 3 | 4.58 | 4.48 | 4.68 | 243244000 |
| | | 4 | 4.67 | 4.57 | 4.77 | 194314000 |
| | | 5 | 5.34 | 5.24 | 5.44 | 199781000 |
| Aroclor-1248 | 500 | 1 | 4.50 | 4.40 | 4.60 | 190494000 |
| | | 2 | 4.76 | 4.66 | 4.86 | 243288000 |
| | | 3 | 4.95 | 4.85 | 5.05 | 293826000 |
| | | 4 | 5.31 | 5.21 | 5.41 | 262878000 |
| | | 5 | 5.34 | 5.24 | 5.44 | 338346000 |
| Aroclor-1254 | 500 | 1 | 5.31 | 5.21 | 5.41 | 347360000 |
| | | 2 | 5.53 | 5.43 | 5.63 | 541824000 |
| | | 3 | 5.88 | 5.78 | 5.98 | 575830000 |
| | | 4 | 6.16 | 6.06 | 6.26 | 422490000 |
| | | 5 | 6.57 | 6.47 | 6.67 | 459632000 |
| Aroclor-1262 | 500 | 1 | 6.87 | 6.77 | 6.97 | 466646000 |
| | | 2 | 7.18 | 7.08 | 7.28 | 850324000 |
| | | 3 | 7.45 | 7.35 | 7.55 | 560870000 |
| | | 4 | 7.52 | 7.42 | 7.62 | 438268000 |
| | | 5 | 8.02 | 7.92 | 8.12 | 283976000 |
| Aroclor-1268 | 500 | 1 | 7.45 | 7.35 | 7.55 | 1020760000 |
| | | 2 | 7.53 | 7.43 | 7.63 | 946750000 |
| | | 3 | 7.71 | 7.61 | 7.81 | 777898000 |
| | | 4 | 8.02 | 7.92 | 8.12 | 338330000 |
| | | 5 | 8.31 | 8.21 | 8.41 | 2294740000 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Instrument ID:** ECD_Q **Date(s) Analyzed:** 11/18/2025 11/18/2025

**GC Column:** ZB-MR2 **ID:** 0.32 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Aroclor-1221 | 500 | 1 | 3.06 | 2.96 | 3.16 | 114922000 |
| | | 2 | 3.14 | 3.04 | 3.24 | 85299000 |
| | | 3 | 3.21 | 3.11 | 3.31 | 258550000 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1232 | 500 | 1 | 3.21 | 3.11 | 3.31 | 212032000 |
| | | 2 | 3.89 | 3.79 | 3.99 | 216600000 |
| | | 3 | 4.05 | 3.95 | 4.15 | 118883000 |
| | | 4 | 4.14 | 4.04 | 4.24 | 93895400 |
| | | 5 | 4.30 | 4.20 | 4.40 | 108074000 |
| Aroclor-1242 | 500 | 1 | 3.87 | 3.77 | 3.97 | 289516000 |
| | | 2 | 3.89 | 3.79 | 3.99 | 402834000 |
| | | 3 | 4.05 | 3.95 | 4.15 | 233896000 |
| | | 4 | 4.14 | 4.04 | 4.24 | 199829000 |
| | | 5 | 4.64 | 4.54 | 4.74 | 263286000 |
| Aroclor-1248 | 500 | 1 | 3.87 | 3.77 | 3.97 | 212876000 |
| | | 2 | 4.10 | 4.00 | 4.20 | 284018000 |
| | | 3 | 4.14 | 4.04 | 4.24 | 280112000 |
| | | 4 | 4.30 | 4.20 | 4.40 | 346384000 |
| | | 5 | 4.67 | 4.57 | 4.77 | 348638000 |
| Aroclor-1254 | 500 | 1 | 4.64 | 4.54 | 4.74 | 535868000 |
| | | 2 | 4.78 | 4.68 | 4.88 | 458782000 |
| | | 3 | 5.17 | 5.07 | 5.27 | 759300000 |
| | | 4 | 5.39 | 5.29 | 5.49 | 499818000 |
| | | 5 | 5.80 | 5.70 | 5.90 | 692230000 |
| Aroclor-1262 | 500 | 1 | 5.85 | 5.75 | 5.95 | 639510000 |
| | | 2 | 6.09 | 5.99 | 6.19 | 594340000 |
| | | 3 | 6.62 | 6.52 | 6.72 | 477658000 |
| | | 4 | 6.68 | 6.58 | 6.78 | 894350000 |
| | | 5 | 7.17 | 7.07 | 7.27 | 428332000 |
| Aroclor-1268 | 500 | 1 | 6.62 | 6.52 | 6.72 | 1440040000 |
| | | 2 | 6.68 | 6.58 | 6.78 | 1347710000 |
| | | 3 | 6.88 | 6.78 | 6.98 | 1135760000 |
| | | 4 | 7.17 | 7.07 | 7.27 | 507132000 |
| | | 5 | 7.44 | 7.34 | 7.54 | 3541520000 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/19/2025 **Initial Calibration Date(s):** 11/04/2025 11/04/2025

**Continuing Calib Time:** 09:38 **Initial Calibration Time(s):** 09:39 18:31

**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) | 5.48 | 5.49 | 5.39 | 5.59 | 0.01 |
| Aroclor-1016-2 | (2) | 5.50 | 5.51 | 5.41 | 5.61 | 0.01 |
| Aroclor-1016-3 | (3) | 5.56 | 5.57 | 5.47 | 5.67 | 0.01 |
| Aroclor-1016-4 | (4) | 5.66 | 5.67 | 5.57 | 5.77 | 0.01 |
| Aroclor-1016-5 | (5) | 5.95 | 5.96 | 5.86 | 6.06 | 0.01 |
| Aroclor-1260-1 | (1) | 7.06 | 7.07 | 6.97 | 7.17 | 0.01 |
| Aroclor-1260-2 | (2) | 7.32 | 7.33 | 7.23 | 7.43 | 0.01 |
| Aroclor-1260-3 | (3) | 7.68 | 7.68 | 7.58 | 7.78 | 0.00 |
| Aroclor-1260-4 | (4) | 7.90 | 7.90 | 7.80 | 8.00 | 0.00 |
| Aroclor-1260-5 | (5) | 8.20 | 8.21 | 8.11 | 8.31 | 0.01 |
| Tetrachloro-m-xylene | | 4.34 | 4.35 | 4.25 | 4.45 | 0.01 |
| Decachlorobiphenyl | | 9.92 | 9.93 | 9.83 | 10.03 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/19/2025 **Initial Calibration Date(s):** 11/04/2025 11/04/2025

**Continuing Calib Time:** 09:38 **Initial Calibration Time(s):** 09:39 18:31

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.72 | 4.73 | 4.63 | 4.83 | 0.01 |
| Aroclor-1016-2 | (2) | 4.74 | 4.75 | 4.65 | 4.85 | 0.01 |
| Aroclor-1016-3 | (3) | 4.92 | 4.92 | 4.82 | 5.02 | 0.01 |
| Aroclor-1016-4 | (4) | 4.96 | 4.96 | 4.86 | 5.06 | 0.00 |
| Aroclor-1016-5 | (5) | 5.17 | 5.18 | 5.08 | 5.28 | 0.01 |
| Aroclor-1260-1 | (1) | 6.20 | 6.21 | 6.11 | 6.31 | 0.01 |
| Aroclor-1260-2 | (2) | 6.39 | 6.39 | 6.29 | 6.49 | 0.00 |
| Aroclor-1260-3 | (3) | 6.54 | 6.55 | 6.45 | 6.65 | 0.01 |
| Aroclor-1260-4 | (4) | 7.01 | 7.02 | 6.92 | 7.12 | 0.01 |
| Aroclor-1260-5 | (5) | 7.25 | 7.26 | 7.16 | 7.36 | 0.01 |
| Tetrachloro-m-xylene | | 3.65 | 3.65 | 3.55 | 3.75 | 0.01 |
| Decachlorobiphenyl | | 8.63 | 8.64 | 8.54 | 8.74 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/04/2025 11/04/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/19/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PO115205.D **Time Analyzed:** 09:38

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.481 | 5.387 | 5.587 | 549.520 | 500.000 | 9.9 |
| Aroclor-1016-2 | 5.502 | 5.408 | 5.608 | 545.500 | 500.000 | 9.1 |
| Aroclor-1016-3 | 5.564 | 5.470 | 5.670 | 574.770 | 500.000 | 15.0 |
| Aroclor-1016-4 | 5.659 | 5.566 | 5.766 | 560.670 | 500.000 | 12.1 |
| Aroclor-1016-5 | 5.951 | 5.858 | 6.058 | 536.370 | 500.000 | 7.3 |
| Aroclor-1260-1 | 7.064 | 6.971 | 7.171 | 520.230 | 500.000 | 4.0 |
| Aroclor-1260-2 | 7.318 | 7.225 | 7.425 | 559.820 | 500.000 | 12.0 |
| Aroclor-1260-3 | 7.675 | 7.582 | 7.782 | 559.310 | 500.000 | 11.9 |
| Aroclor-1260-4 | 7.897 | 7.803 | 8.003 | 542.930 | 500.000 | 8.6 |
| Aroclor-1260-5 | 8.204 | 8.110 | 8.310 | 537.050 | 500.000 | 7.4 |
| Decachlorobiphenyl | 9.920 | 9.830 | 10.030 | 59.010 | 50.000 | 18.0 |
| Tetrachloro-m-xylene | 4.341 | 4.248 | 4.448 | 56.960 | 50.000 | 13.9 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/04/2025 11/04/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/19/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PO115205.D **Time Analyzed:** 09:38

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.721 | 4.628 | 4.828 | 532.660 | 500.000 | 6.5 |
| Aroclor-1016-2 | 4.740 | 4.647 | 4.847 | 529.490 | 500.000 | 5.9 |
| Aroclor-1016-3 | 4.915 | 4.821 | 5.021 | 534.350 | 500.000 | 6.9 |
| Aroclor-1016-4 | 4.957 | 4.864 | 5.064 | 532.560 | 500.000 | 6.5 |
| Aroclor-1016-5 | 5.169 | 5.076 | 5.276 | 533.160 | 500.000 | 6.6 |
| Aroclor-1260-1 | 6.198 | 6.106 | 6.306 | 494.860 | 500.000 | -1.0 |
| Aroclor-1260-2 | 6.386 | 6.294 | 6.494 | 477.740 | 500.000 | -4.5 |
| Aroclor-1260-3 | 6.539 | 6.446 | 6.646 | 492.290 | 500.000 | -1.5 |
| Aroclor-1260-4 | 7.009 | 6.917 | 7.117 | 505.920 | 500.000 | 1.2 |
| Aroclor-1260-5 | 7.250 | 7.158 | 7.358 | 509.780 | 500.000 | 2.0 |
| Decachlorobiphenyl | 8.632 | 8.541 | 8.741 | 56.520 | 50.000 | 13.0 |
| Tetrachloro-m-xylene | 3.645 | 3.548 | 3.748 | 53.850 | 50.000 | 7.7 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/19/2025 **Initial Calibration Date(s):** 11/04/2025 11/04/2025

**Continuing Calib Time:** 15:26 **Initial Calibration Time(s):** 09:39 18:31

**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) | 5.48 | 5.49 | 5.39 | 5.59 | 0.01 |
| Aroclor-1016-2 | (2) | 5.50 | 5.51 | 5.41 | 5.61 | 0.01 |
| Aroclor-1016-3 | (3) | 5.56 | 5.57 | 5.47 | 5.67 | 0.01 |
| Aroclor-1016-4 | (4) | 5.66 | 5.67 | 5.57 | 5.77 | 0.01 |
| Aroclor-1016-5 | (5) | 5.95 | 5.96 | 5.86 | 6.06 | 0.01 |
| Aroclor-1260-1 | (1) | 7.06 | 7.07 | 6.97 | 7.17 | 0.01 |
| Aroclor-1260-2 | (2) | 7.32 | 7.33 | 7.23 | 7.43 | 0.01 |
| Aroclor-1260-3 | (3) | 7.68 | 7.68 | 7.58 | 7.78 | 0.00 |
| Aroclor-1260-4 | (4) | 7.90 | 7.90 | 7.80 | 8.00 | 0.00 |
| Aroclor-1260-5 | (5) | 8.20 | 8.21 | 8.11 | 8.31 | 0.01 |
| Tetrachloro-m-xylene | | 4.34 | 4.35 | 4.25 | 4.45 | 0.01 |
| Decachlorobiphenyl | | 9.92 | 9.93 | 9.83 | 10.03 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/19/2025 **Initial Calibration Date(s):** 11/04/2025 11/04/2025

**Continuing Calib Time:** 15:26 **Initial Calibration Time(s):** 09:39 18:31

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.72 | 4.73 | 4.63 | 4.83 | 0.01 |
| Aroclor-1016-2 | (2) | 4.74 | 4.75 | 4.65 | 4.85 | 0.01 |
| Aroclor-1016-3 | (3) | 4.92 | 4.92 | 4.82 | 5.02 | 0.01 |
| Aroclor-1016-4 | (4) | 4.96 | 4.96 | 4.86 | 5.06 | 0.00 |
| Aroclor-1016-5 | (5) | 5.17 | 5.18 | 5.08 | 5.28 | 0.01 |
| Aroclor-1260-1 | (1) | 6.20 | 6.21 | 6.11 | 6.31 | 0.01 |
| Aroclor-1260-2 | (2) | 6.39 | 6.39 | 6.29 | 6.49 | 0.00 |
| Aroclor-1260-3 | (3) | 6.54 | 6.55 | 6.45 | 6.65 | 0.01 |
| Aroclor-1260-4 | (4) | 7.01 | 7.02 | 6.92 | 7.12 | 0.01 |
| Aroclor-1260-5 | (5) | 7.25 | 7.26 | 7.16 | 7.36 | 0.01 |
| Tetrachloro-m-xylene | | 3.65 | 3.65 | 3.55 | 3.75 | 0.01 |
| Decachlorobiphenyl | | 8.63 | 8.64 | 8.54 | 8.74 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/04/2025 11/04/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/19/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PO115220.D **Time Analyzed:** 15:26

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.481 | 5.387 | 5.587 | 523.910 | 500.000 | 4.8 |
| Aroclor-1016-2 | 5.502 | 5.408 | 5.608 | 514.450 | 500.000 | 2.9 |
| Aroclor-1016-3 | 5.564 | 5.470 | 5.670 | 537.140 | 500.000 | 7.4 |
| Aroclor-1016-4 | 5.660 | 5.566 | 5.766 | 525.560 | 500.000 | 5.1 |
| Aroclor-1016-5 | 5.951 | 5.858 | 6.058 | 509.520 | 500.000 | 1.9 |
| Aroclor-1260-1 | 7.064 | 6.971 | 7.171 | 490.940 | 500.000 | -1.8 |
| Aroclor-1260-2 | 7.318 | 7.225 | 7.425 | 523.640 | 500.000 | 4.7 |
| Aroclor-1260-3 | 7.676 | 7.582 | 7.782 | 530.550 | 500.000 | 6.1 |
| Aroclor-1260-4 | 7.897 | 7.803 | 8.003 | 509.250 | 500.000 | 1.9 |
| Aroclor-1260-5 | 8.204 | 8.110 | 8.310 | 514.380 | 500.000 | 2.9 |
| Decachlorobiphenyl | 9.919 | 9.830 | 10.030 | 55.840 | 50.000 | 11.7 |
| Tetrachloro-m-xylene | 4.342 | 4.248 | 4.448 | 54.770 | 50.000 | 9.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/04/2025 11/04/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/19/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PO115220.D **Time Analyzed:** 15:26

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.721 | 4.628 | 4.828 | 517.180 | 500.000 | 3.4 |
| Aroclor-1016-2 | 4.741 | 4.647 | 4.847 | 505.300 | 500.000 | 1.1 |
| Aroclor-1016-3 | 4.915 | 4.821 | 5.021 | 520.980 | 500.000 | 4.2 |
| Aroclor-1016-4 | 4.957 | 4.864 | 5.064 | 519.780 | 500.000 | 4.0 |
| Aroclor-1016-5 | 5.169 | 5.076 | 5.276 | 518.360 | 500.000 | 3.7 |
| Aroclor-1260-1 | 6.199 | 6.106 | 6.306 | 469.130 | 500.000 | -6.2 |
| Aroclor-1260-2 | 6.386 | 6.294 | 6.494 | 453.920 | 500.000 | -9.2 |
| Aroclor-1260-3 | 6.539 | 6.446 | 6.646 | 464.350 | 500.000 | -7.1 |
| Aroclor-1260-4 | 7.009 | 6.917 | 7.117 | 468.040 | 500.000 | -6.4 |
| Aroclor-1260-5 | 7.251 | 7.158 | 7.358 | 474.470 | 500.000 | -5.1 |
| Decachlorobiphenyl | 8.632 | 8.541 | 8.741 | 52.550 | 50.000 | 5.1 |
| Tetrachloro-m-xylene | 3.645 | 3.548 | 3.748 | 53.210 | 50.000 | 6.4 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/19/2025 **Initial Calibration Date(s):** 11/18/2025 11/18/2025

**Continuing Calib Time:** 13:04 **Initial Calibration Time(s):** 12:13 17:52

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.50 | 4.50 | 4.40 | 4.60 | 0.00 |
| Aroclor-1016-2 | (2) | 4.52 | 4.52 | 4.42 | 4.62 | 0.00 |
| Aroclor-1016-3 | (3) | 4.57 | 4.57 | 4.47 | 4.67 | 0.00 |
| Aroclor-1016-4 | (4) | 4.66 | 4.66 | 4.56 | 4.76 | 0.00 |
| Aroclor-1016-5 | (5) | 4.95 | 4.95 | 4.85 | 5.05 | 0.00 |
| Aroclor-1260-1 | (1) | 6.04 | 6.04 | 5.94 | 6.14 | 0.00 |
| Aroclor-1260-2 | (2) | 6.30 | 6.30 | 6.20 | 6.40 | 0.00 |
| Aroclor-1260-3 | (3) | 6.65 | 6.65 | 6.55 | 6.75 | 0.00 |
| Aroclor-1260-4 | (4) | 6.87 | 6.87 | 6.77 | 6.97 | 0.00 |
| Aroclor-1260-5 | (5) | 7.17 | 7.18 | 7.08 | 7.28 | 0.01 |
| Tetrachloro-m-xylene | | 3.41 | 3.41 | 3.31 | 3.51 | 0.00 |
| Decachlorobiphenyl | | 8.54 | 8.54 | 8.44 | 8.64 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/19/2025 **Initial Calibration Date(s):** 11/18/2025 11/18/2025

**Continuing Calib Time:** 13:04 **Initial Calibration Time(s):** 12:13 17:52

**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) | 3.87 | 3.87 | 3.77 | 3.97 | 0.00 |
| Aroclor-1016-2 | (2) | 3.89 | 3.89 | 3.79 | 3.99 | 0.00 |
| Aroclor-1016-3 | (3) | 4.05 | 4.05 | 3.95 | 4.15 | 0.00 |
| Aroclor-1016-4 | (4) | 4.10 | 4.10 | 4.00 | 4.20 | 0.00 |
| Aroclor-1016-5 | (5) | 4.29 | 4.30 | 4.20 | 4.40 | 0.01 |
| Aroclor-1260-1 | (1) | 5.30 | 5.30 | 5.20 | 5.40 | 0.00 |
| Aroclor-1260-2 | (2) | 5.48 | 5.49 | 5.39 | 5.59 | 0.01 |
| Aroclor-1260-3 | (3) | 5.63 | 5.63 | 5.53 | 5.73 | 0.00 |
| Aroclor-1260-4 | (4) | 6.09 | 6.09 | 5.99 | 6.19 | 0.00 |
| Aroclor-1260-5 | (5) | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| Tetrachloro-m-xylene | | 2.86 | 2.86 | 2.76 | 2.96 | 0.00 |
| Decachlorobiphenyl | | 7.66 | 7.66 | 7.56 | 7.76 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/18/2025 11/18/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 11/19/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PQ071332.D **Time Analyzed:** 13:04

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.497 | 4.397 | 4.597 | 481.490 | 500.000 | -3.7 |
| Aroclor-1016-2 | 4.516 | 4.416 | 4.616 | 488.020 | 500.000 | -2.4 |
| Aroclor-1016-3 | 4.573 | 4.474 | 4.674 | 485.270 | 500.000 | -2.9 |
| Aroclor-1016-4 | 4.664 | 4.564 | 4.764 | 487.200 | 500.000 | -2.6 |
| Aroclor-1016-5 | 4.949 | 4.849 | 5.049 | 488.530 | 500.000 | -2.3 |
| Aroclor-1260-1 | 6.042 | 5.943 | 6.143 | 464.240 | 500.000 | -7.2 |
| Aroclor-1260-2 | 6.299 | 6.200 | 6.400 | 486.320 | 500.000 | -2.7 |
| Aroclor-1260-3 | 6.652 | 6.552 | 6.752 | 484.460 | 500.000 | -3.1 |
| Aroclor-1260-4 | 6.867 | 6.767 | 6.967 | 489.140 | 500.000 | -2.2 |
| Aroclor-1260-5 | 7.174 | 7.075 | 7.275 | 494.950 | 500.000 | -1.0 |
| Decachlorobiphenyl | 8.536 | 8.437 | 8.637 | 49.110 | 50.000 | -1.8 |
| Tetrachloro-m-xylene | 3.411 | 3.311 | 3.511 | 49.280 | 50.000 | -1.4 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/18/2025 11/18/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 11/19/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PQ071332.D **Time Analyzed:** 13:04

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 3.870 | 3.771 | 3.971 | 537.530 | 500.000 | 7.5 |
| Aroclor-1016-2 | 3.886 | 3.788 | 3.988 | 553.750 | 500.000 | 10.8 |
| Aroclor-1016-3 | 4.048 | 3.950 | 4.150 | 550.090 | 500.000 | 10.0 |
| Aroclor-1016-4 | 4.097 | 3.998 | 4.198 | 536.250 | 500.000 | 7.3 |
| Aroclor-1016-5 | 4.294 | 4.195 | 4.395 | 544.870 | 500.000 | 9.0 |
| Aroclor-1260-1 | 5.295 | 5.197 | 5.397 | 539.360 | 500.000 | 7.9 |
| Aroclor-1260-2 | 5.484 | 5.386 | 5.586 | 547.740 | 500.000 | 9.5 |
| Aroclor-1260-3 | 5.628 | 5.530 | 5.730 | 539.920 | 500.000 | 8.0 |
| Aroclor-1260-4 | 6.092 | 5.993 | 6.193 | 544.730 | 500.000 | 8.9 |
| Aroclor-1260-5 | 6.336 | 6.238 | 6.438 | 543.770 | 500.000 | 8.8 |
| Decachlorobiphenyl | 7.657 | 7.559 | 7.759 | 54.640 | 50.000 | 9.3 |
| Tetrachloro-m-xylene | 2.855 | 2.756 | 2.956 | 54.730 | 50.000 | 9.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/19/2025 **Initial Calibration Date(s):** 11/18/2025 11/18/2025

**Continuing Calib Time:** 17:27 **Initial Calibration Time(s):** 12:13 17:52

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.50 | 4.50 | 4.40 | 4.60 | 0.00 |
| Aroclor-1016-2 | (2) | 4.52 | 4.52 | 4.42 | 4.62 | 0.00 |
| Aroclor-1016-3 | (3) | 4.57 | 4.57 | 4.47 | 4.67 | 0.00 |
| Aroclor-1016-4 | (4) | 4.66 | 4.66 | 4.56 | 4.76 | 0.00 |
| Aroclor-1016-5 | (5) | 4.95 | 4.95 | 4.85 | 5.05 | 0.00 |
| Aroclor-1260-1 | (1) | 6.04 | 6.04 | 5.94 | 6.14 | 0.00 |
| Aroclor-1260-2 | (2) | 6.30 | 6.30 | 6.20 | 6.40 | 0.00 |
| Aroclor-1260-3 | (3) | 6.65 | 6.65 | 6.55 | 6.75 | 0.00 |
| Aroclor-1260-4 | (4) | 6.87 | 6.87 | 6.77 | 6.97 | 0.00 |
| Aroclor-1260-5 | (5) | 7.17 | 7.18 | 7.08 | 7.28 | 0.01 |
| Tetrachloro-m-xylene | | 3.41 | 3.41 | 3.31 | 3.51 | 0.00 |
| Decachlorobiphenyl | | 8.54 | 8.54 | 8.44 | 8.64 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**Continuing Calib Date:** 11/19/2025 **Initial Calibration Date(s):** 11/18/2025 11/18/2025

**Continuing Calib Time:** 17:27 **Initial Calibration Time(s):** 12:13 17:52

**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) | 3.87 | 3.87 | 3.77 | 3.97 | 0.00 |
| Aroclor-1016-2 | (2) | 3.89 | 3.89 | 3.79 | 3.99 | 0.00 |
| Aroclor-1016-3 | (3) | 4.05 | 4.05 | 3.95 | 4.15 | 0.00 |
| Aroclor-1016-4 | (4) | 4.10 | 4.10 | 4.00 | 4.20 | 0.00 |
| Aroclor-1016-5 | (5) | 4.29 | 4.30 | 4.20 | 4.40 | 0.01 |
| Aroclor-1260-1 | (1) | 5.29 | 5.30 | 5.20 | 5.40 | 0.01 |
| Aroclor-1260-2 | (2) | 5.48 | 5.49 | 5.39 | 5.59 | 0.01 |
| Aroclor-1260-3 | (3) | 5.63 | 5.63 | 5.53 | 5.73 | 0.00 |
| Aroclor-1260-4 | (4) | 6.09 | 6.09 | 5.99 | 6.19 | 0.00 |
| Aroclor-1260-5 | (5) | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| Tetrachloro-m-xylene | | 2.86 | 2.86 | 2.76 | 2.96 | 0.00 |
| Decachlorobiphenyl | | 7.66 | 7.66 | 7.56 | 7.76 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/18/2025 11/18/2025

**Client Sample No.:** CCAL04 **Date Analyzed:** 11/19/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PQ071344.D **Time Analyzed:** 17:27

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.496 | 4.397 | 4.597 | 511.570 | 500.000 | 2.3 |
| Aroclor-1016-2 | 4.516 | 4.416 | 4.616 | 515.760 | 500.000 | 3.2 |
| Aroclor-1016-3 | 4.573 | 4.474 | 4.674 | 504.590 | 500.000 | 0.9 |
| Aroclor-1016-4 | 4.663 | 4.564 | 4.764 | 510.130 | 500.000 | 2.0 |
| Aroclor-1016-5 | 4.948 | 4.849 | 5.049 | 516.900 | 500.000 | 3.4 |
| Aroclor-1260-1 | 6.042 | 5.943 | 6.143 | 474.340 | 500.000 | -5.1 |
| Aroclor-1260-2 | 6.299 | 6.200 | 6.400 | 488.950 | 500.000 | -2.2 |
| Aroclor-1260-3 | 6.652 | 6.552 | 6.752 | 466.010 | 500.000 | -6.8 |
| Aroclor-1260-4 | 6.867 | 6.767 | 6.967 | 457.130 | 500.000 | -8.6 |
| Aroclor-1260-5 | 7.174 | 7.075 | 7.275 | 457.560 | 500.000 | -8.5 |
| Decachlorobiphenyl | 8.536 | 8.437 | 8.637 | 44.700 | 50.000 | -10.6 |
| Tetrachloro-m-xylene | 3.411 | 3.311 | 3.511 | 52.310 | 50.000 | 4.6 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **SDG NO.:** Q3662

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/18/2025 11/18/2025

**Client Sample No.:** CCAL04 **Date Analyzed:** 11/19/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PQ071344.D **Time Analyzed:** 17:27

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 3.870 | 3.771 | 3.971 | 590.240 | 500.000 | 18.0 |
| Aroclor-1016-2 | 3.886 | 3.788 | 3.988 | 597.700 | 500.000 | 19.5 |
| Aroclor-1016-3 | 4.047 | 3.950 | 4.150 | 577.740 | 500.000 | 15.5 |
| Aroclor-1016-4 | 4.096 | 3.998 | 4.198 | 571.240 | 500.000 | 14.2 |
| Aroclor-1016-5 | 4.293 | 4.195 | 4.395 | 587.860 | 500.000 | 17.6 |
| Aroclor-1260-1 | 5.294 | 5.197 | 5.397 | 567.790 | 500.000 | 13.6 |
| Aroclor-1260-2 | 5.483 | 5.386 | 5.586 | 568.210 | 500.000 | 13.6 |
| Aroclor-1260-3 | 5.627 | 5.530 | 5.730 | 566.310 | 500.000 | 13.3 |
| Aroclor-1260-4 | 6.091 | 5.993 | 6.193 | 573.540 | 500.000 | 14.7 |
| Aroclor-1260-5 | 6.335 | 6.238 | 6.438 | 541.220 | 500.000 | 8.2 |
| Decachlorobiphenyl | 7.656 | 7.559 | 7.759 | 46.750 | 50.000 | -6.5 |
| Tetrachloro-m-xylene | 2.856 | 2.756 | 2.956 | 58.960 | 50.000 | 17.9 |

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# Analytical Sequence

**Client:** HDR, Inc. **SDG No.:** Q3662

**Project:** PVWC Linear Construction **Instrument ID:** ECD_O

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/04/2025 11/04/2025

**THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:**

| CLIENT ID | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 11/04/2025 | 09:21 | PO114870.D | 9.93 | 4.35 |
| AR1660ICC1000 | AR1660ICC1000 | 11/04/2025 | 09:39 | PO114871.D | 9.93 | 4.35 |
| AR1660ICC750 | AR1660ICC750 | 11/04/2025 | 09:58 | PO114872.D | 9.93 | 4.35 |
| AR1660ICC500 | AR1660ICC500 | 11/04/2025 | 10:16 | PO114873.D | 9.93 | 4.35 |
| AR1660ICC250 | AR1660ICC250 | 11/04/2025 | 10:34 | PO114874.D | 9.93 | 4.35 |
| AR1660ICC050 | AR1660ICC050 | 11/04/2025 | 10:53 | PO114875.D | 9.93 | 4.35 |
| AR1221ICC500 | AR1221ICC500 | 11/04/2025 | 11:11 | PO114876.D | 9.93 | 4.35 |
| AR1232ICC500 | AR1232ICC500 | 11/04/2025 | 11:30 | PO114877.D | 9.93 | 4.35 |
| AR1242ICC1000 | AR1242ICC1000 | 11/04/2025 | 11:48 | PO114878.D | 9.93 | 4.35 |
| AR1242ICC750 | AR1242ICC750 | 11/04/2025 | 12:06 | PO114879.D | 9.93 | 4.35 |
| AR1242ICC500 | AR1242ICC500 | 11/04/2025 | 12:25 | PO114880.D | 9.93 | 4.35 |
| AR1242ICC250 | AR1242ICC250 | 11/04/2025 | 12:42 | PO114881.D | 9.93 | 4.35 |
| AR1242ICC050 | AR1242ICC050 | 11/04/2025 | 13:00 | PO114882.D | 9.93 | 4.35 |
| AR1248ICC1000 | AR1248ICC1000 | 11/04/2025 | 13:19 | PO114883.D | 9.93 | 4.35 |
| AR1248ICC750 | AR1248ICC750 | 11/04/2025 | 13:37 | PO114884.D | 9.93 | 4.35 |
| AR1248ICC500 | AR1248ICC500 | 11/04/2025 | 13:56 | PO114885.D | 9.93 | 4.35 |
| AR1248ICC250 | AR1248ICC250 | 11/04/2025 | 14:14 | PO114886.D | 9.93 | 4.35 |
| AR1248ICC050 | AR1248ICC050 | 11/04/2025 | 14:33 | PO114887.D | 9.93 | 4.35 |
| AR1254ICC1000 | AR1254ICC1000 | 11/04/2025 | 14:51 | PO114888.D | 9.93 | 4.35 |
| AR1254ICC750 | AR1254ICC750 | 11/04/2025 | 15:09 | PO114889.D | 9.93 | 4.35 |
| AR1254ICC500 | AR1254ICC500 | 11/04/2025 | 15:28 | PO114890.D | 9.93 | 4.35 |
| AR1254ICC250 | AR1254ICC250 | 11/04/2025 | 16:04 | PO114891.D | 9.93 | 4.35 |
| AR1254ICC050 | AR1254ICC050 | 11/04/2025 | 16:23 | PO114892.D | 9.93 | 4.35 |
| AR1262ICC500 | AR1262ICC500 | 11/04/2025 | 17:00 | PO114893.D | 9.95 | 4.37 |
| AR1268ICC1000 | AR1268ICC1000 | 11/04/2025 | 17:18 | PO114894.D | 9.93 | 4.35 |
| AR1268ICC750 | AR1268ICC750 | 11/04/2025 | 17:36 | PO114895.D | 9.93 | 4.35 |
| AR1268ICC500 | AR1268ICC500 | 11/04/2025 | 17:55 | PO114896.D | 9.93 | 4.35 |
| AR1268ICC250 | AR1268ICC250 | 11/04/2025 | 18:13 | PO114897.D | 9.93 | 4.35 |
| AR1268ICC050 | AR1268ICC050 | 11/04/2025 | 18:31 | PO114898.D | 9.93 | 4.35 |
| AR1660CCC500 | AR1660CCC500 | 11/19/2025 | 09:38 | PO115205.D | 9.92 | 4.34 |
| I.BLK | I.BLK | 11/19/2025 | 11:00 | PO115209.D | 9.92 | 4.34 |
| B3-0.0-1.0-20251117 | Q3662-02 | 11/19/2025 | 13:17 | PO115214.D | 9.92 | 4.34 |
| B1-0.0-1.0-20251117 | Q3662-04 | 11/19/2025 | 13:35 | PO115215.D | 9.92 | 4.34 |
| AR1660CCC500 | AR1660CCC500 | 11/19/2025 | 15:26 | PO115220.D | 9.92 | 4.34 |
| I.BLK | I.BLK | 11/19/2025 | 16:39 | PO115224.D | 9.92 | 4.34 |
| I.BLK | I.BLK | 11/18/2025 | 11:59 | PQ071272.D | 8.54 | 3.41 |
| AR1660ICC1000 | AR1660ICC1000 | 11/18/2025 | 12:13 | PQ071273.D | 8.54 | 3.41 |
| AR1660ICC750 | AR1660ICC750 | 11/18/2025 | 12:28 | PQ071274.D | 8.54 | 3.41 |
| AR1660ICC500 | AR1660ICC500 | 11/18/2025 | 12:43 | PQ071275.D | 8.54 | 3.41 |
| AR1660ICC250 | AR1660ICC250 | 11/18/2025 | 12:57 | PQ071276.D | 8.54 | 3.41 |
| AR1660ICC050 | AR1660ICC050 | 11/18/2025 | 15:42 | PQ071277.D | 8.56 | 3.43 |
| AR1221ICC500 | AR1221ICC500 | 11/18/2025 | 16:25 | PQ071278.D | 8.56 | 3.43 |

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

# Analytical Sequence

| | | | | | | |
|---|---|---|---|---|---|---|
| AR1232ICC500 | AR1232ICC500 | 11/18/2025 | 16:39 | PQ071279.D | 8.54 | 3.41 |
| AR1242ICC500 | AR1242ICC500 | 11/18/2025 | 16:54 | PQ071280.D | 8.54 | 3.41 |
| AR1248ICC500 | AR1248ICC500 | 11/18/2025 | 17:08 | PQ071281.D | 8.54 | 3.41 |
| AR1254ICC500 | AR1254ICC500 | 11/18/2025 | 17:23 | PQ071282.D | 8.54 | 3.41 |
| AR1262ICC500 | AR1262ICC500 | 11/18/2025 | 17:37 | PQ071283.D | 8.54 | 3.41 |
| AR1268ICC500 | AR1268ICC500 | 11/18/2025 | 17:52 | PQ071284.D | 8.54 | 3.41 |
| AR1660CCC500 | AR1660CCC500 | 11/19/2025 | 13:04 | PQ071332.D | 8.54 | 3.41 |
| I.BLK | I.BLK | 11/19/2025 | 13:18 | PQ071333.D | 8.54 | 3.41 |
| PB170627BL | PB170627BL | 11/19/2025 | 13:34 | PQ071334.D | 8.54 | 3.41 |
| PB170627BS | PB170627BS | 11/19/2025 | 13:48 | PQ071335.D | 8.54 | 3.41 |
| EO-01-11182025MS | Q3669-01MS | 11/19/2025 | 15:01 | PQ071340.D | 8.54 | 3.41 |
| EO-01-11182025MSD | Q3669-01MSD | 11/19/2025 | 15:16 | PQ071341.D | 8.54 | 3.41 |
| AR1660CCC500 | AR1660CCC500 | 11/19/2025 | 17:27 | PQ071344.D | 8.54 | 3.41 |
| I.BLK | I.BLK | 11/19/2025 | 17:42 | PQ071345.D | 8.54 | 3.41 |

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# Analytical Sequence

**Client:** HDR, Inc. **SDG No.:** Q3662

**Project:** PVWC Linear Construction **Instrument ID:** ECD_O

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/04/2025 11/04/2025

**THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:**

| CLIENT ID | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 11/04/2025 | 09:21 | PO114870.D | 8.64 | 3.65 |
| AR1660ICC1000 | AR1660ICC1000 | 11/04/2025 | 09:39 | PO114871.D | 8.64 | 3.65 |
| AR1660ICC750 | AR1660ICC750 | 11/04/2025 | 09:58 | PO114872.D | 8.64 | 3.65 |
| AR1660ICC500 | AR1660ICC500 | 11/04/2025 | 10:16 | PO114873.D | 8.64 | 3.65 |
| AR1660ICC250 | AR1660ICC250 | 11/04/2025 | 10:34 | PO114874.D | 8.64 | 3.65 |
| AR1660ICC050 | AR1660ICC050 | 11/04/2025 | 10:53 | PO114875.D | 8.64 | 3.65 |
| AR1221ICC500 | AR1221ICC500 | 11/04/2025 | 11:11 | PO114876.D | 8.64 | 3.65 |
| AR1232ICC500 | AR1232ICC500 | 11/04/2025 | 11:30 | PO114877.D | 8.64 | 3.65 |
| AR1242ICC1000 | AR1242ICC1000 | 11/04/2025 | 11:48 | PO114878.D | 8.64 | 3.65 |
| AR1242ICC750 | AR1242ICC750 | 11/04/2025 | 12:06 | PO114879.D | 8.64 | 3.65 |
| AR1242ICC500 | AR1242ICC500 | 11/04/2025 | 12:25 | PO114880.D | 8.64 | 3.65 |
| AR1242ICC250 | AR1242ICC250 | 11/04/2025 | 12:42 | PO114881.D | 8.64 | 3.65 |
| AR1242ICC050 | AR1242ICC050 | 11/04/2025 | 13:00 | PO114882.D | 8.64 | 3.65 |
| AR1248ICC1000 | AR1248ICC1000 | 11/04/2025 | 13:19 | PO114883.D | 8.64 | 3.65 |
| AR1248ICC750 | AR1248ICC750 | 11/04/2025 | 13:37 | PO114884.D | 8.64 | 3.65 |
| AR1248ICC500 | AR1248ICC500 | 11/04/2025 | 13:56 | PO114885.D | 8.64 | 3.65 |
| AR1248ICC250 | AR1248ICC250 | 11/04/2025 | 14:14 | PO114886.D | 8.64 | 3.65 |
| AR1248ICC050 | AR1248ICC050 | 11/04/2025 | 14:33 | PO114887.D | 8.64 | 3.65 |
| AR1254ICC1000 | AR1254ICC1000 | 11/04/2025 | 14:51 | PO114888.D | 8.64 | 3.65 |
| AR1254ICC750 | AR1254ICC750 | 11/04/2025 | 15:09 | PO114889.D | 8.64 | 3.65 |
| AR1254ICC500 | AR1254ICC500 | 11/04/2025 | 15:28 | PO114890.D | 8.64 | 3.65 |
| AR1254ICC250 | AR1254ICC250 | 11/04/2025 | 16:04 | PO114891.D | 8.64 | 3.65 |
| AR1254ICC050 | AR1254ICC050 | 11/04/2025 | 16:23 | PO114892.D | 8.64 | 3.65 |
| AR1262ICC500 | AR1262ICC500 | 11/04/2025 | 17:00 | PO114893.D | 8.64 | 3.65 |
| AR1268ICC1000 | AR1268ICC1000 | 11/04/2025 | 17:18 | PO114894.D | 8.64 | 3.65 |
| AR1268ICC750 | AR1268ICC750 | 11/04/2025 | 17:36 | PO114895.D | 8.64 | 3.65 |
| AR1268ICC500 | AR1268ICC500 | 11/04/2025 | 17:55 | PO114896.D | 8.64 | 3.65 |
| AR1268ICC250 | AR1268ICC250 | 11/04/2025 | 18:13 | PO114897.D | 8.64 | 3.65 |
| AR1268ICC050 | AR1268ICC050 | 11/04/2025 | 18:31 | PO114898.D | 8.64 | 3.65 |
| AR1660CCC500 | AR1660CCC500 | 11/19/2025 | 09:38 | PO115205.D | 8.63 | 3.65 |
| I.BLK | I.BLK | 11/19/2025 | 11:00 | PO115209.D | 8.63 | 3.65 |
| B3-0.0-1.0-20251117 | Q3662-02 | 11/19/2025 | 13:17 | PO115214.D | 8.63 | 3.64 |
| B1-0.0-1.0-20251117 | Q3662-04 | 11/19/2025 | 13:35 | PO115215.D | 8.63 | 3.64 |
| AR1660CCC500 | AR1660CCC500 | 11/19/2025 | 15:26 | PO115220.D | 8.63 | 3.65 |
| I.BLK | I.BLK | 11/19/2025 | 16:39 | PO115224.D | 8.63 | 3.65 |
| I.BLK | I.BLK | 11/18/2025 | 11:59 | PQ071272.D | 7.66 | 2.86 |
| AR1660ICC1000 | AR1660ICC1000 | 11/18/2025 | 12:13 | PQ071273.D | 7.66 | 2.86 |
| AR1660ICC750 | AR1660ICC750 | 11/18/2025 | 12:28 | PQ071274.D | 7.66 | 2.86 |
| AR1660ICC500 | AR1660ICC500 | 11/18/2025 | 12:43 | PQ071275.D | 7.66 | 2.86 |
| AR1660ICC250 | AR1660ICC250 | 11/18/2025 | 12:57 | PQ071276.D | 7.66 | 2.86 |
| AR1660ICC050 | AR1660ICC050 | 11/18/2025 | 15:42 | PQ071277.D | 7.67 | 2.86 |
| AR1221ICC500 | AR1221ICC500 | 11/18/2025 | 16:25 | PQ071278.D | 7.67 | 2.86 |

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# Analytical Sequence

| | | | | | | |
|---|---|---|---|---|---|---|
| AR1232ICC500 | AR1232ICC500 | 11/18/2025 | 16:39 | PQ071279.D | 7.66 | 2.86 |
| AR1242ICC500 | AR1242ICC500 | 11/18/2025 | 16:54 | PQ071280.D | 7.66 | 2.86 |
| AR1248ICC500 | AR1248ICC500 | 11/18/2025 | 17:08 | PQ071281.D | 7.66 | 2.86 |
| AR1254ICC500 | AR1254ICC500 | 11/18/2025 | 17:23 | PQ071282.D | 7.66 | 2.86 |
| AR1262ICC500 | AR1262ICC500 | 11/18/2025 | 17:37 | PQ071283.D | 7.66 | 2.86 |
| AR1268ICC500 | AR1268ICC500 | 11/18/2025 | 17:52 | PQ071284.D | 7.66 | 2.86 |
| AR1660CCC500 | AR1660CCC500 | 11/19/2025 | 13:04 | PQ071332.D | 7.66 | 2.86 |
| I.BLK | I.BLK | 11/19/2025 | 13:18 | PQ071333.D | 7.66 | 2.86 |
| PB170627BL | PB170627BL | 11/19/2025 | 13:34 | PQ071334.D | 7.66 | 2.86 |
| PB170627BS | PB170627BS | 11/19/2025 | 13:48 | PQ071335.D | 7.66 | 2.86 |
| EO-01-11182025MS | Q3669-01MS | 11/19/2025 | 15:01 | PQ071340.D | 7.66 | 2.86 |
| EO-01-11182025MSD | Q3669-01MSD | 11/19/2025 | 15:16 | PQ071341.D | 7.66 | 2.86 |
| AR1660CCC500 | AR1660CCC500 | 11/19/2025 | 17:27 | PQ071344.D | 7.66 | 2.86 |
| I.BLK | I.BLK | 11/19/2025 | 17:42 | PQ071345.D | 7.66 | 2.86 |

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Fax : 908 789 8922

# IDENTIFICATION SUMMARY
## FOR MULTICOMPONENT ANALYTES

SAMPLE NO.: PB170627BS

Lab Name: Alliance
Contract: HDRI08
Lab Code: ACE
SDG NO.: Q3662
Lab Sample ID: PB170627BS
Date(s) Analyzed: 11/19/2025 11/19/2025
Instrument ID (1): ECD_Q
Instrument ID (2): ECD_Q
GC Column: (1): ZB-MR1 ID: 0.32 (mm)
GC Column:(2): ZB-MR2 ID: 0.32 (mm)
Data file PQ071335.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 4.497 | 4.447 | 4.547 | 130 | | |
| | 2 | 4.516 | 4.466 | 4.566 | 132 | | |
| | 3 | 4.573 | 4.523 | 4.623 | 129 | | |
| COLUMN 1 | 4 | 4.664 | 4.614 | 4.714 | 131 | | |
| | 5 | 4.949 | 4.899 | 4.999 | 128 | 130 | |
| | 1 | 3.87 | 3.82 | 3.92 | 145 | | |
| | 2 | 3.886 | 3.836 | 3.936 | 148 | | |
| | 3 | 4.048 | 3.998 | 4.098 | 145 | | |
| | 4 | 4.097 | 4.047 | 4.147 | 140 | | |
| COLUMN 2 | 5 | 4.294 | 4.244 | 4.344 | 140 | 143 | 9.52 |
| Aroclor-1260 | 1 | 6.043 | 5.993 | 6.093 | 129 | | |
| | 2 | 6.3 | 6.25 | 6.35 | 135 | | |
| | 3 | 6.653 | 6.603 | 6.703 | 113 | | |
| COLUMN 1 | 4 | 6.867 | 6.817 | 6.917 | 119 | | |
| | 5 | 7.174 | 7.124 | 7.224 | 118 | 123 | |
| | 1 | 5.295 | 5.245 | 5.345 | 147 | | |
| | 2 | 5.484 | 5.434 | 5.534 | 149 | | |
| | 3 | 5.627 | 5.577 | 5.677 | 149 | | |
| | 4 | 6.091 | 6.041 | 6.141 | 129 | | |
| COLUMN 2 | 5 | 6.336 | 6.286 | 6.386 | 129 | 141 | 13.64 |

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Fax : 908 789 8922

## IDENTIFICATION SUMMARY
## FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

EO-01-11182025MS

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG NO.: Q3662

Lab Sample ID: Q3669-01MS Date(s) Analyzed: 11/19/2025 11/19/2025

Instrument ID (1): ECD_Q Instrument ID (2): ECD_Q

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PQ071340.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 4.496 | 4.446 | 4.546 | 91.8 | | |
| | 2 | 4.515 | 4.465 | 4.565 | 83.7 | | |
| | 3 | 4.572 | 4.522 | 4.622 | 91.5 | | |
| COLUMN 1 | 4 | 4.662 | 4.612 | 4.712 | 97.5 | | |
| | 5 | 4.948 | 4.898 | 4.998 | 86.6 | 90.2 | |
| | 1 | 3.869 | 3.819 | 3.919 | 96.5 | | |
| | 2 | 3.886 | 3.836 | 3.936 | 97.2 | | |
| | 3 | 4.048 | 3.998 | 4.098 | 106 | | |
| | 4 | 4.096 | 4.046 | 4.146 | 100 | | |
| COLUMN 2 | 5 | 4.294 | 4.244 | 4.344 | 107 | 101 | 11.3 |
| Aroclor-1260 | 1 | 6.042 | 5.992 | 6.092 | 87.8 | | |
| | 2 | 6.299 | 6.249 | 6.349 | 110 | | |
| | 3 | 6.652 | 6.602 | 6.702 | 76.5 | | |
| COLUMN 1 | 4 | 6.867 | 6.817 | 6.917 | 77.8 | | |
| | 5 | 7.174 | 7.124 | 7.224 | 78.5 | 86.2 | |
| | 1 | 5.296 | 5.246 | 5.346 | 93.4 | | |
| | 2 | 5.485 | 5.435 | 5.535 | 98.8 | | |
| | 3 | 5.627 | 5.577 | 5.677 | 90.0 | | |
| | 4 | 6.092 | 6.042 | 6.142 | 71.4 | | |
| COLUMN 2 | 5 | 6.337 | 6.287 | 6.387 | 72.4 | 85.2 | 1.17 |

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Fax : 908 789 8922

# IDENTIFICATION SUMMARY
## FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

EO-01-11182025MSD

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG NO.: Q3662

Lab Sample ID: Q3669-01MSD Date(s) Analyzed: 11/19/2025 11/19/2025

Instrument ID (1): ECD_Q Instrument ID (2): ECD_Q

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PQ071341.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 4.496 | 4.446 | 4.546 | 93.0 | | |
| | 2 | 4.515 | 4.465 | 4.565 | 88.2 | | |
| | 3 | 4.573 | 4.523 | 4.623 | 92.2 | | |
| COLUMN 1 | 4 | 4.663 | 4.613 | 4.713 | 96.6 | | |
| | 5 | 4.948 | 4.898 | 4.998 | 88.6 | 91.7 | |
| | 1 | 3.87 | 3.82 | 3.92 | 90.2 | | |
| | 2 | 3.886 | 3.836 | 3.936 | 98.4 | | |
| | 3 | 4.048 | 3.998 | 4.098 | 107 | | |
| | 4 | 4.096 | 4.046 | 4.146 | 105 | | |
| COLUMN 2 | 5 | 4.294 | 4.244 | 4.344 | 105 | 101 | 9.65 |
| Aroclor-1260 | 1 | 6.042 | 5.992 | 6.092 | 86.3 | | |
| | 2 | 6.299 | 6.249 | 6.349 | 110 | | |
| | 3 | 6.652 | 6.602 | 6.702 | 76.9 | | |
| COLUMN 1 | 4 | 6.867 | 6.817 | 6.917 | 76.0 | | |
| | 5 | 7.174 | 7.124 | 7.224 | 77.2 | 85.4 | |
| | 1 | 5.295 | 5.245 | 5.345 | 94.1 | | |
| | 2 | 5.484 | 5.434 | 5.534 | 99.0 | | |
| | 3 | 5.627 | 5.577 | 5.677 | 89.0 | | |
| | 4 | 6.092 | 6.042 | 6.142 | 73.9 | | |
| COLUMN 2 | 5 | 6.336 | 6.286 | 6.386 | 69.2 | 85.0 | 0.47 |

# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111925\
Data File : PO115214.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 13:17
Operator : YP/AJ
Sample : Q3662-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
B3-0.0-1.0-20251117

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 01:41:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO110425.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Nov 05 06:00:07 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.340 | 3.644 | 129.3E6 | 87361960 | 18.377 | 19.558 |
| 2) | SA Decachlor... | 9.918 | 8.629 | 66692520 | 62868438 | 15.088m | 16.104 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

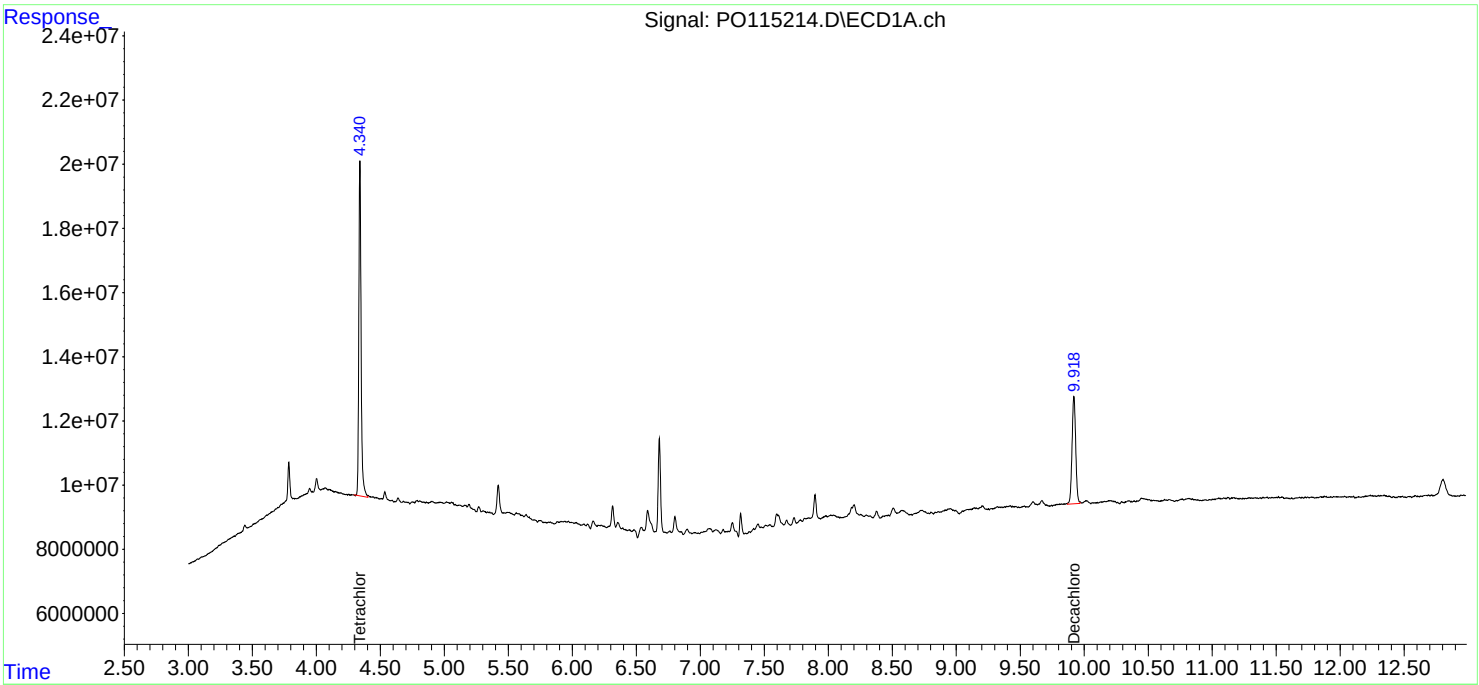
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111925\
Data File : PO115214.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 13:17
Operator : YP/AJ
Sample : Q3662-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

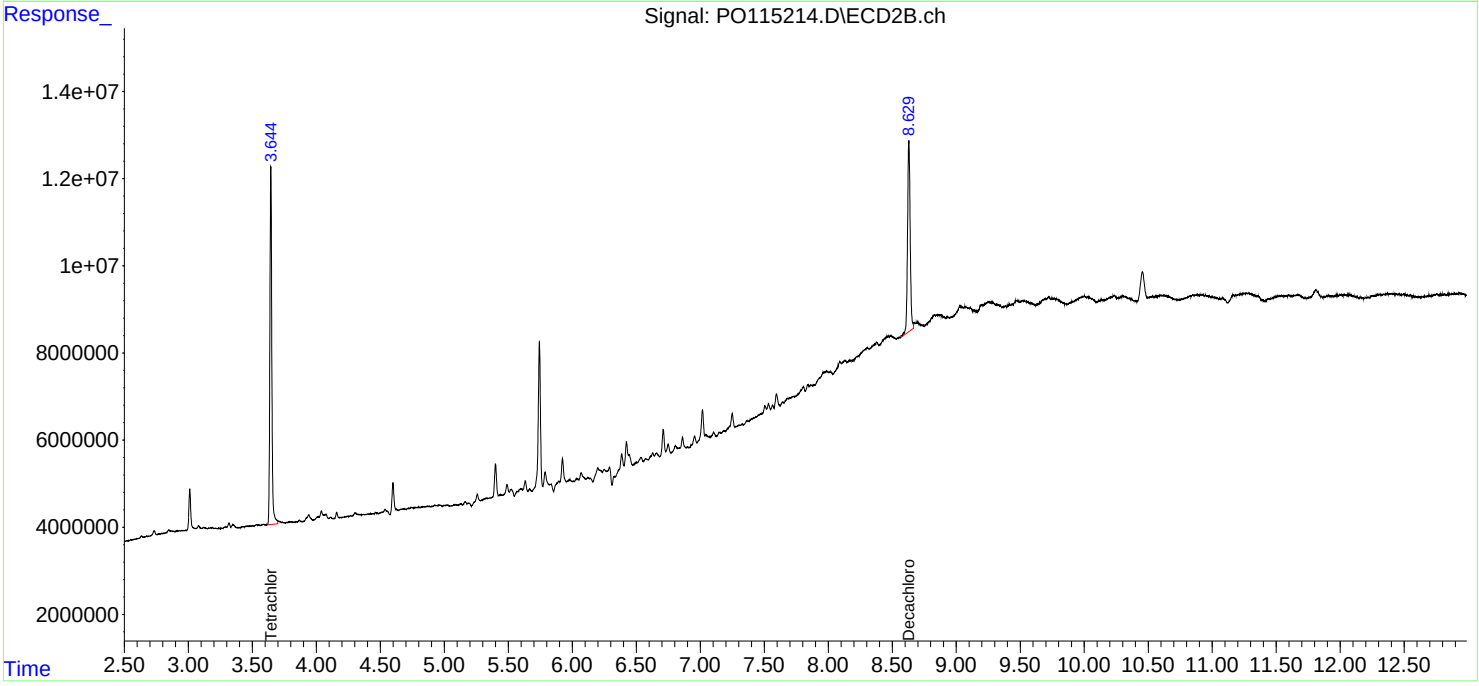
**Instrument :**
ECD_O
**ClientSampleId :**
B3-0.0-1.0-20251117

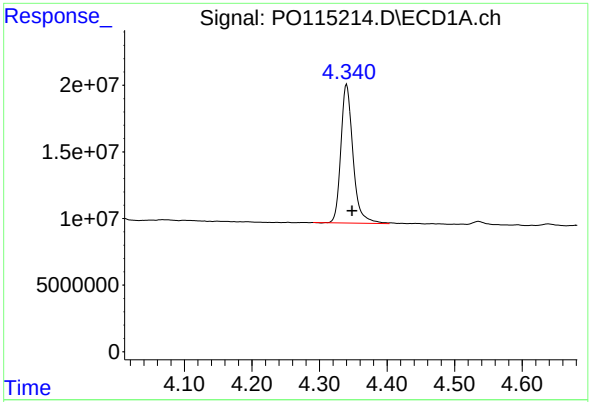
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 01:41:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO110425.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Nov 05 06:00:07 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





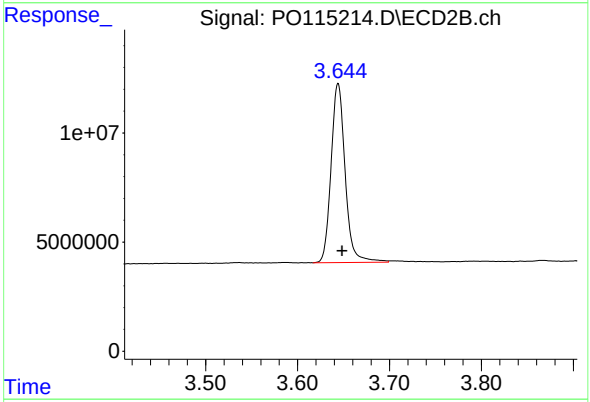

#1 Tetrachloro-m-xylene

R.T.: 4.340 min
Delta R.T.: -0.008 min
Response: 129338258
Conc: 18.38 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
B3-0.0-1.0-20251117

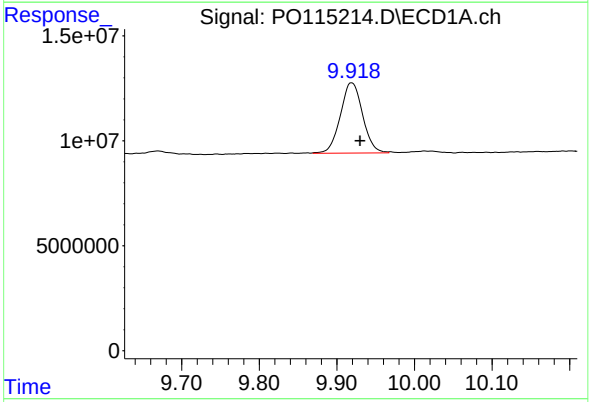
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025



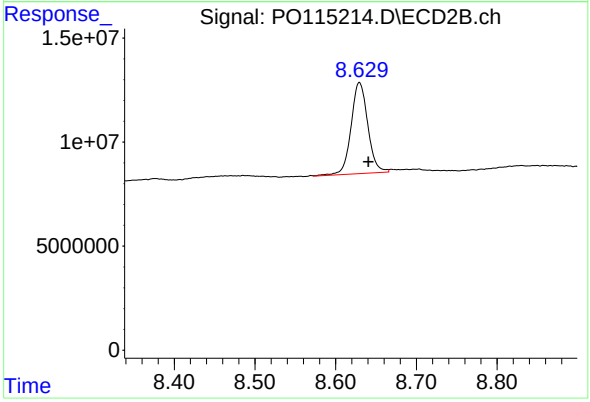

#1 Tetrachloro-m-xylene

R.T.: 3.644 min
Delta R.T.: -0.004 min
Response: 87361960
Conc: 19.56 ng/ml




#2 Decachlorobiphenyl

R.T.: 9.918 min
Delta R.T.: -0.012 min
Response: 66692520
Conc: 15.09 ng/ml m




#2 Decachlorobiphenyl

R.T.: 8.629 min
Delta R.T.: -0.011 min
Response: 62868438
Conc: 16.10 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111925\
Data File : PO115215.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 13:35
Operator : YP/AJ
Sample : Q3662-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
B1-0.0-1.0-20251117

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 01:41:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO110425.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Nov 05 06:00:07 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.341 | 3.644 | 130.4E6 | 87635183 | 18.532 | 19.619 |
| 2) | SA Decachlor... | 9.918 | 8.630 | 76806113 | 57335134 | 17.376 | 14.687m |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

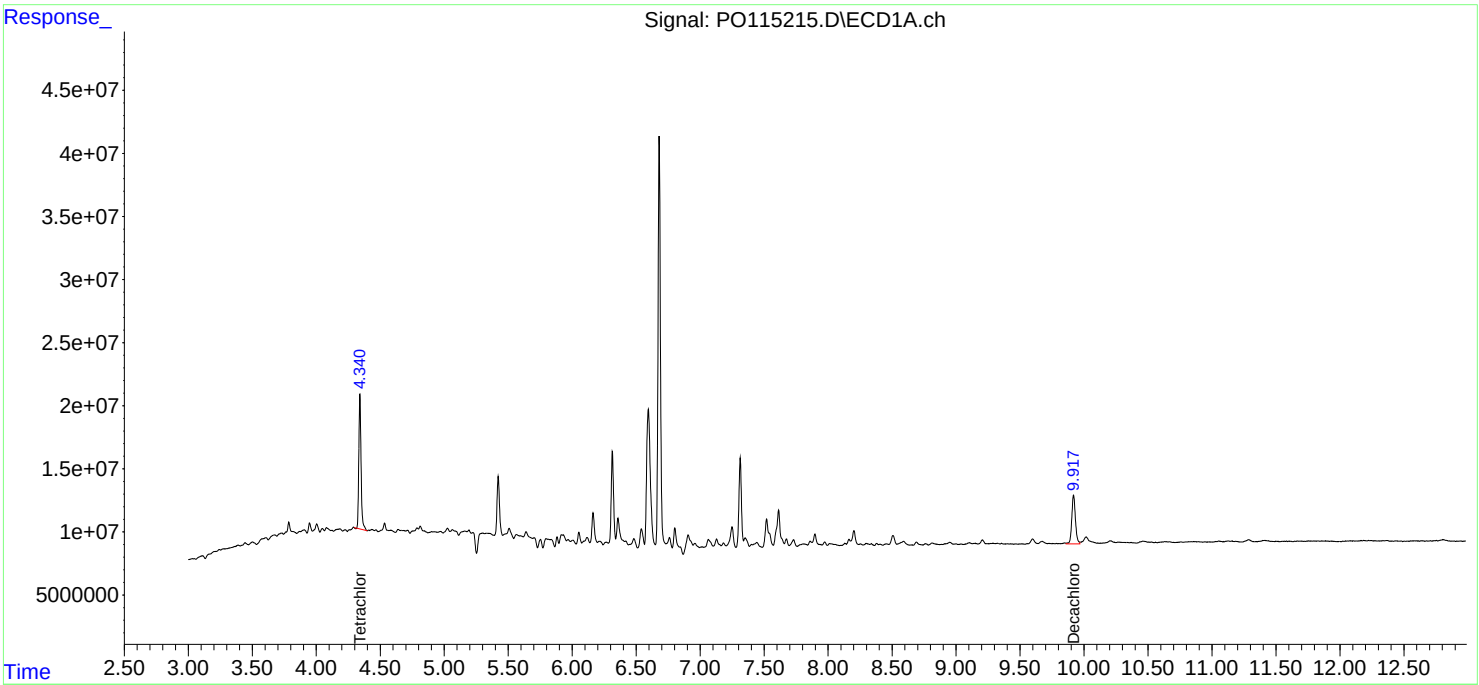
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO111925\
Data File : PO115215.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 13:35
Operator : YP/AJ
Sample : Q3662-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

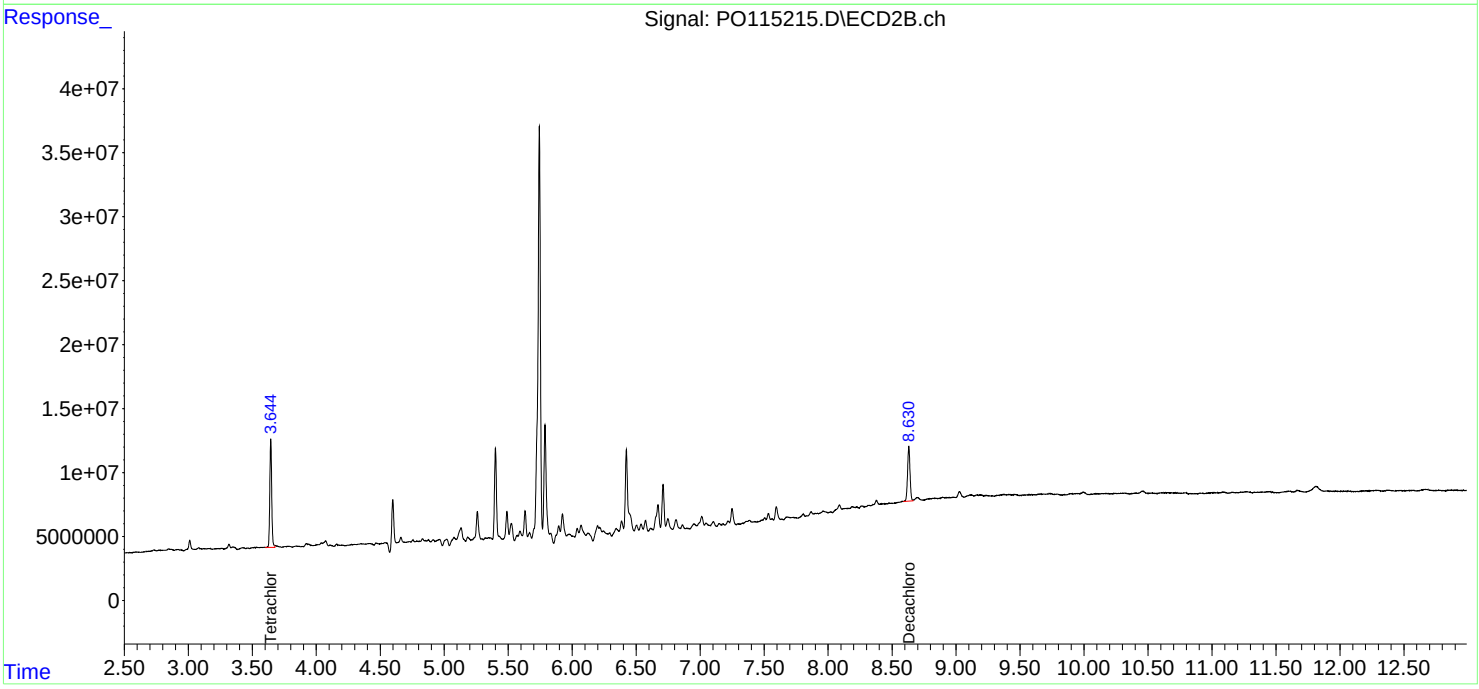
**Instrument :**
ECD_O
**ClientSampleId :**
B1-0.0-1.0-20251117

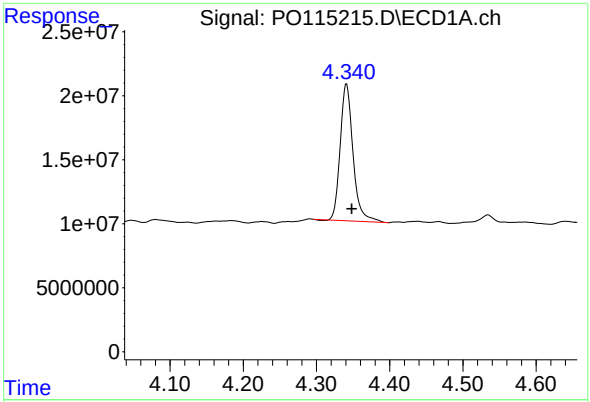
**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 01:41:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO110425.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Nov 05 06:00:07 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





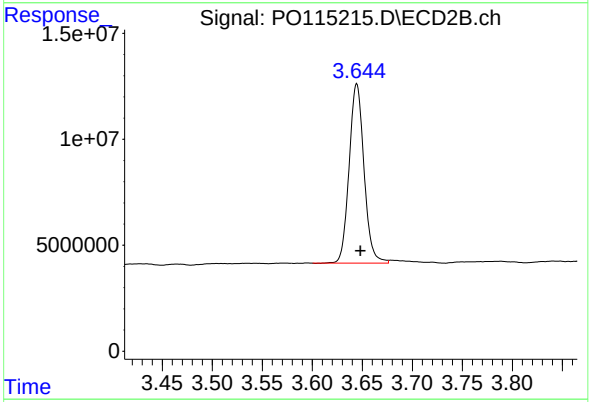

#1 Tetrachloro-m-xylene

R.T.: 4.341 min
Delta R.T.: -0.007 min
Response: 130429089
Conc: 18.53 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
B1-0.0-1.0-20251117

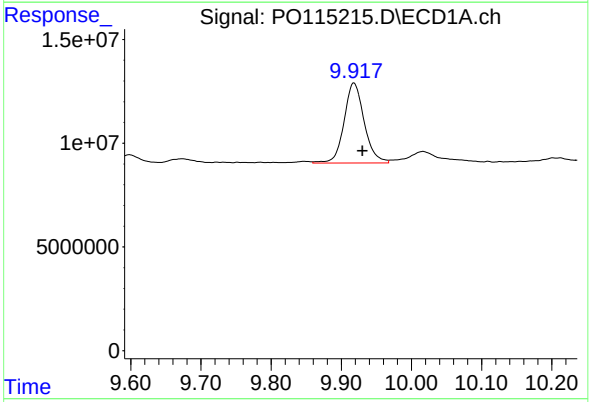
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025



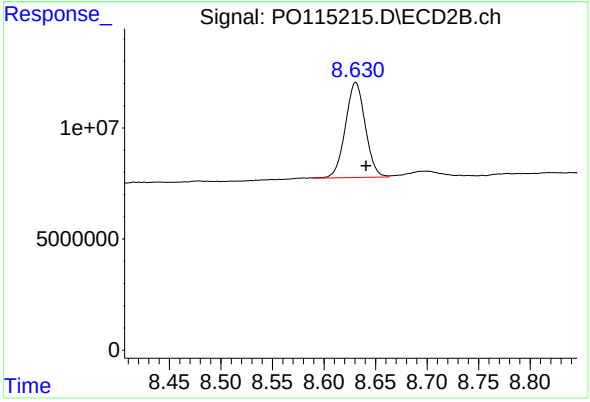

#1 Tetrachloro-m-xylene

R.T.: 3.644 min
Delta R.T.: -0.004 min
Response: 87635183
Conc: 19.62 ng/ml




#2 Decachlorobiphenyl

R.T.: 9.918 min
Delta R.T.: -0.012 min
Response: 76806113
Conc: 17.38 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.630 min
Delta R.T.: -0.010 min
Response: 57335134
Conc: 14.69 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ111925\
Data File : PQ071334.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 13:34
Operator : YP\AJ
Sample : PB170627BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
ECD_Q
**ClientSampleId :**
PB170627BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 07:29:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ111825.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Nov 19 04:02:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.414 | 2.855 | 160.1E6 | 200.4E6 | 18.397 | 21.460 |
| 2) | SA Decachlor... | 8.539 | 7.657 | 116.3E6 | 192.0E6 | 18.566 | 21.010 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

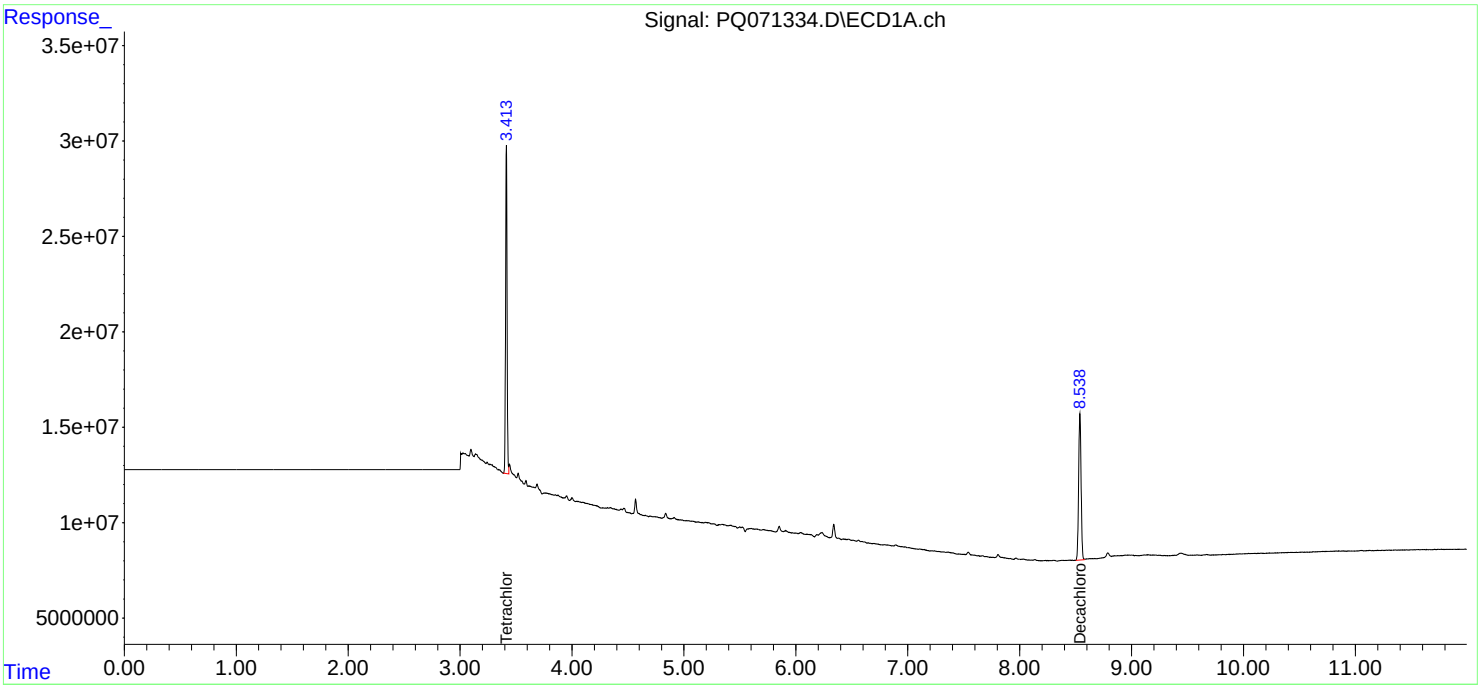
Sample Results: **PQ071334.D**

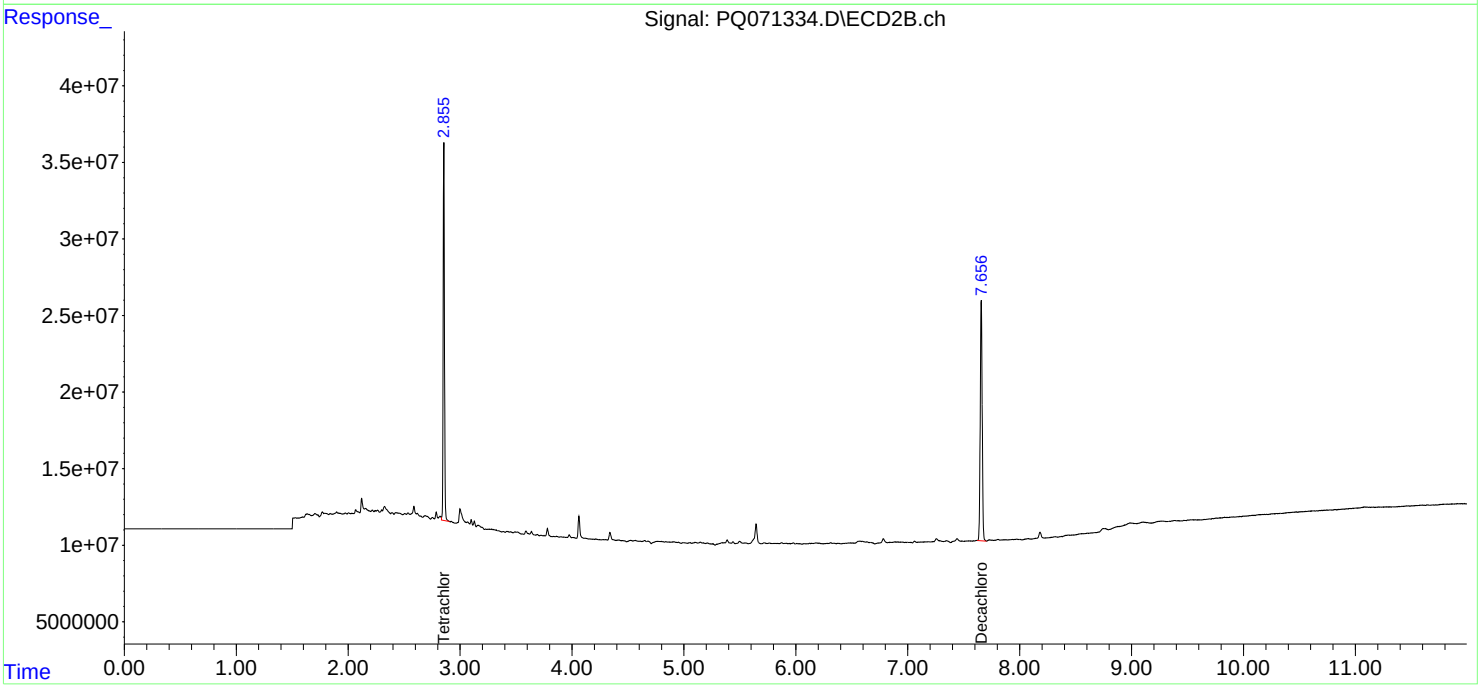
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ111925\
Data File : PQ071334.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 13:34
Operator : YP\AJ
Sample : PB170627BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

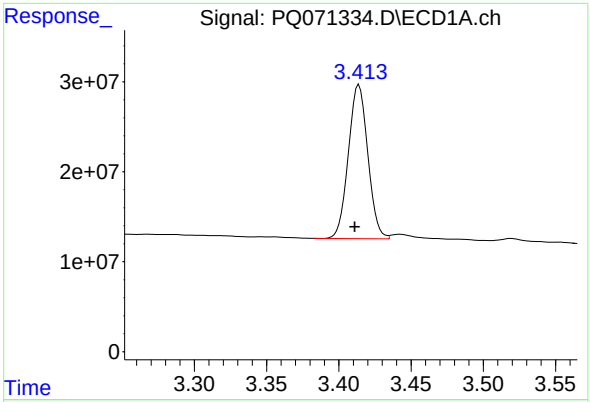
**Instrument :**
ECD_Q
**ClientSampleId :**
PB170627BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 07:29:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ111825.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Nov 19 04:02:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



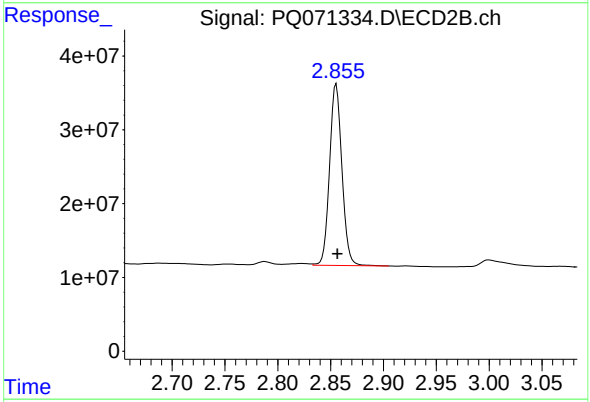






#1 Tetrachloro-m-xylene

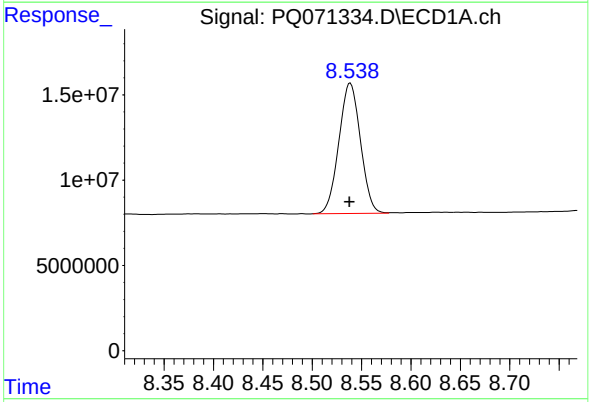
R.T.: 3.414 min
Delta R.T.: 0.003 min
Response: 160146312
Conc: 18.40 ng/ml

**Instrument :**
ECD_Q
**ClientSampleId :**
PB170627BL



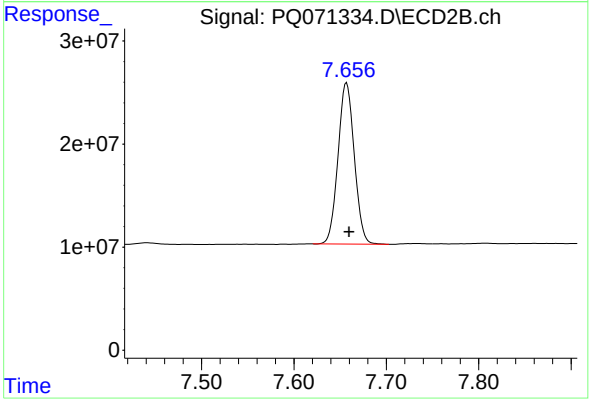

#1 Tetrachloro-m-xylene

R.T.: 2.855 min
Delta R.T.: -0.001 min
Response: 200365761
Conc: 21.46 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.539 min
Delta R.T.: 0.001 min
Response: 116252824
Conc: 18.57 ng/ml




#2 Decachlorobiphenyl

R.T.: 7.657 min
Delta R.T.: -0.003 min
Response: 191978713
Conc: 21.01 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ111925\
Data File : PQ071335.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 13:48
Operator : YP\AJ
Sample : PB170627BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
ECD_Q
**ClientSampleId :**
PB170627BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 07:29:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ111825.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Nov 19 04:02:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.411 | 2.856 | 162.0E6 | 185.2E6 | 18.606 | 19.830 |
| 2) | SA Decachlor... | 8.535 | 7.656 | 115.9E6 | 187.2E6 | 18.503 | 20.491 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 4.497 | 3.870 | 129.3E6 | 157.1E6 | 391.056 | 433.960 |
| 4) | L1 AR-1016-2 | 4.516 | 3.886 | 188.0E6 | 218.5E6 | 395.326 | 444.941 |
| 5) | L1 AR-1016-3 | 4.573 | 4.048 | 115.7E6 | 120.7E6 | 387.518 | 434.311 |
| 6) | L1 AR-1016-4 | 4.664 | 4.097 | 96507503 | 94054428 | 393.031 | 419.421 |
| 7) | L1 AR-1016-5 | 4.949 | 4.294 | 90731221 | 117.4E6 | 383.780 | 421.501 |
| 31) | L7 AR-1260-1 | 6.043 | 5.295 | 173.2E6 | 220.3E6 | 387.133 | 441.483 |
| 32) | L7 AR-1260-2 | 6.300 | 5.484 | 206.7E6 | 271.9E6 | 404.534 | 448.355 |
| 33) | L7 AR-1260-3 | 6.653 | 5.627 | 129.6E6 | 263.9E6 | 338.533 | 446.456 # |
| 34) | L7 AR-1260-4 | 6.867 | 6.091 | 149.2E6 | 191.8E6 | 356.792 | 387.179 |
| 35) | L7 AR-1260-5 | 7.174 | 6.336 | 295.2E6 | 444.7E6 | 354.750 | 387.309 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

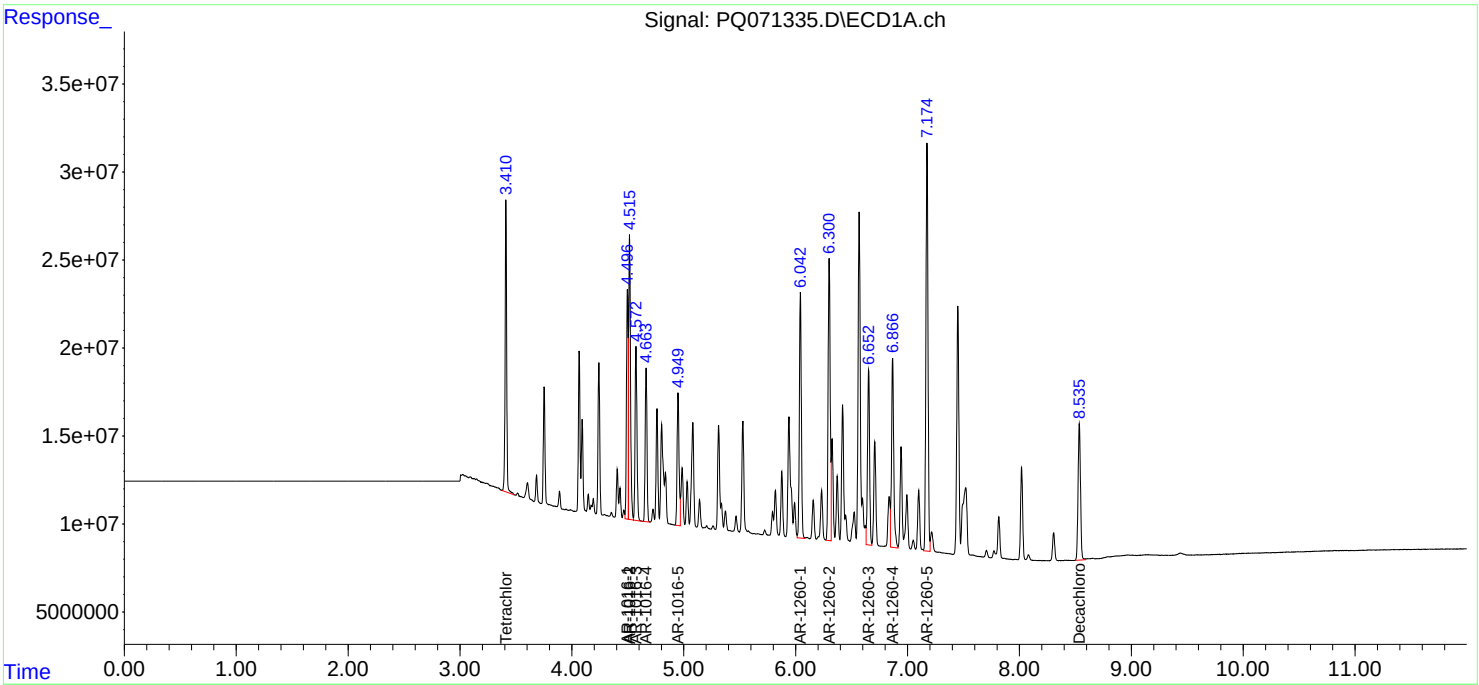
Sample Results: **PQ071335.D**

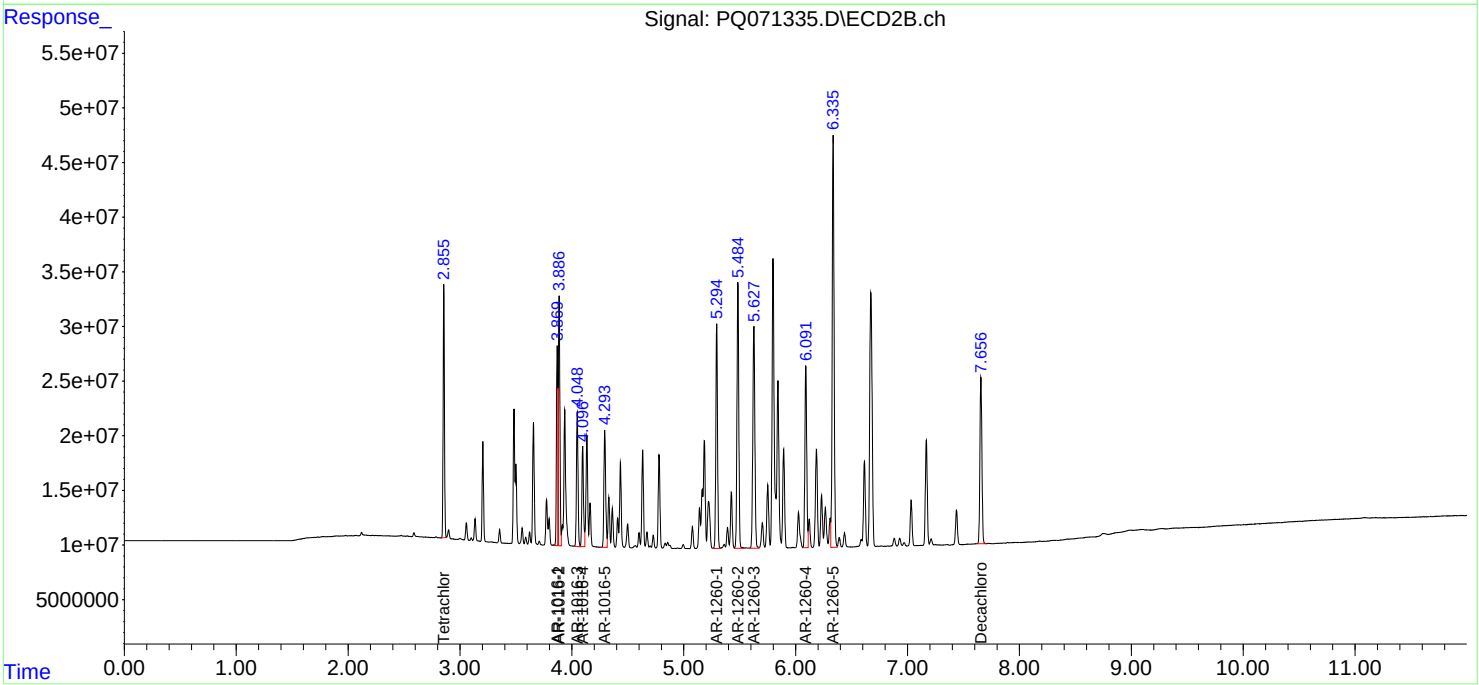
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ111925\
Data File : PQ071335.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 13:48
Operator : YP\AJ
Sample : PB170627BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
ECD_Q
**ClientSampleId :**
PB170627BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 07:29:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ111825.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Nov 19 04:02:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ111925\
Data File : PQ071340.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 15:01
Operator : YP\AJ
Sample : Q3669-01MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
ECD_Q
**ClientSampleId :**
EO-01-11182025MS

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 07:30:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ111825.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Nov 19 04:02:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.410 | 2.856 | 94580269 | 118.9E6 | 10.865m | 12.737m |
| 2) | SA Decachlor... | 8.536 | 7.658 | 76201441 | 82157289 | 12.170 | 8.991 # |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 4.496 | 3.869 | 84745831 | 97608282 | 256.379m | 269.544m |
| 4) | L1 AR-1016-2 | 4.515 | 3.886 | 111.2E6 | 133.3E6 | 233.775m | 271.463m |
| 5) | L1 AR-1016-3 | 4.572 | 4.048 | 76258000 | 82274874 | 255.506m | 295.962m |
| 6) | L1 AR-1016-4 | 4.662 | 4.096 | 66875662 | 62811753 | 272.354m | 280.099m |
| 7) | L1 AR-1016-5 | 4.948 | 4.294 | 57201370 | 82854662 | 241.953m | 297.431m |
| 31) | L7 AR-1260-1 | 6.042 | 5.296 | 109.7E6 | 130.1E6 | 245.136 | 260.834 |
| 32) | L7 AR-1260-2 | 6.299 | 5.485 | 157.2E6 | 167.3E6 | 307.705 | 275.918 |
| 33) | L7 AR-1260-3 | 6.652 | 5.627 | 81735021 | 148.6E6 | 213.556 | 251.399 |
| 34) | L7 AR-1260-4 | 6.867 | 6.092 | 90888501 | 98825016 | 217.361 | 199.494 |
| 35) | L7 AR-1260-5 | 7.174 | 6.337 | 182.4E6 | 232.3E6 | 219.187 | 202.261 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ111925\
Data File : PQ071340.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 15:01
Operator : YP\AJ
Sample : Q3669-01MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

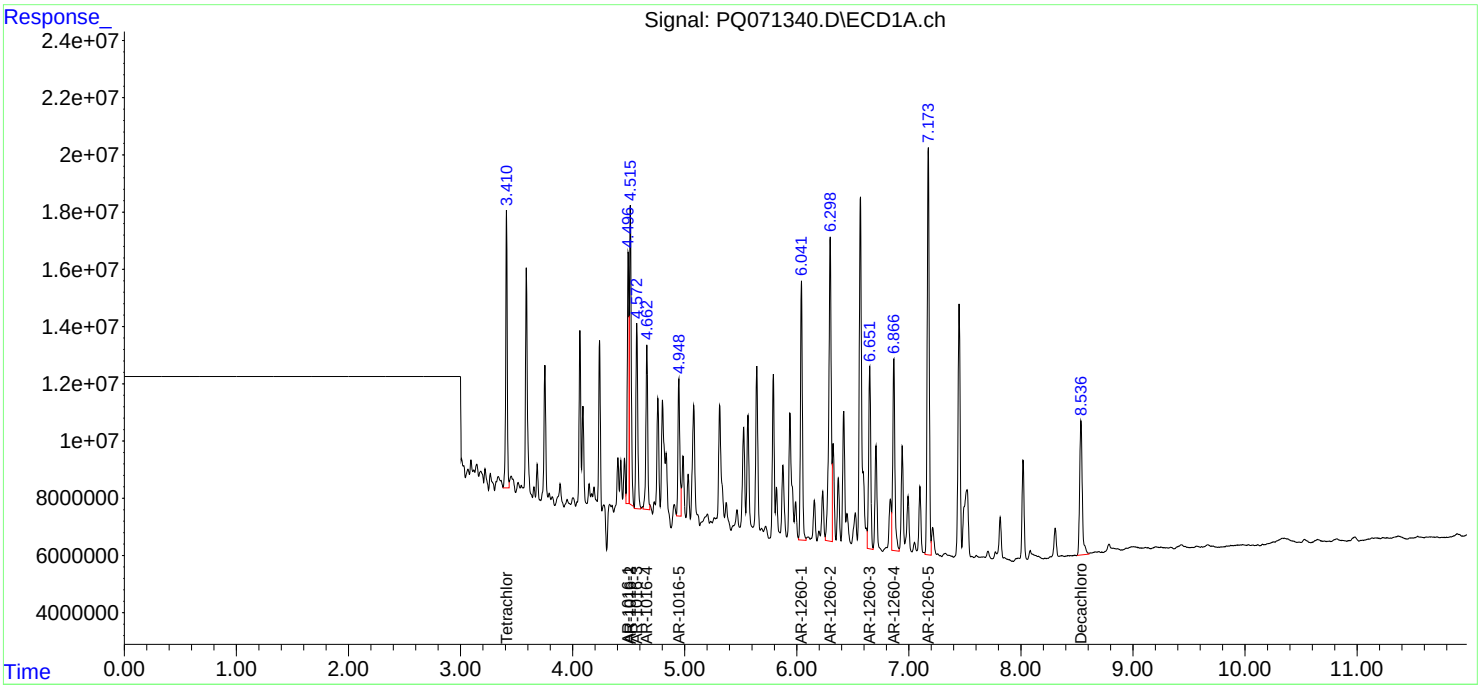
**Instrument :**
ECD_Q
**ClientSampleId :**
EO-01-11182025MS

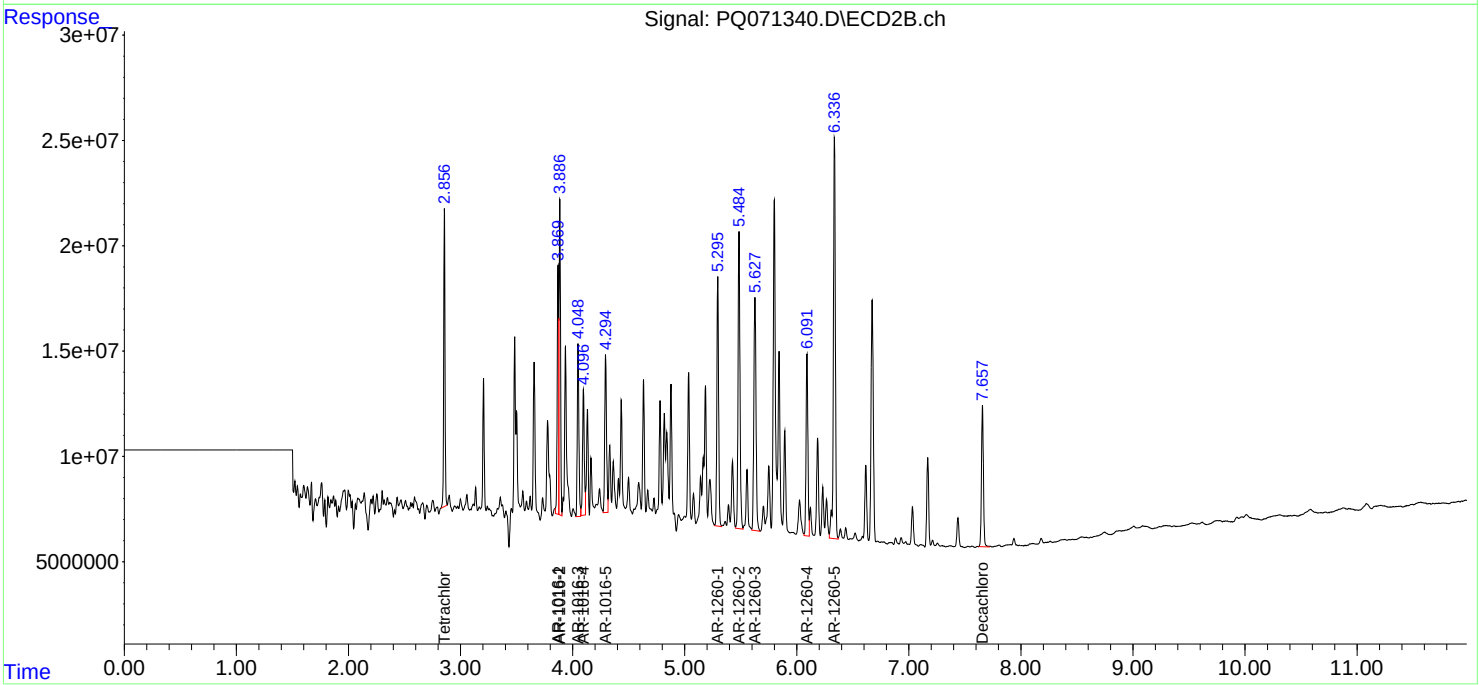
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 07:30:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ111825.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Nov 19 04:02:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ111925\
Data File : PQ071341.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 15:16
Operator : YP\AJ
Sample : Q3669-01MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
ECD_Q
**ClientSampleId :**
EO-01-11182025MSD

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 07:30:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ111825.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Nov 19 04:02:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.410 | 2.855 | 96929688 | 122.1E6 | 11.135m | 13.076m |
| 2) | SA Decachlor... | 8.537 | 7.657 | 76591307 | 79846456 | 12.232 | 8.738 # |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 4.496 | 3.870 | 85728163 | 91056933 | 259.350m | 251.453m |
| 4) | L1 AR-1016-2 | 4.515 | 3.886 | 116.9E6 | 134.8E6 | 245.869m | 274.379m |
| 5) | L1 AR-1016-3 | 4.573 | 4.048 | 76714199 | 82736548 | 257.035m | 297.622m |
| 6) | L1 AR-1016-4 | 4.663 | 4.096 | 66181682 | 65405930 | 269.527m | 291.668m |
| 7) | L1 AR-1016-5 | 4.948 | 4.294 | 58420390 | 81676834 | 247.110m | 293.202m |
| 31) | L7 AR-1260-1 | 6.042 | 5.295 | 107.7E6 | 130.9E6 | 240.728 | 262.304m |
| 32) | L7 AR-1260-2 | 6.299 | 5.484 | 157.3E6 | 167.4E6 | 307.841 | 276.119m |
| 33) | L7 AR-1260-3 | 6.652 | 5.627 | 82074128 | 146.7E6 | 214.442 | 248.100m |
| 34) | L7 AR-1260-4 | 6.867 | 6.092 | 88668026 | 102.1E6 | 212.051 | 206.181 |
| 35) | L7 AR-1260-5 | 7.174 | 6.336 | 179.2E6 | 221.6E6 | 215.323 | 193.010 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ111925\
Data File : PQ071341.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Nov 2025 15:16
Operator : YP\AJ
Sample : Q3669-01MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

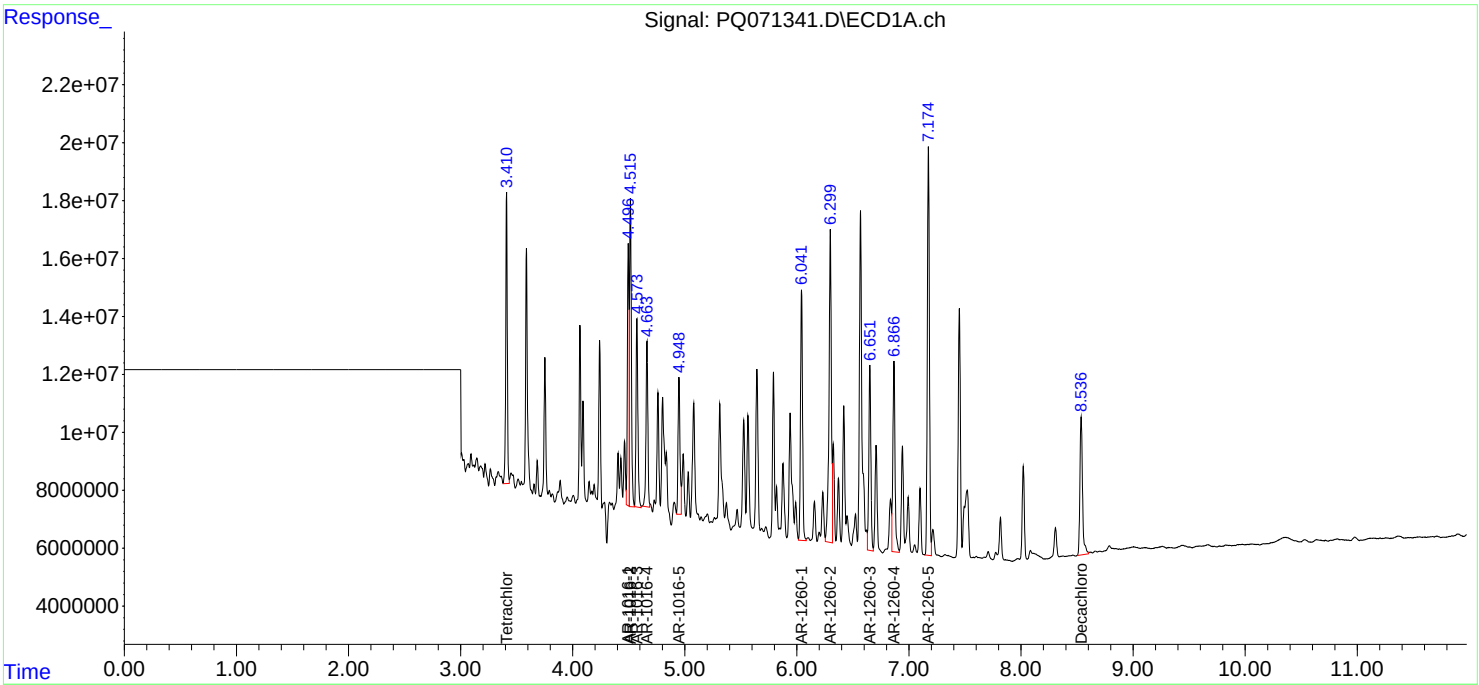
**Instrument :**
ECD_Q
**ClientSampleId :**
EO-01-11182025MSD

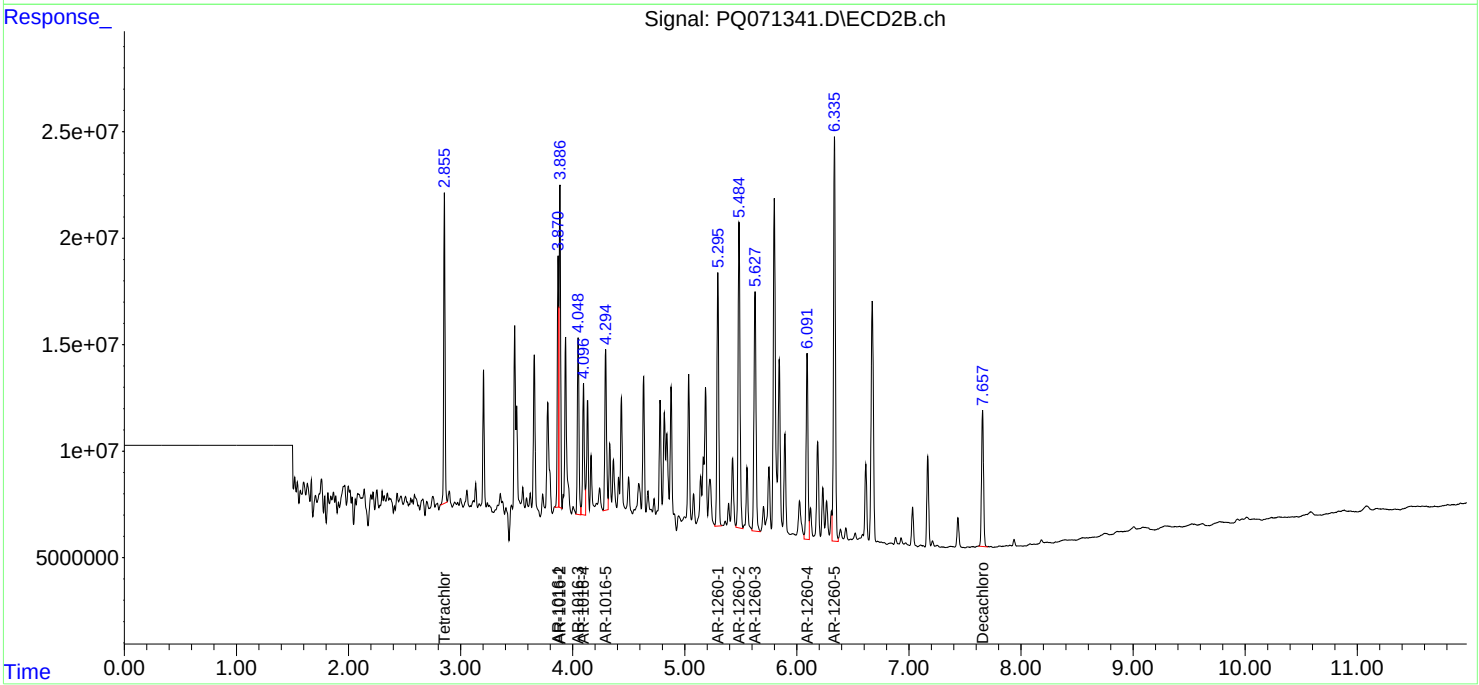
**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 20 07:30:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ111825.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Nov 19 04:02:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



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# Manual Integration Report

| Sequence: | po110425 | Instrument | ECD_o |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1660ICC250 | PO114874.D | AR-1260-1 #2 | rahul | 11/5/2025 8:39:44 AM | yogesh | 11/5/2025 10:22:06 | Peak Integrated by Software |
| AR1660ICC250 | PO114874.D | AR-1260-2 #2 | rahul | 11/5/2025 8:39:44 AM | yogesh | 11/5/2025 10:22:06 | Peak Integrated by Software |
| AR1660ICC050 | PO114875.D | AR-1016-3 #2 | rahul | 11/5/2025 8:39:48 AM | yogesh | 11/5/2025 10:22:08 | Peak Integrated by Software |
| AR1660ICC050 | PO114875.D | AR-1016-5 #2 | rahul | 11/5/2025 8:39:48 AM | yogesh | 11/5/2025 10:22:08 | Peak Integrated by Software |
| AR1660ICC050 | PO114875.D | AR-1260-1 | rahul | 11/5/2025 8:39:48 AM | yogesh | 11/5/2025 10:22:08 | Peak Integrated by Software |
| AR1660ICC050 | PO114875.D | AR-1260-1 #2 | rahul | 11/5/2025 8:39:48 AM | yogesh | 11/5/2025 10:22:08 | Peak Integrated by Software |
| AR1660ICC050 | PO114875.D | AR-1260-2 | rahul | 11/5/2025 8:39:48 AM | yogesh | 11/5/2025 10:22:08 | Peak Integrated by Software |
| AR1660ICC050 | PO114875.D | AR-1260-2 #2 | rahul | 11/5/2025 8:39:48 AM | yogesh | 11/5/2025 10:22:08 | Peak Integrated by Software |
| AR1660ICC050 | PO114875.D | AR-1260-3 | rahul | 11/5/2025 8:39:48 AM | yogesh | 11/5/2025 10:22:08 | Peak Integrated by Software |
| AR1660ICC050 | PO114875.D | AR-1260-4 | rahul | 11/5/2025 8:39:48 AM | yogesh | 11/5/2025 10:22:08 | Peak Integrated by Software |
| AR1242ICC050 | PO114882.D | AR-1242-5 #2 | rahul | 11/5/2025 8:39:51 AM | yogesh | 11/5/2025 10:22:11 | Peak Integrated by Software |
| AR1254ICC050 | PO114892.D | AR-1254-1 | rahul | 11/5/2025 8:40:06 AM | yogesh | 11/5/2025 10:22:11 | Peak Integrated by Software |
| AR1254ICC050 | PO114892.D | AR-1254-2 | rahul | 11/5/2025 8:40:06 AM | yogesh | 11/5/2025 10:22:11 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | po110425 | Instrument | ECD_o |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1254ICC050 | PO114892.D | AR-1254-4 | rahul | 11/5/2025 8:40:06 AM | yogesh | 11/5/2025 10:22:11 | Peak Integrated by Software |
| AR1254ICC050 | PO114892.D | Decachlorobiphenyl | rahul | 11/5/2025 8:40:06 AM | yogesh | 11/5/2025 10:22:11 | Peak Integrated by Software |
| AR1268ICC250 | PO114897.D | AR-1268-1 #2 | rahul | 11/5/2025 8:40:09 AM | yogesh | 11/5/2025 10:22:13 | Peak Integrated by Software |
| AR1242ICV500 | PO114900.D | AR-1242-1 | rahul | 11/5/2025 8:40:12 AM | yogesh | 11/5/2025 10:22:14 | Peak Integrated by Software |
| AR1242ICV500 | PO114900.D | AR-1242-2 | rahul | 11/5/2025 8:40:12 AM | yogesh | 11/5/2025 10:22:14 | Peak Integrated by Software |
| AR1242ICV500 | PO114900.D | AR-1242-3 | rahul | 11/5/2025 8:40:12 AM | yogesh | 11/5/2025 10:22:14 | Peak Integrated by Software |
| AR1242ICV500 | PO114900.D | AR-1242-4 | rahul | 11/5/2025 8:40:12 AM | yogesh | 11/5/2025 10:22:14 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PO111925 | Instrument | ECD_o |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1660CCC50 0 | PO115205.D | AR-1016-1 #2 | rahul | 11/20/2025 10:32:43 AM | Sohil | 11/20/2025 3:54:37 | Peak Integrated by Software |
| AR1660CCC50 0 | PO115205.D | AR-1016-2 #2 | rahul | 11/20/2025 10:32:43 AM | Sohil | 11/20/2025 3:54:37 | Peak Integrated by Software |
| I.BLK | PO115209.D | Decachlorobiphenyl | rahul | 11/20/2025 10:32:40 AM | Sohil | 11/20/2025 3:54:43 | Peak Integrated by Software |
| Q3662-02 | PO115214.D | Decachlorobiphenyl | rahul | 11/20/2025 10:32:27 AM | Sohil | 11/20/2025 3:55:38 | Peak Integrated by Software |
| Q3662-04 | PO115215.D | Decachlorobiphenyl #2 | rahul | 11/20/2025 10:32:24 AM | Sohil | 11/20/2025 3:55:41 | Peak Integrated by Software |
| AR1660CCC50 0 | PO115220.D | AR-1016-1 #2 | rahul | 11/20/2025 10:32:07 AM | Sohil | 11/20/2025 3:57:41 | Peak Integrated by Software |
| AR1660CCC50 0 | PO115220.D | AR-1016-2 #2 | rahul | 11/20/2025 10:32:07 AM | Sohil | 11/20/2025 3:57:41 | Peak Integrated by Software |
| AR1242CCC50 0 | PO115221.D | AR-1242-1 #2 | rahul | 11/20/2025 10:32:05 AM | Sohil | 11/20/2025 3:57:45 | Peak Integrated by Software |
| AR1242CCC50 0 | PO115221.D | AR-1242-2 #2 | rahul | 11/20/2025 10:32:05 AM | Sohil | 11/20/2025 3:57:45 | Peak Integrated by Software |
| AR1248CCC50 0 | PO115222.D | AR-1248-1 #2 | rahul | 11/20/2025 10:32:02 AM | Sohil | 11/20/2025 3:57:56 | Peak Integrated by Software |
| AR1248CCC50 0 | PO115222.D | Decachlorobiphenyl | rahul | 11/20/2025 10:32:02 AM | Sohil | 11/20/2025 3:57:56 | Peak Integrated by Software |
| I.BLK | PO115224.D | Decachlorobiphenyl | rahul | 11/20/2025 10:31:59 AM | Sohil | 11/20/2025 3:57:59 | Peak Integrated by Software |
| AR1248CCC50 0 | PO115230.D | AR-1248-1 #2 | rahul | 11/20/2025 10:31:46 AM | Sohil | 11/20/2025 3:58:27 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PO111925 | Instrument | ECD_o |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| I.BLK | PO115232.D | Decachlorobiphenyl | rahul | 11/20/2025 10:31:39 AM | Sohil | 11/20/2025 3:58:31 | Peak Integrated by Software |
| AR1660CCC50 0 | PO115242.D | AR-1016-1 #2 | rahul | 11/20/2025 10:30:09 AM | Sohil | 11/20/2025 3:59:26 | Peak Integrated by Software |
| AR1660CCC50 0 | PO115242.D | AR-1016-2 #2 | rahul | 11/20/2025 10:30:09 AM | Sohil | 11/20/2025 3:59:26 | Peak Integrated by Software |
| I.BLK | PO115243.D | Decachlorobiphenyl | rahul | 11/20/2025 10:30:04 AM | Sohil | 11/20/2025 3:59:28 | Peak Integrated by Software |
| AR1660CCC50 0 | PO115252.D | AR-1016-1 #2 | Rahul | 11/20/2025 2:39:37 PM | Sohil | 11/20/2025 3:57:07 | Peak Integrated by Software |
| AR1660CCC50 0 | PO115252.D | AR-1016-2 #2 | Rahul | 11/20/2025 2:39:37 PM | Sohil | 11/20/2025 3:57:07 | Peak Integrated by Software |
| I.BLK | PO115253.D | Decachlorobiphenyl | Rahul | 11/20/2025 2:39:40 PM | Sohil | 11/20/2025 3:56:38 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PQ111825 | Instrument | ECD_q |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1660ICC050 | PQ071277.D | AR-1016-1 #2 | rahul | 11/19/2025 2:49:24 PM | Sohil | 11/19/2025 3:38:24 | Peak Integrated by Software |
| AR1660ICC050 | PQ071277.D | AR-1016-2 #2 | rahul | 11/19/2025 2:49:24 PM | Sohil | 11/19/2025 3:38:24 | Peak Integrated by Software |
| AR1660ICC050 | PQ071277.D | AR-1016-3 #2 | rahul | 11/19/2025 2:49:24 PM | Sohil | 11/19/2025 3:38:24 | Peak Integrated by Software |
| AR1660ICC050 | PQ071277.D | AR-1016-4 #2 | rahul | 11/19/2025 2:49:24 PM | Sohil | 11/19/2025 3:38:24 | Peak Integrated by Software |
| AR1660ICC050 | PQ071277.D | AR-1016-5 #2 | rahul | 11/19/2025 2:49:24 PM | Sohil | 11/19/2025 3:38:24 | Peak Integrated by Software |
| AR1660ICC050 | PQ071277.D | AR-1260-1 #2 | rahul | 11/19/2025 2:49:24 PM | Sohil | 11/19/2025 3:38:24 | Peak Integrated by Software |
| AR1660ICC050 | PQ071277.D | AR-1260-2 | rahul | 11/19/2025 2:49:24 PM | Sohil | 11/19/2025 3:38:24 | Peak Integrated by Software |
| AR1660ICC050 | PQ071277.D | AR-1260-2 #2 | rahul | 11/19/2025 2:49:24 PM | Sohil | 11/19/2025 3:38:24 | Peak Integrated by Software |
| AR1660ICC050 | PQ071277.D | AR-1260-3 #2 | rahul | 11/19/2025 2:49:24 PM | Sohil | 11/19/2025 3:38:24 | Peak Integrated by Software |
| AR1660ICC050 | PQ071277.D | AR-1260-4 #2 | rahul | 11/19/2025 2:49:24 PM | Sohil | 11/19/2025 3:38:24 | Peak Integrated by Software |
| AR1660ICC050 | PQ071277.D | AR-1260-5 #2 | rahul | 11/19/2025 2:49:24 PM | Sohil | 11/19/2025 3:38:24 | Peak Integrated by Software |
| AR1660ICC050 | PQ071277.D | Decachlorobiphenyl #2 | rahul | 11/19/2025 2:49:24 PM | Sohil | 11/19/2025 3:38:24 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PQ111825 | Instrument | ECD_q |
|---|---|---|---|

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

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# Manual Integration Report

| Sequence: | pq111925 | Instrument | ECD_q |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q3669-01MS | PQ071340.D | AR-1016-1 | Rahul | 11/20/2025 10:58:15 AM | Sohil | 11/20/2025 3:53:23 | Peak Integrated by Software |
| Q3669-01MS | PQ071340.D | AR-1016-1 #2 | Rahul | 11/20/2025 10:58:15 AM | Sohil | 11/20/2025 3:53:23 | Peak Integrated by Software |
| Q3669-01MS | PQ071340.D | AR-1016-2 | Rahul | 11/20/2025 10:58:15 AM | Sohil | 11/20/2025 3:53:23 | Peak Integrated by Software |
| Q3669-01MS | PQ071340.D | AR-1016-2 #2 | Rahul | 11/20/2025 10:58:15 AM | Sohil | 11/20/2025 3:53:23 | Peak Integrated by Software |
| Q3669-01MS | PQ071340.D | AR-1016-3 | Rahul | 11/20/2025 10:58:15 AM | Sohil | 11/20/2025 3:53:23 | Peak Integrated by Software |
| Q3669-01MS | PQ071340.D | AR-1016-3 #2 | Rahul | 11/20/2025 10:58:15 AM | Sohil | 11/20/2025 3:53:23 | Peak Integrated by Software |
| Q3669-01MS | PQ071340.D | AR-1016-4 | Rahul | 11/20/2025 10:58:15 AM | Sohil | 11/20/2025 3:53:23 | Peak Integrated by Software |
| Q3669-01MS | PQ071340.D | AR-1016-4 #2 | Rahul | 11/20/2025 10:58:15 AM | Sohil | 11/20/2025 3:53:23 | Peak Integrated by Software |
| Q3669-01MS | PQ071340.D | AR-1016-5 | Rahul | 11/20/2025 10:58:15 AM | Sohil | 11/20/2025 3:53:23 | Peak Integrated by Software |
| Q3669-01MS | PQ071340.D | AR-1016-5 #2 | Rahul | 11/20/2025 10:58:15 AM | Sohil | 11/20/2025 3:53:23 | Peak Integrated by Software |
| Q3669-01MS | PQ071340.D | Tetrachloro-m-xylene | Rahul | 11/20/2025 10:58:15 AM | Sohil | 11/20/2025 3:53:23 | Peak Integrated by Software |
| Q3669-01MS | PQ071340.D | Tetrachloro-m-xylene #2 | Rahul | 11/20/2025 10:58:15 AM | Sohil | 11/20/2025 3:53:23 | Peak Integrated by Software |
| Q3669-01MSD | PQ071341.D | AR-1016-1 | Rahul | 11/20/2025 10:58:18 AM | Sohil | 11/20/2025 3:53:25 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | pq111925 | Instrument | ECD_q |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q3669-01MSD | PQ071341.D | AR-1016-1 #2 | Rahul | 11/20/2025 10:58:18 AM | Sohil | 11/20/2025 3:53:25 | Peak Integrated by Software |
| Q3669-01MSD | PQ071341.D | AR-1016-2 | Rahul | 11/20/2025 10:58:18 AM | Sohil | 11/20/2025 3:53:25 | Peak Integrated by Software |
| Q3669-01MSD | PQ071341.D | AR-1016-2 #2 | Rahul | 11/20/2025 10:58:18 AM | Sohil | 11/20/2025 3:53:25 | Peak Integrated by Software |
| Q3669-01MSD | PQ071341.D | AR-1016-3 | Rahul | 11/20/2025 10:58:18 AM | Sohil | 11/20/2025 3:53:25 | Peak Integrated by Software |
| Q3669-01MSD | PQ071341.D | AR-1016-3 #2 | Rahul | 11/20/2025 10:58:18 AM | Sohil | 11/20/2025 3:53:25 | Peak Integrated by Software |
| Q3669-01MSD | PQ071341.D | AR-1016-4 | Rahul | 11/20/2025 10:58:18 AM | Sohil | 11/20/2025 3:53:25 | Peak Integrated by Software |
| Q3669-01MSD | PQ071341.D | AR-1016-4 #2 | Rahul | 11/20/2025 10:58:18 AM | Sohil | 11/20/2025 3:53:25 | Peak Integrated by Software |
| Q3669-01MSD | PQ071341.D | AR-1016-5 | Rahul | 11/20/2025 10:58:18 AM | Sohil | 11/20/2025 3:53:25 | Peak Integrated by Software |
| Q3669-01MSD | PQ071341.D | AR-1016-5 #2 | Rahul | 11/20/2025 10:58:18 AM | Sohil | 11/20/2025 3:53:25 | Peak Integrated by Software |
| Q3669-01MSD | PQ071341.D | AR-1260-1 #2 | Rahul | 11/20/2025 10:58:18 AM | Sohil | 11/20/2025 3:53:25 | Peak Integrated by Software |
| Q3669-01MSD | PQ071341.D | AR-1260-2 #2 | Rahul | 11/20/2025 10:58:18 AM | Sohil | 11/20/2025 3:53:25 | Peak Integrated by Software |
| Q3669-01MSD | PQ071341.D | AR-1260-3 #2 | Rahul | 11/20/2025 10:58:18 AM | Sohil | 11/20/2025 3:53:25 | Peak Integrated by Software |
| Q3669-01MSD | PQ071341.D | Tetrachloro-m-xylene | Rahul | 11/20/2025 10:58:18 AM | Sohil | 11/20/2025 3:53:25 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | pq111925 | Instrument | ECD_q |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q3669-01MSD | PQ071341.D | Tetrachloro-m-xylene #2 | Rahul | 11/20/2025 10:58:18 AM | Sohil | 11/20/2025 3:53:25 | Peak Integrated by Software |
| AR1660CCC50 0 | PQ071344.D | AR-1016-3 #2 | Rahul | 11/20/2025 10:58:25 AM | Sohil | 11/20/2025 3:53:35 | Peak Integrated by Software |
| AR1660CCC50 0 | PQ071344.D | AR-1016-4 #2 | Rahul | 11/20/2025 10:58:25 AM | Sohil | 11/20/2025 3:53:35 | Peak Integrated by Software |
| AR1660CCC50 0 | PQ071344.D | AR-1016-5 #2 | Rahul | 11/20/2025 10:58:25 AM | Sohil | 11/20/2025 3:53:35 | Peak Integrated by Software |
| AR1660CCC50 0 | PQ071344.D | AR-1260-1 #2 | Rahul | 11/20/2025 10:58:25 AM | Sohil | 11/20/2025 3:53:35 | Peak Integrated by Software |
| AR1660CCC50 0 | PQ071344.D | AR-1260-2 #2 | Rahul | 11/20/2025 10:58:25 AM | Sohil | 11/20/2025 3:53:35 | Peak Integrated by Software |
| AR1660CCC50 0 | PQ071344.D | AR-1260-3 #2 | Rahul | 11/20/2025 10:58:25 AM | Sohil | 11/20/2025 3:53:35 | Peak Integrated by Software |
| AR1660CCC50 0 | PQ071352.D | AR-1016-1 #2 | Rahul | 11/20/2025 10:58:37 AM | Sohil | 11/20/2025 3:53:46 | Peak Integrated by Software |
| AR1660CCC50 0 | PQ071352.D | AR-1016-2 #2 | Rahul | 11/20/2025 10:58:37 AM | Sohil | 11/20/2025 3:53:46 | Peak Integrated by Software |
| AR1660CCC50 0 | PQ071352.D | AR-1016-3 #2 | Rahul | 11/20/2025 10:58:37 AM | Sohil | 11/20/2025 3:53:46 | Peak Integrated by Software |
| AR1660CCC50 0 | PQ071352.D | AR-1016-4 #2 | Rahul | 11/20/2025 10:58:37 AM | Sohil | 11/20/2025 3:53:46 | Peak Integrated by Software |
| AR1660CCC50 0 | PQ071352.D | AR-1016-5 #2 | Rahul | 11/20/2025 10:58:37 AM | Sohil | 11/20/2025 3:53:46 | Peak Integrated by Software |
| AR1660CCC50 0 | PQ071352.D | AR-1260-1 #2 | Rahul | 11/20/2025 10:58:37 AM | Sohil | 11/20/2025 3:53:46 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | pq111925 | Instrument | ECD_q |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1660CCC500 | PQ071352.D | AR-1260-2 #2 | Rahul | 11/20/2025 10:58:37 AM | Sohil | 11/20/2025 3:53:46 | Peak Integrated by Software |
| AR1660CCC500 | PQ071352.D | AR-1260-3 #2 | Rahul | 11/20/2025 10:58:37 AM | Sohil | 11/20/2025 3:53:46 | Peak Integrated by Software |
| AR1660CCC500 | PQ071352.D | AR-1260-4 #2 | Rahul | 11/20/2025 10:58:37 AM | Sohil | 11/20/2025 3:53:46 | Peak Integrated by Software |
| AR1660CCC500 | PQ071361.D | AR-1016-1 #2 | Rahul | 11/20/2025 10:58:51 AM | Sohil | 11/20/2025 3:53:59 | Peak Integrated by Software |
| AR1660CCC500 | PQ071361.D | AR-1016-2 #2 | Rahul | 11/20/2025 10:58:51 AM | Sohil | 11/20/2025 3:53:59 | Peak Integrated by Software |
| AR1660CCC500 | PQ071361.D | AR-1016-3 #2 | Rahul | 11/20/2025 10:58:51 AM | Sohil | 11/20/2025 3:53:59 | Peak Integrated by Software |
| AR1660CCC500 | PQ071361.D | AR-1016-4 #2 | Rahul | 11/20/2025 10:58:51 AM | Sohil | 11/20/2025 3:53:59 | Peak Integrated by Software |
| AR1660CCC500 | PQ071361.D | AR-1016-5 #2 | Rahul | 11/20/2025 10:58:51 AM | Sohil | 11/20/2025 3:53:59 | Peak Integrated by Software |
| AR1660CCC500 | PQ071361.D | AR-1260-1 #2 | Rahul | 11/20/2025 10:58:51 AM | Sohil | 11/20/2025 3:53:59 | Peak Integrated by Software |
| AR1660CCC500 | PQ071361.D | AR-1260-2 #2 | Rahul | 11/20/2025 10:58:51 AM | Sohil | 11/20/2025 3:53:59 | Peak Integrated by Software |
| AR1660CCC500 | PQ071361.D | AR-1260-3 #2 | Rahul | 11/20/2025 10:58:51 AM | Sohil | 11/20/2025 3:53:59 | Peak Integrated by Software |
| AR1660CCC500 | PQ071361.D | AR-1260-4 #2 | Rahul | 11/20/2025 10:58:51 AM | Sohil | 11/20/2025 3:53:59 | Peak Integrated by Software |
| AR1660CCC500 | PQ071361.D | AR-1260-5 #2 | Rahul | 11/20/2025 10:58:51 AM | Sohil | 11/20/2025 3:53:59 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | pq111925 | Instrument | ECD_q |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1660CCC500 | PQ071361.D | Tetrachloro-m-xylene #2 | Rahul | 11/20/2025 10:58:51 AM | Sohil | 11/20/2025 3:53:59 | Peak Integrated by Software |

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Fax : 908 789 8922

**Instrument ID: ECD_O**

## Daily Analysis Runlog For Sequence/QCBatch ID # PO110425

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/4/2025 12:15:43 PM | | |
| Supervise By | rahul | Supervise On | 11/5/2025 8:40:26 AM | | |
| SubDirectory | PO110425 | HP Acquire Method | | HP Processing Method | PO110425 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PO114869.D | 04 Nov 2025 09:03 | YP/AJ | Ok |
| 2 | I.BLK | PO114870.D | 04 Nov 2025 09:21 | YP/AJ | Ok |
| 3 | AR1660ICC1000 | PO114871.D | 04 Nov 2025 09:39 | YP/AJ | Ok |
| 4 | AR1660ICC750 | PO114872.D | 04 Nov 2025 09:58 | YP/AJ | Ok |
| 5 | AR1660ICC500 | PO114873.D | 04 Nov 2025 10:16 | YP/AJ | Ok |
| 6 | AR1660ICC250 | PO114874.D | 04 Nov 2025 10:34 | YP/AJ | Ok,M |
| 7 | AR1660ICC050 | PO114875.D | 04 Nov 2025 10:53 | YP/AJ | Ok,M |
| 8 | AR1221ICC500 | PO114876.D | 04 Nov 2025 11:11 | YP/AJ | Ok |
| 9 | AR1232ICC500 | PO114877.D | 04 Nov 2025 11:30 | YP/AJ | Ok |
| 10 | AR1242ICC1000 | PO114878.D | 04 Nov 2025 11:48 | YP/AJ | Ok |
| 11 | AR1242ICC750 | PO114879.D | 04 Nov 2025 12:06 | YP/AJ | Ok |
| 12 | AR1242ICC500 | PO114880.D | 04 Nov 2025 12:25 | YP/AJ | Ok |
| 13 | AR1242ICC250 | PO114881.D | 04 Nov 2025 12:42 | YP/AJ | Ok |
| 14 | AR1242ICC050 | PO114882.D | 04 Nov 2025 13:00 | YP/AJ | Ok,M |
| 15 | AR1248ICC1000 | PO114883.D | 04 Nov 2025 13:19 | YP/AJ | Ok |
| 16 | AR1248ICC750 | PO114884.D | 04 Nov 2025 13:37 | YP/AJ | Ok |
| 17 | AR1248ICC500 | PO114885.D | 04 Nov 2025 13:56 | YP/AJ | Ok |
| 18 | AR1248ICC250 | PO114886.D | 04 Nov 2025 14:14 | YP/AJ | Ok |
| 19 | AR1248ICC050 | PO114887.D | 04 Nov 2025 14:33 | YP/AJ | Ok |
| 20 | AR1254ICC1000 | PO114888.D | 04 Nov 2025 14:51 | YP/AJ | Ok |
| 21 | AR1254ICC750 | PO114889.D | 04 Nov 2025 15:09 | YP/AJ | Ok |

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**Instrument ID: ECD_O**

## Daily Analysis Runlog For Sequence/QCBatch ID # PO110425

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/4/2025 12:15:43 PM | | |
| Supervise By | rahul | Supervise On | 11/5/2025 8:40:26 AM | | |
| SubDirectory | PO110425 | HP Acquire Method | | HP Processing Method | PO110425 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | AR1254ICC500 | PO114890.D | 04 Nov 2025 15:28 | YP/AJ | Ok |
| 23 | AR1254ICC250 | PO114891.D | 04 Nov 2025 16:04 | YP/AJ | Ok |
| 24 | AR1254ICC050 | PO114892.D | 04 Nov 2025 16:23 | YP/AJ | Ok,M |
| 25 | AR1262ICC500 | PO114893.D | 04 Nov 2025 17:00 | YP/AJ | Ok |
| 26 | AR1268ICC1000 | PO114894.D | 04 Nov 2025 17:18 | YP/AJ | Ok |
| 27 | AR1268ICC750 | PO114895.D | 04 Nov 2025 17:36 | YP/AJ | Ok |
| 28 | AR1268ICC500 | PO114896.D | 04 Nov 2025 17:55 | YP/AJ | Ok |
| 29 | AR1268ICC250 | PO114897.D | 04 Nov 2025 18:13 | YP/AJ | Ok,M |
| 30 | AR1268ICC050 | PO114898.D | 04 Nov 2025 18:31 | YP/AJ | Ok |
| 31 | PO110425ICV500 | PO114899.D | 04 Nov 2025 19:08 | YP/AJ | Ok |
| 32 | AR1242ICV500 | PO114900.D | 04 Nov 2025 20:21 | YP/AJ | Ok,M |
| 33 | AR1248ICV500 | PO114901.D | 04 Nov 2025 20:58 | YP/AJ | Ok |
| 34 | AR1254ICV500 | PO114902.D | 04 Nov 2025 21:35 | YP/AJ | Ok |
| 35 | AR1268ICV500 | PO114903.D | 04 Nov 2025 22:12 | YP/AJ | Ok |
| 36 | DDT ANALOG | PO114904.D | 04 Nov 2025 22:48 | YP/AJ | Ok |

M : Manual Integration

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**Instrument ID: ECD_O**

## Daily Analysis Runlog For Sequence/QCBatch ID # PO111925

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 3:01:54 PM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 3:59:53 PM | | |
| SubDirectory | PO111925 | HP Acquire Method | | HP Processing Method | PO110425 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829 ,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PO115204.D | 19 Nov 2025 09:20 | YP/AJ | Ok |
| 2 | AR1660CCC500 | PO115205.D | 19 Nov 2025 09:38 | YP/AJ | Ok,M |
| 3 | AR1242CCC500 | PO115206.D | 19 Nov 2025 10:05 | YP/AJ | Ok |
| 4 | AR1248CCC500 | PO115207.D | 19 Nov 2025 10:23 | YP/AJ | Ok |
| 5 | AR1254CCC500 | PO115208.D | 19 Nov 2025 10:41 | YP/AJ | Ok |
| 6 | I.BLK | PO115209.D | 19 Nov 2025 11:00 | YP/AJ | Ok,M |
| 7 | PB170580BL | PO115210.D | 19 Nov 2025 12:04 | YP/AJ | Ok,M |
| 8 | PB170580BS | PO115211.D | 19 Nov 2025 12:22 | YP/AJ | Ok,M |
| 9 | Q3637-01 | PO115212.D | 19 Nov 2025 12:40 | YP/AJ | Ok,M |
| 10 | Q3665-01 | PO115213.D | 19 Nov 2025 12:59 | YP/AJ | Ok,M |
| 11 | Q3662-02 | PO115214.D | 19 Nov 2025 13:17 | YP/AJ | Ok,M |
| 12 | Q3662-04 | PO115215.D | 19 Nov 2025 13:35 | YP/AJ | Ok,M |
| 13 | Q3664-01 | PO115216.D | 19 Nov 2025 13:54 | YP/AJ | Ok,M |
| 14 | Q3664-03 | PO115217.D | 19 Nov 2025 14:12 | YP/AJ | Ok,M |
| 15 | Q3664-05 | PO115218.D | 19 Nov 2025 14:30 | YP/AJ | Ok,M |
| 16 | Q3666-01 | PO115219.D | 19 Nov 2025 14:49 | YP/AJ | Ok,M |
| 17 | AR1660CCC500 | PO115220.D | 19 Nov 2025 15:26 | YP/AJ | Ok,M |
| 18 | AR1242CCC500 | PO115221.D | 19 Nov 2025 15:44 | YP/AJ | Ok,M |
| 19 | AR1248CCC500 | PO115222.D | 19 Nov 2025 16:02 | YP/AJ | Ok,M |
| 20 | AR1254CCC500 | PO115223.D | 19 Nov 2025 16:21 | YP/AJ | Ok |
| 21 | I.BLK | PO115224.D | 19 Nov 2025 16:39 | YP/AJ | Ok,M |

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**Instrument ID: ECD_O**

## Daily Analysis Runlog For Sequence/QCBatch ID # PO111925

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 3:01:54 PM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 3:59:53 PM | | |
| SubDirectory | PO111925 | HP Acquire Method | | HP Processing Method | PO110425 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829 ,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q3667-01 | PO115225.D | 19 Nov 2025 16:57 | YP/AJ | Ok,M |
| 23 | Q3667-03 | PO115226.D | 19 Nov 2025 17:16 | YP/AJ | Ok,M |
| 24 | Q3667-05 | PO115227.D | 19 Nov 2025 17:34 | YP/AJ | Not Ok |
| 25 | Q3667-07 | PO115228.D | 19 Nov 2025 17:53 | YP/AJ | Ok,M |
| 26 | AR1660CCC500 | PO115229.D | 20 Nov 2025 00:53 | YP/AJ | Ok |
| 27 | AR1248CCC500 | PO115230.D | 20 Nov 2025 01:48 | YP/AJ | Ok,M |
| 28 | AR1254CCC500 | PO115231.D | 20 Nov 2025 02:06 | YP/AJ | Ok |
| 29 | I.BLK | PO115232.D | 20 Nov 2025 02:24 | YP/AJ | Ok,M |
| 30 | Q3530-02 | PO115233.D | 20 Nov 2025 02:43 | YP/AJ | Ok,M |
| 31 | Q3530-02 | PO115234.D | 20 Nov 2025 03:01 | YP/AJ | Not Ok |
| 32 | Q3530-02 | PO115235.D | 20 Nov 2025 03:20 | YP/AJ | Not Ok |
| 33 | Q3530-02 | PO115236.D | 20 Nov 2025 03:38 | YP/AJ | Not Ok |
| 34 | Q3530-02 | PO115237.D | 20 Nov 2025 03:56 | YP/AJ | Not Ok |
| 35 | Q3530-02 | PO115238.D | 20 Nov 2025 04:15 | YP/AJ | Not Ok |
| 36 | Q3530-02 | PO115239.D | 20 Nov 2025 04:33 | YP/AJ | Not Ok |
| 37 | Q3530-02 | PO115240.D | 20 Nov 2025 04:51 | YP/AJ | Not Ok |
| 38 | PB170532BL | PO115241.D | 20 Nov 2025 05:10 | YP/AJ | Ok,M |
| 39 | AR1660CCC500 | PO115242.D | 20 Nov 2025 06:05 | YP/AJ | Ok,M |
| 40 | I.BLK | PO115243.D | 20 Nov 2025 06:41 | YP/AJ | Ok,M |
| 41 | Q3530-08 | PO115244.D | 20 Nov 2025 07:00 | YP/AJ | Ok,M |
| 42 | Q3530-08 | PO115245.D | 20 Nov 2025 07:18 | YP/AJ | Not Ok |
| 43 | Q3530-08 | PO115246.D | 20 Nov 2025 07:36 | YP/AJ | Not Ok |
| 44 | Q3530-08 | PO115247.D | 20 Nov 2025 07:55 | YP/AJ | Ok,M |

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**Instrument ID: ECD_O**

## Daily Analysis Runlog For Sequence/QCBatch ID # PO111925

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 3:01:54 PM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 3:59:53 PM | | |
| SubDirectory | PO111925 | HP Acquire Method | | HP Processing Method | PO110425 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829 ,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP2484 4,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 45 | Q3530-08 | PO115248.D | 20 Nov 2025 08:13 | YP/AJ | Not Ok |
| 46 | Q3530-08 | PO115249.D | 20 Nov 2025 08:31 | YP/AJ | Not Ok |
| 47 | Q3530-08 | PO115250.D | 20 Nov 2025 08:50 | YP/AJ | Not Ok |
| 48 | Q3530-08 | PO115251.D | 20 Nov 2025 09:08 | YP/AJ | Not Ok |
| 49 | AR1660CCC500 | PO115252.D | 20 Nov 2025 09:26 | YP/AJ | Ok,M |
| 50 | I.BLK | PO115253.D | 20 Nov 2025 09:45 | YP/AJ | Ok,M |

M : Manual Integration

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**Instrument ID: ECD_Q**

## Daily Analysis Runlog For Sequence/QCBatch ID # PQ111825

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 8:33:53 AM | | |
| Supervise By | Sohil | Supervise On | 11/19/2025 3:39:22 PM | | |
| SubDirectory | PQ111825 | HP Acquire Method | | HP Processing Method | PQ111825 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829 ,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PQ071271.D | 18 Nov 2025 11:44 | YP\AJ | Ok |
| 2 | I.BLK | PQ071272.D | 18 Nov 2025 11:59 | YP\AJ | Ok |
| 3 | AR1660ICC1000 | PQ071273.D | 18 Nov 2025 12:13 | YP\AJ | Ok |
| 4 | AR1660ICC750 | PQ071274.D | 18 Nov 2025 12:28 | YP\AJ | Ok |
| 5 | AR1660ICC500 | PQ071275.D | 18 Nov 2025 12:43 | YP\AJ | Ok |
| 6 | AR1660ICC250 | PQ071276.D | 18 Nov 2025 12:57 | YP\AJ | Ok |
| 7 | AR1660ICC050 | PQ071277.D | 18 Nov 2025 15:42 | YP\AJ | Ok,M |
| 8 | AR1221ICC500 | PQ071278.D | 18 Nov 2025 16:25 | YP\AJ | Ok |
| 9 | AR1232ICC500 | PQ071279.D | 18 Nov 2025 16:39 | YP\AJ | Ok |
| 10 | AR1242ICC500 | PQ071280.D | 18 Nov 2025 16:54 | YP\AJ | Ok |
| 11 | AR1248ICC500 | PQ071281.D | 18 Nov 2025 17:08 | YP\AJ | Ok |
| 12 | AR1254ICC500 | PQ071282.D | 18 Nov 2025 17:23 | YP\AJ | Ok |
| 13 | AR1262ICC500 | PQ071283.D | 18 Nov 2025 17:37 | YP\AJ | Ok |
| 14 | AR1268ICC500 | PQ071284.D | 18 Nov 2025 17:52 | YP\AJ | Ok |
| 15 | PQ111825ICV500 | PQ071285.D | 18 Nov 2025 18:07 | YP\AJ | Ok |
| 16 | AR1660CCC500 | PQ071286.D | 18 Nov 2025 18:36 | YP\AJ | Ok |
| 17 | I.BLK | PQ071287.D | 18 Nov 2025 19:05 | YP\AJ | Ok |
| 18 | PB170532BL | PQ071288.D | 18 Nov 2025 19:20 | YP\AJ | Not Ok |
| 19 | Q3530-03 | PQ071289.D | 18 Nov 2025 19:34 | YP\AJ | Ok |
| 20 | Q3530-03 | PQ071290.D | 18 Nov 2025 19:49 | YP\AJ | Not Ok |
| 21 | Q3530-03 | PQ071291.D | 18 Nov 2025 20:03 | YP\AJ | Not Ok |

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Fax : 908 789 8922

**Instrument ID: ECD_Q**

## Daily Analysis Runlog For Sequence/QCBatch ID # PQ111825

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 8:33:53 AM | | |
| Supervise By | Sohil | Supervise On | 11/19/2025 3:39:22 PM | | |
| SubDirectory | PQ111825 | HP Acquire Method | | HP Processing Method | PQ111825 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829 ,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q3530-03 | PQ071292.D | 18 Nov 2025 20:18 | YP\AJ | Not Ok |
| 23 | Q3530-03 | PQ071293.D | 18 Nov 2025 20:33 | YP\AJ | Not Ok |
| 24 | Q3530-03 | PQ071294.D | 18 Nov 2025 20:47 | YP\AJ | Not Ok |
| 25 | Q3530-03 | PQ071295.D | 18 Nov 2025 21:02 | YP\AJ | Not Ok |
| 26 | Q3530-03 | PQ071296.D | 18 Nov 2025 21:16 | YP\AJ | Ok |
| 27 | AR1660CCC500 | PQ071297.D | 18 Nov 2025 22:14 | YP\AJ | Ok |
| 28 | I.BLK | PQ071298.D | 19 Nov 2025 00:49 | YP\AJ | Ok |
| 29 | PB170530BL | PQ071299.D | 19 Nov 2025 01:03 | YP\AJ | Ok |
| 30 | Q3530-09 | PQ071300.D | 19 Nov 2025 01:18 | YP\AJ | Ok |
| 31 | Q3530-09 | PQ071301.D | 19 Nov 2025 01:32 | YP\AJ | Not Ok |
| 32 | Q3530-09 | PQ071302.D | 19 Nov 2025 01:47 | YP\AJ | Not Ok |
| 33 | Q3530-09 | PQ071303.D | 19 Nov 2025 02:01 | YP\AJ | Not Ok |
| 34 | Q3530-09 | PQ071304.D | 19 Nov 2025 02:16 | YP\AJ | Not Ok |
| 35 | Q3530-09 | PQ071305.D | 19 Nov 2025 02:31 | YP\AJ | Not Ok |
| 36 | Q3530-09 | PQ071306.D | 19 Nov 2025 02:45 | YP\AJ | Ok,M |
| 37 | Q3530-09 | PQ071307.D | 19 Nov 2025 03:00 | YP\AJ | Ok |
| 38 | AR1660CCC500 | PQ071308.D | 19 Nov 2025 03:58 | YP\AJ | Ok |
| 39 | I.BLK | PQ071309.D | 19 Nov 2025 04:30 | YP\AJ | Ok |
| 40 | Q3530-02 | PQ071310.D | 19 Nov 2025 04:44 | YP\AJ | Not Ok |
| 41 | Q3530-02 | PQ071311.D | 19 Nov 2025 04:59 | YP\AJ | Ok,M |
| 42 | Q3530-02 | PQ071312.D | 19 Nov 2025 05:14 | YP\AJ | Ok,M |
| 43 | Q3530-02 | PQ071313.D | 19 Nov 2025 05:28 | YP\AJ | Ok,M |
| 44 | Q3530-02 | PQ071314.D | 19 Nov 2025 05:43 | YP\AJ | Ok |

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**Instrument ID: ECD_Q**

## Daily Analysis Runlog For Sequence/QCBatch ID # PQ111825

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 8:33:53 AM | | |
| Supervise By | Sohil | Supervise On | 11/19/2025 3:39:22 PM | | |
| SubDirectory | PQ111825 | HP Acquire Method | | HP Processing Method | PQ111825 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829 ,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 45 | Q3530-02 | PQ071315.D | 19 Nov 2025 05:57 | YP\AJ | Ok,M |
| 46 | Q3530-02 | PQ071316.D | 19 Nov 2025 06:12 | YP\AJ | Ok |
| 47 | Q3530-02 | PQ071317.D | 19 Nov 2025 06:27 | YP\AJ | Ok,M |
| 48 | AR1660CCC500 | PQ071318.D | 19 Nov 2025 07:25 | YP\AJ | Ok |
| 49 | I.BLK | PQ071319.D | 19 Nov 2025 08:09 | YP\AJ | Ok |
| 50 | Q3530-08 | PQ071320.D | 19 Nov 2025 08:23 | YP\AJ | Not Ok |
| 51 | Q3530-08 | PQ071321.D | 19 Nov 2025 08:38 | YP\AJ | Ok,M |
| 52 | Q3530-08 | PQ071322.D | 19 Nov 2025 08:52 | YP\AJ | Ok,M |
| 53 | Q3530-08 | PQ071323.D | 19 Nov 2025 09:07 | YP\AJ | Ok,M |
| 54 | Q3530-08 | PQ071324.D | 19 Nov 2025 09:21 | YP\AJ | Ok,M |
| 55 | Q3530-08 | PQ071325.D | 19 Nov 2025 09:36 | YP\AJ | Not Ok |
| 56 | Q3530-08 | PQ071326.D | 19 Nov 2025 09:51 | YP\AJ | Ok,M |
| 57 | Q3530-08 | PQ071327.D | 19 Nov 2025 10:05 | YP\AJ | Not Ok |
| 58 | AR1660CCC500 | PQ071328.D | 19 Nov 2025 11:03 | YP\AJ | Ok |
| 59 | I.BLK | PQ071329.D | 19 Nov 2025 11:19 | YP\AJ | Ok |
| 60 | DDT ANALOG | PQ071330.D | 19 Nov 2025 11:33 | YP\AJ | Ok |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID: ECD_Q**

## Daily Analysis Runlog For Sequence/QCBatch ID # PQ111925

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 2:55:18 PM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 3:54:26 PM | | |
| SubDirectory | PQ111925 | HP Acquire Method | | HP Processing Method | PQ111825 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829 ,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PQ071331.D | 19 Nov 2025 12:49 | YP\AJ | Ok |
| 2 | AR1660CCC500 | PQ071332.D | 19 Nov 2025 13:04 | YP\AJ | Ok |
| 3 | I.BLK | PQ071333.D | 19 Nov 2025 13:18 | YP\AJ | Ok |
| 4 | PB170627BL | PQ071334.D | 19 Nov 2025 13:34 | YP\AJ | Ok |
| 5 | PB170627BS | PQ071335.D | 19 Nov 2025 13:48 | YP\AJ | Ok |
| 6 | PB170633BL | PQ071336.D | 19 Nov 2025 14:03 | YP\AJ | Ok |
| 7 | PB170633BS | PQ071337.D | 19 Nov 2025 14:18 | YP\AJ | Ok |
| 8 | Q3668-01 | PQ071338.D | 19 Nov 2025 14:32 | YP\AJ | Ok |
| 9 | Q3669-01 | PQ071339.D | 19 Nov 2025 14:47 | YP\AJ | Ok,M |
| 10 | Q3669-01MS | PQ071340.D | 19 Nov 2025 15:01 | YP\AJ | Ok,M |
| 11 | Q3669-01MSD | PQ071341.D | 19 Nov 2025 15:16 | YP\AJ | Ok,M |
| 12 | Q3654-01 | PQ071342.D | 19 Nov 2025 15:30 | YP\AJ | Ok,M |
| 13 | Q3654-02 | PQ071343.D | 19 Nov 2025 15:45 | YP\AJ | Ok,M |
| 14 | AR1660CCC500 | PQ071344.D | 19 Nov 2025 17:27 | YP\AJ | Ok,M |
| 15 | I.BLK | PQ071345.D | 19 Nov 2025 17:42 | YP\AJ | Ok |
| 16 | PB170532BL | PQ071346.D | 19 Nov 2025 17:56 | YP\AJ | Not Ok |
| 17 | Q3530-03 | PQ071347.D | 19 Nov 2025 18:11 | YP\AJ | Ok,M |
| 18 | Q3530-03 | PQ071348.D | 19 Nov 2025 18:25 | YP\AJ | Ok,M |
| 19 | Q3530-03 | PQ071349.D | 19 Nov 2025 18:40 | YP\AJ | Ok,M |
| 20 | Q3530-03 | PQ071350.D | 19 Nov 2025 18:54 | YP\AJ | Not Ok |
| 21 | Q3530-03 | PQ071351.D | 19 Nov 2025 19:09 | YP\AJ | Ok,M |

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**Instrument ID: ECD_Q**

## Daily Analysis Runlog For Sequence/QCBatch ID # PQ111925

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 2:55:18 PM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 3:54:26 PM | | |
| SubDirectory | PQ111925 | HP Acquire Method | | HP Processing Method | PQ111825 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829 ,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | AR1660CCC500 | PQ071352.D | 19 Nov 2025 19:53 | YP\AJ | Ok,M |
| 23 | I.BLK | PQ071353.D | 19 Nov 2025 20:22 | YP\AJ | Ok |
| 24 | Q3530-03 | PQ071354.D | 19 Nov 2025 20:36 | YP\AJ | Ok,M |
| 25 | Q3530-03 | PQ071355.D | 19 Nov 2025 20:51 | YP\AJ | Ok,M |
| 26 | Q3530-03 | PQ071356.D | 19 Nov 2025 21:06 | YP\AJ | Ok,M |
| 27 | Q3530-03 | PQ071357.D | 19 Nov 2025 21:20 | YP\AJ | Not Ok |
| 28 | Q3530-03 | PQ071358.D | 19 Nov 2025 21:35 | YP\AJ | Ok,M |
| 29 | Q3530-02 | PQ071359.D | 19 Nov 2025 21:49 | YP\AJ | Ok |
| 30 | Q3530-08 | PQ071360.D | 19 Nov 2025 22:04 | YP\AJ | Ok |
| 31 | AR1660CCC500 | PQ071361.D | 19 Nov 2025 22:48 | YP\AJ | Ok,M |
| 32 | I.BLK | PQ071362.D | 19 Nov 2025 23:17 | YP\AJ | Ok |

M : Manual Integration

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**Instrument ID:** ECD_O

## Daily Analysis Runlog For Sequence/QCBatch ID # PO110425

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/4/2025 12:15:43 PM | | |
| Supervise By | rahul | Supervise On | 11/5/2025 8:40:26 AM | | |
| SubDirectory | PO110425 | HP Acquire Method | | HP Processing Method | PO110425 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PO114869.D | 04 Nov 2025 09:03 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | PO114870.D | 04 Nov 2025 09:21 | | YP/AJ | Ok |
| 3 | AR1660ICC1000 | AR1660ICC1000 | PO114871.D | 04 Nov 2025 09:39 | | YP/AJ | Ok |
| 4 | AR1660ICC750 | AR1660ICC750 | PO114872.D | 04 Nov 2025 09:58 | | YP/AJ | Ok |
| 5 | AR1660ICC500 | AR1660ICC500 | PO114873.D | 04 Nov 2025 10:16 | | YP/AJ | Ok |
| 6 | AR1660ICC250 | AR1660ICC250 | PO114874.D | 04 Nov 2025 10:34 | | YP/AJ | Ok,M |
| 7 | AR1660ICC050 | AR1660ICC050 | PO114875.D | 04 Nov 2025 10:53 | | YP/AJ | Ok,M |
| 8 | AR1221ICC500 | AR1221ICC500 | PO114876.D | 04 Nov 2025 11:11 | | YP/AJ | Ok |
| 9 | AR1232ICC500 | AR1232ICC500 | PO114877.D | 04 Nov 2025 11:30 | | YP/AJ | Ok |
| 10 | AR1242ICC1000 | AR1242ICC1000 | PO114878.D | 04 Nov 2025 11:48 | | YP/AJ | Ok |
| 11 | AR1242ICC750 | AR1242ICC750 | PO114879.D | 04 Nov 2025 12:06 | | YP/AJ | Ok |
| 12 | AR1242ICC500 | AR1242ICC500 | PO114880.D | 04 Nov 2025 12:25 | | YP/AJ | Ok |
| 13 | AR1242ICC250 | AR1242ICC250 | PO114881.D | 04 Nov 2025 12:42 | | YP/AJ | Ok |
| 14 | AR1242ICC050 | AR1242ICC050 | PO114882.D | 04 Nov 2025 13:00 | | YP/AJ | Ok,M |
| 15 | AR1248ICC1000 | AR1248ICC1000 | PO114883.D | 04 Nov 2025 13:19 | | YP/AJ | Ok |
| 16 | AR1248ICC750 | AR1248ICC750 | PO114884.D | 04 Nov 2025 13:37 | | YP/AJ | Ok |
| 17 | AR1248ICC500 | AR1248ICC500 | PO114885.D | 04 Nov 2025 13:56 | | YP/AJ | Ok |
| 18 | AR1248ICC250 | AR1248ICC250 | PO114886.D | 04 Nov 2025 14:14 | | YP/AJ | Ok |

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**Instrument ID:** ECD_O

## Daily Analysis Runlog For Sequence/QCBatch ID # PO110425

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 11/4/2025 12:15:43 PM | | |
| Supervise By | rahul | Supervise On | 11/5/2025 8:40:26 AM | | |
| SubDirectory | PO110425 | HP Acquire Method | | HP Processing Method | PO110425 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | AR1248ICC050 | AR1248ICC050 | PO114887.D | 04 Nov 2025 14:33 | | YP/AJ | Ok |
| 20 | AR1254ICC1000 | AR1254ICC1000 | PO114888.D | 04 Nov 2025 14:51 | | YP/AJ | Ok |
| 21 | AR1254ICC750 | AR1254ICC750 | PO114889.D | 04 Nov 2025 15:09 | | YP/AJ | Ok |
| 22 | AR1254ICC500 | AR1254ICC500 | PO114890.D | 04 Nov 2025 15:28 | | YP/AJ | Ok |
| 23 | AR1254ICC250 | AR1254ICC250 | PO114891.D | 04 Nov 2025 16:04 | | YP/AJ | Ok |
| 24 | AR1254ICC050 | AR1254ICC050 | PO114892.D | 04 Nov 2025 16:23 | | YP/AJ | Ok,M |
| 25 | AR1262ICC500 | AR1262ICC500 | PO114893.D | 04 Nov 2025 17:00 | | YP/AJ | Ok |
| 26 | AR1268ICC1000 | AR1268ICC1000 | PO114894.D | 04 Nov 2025 17:18 | | YP/AJ | Ok |
| 27 | AR1268ICC750 | AR1268ICC750 | PO114895.D | 04 Nov 2025 17:36 | | YP/AJ | Ok |
| 28 | AR1268ICC500 | AR1268ICC500 | PO114896.D | 04 Nov 2025 17:55 | | YP/AJ | Ok |
| 29 | AR1268ICC250 | AR1268ICC250 | PO114897.D | 04 Nov 2025 18:13 | | YP/AJ | Ok,M |
| 30 | AR1268ICC050 | AR1268ICC050 | PO114898.D | 04 Nov 2025 18:31 | | YP/AJ | Ok |
| 31 | PO110425ICV500 | ICVPO110425 | PO114899.D | 04 Nov 2025 19:08 | | YP/AJ | Ok |
| 32 | AR1242ICV500 | ICVPO110425AR1242 | PO114900.D | 04 Nov 2025 20:21 | | YP/AJ | Ok,M |
| 33 | AR1248ICV500 | ICVPO110425AR1248 | PO114901.D | 04 Nov 2025 20:58 | | YP/AJ | Ok |
| 34 | AR1254ICV500 | ICVPO110425AR1254 | PO114902.D | 04 Nov 2025 21:35 | | YP/AJ | Ok |
| 35 | AR1268ICV500 | ICVPO110425AR1268 | PO114903.D | 04 Nov 2025 22:12 | | YP/AJ | Ok |
| 36 | DDT ANALOG | DDT ANALOG | PO114904.D | 04 Nov 2025 22:48 | | YP/AJ | Ok |

M : Manual Integration

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**Instrument ID:** ECD_O

## Daily Analysis Runlog For Sequence/QCBatch ID # PO111925

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 3:01:54 PM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 3:59:53 PM | | |
| SubDirectory | PO111925 | HP Acquire Method | | HP Processing Method | PO110425 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PO115204.D | 19 Nov 2025 09:20 | | YP/AJ | Ok |
| 2 | AR1660CCC500 | AR1660CCC500 | PO115205.D | 19 Nov 2025 09:38 | | YP/AJ | Ok,M |
| 3 | AR1242CCC500 | AR1242CCC500 | PO115206.D | 19 Nov 2025 10:05 | | YP/AJ | Ok |
| 4 | AR1248CCC500 | AR1248CCC500 | PO115207.D | 19 Nov 2025 10:23 | | YP/AJ | Ok |
| 5 | AR1254CCC500 | AR1254CCC500 | PO115208.D | 19 Nov 2025 10:41 | | YP/AJ | Ok |
| 6 | I.BLK | I.BLK | PO115209.D | 19 Nov 2025 11:00 | | YP/AJ | Ok,M |
| 7 | PB170580BL | PB170580BL | PO115210.D | 19 Nov 2025 12:04 | | YP/AJ | Ok,M |
| 8 | PB170580BS | PB170580BS | PO115211.D | 19 Nov 2025 12:22 | | YP/AJ | Ok,M |
| 9 | Q3637-01 | BUR-25-0100 | PO115212.D | 19 Nov 2025 12:40 | | YP/AJ | Ok,M |
| 10 | Q3665-01 | BUR-25-0101 | PO115213.D | 19 Nov 2025 12:59 | | YP/AJ | Ok,M |
| 11 | Q3662-02 | B3-0.0-1.0-20251117 | PO115214.D | 19 Nov 2025 13:17 | | YP/AJ | Ok,M |
| 12 | Q3662-04 | B1-0.0-1.0-20251117 | PO115215.D | 19 Nov 2025 13:35 | | YP/AJ | Ok,M |
| 13 | Q3664-01 | ARS20-0001 | PO115216.D | 19 Nov 2025 13:54 | | YP/AJ | Ok,M |
| 14 | Q3664-03 | ARS20-0013 | PO115217.D | 19 Nov 2025 14:12 | | YP/AJ | Ok,M |
| 15 | Q3664-05 | 291399 | PO115218.D | 19 Nov 2025 14:30 | | YP/AJ | Ok,M |
| 16 | Q3666-01 | BUR-25-0103 | PO115219.D | 19 Nov 2025 14:49 | | YP/AJ | Ok,M |
| 17 | AR1660CCC500 | AR1660CCC500 | PO115220.D | 19 Nov 2025 15:26 | | YP/AJ | Ok,M |
| 18 | AR1242CCC500 | AR1242CCC500 | PO115221.D | 19 Nov 2025 15:44 | | YP/AJ | Ok,M |

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Fax : 908 789 8922

**Instrument ID:** ECD_O

## Daily Analysis Runlog For Sequence/QCBatch ID # PO111925

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 3:01:54 PM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 3:59:53 PM | | |
| SubDirectory | PO111925 | HP Acquire Method | | HP Processing Method | PO110425 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | AR1248CCC500 | AR1248CCC500 | PO115222.D | 19 Nov 2025 16:02 | | YP/AJ | Ok,M |
| 20 | AR1254CCC500 | AR1254CCC500 | PO115223.D | 19 Nov 2025 16:21 | | YP/AJ | Ok |
| 21 | I.BLK | I.BLK | PO115224.D | 19 Nov 2025 16:39 | | YP/AJ | Ok,M |
| 22 | Q3667-01 | RIGHT-SIDE-WALL | PO115225.D | 19 Nov 2025 16:57 | | YP/AJ | Ok,M |
| 23 | Q3667-03 | LEFT-SIDE-WALL | PO115226.D | 19 Nov 2025 17:16 | | YP/AJ | Ok,M |
| 24 | Q3667-05 | LEFT-SIDE-FLOOR | PO115227.D | 19 Nov 2025 17:34 | AR1268 hit , ccc missing | YP/AJ | Not Ok |
| 25 | Q3667-07 | ELEVATED-DIVIDE | PO115228.D | 19 Nov 2025 17:53 | | YP/AJ | Ok,M |
| 26 | AR1660CCC500 | AR1660CCC500 | PO115229.D | 20 Nov 2025 00:53 | | YP/AJ | Ok |
| 27 | AR1248CCC500 | AR1248CCC500 | PO115230.D | 20 Nov 2025 01:48 | | YP/AJ | Ok,M |
| 28 | AR1254CCC500 | AR1254CCC500 | PO115231.D | 20 Nov 2025 02:06 | | YP/AJ | Ok |
| 29 | I.BLK | I.BLK | PO115232.D | 20 Nov 2025 02:24 | | YP/AJ | Ok,M |
| 30 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PO115233.D | 20 Nov 2025 02:43 | AR1660-LOQ-SOIL-50 PPB | YP/AJ | Ok,M |
| 31 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PO115234.D | 20 Nov 2025 03:01 | surrogate fail | YP/AJ | Not Ok |
| 32 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PO115235.D | 20 Nov 2025 03:20 | surrogate fail | YP/AJ | Not Ok |
| 33 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PO115236.D | 20 Nov 2025 03:38 | surrogate fail | YP/AJ | Not Ok |
| 34 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PO115237.D | 20 Nov 2025 03:56 | surrogate fail | YP/AJ | Not Ok |
| 35 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PO115238.D | 20 Nov 2025 04:15 | surrogate fail | YP/AJ | Not Ok |
| 36 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PO115239.D | 20 Nov 2025 04:33 | surrogate fail | YP/AJ | Not Ok |
| 37 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PO115240.D | 20 Nov 2025 04:51 | surrogate fail | YP/AJ | Not Ok |

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Fax : 908 789 8922

**Instrument ID:** ECD_O

## Daily Analysis Runlog For Sequence/QCBatch ID # PO111925

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 3:01:54 PM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 3:59:53 PM | | |
| SubDirectory | PO111925 | HP Acquire Method | | HP Processing Method | PO110425 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | PB170532BL | PB170532BL | PO115241.D | 20 Nov 2025 05:10 | | YP/AJ | Ok,M |
| 39 | AR1660CCC500 | AR1660CCC500 | PO115242.D | 20 Nov 2025 06:05 | | YP/AJ | Ok,M |
| 40 | I.BLK | I.BLK | PO115243.D | 20 Nov 2025 06:41 | | YP/AJ | Ok,M |
| 41 | Q3530-08 | LOQ-WATER-02-QT4-2 | PO115244.D | 20 Nov 2025 07:00 | | YP/AJ | Ok,M |
| 42 | Q3530-08 | LOQ-WATER-02-QT4-2 | PO115245.D | 20 Nov 2025 07:18 | surrogate fail | YP/AJ | Not Ok |
| 43 | Q3530-08 | LOQ-WATER-02-QT4-2 | PO115246.D | 20 Nov 2025 07:36 | surrogate fail | YP/AJ | Not Ok |
| 44 | Q3530-08 | LOQ-WATER-02-QT4-2 | PO115247.D | 20 Nov 2025 07:55 | | YP/AJ | Ok,M |
| 45 | Q3530-08 | LOQ-WATER-02-QT4-2 | PO115248.D | 20 Nov 2025 08:13 | surrogate fail | YP/AJ | Not Ok |
| 46 | Q3530-08 | LOQ-WATER-02-QT4-2 | PO115249.D | 20 Nov 2025 08:31 | surrogate fail | YP/AJ | Not Ok |
| 47 | Q3530-08 | LOQ-WATER-02-QT4-2 | PO115250.D | 20 Nov 2025 08:50 | surrogate fail | YP/AJ | Not Ok |
| 48 | Q3530-08 | LOQ-WATER-02-QT4-2 | PO115251.D | 20 Nov 2025 09:08 | surrogate fail | YP/AJ | Not Ok |
| 49 | AR1660CCC500 | AR1660CCC500 | PO115252.D | 20 Nov 2025 09:26 | | YP/AJ | Ok,M |
| 50 | I.BLK | I.BLK | PO115253.D | 20 Nov 2025 09:45 | | YP/AJ | Ok,M |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID:** ECD_Q

## Daily Analysis Runlog For Sequence/QCBatch ID # PQ111825

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 8:33:53 AM | | |
| Supervise By | Sohil | Supervise On | 11/19/2025 3:39:22 PM | | |
| SubDirectory | PQ111825 | HP Acquire Method | | HP Processing Method | PQ111825 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PQ071271.D | 18 Nov 2025 11:44 | | YP\AJ | Ok |
| 2 | I.BLK | I.BLK | PQ071272.D | 18 Nov 2025 11:59 | | YP\AJ | Ok |
| 3 | AR1660ICC1000 | AR1660ICC1000 | PQ071273.D | 18 Nov 2025 12:13 | | YP\AJ | Ok |
| 4 | AR1660ICC750 | AR1660ICC750 | PQ071274.D | 18 Nov 2025 12:28 | | YP\AJ | Ok |
| 5 | AR1660ICC500 | AR1660ICC500 | PQ071275.D | 18 Nov 2025 12:43 | | YP\AJ | Ok |
| 6 | AR1660ICC250 | AR1660ICC250 | PQ071276.D | 18 Nov 2025 12:57 | | YP\AJ | Ok |
| 7 | AR1660ICC050 | AR1660ICC050 | PQ071277.D | 18 Nov 2025 15:42 | | YP\AJ | Ok,M |
| 8 | AR1221ICC500 | AR1221ICC500 | PQ071278.D | 18 Nov 2025 16:25 | | YP\AJ | Ok |
| 9 | AR1232ICC500 | AR1232ICC500 | PQ071279.D | 18 Nov 2025 16:39 | | YP\AJ | Ok |
| 10 | AR1242ICC500 | AR1242ICC500 | PQ071280.D | 18 Nov 2025 16:54 | | YP\AJ | Ok |
| 11 | AR1248ICC500 | AR1248ICC500 | PQ071281.D | 18 Nov 2025 17:08 | | YP\AJ | Ok |
| 12 | AR1254ICC500 | AR1254ICC500 | PQ071282.D | 18 Nov 2025 17:23 | | YP\AJ | Ok |
| 13 | AR1262ICC500 | AR1262ICC500 | PQ071283.D | 18 Nov 2025 17:37 | | YP\AJ | Ok |
| 14 | AR1268ICC500 | AR1268ICC500 | PQ071284.D | 18 Nov 2025 17:52 | | YP\AJ | Ok |
| 15 | PQ111825ICV500 | ICVPQ111825 | PQ071285.D | 18 Nov 2025 18:07 | | YP\AJ | Ok |
| 16 | AR1660CCC500 | AR1660CCC500 | PQ071286.D | 18 Nov 2025 18:36 | | YP\AJ | Ok |
| 17 | I.BLK | I.BLK | PQ071287.D | 18 Nov 2025 19:05 | | YP\AJ | Ok |
| 18 | PB170532BL | PB170532BL | PQ071288.D | 18 Nov 2025 19:20 | DCB high in 2nd column | YP\AJ | Not Ok |

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**Instrument ID:** ECD_Q

## Daily Analysis Runlog For Sequence/QCBatch ID # PQ111825

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 8:33:53 AM | | |
| Supervise By | Sohil | Supervise On | 11/19/2025 3:39:22 PM | | |
| SubDirectory | PQ111825 | HP Acquire Method | | HP Processing Method | PQ111825 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071289.D | 18 Nov 2025 19:34 | AR1660 MDL SOIL 25PPB | YP\AJ | Ok |
| 20 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071290.D | 18 Nov 2025 19:49 | AR1221 MDL SOIL 25PPB, failing high | YP\AJ | Not Ok |
| 21 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071291.D | 18 Nov 2025 20:03 | AR1232 MDL SOIL 25PPB, failing high in 1st column | YP\AJ | Not Ok |
| 22 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071292.D | 18 Nov 2025 20:18 | AR1242 MDL SOIL 25PPB, failing high in 2d column | YP\AJ | Not Ok |
| 23 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071293.D | 18 Nov 2025 20:33 | AR1248 MDL SOIL 25PPB, failing high | YP\AJ | Not Ok |
| 24 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071294.D | 18 Nov 2025 20:47 | AR1254 MDL SOIL 25PPB, failing high | YP\AJ | Not Ok |
| 25 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071295.D | 18 Nov 2025 21:02 | AR1262 MDL SOIL 25PPB | YP\AJ | Not Ok |
| 26 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071296.D | 18 Nov 2025 21:16 | AR1268 MDL SOIL 25PPB | YP\AJ | Ok |
| 27 | AR1660CCC500 | AR1660CCC500 | PQ071297.D | 18 Nov 2025 22:14 | | YP\AJ | Ok |
| 28 | I.BLK | I.BLK | PQ071298.D | 19 Nov 2025 00:49 | | YP\AJ | Ok |
| 29 | PB170530BL | PB170530BL | PQ071299.D | 19 Nov 2025 01:03 | | YP\AJ | Ok |
| 30 | Q3530-09 | MDL-WATER-03-QT4-2 | PQ071300.D | 19 Nov 2025 01:18 | AR1660 MDL WATER 25PPB | YP\AJ | Ok |
| 31 | Q3530-09 | MDL-WATER-03-QT4-2 | PQ071301.D | 19 Nov 2025 01:32 | AR1221 MDL WATER 25PPB, failing high | YP\AJ | Not Ok |
| 32 | Q3530-09 | MDL-WATER-03-QT4-2 | PQ071302.D | 19 Nov 2025 01:47 | AR1232 MDL WATER 25PPB, failing high in 1st column | YP\AJ | Not Ok |
| 33 | Q3530-09 | MDL-WATER-03-QT4-2 | PQ071303.D | 19 Nov 2025 02:01 | AR1242 MDL WATER 25PPB, failing high in 2d column | YP\AJ | Not Ok |
| 34 | Q3530-09 | MDL-WATER-03-QT4-2 | PQ071304.D | 19 Nov 2025 02:16 | AR1248 MDL WATER 25PPB, failing high | YP\AJ | Not Ok |
| 35 | Q3530-09 | MDL-WATER-03-QT4-2 | PQ071305.D | 19 Nov 2025 02:31 | AR1254 MDL WATER 25PPB, failing high | YP\AJ | Not Ok |

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**Instrument ID:** ECD_Q

## Daily Analysis Runlog For Sequence/QCBatch ID # PQ111825

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 8:33:53 AM | | |
| Supervise By | Sohil | Supervise On | 11/19/2025 3:39:22 PM | | |
| SubDirectory | PQ111825 | HP Acquire Method | | HP Processing Method | PQ111825 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 36 | Q3530-09 | MDL-WATER-03-QT4-2 | PQ071306.D | 19 Nov 2025 02:45 | AR1262 MDL WATER 25PPB | YP\AJ | Ok,M |
| 37 | Q3530-09 | MDL-WATER-03-QT4-2 | PQ071307.D | 19 Nov 2025 03:00 | AR1268 MDL WATER 25PPB | YP\AJ | Ok |
| 38 | AR1660CCC500 | AR1660CCC500 | PQ071308.D | 19 Nov 2025 03:58 | | YP\AJ | Ok |
| 39 | I.BLK | I.BLK | PQ071309.D | 19 Nov 2025 04:30 | | YP\AJ | Ok |
| 40 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PQ071310.D | 19 Nov 2025 04:44 | AR1660 LOQ SOIL 50PPB, failing low | YP\AJ | Not Ok |
| 41 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PQ071311.D | 19 Nov 2025 04:59 | AR1221 LOQ SOIL 50PPB | YP\AJ | Ok,M |
| 42 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PQ071312.D | 19 Nov 2025 05:14 | AR1232 LOQ SOIL 50PPB | YP\AJ | Ok,M |
| 43 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PQ071313.D | 19 Nov 2025 05:28 | AR1242 LOQ SOIL 50PPB | YP\AJ | Ok,M |
| 44 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PQ071314.D | 19 Nov 2025 05:43 | AR1248 LOQ SOIL 50PPB | YP\AJ | Ok |
| 45 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PQ071315.D | 19 Nov 2025 05:57 | AR1254 LOQ SOIL 50PPB | YP\AJ | Ok,M |
| 46 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PQ071316.D | 19 Nov 2025 06:12 | AR1262 LOQ SOIL 50PPB | YP\AJ | Ok |
| 47 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PQ071317.D | 19 Nov 2025 06:27 | AR1268 LOQ SOIL 50PPB | YP\AJ | Ok,M |
| 48 | AR1660CCC500 | AR1660CCC500 | PQ071318.D | 19 Nov 2025 07:25 | | YP\AJ | Ok |
| 49 | I.BLK | I.BLK | PQ071319.D | 19 Nov 2025 08:09 | | YP\AJ | Ok |
| 50 | Q3530-08 | LOQ-WATER-02-QT4-2 | PQ071320.D | 19 Nov 2025 08:23 | AR1660 LOQ WATER 50PPB , Recovery low | YP\AJ | Not Ok |
| 51 | Q3530-08 | LOQ-WATER-02-QT4-2 | PQ071321.D | 19 Nov 2025 08:38 | AR1221 LOQ WATER 50PPB | YP\AJ | Ok,M |
| 52 | Q3530-08 | LOQ-WATER-02-QT4-2 | PQ071322.D | 19 Nov 2025 08:52 | AR1232 LOQ WATER 50PPB | YP\AJ | Ok,M |
| 53 | Q3530-08 | LOQ-WATER-02-QT4-2 | PQ071323.D | 19 Nov 2025 09:07 | AR1242 LOQ WATER 50PPB | YP\AJ | Ok,M |
| 54 | Q3530-08 | LOQ-WATER-02-QT4-2 | PQ071324.D | 19 Nov 2025 09:21 | AR1248 LOQ WATER 50PPB | YP\AJ | Ok,M |

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Fax : 908 789 8922

**Instrument ID:** ECD_Q

## Daily Analysis Runlog For Sequence/QCBatch ID # PQ111825

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 8:33:53 AM | | |
| Supervise By | Sohil | Supervise On | 11/19/2025 3:39:22 PM | | |
| SubDirectory | PQ111825 | HP Acquire Method | | HP Processing Method | PQ111825 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 55 | Q3530-08 | LOQ-WATER-02-QT4-2 | PQ071325.D | 19 Nov 2025 09:36 | AR1254 LOQ WATER 50PPB , AR1254-1 high in 1st column | YP\AJ | Not Ok |
| 56 | Q3530-08 | LOQ-WATER-02-QT4-2 | PQ071326.D | 19 Nov 2025 09:51 | AR1262 LOQ WATER 50PPB | YP\AJ | Ok,M |
| 57 | Q3530-08 | LOQ-WATER-02-QT4-2 | PQ071327.D | 19 Nov 2025 10:05 | AR1268 LOQ WATER 50PPB , AR1268-1,2 High in 2nd column , all surrogate fail | YP\AJ | Not Ok |
| 58 | AR1660CCC500 | AR1660CCC500 | PQ071328.D | 19 Nov 2025 11:03 | | YP\AJ | Ok |
| 59 | I.BLK | I.BLK | PQ071329.D | 19 Nov 2025 11:19 | | YP\AJ | Ok |
| 60 | DDT ANALOG | DDT ANALOG | PQ071330.D | 19 Nov 2025 11:33 | | YP\AJ | Ok |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID:** ECD_Q

## Daily Analysis Runlog For Sequence/QCBatch ID # PQ111925

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 2:55:18 PM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 3:54:26 PM | | |
| SubDirectory | PQ111925 | HP Acquire Method | | HP Processing Method | PQ111825 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PQ071331.D | 19 Nov 2025 12:49 | | YP\AJ | Ok |
| 2 | AR1660CCC500 | AR1660CCC500 | PQ071332.D | 19 Nov 2025 13:04 | | YP\AJ | Ok |
| 3 | I.BLK | I.BLK | PQ071333.D | 19 Nov 2025 13:18 | | YP\AJ | Ok |
| 4 | PB170627BL | PB170627BL | PQ071334.D | 19 Nov 2025 13:34 | | YP\AJ | Ok |
| 5 | PB170627BS | PB170627BS | PQ071335.D | 19 Nov 2025 13:48 | | YP\AJ | Ok |
| 6 | PB170633BL | PB170633BL | PQ071336.D | 19 Nov 2025 14:03 | | YP\AJ | Ok |
| 7 | PB170633BS | PB170633BS | PQ071337.D | 19 Nov 2025 14:18 | | YP\AJ | Ok |
| 8 | Q3668-01 | 2015 | PQ071338.D | 19 Nov 2025 14:32 | | YP\AJ | Ok |
| 9 | Q3669-01 | EO-01-11182025 | PQ071339.D | 19 Nov 2025 14:47 | | YP\AJ | Ok,M |
| 10 | Q3669-01MS | EO-01-11182025MS | PQ071340.D | 19 Nov 2025 15:01 | | YP\AJ | Ok,M |
| 11 | Q3669-01MSD | EO-01-11182025MSD | PQ071341.D | 19 Nov 2025 15:16 | | YP\AJ | Ok,M |
| 12 | Q3654-01 | 1A1B1C | PQ071342.D | 19 Nov 2025 15:30 | | YP\AJ | Ok,M |
| 13 | Q3654-02 | 2A2B2C | PQ071343.D | 19 Nov 2025 15:45 | | YP\AJ | Ok,M |
| 14 | AR1660CCC500 | AR1660CCC500 | PQ071344.D | 19 Nov 2025 17:27 | | YP\AJ | Ok,M |
| 15 | I.BLK | I.BLK | PQ071345.D | 19 Nov 2025 17:42 | | YP\AJ | Ok |
| 16 | PB170532BL | PB170532BL | PQ071346.D | 19 Nov 2025 17:56 | TCMX high in 2nd column | YP\AJ | Not Ok |
| 17 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071347.D | 19 Nov 2025 18:11 | AR1221-MDL-SOIL-QT4 | YP\AJ | Ok,M |
| 18 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071348.D | 19 Nov 2025 18:25 | AR1232-MDL-SOIL-QT4 | YP\AJ | Ok,M |

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**Instrument ID:** ECD_Q

## Daily Analysis Runlog For Sequence/QCBatch ID # PQ111925

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 2:55:18 PM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 3:54:26 PM | | |
| SubDirectory | PQ111925 | HP Acquire Method | | HP Processing Method | PQ111825 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071349.D | 19 Nov 2025 18:40 | AR1242-MDL-SOIL-QT4 | YP\AJ | Ok,M |
| 20 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071350.D | 19 Nov 2025 18:54 | AR1248-MDL-SOIL-QT4 ,Looks like BL | YP\AJ | Not Ok |
| 21 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071351.D | 19 Nov 2025 19:09 | AR1254-MDL-SOIL-QT4 | YP\AJ | Ok,M |
| 22 | AR1660CCC500 | AR1660CCC500 | PQ071352.D | 19 Nov 2025 19:53 | | YP\AJ | Ok,M |
| 23 | I.BLK | I.BLK | PQ071353.D | 19 Nov 2025 20:22 | | YP\AJ | Ok |
| 24 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071354.D | 19 Nov 2025 20:36 | AR1221-MDL-WATER-QT4 | YP\AJ | Ok,M |
| 25 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071355.D | 19 Nov 2025 20:51 | AR1232-MDL-WATER-QT4 | YP\AJ | Ok,M |
| 26 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071356.D | 19 Nov 2025 21:06 | AR1242-MDL-WATER-QT4 | YP\AJ | Ok,M |
| 27 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071357.D | 19 Nov 2025 21:20 | AR1248-MDL-WATER-QT4 , Recovery low , No proper hits | YP\AJ | Not Ok |
| 28 | Q3530-03 | MDL-SOIL-03-QT4-202 | PQ071358.D | 19 Nov 2025 21:35 | AR1254-MDL-WATER-QT4 | YP\AJ | Ok,M |
| 29 | Q3530-02 | LOQ-SOIL-02-QT4-202 | PQ071359.D | 19 Nov 2025 21:49 | AR1660-MDL-SOIL-QT4 | YP\AJ | Ok |
| 30 | Q3530-08 | LOQ-WATER-02-QT4-2 | PQ071360.D | 19 Nov 2025 22:04 | AR1660-MDL-WATER-QT4 | YP\AJ | Ok |
| 31 | AR1660CCC500 | AR1660CCC500 | PQ071361.D | 19 Nov 2025 22:48 | | YP\AJ | Ok,M |
| 32 | I.BLK | I.BLK | PQ071362.D | 19 Nov 2025 23:17 | | YP\AJ | Ok |

M : Manual Integration

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# EXTRACTION LOGPAGE

PB170627

**SOP ID:** M3541-ASE Extraction-15

**Clean Up SOP #:** Acid Cleanup

**Matrix :** Solid

**Weigh By:** EH

**Balance check:** EH

**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 :** 11/19/2025

**Extraction Start Time :** 08:55

**Extraction End Date :** 11/19/2025

**Extraction End Time :** 12:00

**Concentration By:** EH

**Supervisor By :** RUPESH

**Extraction Method:** ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 5000 PPB | PP24930 |
| Surrogate | 1.0ML | 200 PPB | PP24663 |
| 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 | EP2660 |
| Baked Na2SO4 | N/A | EP2655 |
| Sand | N/A | E3951 |
| Hexane | N/A | E3984 |
| H2SO4 1:1 | N/A | EP2657 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

40ML Vial Lot # 03-40BTS721. Q3663-01,02 used Limited volume as samples are oil.

**KD Bath ID:** N/A

**KD Bath Temperature:** N/A

**Envap ID:** N-EVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/19/25 | RS (Ext-Lab) | R. Patel/PCB Lab |
| 12:05 | Preparation Group | Analysis Group |

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**EXTRACTION LOGPAGE**

**PrepBatch ID : PB170627**

**Analytical Method:** M3541-ASE Extraction-15

**Concentration Date:** 11/19/2025

| Sample ID | Client Sample ID | Test | g/mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB170627BL | ABLK627 | PCB | 30.02 | N/A | ritesh | Evelyn | 10 | | | U3-1 |
| PB170627BS | ALCS627 | PCB | 30.03 | N/A | ritesh | Evelyn | 10 | | | 2 |
| Q3483-18 | HW1025-PT-PCB-SOIL | PCB | 30.11 | N/A | ritesh | Evelyn | 10 | | | 3 |
| Q3662-02 | B3-0.0-1.0-20251117 | PCB | 30.01 | N/A | ritesh | Evelyn | 10 | A | | 4 |
| Q3662-04 | B3-0.0-1.0-20251117 | PCB | 30.04 | N/A | ritesh | Evelyn | 10 | A | | 5 |
| Q3663-01 | 2053 | PCB | 1.07 | N/A | ritesh | Evelyn | 10 | A | Oil | |
| Q3663-02 | 2054 | PCB | 1.05 | N/A | ritesh | Evelyn | 10 | A | Oil | |
| Q3664-01 | ARS20-0001 | PCB | 30.02 | N/A | ritesh | Evelyn | 10 | E | Concrete | 6 |
| Q3664-03 | ARS20-0013 | PCB | 30.07 | N/A | ritesh | Evelyn | 10 | E | Concrete | U4-1 |
| Q3664-05 | 291399 | PCB | 30.01 | N/A | ritesh | Evelyn | 10 | E | Concrete | 2 |
| Q3666-01 | BUR-25-0103 | PCB | 30.09 | N/A | ritesh | Evelyn | 10 | A | Small Particles | 3 |
| Q3667-01 | RIGHT-SIDE-WALL | PCB | 30.05 | N/A | ritesh | Evelyn | 10 | A | Concrete | 4 |
| Q3667-03 | LEFT-SIDE-WALL | PCB | 30.08 | N/A | ritesh | Evelyn | 10 | A | Concrete | 5 |
| Q3667-05 | LEFT-SIDE-FLOOR | PCB | 30.04 | N/A | ritesh | Evelyn | 10 | A | Concrete | 6 |
| Q3667-07 | ELEVATED-DIVIDE | PCB | 30.02 | N/A | ritesh | Evelyn | 10 | A | Concrete | U6-1 |
| Q3668-01 | 2015 | PCB | 30.03 | N/A | ritesh | Evelyn | 10 | A | Concrete | 2 |
| Q3669-01 | EO-01-11182025 | PCB | 30.07 | N/A | ritesh | Evelyn | 10 | F | | 3 |
| Q3669-01MS | EO-01-11182025MS | PCB | 30.06 | N/A | ritesh | Evelyn | 10 | F | | 4 |
| Q3669-01MSD | EO-01-11182025MSD | PCB | 30.02 | N/A | ritesh | Evelyn | 10 | F | | 5 |

RS
11/19

* **Extracts relinquished on the same date as received.**

170627 8:35

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q3664 **WorkList ID :** 193209 **Department :** Extraction **Date :** 11-19-2025 08:35:37

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q3483-18 | HW1025-PT-PCB-SOIL | Solid | PCB | Cool 4 deg C | ALLI03 | QA Of | 10/27/2025 | 8082A |
| Q3662-02 | B3-0.0-1.0-20251117 | Solid | PCB | Cool 4 deg C | HDRI08 | D41 | 11/17/2025 | 8082A |
| Q3662-04 | B3-0.0-1.0-20251117 | Solid | PCB | Cool 4 deg C | HDRI08 | D41 | 11/17/2025 | 8082A |
| Q3663-01 | 2053 | Solid | PCB | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | 8082A |
| Q3663-02 | 2054 | Solid | PCB | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | 8082A |
| Q3664-01 | ARS20-0001 | Solid | PCB | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | 8082A |
| Q3664-03 | ARS20-0013 | Solid | PCB | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | 8082A |
| Q3664-05 | 291399 | Solid | PCB | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | 8082A |
| Q3666-01 | BUR-25-0103 | Solid | PCB | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | 8082A |
| Q3667-01 | RIGHT-SIDE-WALL | Solid | PCB | Cool 4 deg C | PSEG03 | D41 | 11/18/2025 | 8082A |
| Q3667-03 | LEFT-SIDE-WALL | Solid | PCB | Cool 4 deg C | PSEG03 | D41 | 11/18/2025 | 8082A |
| Q3667-05 | LEFT-SIDE-FLOOR | Solid | PCB | Cool 4 deg C | PSEG03 | D41 | 11/18/2025 | 8082A |
| Q3667-07 | ELEVATED-DIVIDE | Solid | PCB | Cool 4 deg C | PSEG03 | D41 | 11/18/2025 | 8082A |
| Q3668-01 | 2015 | Solid | PCB | Cool 4 deg C | PSEG03 | D41 | 11/18/2025 | 8082A |
| Q3669-01 | EO-01-11182025 | Solid | PCB | Cool 4 deg C | PSEG05 | D41 | 11/18/2025 | 8082A |

**Date/Time** 11/19/25 8:50
**Raw Sample Received by:** RJ (ExtLab)
**Raw Sample Relinquished by:** CA SM



**Date/Time** 11/19/25 9:20
**Raw Sample Received by:** CA SM
**Raw Sample Relinquished by:** RJ (ExtLab)

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q3662 | **OrderDate:** | 11/18/2025 11:14:00 AM |
| **Client:** | HDR, Inc. | **Project:** | PVWC Linear Construction |
| **Contact:** | Andrew Wadden | **Location:** | D41,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q3662-02** | **B3-0.0-1.0-20251117** | **SOIL** | | | **11/17/25** | | | **11/18/25** |
| | | | PCB | 8082A | | 11/19/25 | 11/19/25 | |
| **Q3662-04** | **B1-0.0-1.0-20251117** | **SOIL** | | | **11/17/25** | | | **11/18/25** |
| | | | PCB | 8082A | | 11/19/25 | 11/19/25 | |
| | | | EPH_NF | NJEPH | | 11/19/25 | 11/19/25 | |

# SAMPLE DATA

Raw Data: **FE056937.D**

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | | | Date Received: | 11/18/25 |
| Client Sample ID: | B1-0.0-1.0-20251117 | | | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-04 | | | Matrix: | Solid |
| Analytical Method: | NJEPH | | | % Solid: | 88.1 |
| Sample Wt/Vol: | 30.09 g | Final Vol: | 2000 uL | Test: | EPH_NF |
| Prep Method : | | Prep Date : | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Datafile | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 27.9 | | 1 | 1.34 | 2.26 | mg/kg | FE056937.D | 11/19/25 15:39 | PB170632 |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 15.6 | | 1 | 1.03 | 4.52 | mg/kg | FE056937.D | 11/19/25 15:39 | PB170632 |
| Total AliphaticEPH | Total AliphaticEPH | 43.5 | | | 2.37 | 6.78 | mg/kg | | | |
| Total EPH | Total EPH | 43.5 | | | 2.37 | 6.78 | mg/kg | | | |

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

Raw Data: **FE056937.D**

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | | | Date Received: | 11/18/25 |
| Client Sample ID: | B1-0.0-1.0-20251117 | | | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-04 | | | Matrix: | Solid |
| Analytical Method: | NJEPH | | | % Solid: | 88.1 |
| Sample Wt/Vol: | 30.09 g | Final Vol: | 2000 uL | Test: | EPH_NF |
| Prep Method : | | Prep Date | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 15.6 | | 1 | 1.03 | 4.52 | mg/kg | 11/19/25 | PB170632 |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 27.9 | | 1 | 1.34 | 2.26 | mg/kg | 11/19/25 | PB170632 |
| **SURROGATES** | | | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 26.3 | | | 40 - 140 | 53% | SPK: 50 | | |
| 84-15-1 | ortho-Terphenyl (SURR) | 28.0 | | | 40 - 140 | 56% | SPK: 50 | | |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q3662-04 | Acq On: | 19 Nov 2025 15:39 |
| Client Sample ID: | B1-0.0-1.0-20251117 | Operator: | YP\AJ |
| Data file: | FE056937.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 20 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.209 | 6.832 | 484509 | 2.831 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.833 | 10.276 | 2813984 | 15.742 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.277 | 13.648 | 14506096 | 77.778 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.649 | 17.318 | 21202667 | 109.992 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.319 | 22.247 | 58903474 | 369.73 | 600 | ug/ml |
| Aliphatic EPH | 3.209 | 22.247 | 97910730 | 576.073 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.945 | 11.945 | 5850823 | 28.01 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.381 | 13.381 | 4236962 | 26.3 | | ug/ml |
| Aliphatic C9-C28 | 3.209 | 17.318 | 39007256 | 206.343 | 1200 | ug/ml |






# QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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## SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG No.: Q3662

Run Number: FE111925AL

| CLIENT SAMPLE NO. | 1-chlorooctadecane (SURR) | ortho-Terphenyl (SURR) | | TOT OUT |
|---|---|---|---|---|
| PB170632BL | 58 | 70 | | 0 |
| PB170632BS | 60 | 69 | | 0 |
| PB170632BSD | 59 | 67 | | 0 |
| B1-0.0-1.0-20251117 | 53 | 56 | | 0 |
| EO-01-11182025MS | 111 | 72 | | 0 |
| EO-01-11182025MSD | 113 | 73 | | 0 |

| | QC LIMITS |
|---|---|
| 1-chlorooctadecane (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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Fax : 908 789 8922

## SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Alliance **Client:** HDR, Inc.

**Lab Code:** ACE **SDG No:** Q3662

**Sample No :** Q3669-01MS **Datafile:** FE056946.D **Client ID :** EO-01-11182025MS

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS (%) |
|---|---|---|---|---|---|---|
| Aliphatic C28-C40 | 32.2 | 63.8 | 106 | 130 | | (40-140) |
| Aliphatic C9-C28 | 107.3 | 66.8 | 117 | 48 | | (40-140) |

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS (%) |
|---|---|---|---|---|---|---|
| n-Nonane (C9) | 3.6 | 0.0163 | 1.2972 | 36 | * | (40-140) |
| n-Decane (C10) | 3.6 | 0.1470 | 3.4832 | 93 | | (40-140) |
| Naphthalene (C11.7) | 3.6 | 0.4916 | 2.2181 | 48 | | (40-140) |
| n-Dodecane (C12) | 3.6 | 0.7230 | 2.5712 | 51 | | (40-140) |
| 2-methylnaphthalene (C12.89) | 3.6 | 0.7637 | 2.7022 | 54 | | (40-140) |
| n-Tetradecane (C14) | 3.6 | 2.0328 | 4.0605 | 56 | | (40-140) |
| n-Hexadecane (C16) | 3.6 | 1.9288 | 3.8696 | 54 | | (40-140) |
| n-Octadecane (C18) | 3.6 | 1.3531 | 3.1208 | 49 | | (40-140) |
| n-Eicosane (C20) | 3.6 | 0.7366 | 2.6803 | 54 | | (40-140) |
| n-Heneicosane (C21) | 3.6 | 0.4433 | 2.4708 | 56 | | (40-140) |
| n-Docosane (C22) | 3.6 | 0.4497 | 2.4071 | 54 | | (40-140) |
| n-Tetracosane (C24) | 7.2 | 0.5743 | 6.2566 | 79 | | (40-140) |
| n-Hexacosane (C26) | 3.6 | 0.2196 | 2.0336 | 50 | | (40-140) |
| n-Octacosane (C28) | 3.6 | 0.4763 | 2.2412 | 49 | | (40-140) |
| n-Tricontane (C30) | 3.6 | 0.6469 | 2.1247 | 41 | | (40-140) |
| n-Dotriacontane (C32) | 3.6 | 1.7840 | 3.9405 | 60 | | (40-140) |
| n-Tetratriacontane (C34) | 3.6 | 1.3782 | 4.1891 | 78 | | (40-140) |
| n-Hexatriacontane (C36) | 3.6 | 2.1555 | 6.5501 | 122 | | (40-140) |
| n-Octatriacontane (C38) | 3.6 | 2.7285 | 6.9484 | 117 | | (40-140) |
| n-Tetracontane (C40) | 3.6 | 0.7228 | 4.1969 | 97 | | (40-140) |

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Fax : 908 789 8922

## SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Alliance **Client:** HDR, Inc.

**Lab Code:** ACE **SDG No:** Q3662

**Sample No :** Q3669-01MSD **Datafile:** FE056947.D **Client ID :** EO-01-11182025MSD

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | RPD \| QC LIMITS (%) | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|
| Aliphatic C28-C40 | 32.2 | 63.8 | 102 | 118 | | 9.68 \| (40-140) | 50 |
| Aliphatic C9-C28 | 107.5 | 66.8 | 114 | 44 | | 6.7 \| (40-140) | 50 |

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | RPD \| QC LIMITS (%) | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|
| n-Nonane (C9) | 3.6 | 0.0163 | 1.3130 | 36 | * | 0 \| (40-140) | 50 |
| n-Decane (C10) | 3.6 | 0.1470 | 3.5342 | 94 | | 1.07 \| (40-140) | 50 |
| Naphthalene (C11.7) | 3.6 | 0.4916 | 2.2778 | 50 | | 4.08 \| (40-140) | 50 |
| n-Dodecane (C12) | 3.6 | 0.7230 | 2.6558 | 54 | | 5.71 \| (40-140) | 50 |
| 2-methylnaphthalene (C12.89) | 3.6 | 0.7637 | 2.7619 | 56 | | 3.64 \| (40-140) | 50 |
| n-Tetradecane (C14) | 3.6 | 2.0328 | 4.1467 | 59 | | 5.22 \| (40-140) | 50 |
| n-Hexadecane (C16) | 3.6 | 1.9288 | 3.9387 | 56 | | 3.64 \| (40-140) | 50 |
| n-Octadecane (C18) | 3.6 | 1.3531 | 3.0963 | 48 | | 2.06 \| (40-140) | 50 |
| n-Eicosane (C20) | 3.6 | 0.7366 | 2.7382 | 56 | | 3.64 \| (40-140) | 50 |
| n-Heneicosane (C21) | 3.6 | 0.4433 | 2.5178 | 58 | | 3.51 \| (40-140) | 50 |
| n-Docosane (C22) | 3.6 | 0.4497 | 2.4434 | 55 | | 1.83 \| (40-140) | 50 |
| n-Tetracosane (C24) | 7.2 | 0.5743 | 6.4141 | 81 | | 2.5 \| (40-140) | 50 |
| n-Hexacosane (C26) | 3.6 | 0.2196 | 2.0919 | 52 | | 3.92 \| (40-140) | 50 |
| n-Octacosane (C28) | 3.6 | 0.4763 | 2.2792 | 50 | | 2.02 \| (40-140) | 50 |
| n-Tricontane (C30) | 3.6 | 0.6469 | 2.4392 | 50 | | 19.78 \|(40-140) | 50 |
| n-Dotriacontane (C32) | 3.6 | 1.7840 | 3.8697 | 58 | | 3.39 \| (40-140) | 50 |
| n-Tetratriacontane (C34) | 3.6 | 1.3782 | 4.1457 | 77 | | 1.29 \| (40-140) | 50 |
| n-Hexatriacontane (C36) | 3.6 | 2.1555 | 6.3695 | 117 | | 4.18 \| (40-140) | 50 |
| n-Octatriacontane (C38) | 3.6 | 2.7285 | 6.7216 | 111 | | 5.26 \| (40-140) | 50 |
| n-Tetracontane (C40) | 3.6 | 0.7228 | 4.1658 | 96 | | 1.04 \| (40-140) | 50 |

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## SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Alliance **Client:** HDR, Inc.

**Lab Code:** ACE **SDG No:** Q3662

**Sample No :** PB170632BS **Datafile:** FE056935.D **Client ID :** PB170632BS

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS (%) |
|---|---|---|---|---|---|
| Aliphatic C28-C40 | 30.0 | 24.5 | 82 | | (40-140) |
| Aliphatic C9-C28 | 99.9 | 68.9 | 70 | | (40-140) |

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS(%) |
|---|---|---|---|---|---|
| n-Nonane (C9) | 3.3 | 2.34445 | 71 | | (40-140) |
| n-Decane (C10) | 3.3 | 2.48495 | 75 | | (40-140) |
| Naphthalene (C11.7) | 3.3 | 2.83041 | 86 | | (40-140) |
| n-Dodecane (C12) | 3.3 | 2.63822 | 80 | | (40-140) |
| 2-methylnaphthalene (C12.89) | 3.3 | 2.62871 | 80 | | (40-140) |
| n-Tetradecane (C14) | 3.3 | 2.65986 | 81 | | (40-140) |
| n-Hexadecane (C16) | 3.3 | 2.48197 | 75 | | (40-140) |
| n-Octadecane (C18) | 3.3 | 2.38402 | 72 | | (40-140) |
| n-Eicosane (C20) | 3.3 | 2.40465 | 73 | | (40-140) |
| n-Heneicosane (C21) | 3.3 | 2.38857 | 72 | | (40-140) |
| n-Docosane (C22) | 3.3 | 2.32008 | 70 | | (40-140) |
| n-Tetracosane (C24) | 6.7 | 4.79870 | 72 | | (40-140) |
| n-Hexacosane (C26) | 3.3 | 2.15535 | 65 | | (40-140) |
| n-Octacosane (C28) | 3.3 | 2.26277 | 69 | | (40-140) |
| n-Tricontane (C30) | 3.3 | 1.98578 | 60 | | (40-140) |
| n-Dotriacontane (C32) | 3.3 | 2.03120 | 62 | | (40-140) |
| n-Tetratriacontane (C34) | 3.3 | 2.24779 | 68 | | (40-140) |
| n-Hexatriacontane (C36) | 3.3 | 2.65040 | 80 | | (40-140) |
| n-Octatriacontane (C38) | 3.3 | 3.09295 | 94 | | (40-140) |
| n-Tetracontane (C40) | 3.3 | 3.46243 | 105 | | (40-140) |

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## SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Alliance **Client:** HDR, Inc.

**Lab Code:** ACE **SDG No:** Q3662

**Sample No :** PB170632BSD **Datafile:** FE056936.D **Client ID :** PB170632BSD

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | RPD \| | QC LIMITS (%) | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|
| Aliphatic C28-C40 | 30.0 | 24.4 | 81 | | 0.383\| | (40-140) | 25 |
| Aliphatic C9-C28 | 99.9 | 68.7 | 70 | | 0.338\| | (40-140) | 25 |

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | RPD \| | QC LIMITS(%) | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|
| n-Nonane (C9) | 3.3 | 2.32957 | 71 | | 0\| | (40-140) | 25 |
| n-Decane (C10) | 3.3 | 2.46745 | 75 | | 0\| | (40-140) | 25 |
| Naphthalene (C11.7) | 3.3 | 2.80621 | 85 | | 1.17\| | (40-140) | 25 |
| n-Dodecane (C12) | 3.3 | 2.62149 | 79 | | 1.26\| | (40-140) | 25 |
| 2-methylnaphthalene (C12.89) | 3.3 | 2.62010 | 79 | | 1.26\| | (40-140) | 25 |
| n-Tetradecane (C14) | 3.3 | 2.64707 | 80 | | 1.24\| | (40-140) | 25 |
| n-Hexadecane (C16) | 3.3 | 2.47392 | 75 | | 0\| | (40-140) | 25 |
| n-Octadecane (C18) | 3.3 | 2.38469 | 72 | | 0\| | (40-140) | 25 |
| n-Eicosane (C20) | 3.3 | 2.40560 | 73 | | 0\| | (40-140) | 25 |
| n-Heneicosane (C21) | 3.3 | 2.38719 | 72 | | 0\| | (40-140) | 25 |
| n-Docosane (C22) | 3.3 | 2.31626 | 70 | | 0\| | (40-140) | 25 |
| n-Tetracosane (C24) | 6.7 | 4.78562 | 71 | | 1.4\| | (40-140) | 25 |
| n-Hexacosane (C26) | 3.3 | 2.14747 | 65 | | 0\| | (40-140) | 25 |
| n-Octacosane (C28) | 3.3 | 2.25397 | 68 | | 1.46\| | (40-140) | 25 |
| n-Tricontane (C30) | 3.3 | 1.97512 | 60 | | 0\| | (40-140) | 25 |
| n-Dotriacontane (C32) | 3.3 | 2.02108 | 61 | | 1.63\| | (40-140) | 25 |
| n-Tetratriacontane (C34) | 3.3 | 2.23415 | 68 | | 0\| | (40-140) | 25 |
| n-Hexatriacontane (C36) | 3.3 | 2.63342 | 80 | | 0\| | (40-140) | 25 |
| n-Octatriacontane (C38) | 3.3 | 3.08316 | 93 | | 1.07\| | (40-140) | 25 |
| n-Tetracontane (C40) | 3.3 | 3.45771 | 105 | | 0\| | (40-140) | 25 |

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4B

# METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB170632BL

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG NO.: Q3662

Instrument ID: FID_E Lab Sample ID: PB170632BL

Matrix: (soil/water) Solid Date Extracted: 11/19/2025 9:45:00

Level: (low/med) low

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

| CLIENT SAMPLE NO. | LAB SAMPLE ID |
|---|---|
| PB170632BS | PB170632BS |
| PB170632BSD | PB170632BSD |
| B1-0.0-1.0-20251117 | Q3662-04 |
| EO-01-11182025MS | Q3669-01MS |
| EO-01-11182025MSD | Q3669-01MSD |

COMMENTS:

# QC SAMPLE DATA

Raw Data: **FE056934.D**

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | PB170632BL | | | SDG No.: | Q3662 |
| Lab Sample ID: | PB170632BL | | | Matrix: | Solid |
| Analytical Method: | NJEPH | | | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 g | Final Vol: | 2000 uL | Test: | EPH_NF |
| Prep Method : | | Prep Date : | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Datafile | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.18 | U | 1 | 1.18 | 2.00 | mg/kg | FE056934.D | 11/19/25 14:09 | PB170632 |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 0.91 | U | 1 | 0.91 | 4.00 | mg/kg | FE056934.D | 11/19/25 14:09 | PB170632 |
| Total AliphaticEPH | Total AliphaticEPH | 2.09 | U | | 2.09 | 6.00 | mg/kg | | | |
| Total EPH | Total EPH | 2.09 | U | | 2.09 | 6.00 | mg/kg | | | |

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

Raw Data: **FE056934.D**

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | PB170632BL | | | SDG No.: | Q3662 |
| Lab Sample ID: | PB170632BL | | | Matrix: | Solid |
| Analytical Method: | NJEPH | | | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 g | Final Vol: | 2000 uL | Test: | EPH_NF |
| Prep Method : | | Prep Date | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 0.91 | U | 1 | 0.91 | 4.00 | mg/kg | 11/19/25 | PB170632 |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.18 | U | 1 | 1.18 | 2.00 | mg/kg | 11/19/25 | PB170632 |
| **SURROGATES** | | | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 29.1 | | | 40 - 140 | 58% | SPK: 50 | | |
| 84-15-1 | ortho-Terphenyl (SURR) | 35.0 | | | 40 - 140 | 70% | SPK: 50 | | |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB170632BL | Acq On: | 19 Nov 2025 14:09 |
| Client Sample ID: | PB170632BL | Operator: | YP\AJ |
| Data file: | FE056934.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 17 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.209 | 6.832 | 0 | 0 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.833 | 10.276 | 0 | 0 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.277 | 13.648 | 0 | 0 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.649 | 17.318 | 0 | 0 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.319 | 22.247 | 0 | 0 | 600 | ug/ml |
| Aliphatic EPH | 3.209 | 22.247 | 0 | 0 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.948 | 11.948 | 7320148 | 35.04 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.384 | 13.384 | 4691521 | 29.12 | | ug/ml |
| Aliphatic C9-C28 | 3.209 | 17.318 | 0 | 0 | 1200 | ug/ml |

Raw Data: **FE056935.D**

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | PB170632BS | | | SDG No.: | Q3662 |
| Lab Sample ID: | PB170632BS | | | Matrix: | Solid |
| Analytical Method: | NJEPH | | | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 g | Final Vol: | 2000 uL | Test: | EPH_NF |
| Prep Method : | | Prep Date : | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Datafile | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 24.5 | | 1 | 1.18 | 2.00 | mg/kg | FE056935.D | 11/19/25 14:39 | PB170632 |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 68.9 | | 1 | 0.91 | 3.99 | mg/kg | FE056935.D | 11/19/25 14:39 | PB170632 |
| Total AliphaticEPH | Total AliphaticEPH | 93.4 | | | 2.09 | 5.99 | mg/kg | | | |
| Total EPH | Total EPH | 93.4 | | | 2.09 | 5.99 | mg/kg | | | |

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

Raw Data: **FE056935.D**

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | PB170632BS | | | SDG No.: | Q3662 |
| Lab Sample ID: | PB170632BS | | | Matrix: | Solid |
| Analytical Method: | NJEPH | | | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 g | Final Vol: | 2000 uL | Test: | EPH_NF |
| Prep Method : | | Prep Date | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 68.9 | | 1 | 0.91 | 3.99 | mg/kg | 11/19/25 | PB170632 |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 24.5 | | 1 | 1.18 | 2.00 | mg/kg | 11/19/25 | PB170632 |
| **SURROGATES** | | | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 30.1 | | | 40 - 140 | 60% | SPK: 50 | | |
| 84-15-1 | ortho-Terphenyl (SURR) | 34.3 | | | 40 - 140 | 69% | SPK: 50 | | |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB170632BS | Acq On: | 19 Nov 2025 14:39 |
| Client Sample ID: | PB170632BS | Operator: | YP\AJ |
| Data file: | FE056935.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 18 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.209 | 6.832 | 34744240 | 202.99 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.833 | 10.276 | 44613076 | 249.578 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.277 | 13.648 | 49316119 | 264.422 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.649 | 17.318 | 61401352 | 318.528 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.319 | 22.247 | 58526334 | 367.363 | 600 | ug/ml |
| Aliphatic EPH | 3.209 | 22.247 | 248601121 | 1400 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.946 | 11.946 | 7171296 | 34.33 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.383 | 13.383 | 4841612 | 30.05 | | ug/ml |
| Aliphatic C9-C28 | 3.209 | 17.318 | 190074787 | 1040 | 1200 | ug/ml |

Raw Data: **FE056936.D**

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | PB170632BSD | | | SDG No.: | Q3662 |
| Lab Sample ID: | PB170632BSD | | | Matrix: | Solid |
| Analytical Method: | NJEPH | | | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 g | Final Vol: | 2000 uL | Test: | EPH_NF |
| Prep Method : | | Prep Date : | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Datafile | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 24.4 | | 1 | 1.18 | 2.00 | mg/kg | FE056936.D | 11/19/25 15:09 | PB170632 |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 68.7 | | 1 | 0.91 | 3.99 | mg/kg | FE056936.D | 11/19/25 15:09 | PB170632 |
| Total AliphaticEPH | Total AliphaticEPH | 93.1 | | | 2.09 | 5.99 | mg/kg | | | |
| Total EPH | Total EPH | 93.1 | | | 2.09 | 5.99 | mg/kg | | | |

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

Raw Data: **FE056936.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | PB170632BSD | | | SDG No.: | Q3662 |
| Lab Sample ID: | PB170632BSD | | | Matrix: | Solid |
| Analytical Method: | NJEPH | | | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 g | Final Vol: | 2000 uL | Test: | EPH_NF |
| Prep Method : | | Prep Date | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 68.7 | | 1 | 0.91 | 3.99 | mg/kg | 11/19/25 | PB170632 |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 24.4 | | 1 | 1.18 | 2.00 | mg/kg | 11/19/25 | PB170632 |
| **SURROGATES** | | | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 29.6 | | | 40 - 140 | 59% | SPK: 50 | | |
| 84-15-1 | ortho-Terphenyl (SURR) | 33.7 | | | 40 - 140 | 67% | SPK: 50 | | |

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

# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB170632BSD | Acq On: | 19 Nov 2025 15:09 |
| Client Sample ID: | PB170632BSD | Operator: | YP\AJ |
| Data file: | FE056936.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 19 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.209 | 6.832 | 34487889 | 201.492 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.833 | 10.276 | 44535366 | 249.143 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.277 | 13.648 | 49205316 | 263.828 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.649 | 17.318 | 61155484 | 317.252 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.319 | 22.247 | 58352592 | 366.273 | 600 | ug/ml |
| Aliphatic EPH | 3.209 | 22.247 | 247736647 | 1400 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.946 | 11.946 | 7039398 | 33.7 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.382 | 13.382 | 4767113 | 29.59 | | ug/ml |
| Aliphatic C9-C28 | 3.209 | 17.318 | 189384055 | 1030 | 1200 | ug/ml |

Raw Data: **FE056946.D**

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | EO-01-11182025MS | | | SDG No.: | Q3662 |
| Lab Sample ID: | Q3669-01MS | | | Matrix: | Solid |
| Analytical Method: | NJEPH | | | % Solid: | 92.9 |
| Sample Wt/Vol: | 30.08 g | Final Vol: | 2000 uL | Test: | EPH_NF |
| Prep Method : | | Prep Date : | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Datafile | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 106 | E | 1 | 1.27 | 2.15 | mg/kg | FE056946.D | 11/19/25 20:11 | PB170632 |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 118 | E | 1 | 0.98 | 4.29 | mg/kg | FE056946.D | 11/19/25 20:11 | PB170632 |
| Total AliphaticEPH | Total AliphaticEPH | 224 | | | 2.25 | 6.44 | mg/kg | | | |
| Total EPH | Total EPH | 224 | | | 2.25 | 6.44 | mg/kg | | | |

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

Raw Data: **FE056946.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | EO-01-11182025MS | | | SDG No.: | Q3662 |
| Lab Sample ID: | Q3669-01MS | | | Matrix: | Solid |
| Analytical Method: | NJEPH | | | % Solid: | 92.9 |
| Sample Wt/Vol: | 30.08 g | Final Vol: | 2000 uL | Test: | EPH_NF |
| Prep Method : | | Prep Date | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 118 | E | 1 | 0.98 | 4.29 | mg/kg | 11/19/25 | PB170632 |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 106 | E | 1 | 1.27 | 2.15 | mg/kg | 11/19/25 | PB170632 |
| **SURROGATES** | | | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 55.7 | | | 40 - 140 | 111% | SPK: 50 | | |
| 84-15-1 | ortho-Terphenyl (SURR) | 35.8 | | | 40 - 140 | 72% | SPK: 50 | | |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q3669-01MS | Acq On: | 19 Nov 2025 20:11 |
| Client Sample ID: | EO-01-11182025MS | Operator: | YP\AJ |
| Data file: | FE056946.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 29 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.209 | 6.832 | 35037229 | 204.701 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.833 | 10.276 | 101230544 | 566.311 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.277 | 13.648 | 93808231 | 502.978 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.649 | 17.318 | 71532778 | 371.086 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.319 | 22.247 | 236893460 | 1490 | 600 | ug/ml |
| Aliphatic EPH | 3.209 | 22.247 | 538502242 | 3130 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.949 | 11.949 | 7470637 | 35.76 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.386 | 13.386 | 8980958 | 55.74 | | ug/ml |
| Aliphatic C9-C28 | 3.209 | 17.318 | 301608782 | 1650 | 1200 | ug/ml |

Raw Data: **FE056947.D**

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | EO-01-11182025MSD | | | SDG No.: | Q3662 |
| Lab Sample ID: | Q3669-01MSD | | | Matrix: | Solid |
| Analytical Method: | NJEPH | | | % Solid: | 92.9 |
| Sample Wt/Vol: | 30.04 g | Final Vol: | 2000 uL | Test: | EPH_NF |
| Prep Method : | | Prep Date : | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Datafile | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 102 | E | 1 | 1.27 | 2.15 | mg/kg | FE056947.D | 11/19/25 20:41 | PB170632 |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 115 | E | 1 | 0.98 | 4.29 | mg/kg | FE056947.D | 11/19/25 20:41 | PB170632 |
| Total AliphaticEPH | Total AliphaticEPH | 217 | | | 2.25 | 6.44 | mg/kg | | | |
| Total EPH | Total EPH | 217 | | | 2.25 | 6.44 | mg/kg | | | |

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

Raw Data: **FE056947.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | HDR, Inc. | | | Date Collected: | |
| Project: | PVWC Linear Construction | | | Date Received: | |
| Client Sample ID: | EO-01-11182025MSD | | | SDG No.: | Q3662 |
| Lab Sample ID: | Q3669-01MSD | | | Matrix: | Solid |
| Analytical Method: | NJEPH | | | % Solid: | 92.9 |
| Sample Wt/Vol: | 30.04 g | Final Vol: | 2000 uL | Test: | EPH_NF |
| Prep Method : | | Prep Date | 11/19/25 | | |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | Prep BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 115 | E | 1 | 0.98 | 4.29 | mg/kg | 11/19/25 | PB170632 |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 102 | E | 1 | 1.27 | 2.15 | mg/kg | 11/19/25 | PB170632 |
| **SURROGATES** | | | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 56.6 | | | 40 - 140 | 113% | SPK: 50 | | |
| 84-15-1 | ortho-Terphenyl (SURR) | 36.4 | | | 40 - 140 | 73% | SPK: 50 | | |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q3669-01MSD | Acq On: | 19 Nov 2025 20:41 |
| Client Sample ID: | EO-01-11182025MSD | Operator: | YP\AJ |
| Data file: | FE056947.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 30 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.209 | 6.832 | 35610764 | 208.052 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.833 | 10.276 | 102423455 | 572.985 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.277 | 13.648 | 82348812 | 441.536 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.649 | 17.318 | 72341816 | 375.283 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.319 | 22.247 | 226781799 | 1420 | 600 | ug/ml |
| Aliphatic EPH | 3.209 | 22.247 | 519506646 | 3020 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.951 | 11.951 | 7602978 | 36.39 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.388 | 13.388 | 9124954 | 56.64 | | ug/ml |
| Aliphatic C9-C28 | 3.209 | 17.318 | 292724847 | 1600 | 1200 | ug/ml |

# CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# Inital Calibration Report for SequenceID : FE103025AL

**AreaCount**

| Parameter Range | FE056575.D | FE056576.D | FE056577.D | FE056578.D | FE056579.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 47378340.000 | 25372826.000 | 10134874.000 | 5323968.000 | 2735296.000 | |
| Aliphatic C12-C16 | 32958436.000 | 17867364.000 | 7039199.000 | 3707774.000 | 1889371.000 | |
| Aliphatic C16-C21 | 50634896.000 | 27807189.000 | 10962966.000 | 5844076.000 | 3012669.000 | |
| Aliphatic C21-C28 | 65391355.000 | 36849784.000 | 14322959.000 | 8150425.000 | 4666116.000 | |
| Aliphatic C28-C40 | 76863576.000 | 43549713.000 | 17723612.000 | 10141838.000 | 6197225.000 | |
| Aliphatic EPH | 273226603.000 | 151446876.000 | 60183610.000 | 33168081.000 | 18500677.000 | |

**AVG Response Factor**

| Parameter Range | AVG RF | % RSD | | | | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 171162.641333 | 5.459 | | | | |
| Aliphatic C12-C16 | 178754.319 | 5.236 | | | | |
| Aliphatic C16-C21 | 186505.4959998 | 6.59 | | | | |
| Aliphatic C21-C28 | 192766.144 | 13.927 | | | | |
| Aliphatic C28-C40 | 159314.647333 | 18.927 | | | | |
| Aliphatic EPH | 175414.750555 | 11.628 | | | | |

**Concentration**

| Parameter Range | FE056575.D | FE056576.D | FE056577.D | FE056578.D | FE056579.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 | FE056575.D | FE056576.D | FE056577.D | FE056578.D | FE056579.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 157927.800000 | 169152.173333 | 168914.566666 | 177465.600000 | 182353.066666 | |
| Aliphatic C12-C16 | 164792.180000 | 178673.640000 | 175979.975000 | 185388.700000 | 188937.100000 | |
| Aliphatic C16-C21 | 168782.986666 | 185381.260000 | 182716.100000 | 194802.533333 | 200844.600000 | |

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# Inital Calibration Report for SequenceID : FE103025AL

| | | | | | | |
|---|---|---|---|---|---|---|
| Aliphatic C21-C28 | 163478.387500 | 184248.920000 | 179036.987500 | 203760.625000 | 233305.800000 | |
| Aliphatic C28-C40 | 128105.960000 | 145165.710000 | 147696.766666 | 169030.633333 | 206574.166666 | |
| Aliphatic EPH | 151792.557222 | 168274.306666 | 167176.694444 | 184267.116666 | 205563.077777 | |

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

# Continuing Calibration Report for SequenceID : FE111925AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FE056933.D** | | | | | | |
| Aliphatic C9-C12 | 10853352.000 | 60.000 | 3.209 | 6.832 | 180889.200 | 171162.641 | -5.683 |
| Aliphatic C12-C16 | 7859238.000 | 40.000 | 6.833 | 10.276 | 196480.950 | 178754.319 | -9.917 |
| Aliphatic C16-C21 | 11590539.000 | 60.000 | 10.277 | 13.648 | 193175.650 | 186505.496 | -3.576 |
| Aliphatic C21-C28 | 15245799.000 | 80.000 | 13.649 | 17.318 | 190572.488 | 192766.144 | 1.138 |
| Aliphatic C28-C40 | 21766711.000 | 120.000 | 17.319 | 22.247 | 181389.258 | 159314.647 | -13.856 |
| Aliphatic EPH | 67315639.000 | 360.000 | 3.209 | 22.247 | 186987.886 | 175414.751 | -6.598 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 19 Nov 2025 12:53 |
| Client Sample ID: | | Operator: | YP\AJ |
| Data file: | FE056933.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 3 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.209 | 6.832 | 10853352.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.833 | 10.276 | 7859238.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 10.277 | 13.648 | 11590539.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.649 | 17.318 | 15245799.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 17.319 | 22.247 | 21766711.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.209 | 22.247 | 67315639.000 | 360.000 | ug/ml |

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

# Continuing Calibration Report for SequenceID : FE111925AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FE056951.D** | | | | | | |
| Aliphatic C9-C12 | 10640577.000 | 60.000 | 3.209 | 6.832 | 177342.950 | 171162.641 | -3.611 |
| Aliphatic C12-C16 | 7687864.000 | 40.000 | 6.833 | 10.276 | 192196.600 | 178754.319 | -7.520 |
| Aliphatic C16-C21 | 11208454.000 | 60.000 | 10.277 | 13.648 | 186807.567 | 186505.496 | -0.162 |
| Aliphatic C21-C28 | 14779353.000 | 80.000 | 13.649 | 17.318 | 184741.913 | 192766.144 | 4.163 |
| Aliphatic C28-C40 | 22123582.000 | 120.000 | 17.319 | 22.247 | 184363.183 | 159314.647 | -15.723 |
| Aliphatic EPH | 66439830.000 | 360.000 | 3.209 | 22.247 | 184555.083 | 175414.751 | -5.211 |

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

| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 19 Nov 2025 23:12 |
| Client Sample ID: | | Operator: | YP\AJ |
| Data file: | FE056951.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 3 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.209 | 6.832 | 10640577.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.833 | 10.276 | 7687864.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 10.277 | 13.648 | 11208454.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.649 | 17.318 | 14779353.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 17.319 | 22.247 | 22123582.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.209 | 22.247 | 66439830.000 | 360.000 | ug/ml |

# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111925AL\
Data File : FE056937.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 15:39
Operator : YP\AJ
Sample : Q3662-04
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
FID_E
**ClientSampleId :**
B1-0.0-1.0-20251117

Integration File: autoint1.E
Quant Time: Nov 20 01:24:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Tue Nov 18 13:37:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 9) S ortho-Terphenyl (SURR) | 11.945 | 5850823 | 28.006 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 56.01% |
| 12) S 1-chlorooctadecane (S... | 13.381 | 4236962 | 26.297 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 52.59% |
| Target Compounds | | | |

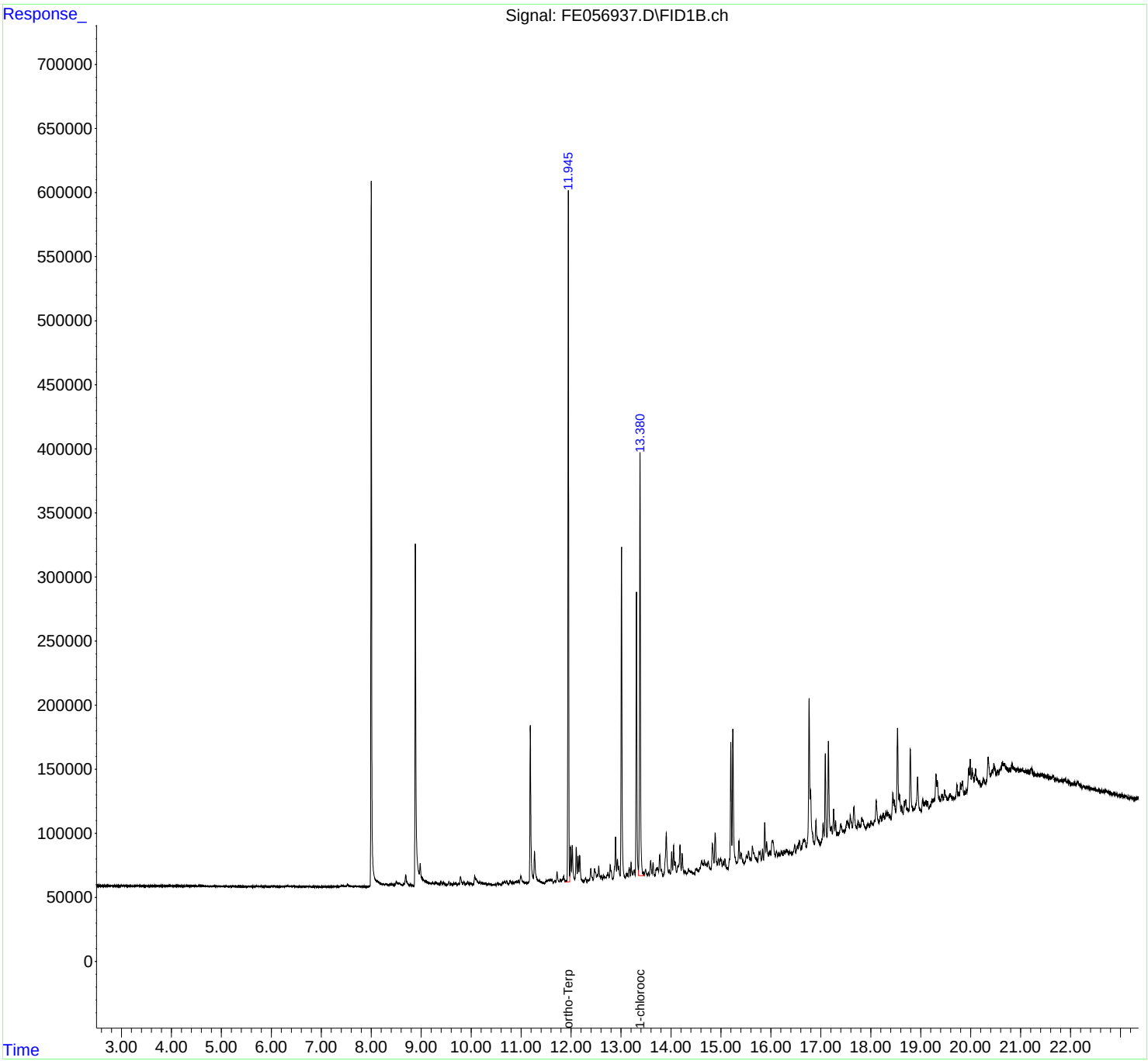
(f)=RT Delta > 1/2 Window (m)=manual int.

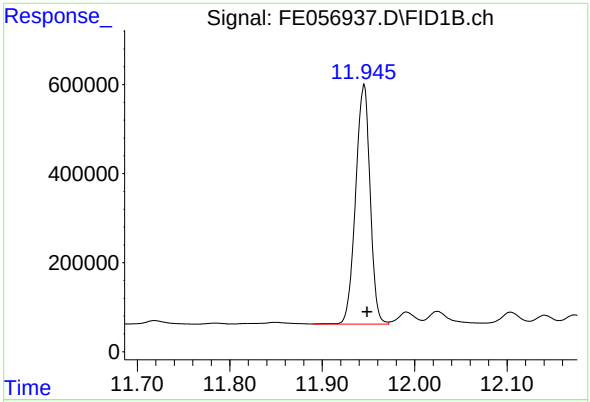
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111925AL\
Data File : FE056937.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 15:39
Operator : YP\AJ
Sample : Q3662-04
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
FID_E
**ClientSampleId :**
B1-0.0-1.0-20251117

Integration File: autoint1.E
Quant Time: Nov 20 01:24:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Tue Nov 18 13:37:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

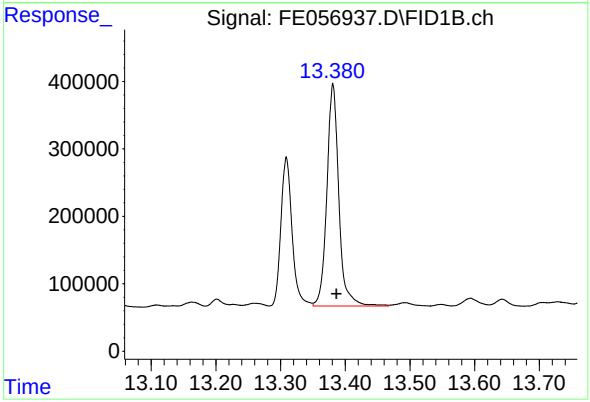





#9 ortho-Terphenyl (SURR)

R.T.: 11.945 min
Delta R.T.: -0.004 min
Response: 5850823
Conc: 28.01 ug/ml

**Instrument :**
FID_E
**ClientSampleId :**
B1-0.0-1.0-20251117




#12 1-chlorooctadecane (SURR)

R.T.: 13.381 min
Delta R.T.: -0.005 min
Response: 4236962
Conc: 26.30 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111925AL\
Data File : FE056937.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 15:39
Sample : Q3662-04
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.552 | 2.524 | 2.611 | BV | 64 | -501 | -0.01% | -0.000% |
| 2 | 2.624 | 2.611 | 2.720 | PV | 141 | 1717 | 0.03% | 0.002% |
| 3 | 2.739 | 2.720 | 2.771 | VV | 186 | 3446 | 0.06% | 0.003% |
| 4 | 2.776 | 2.771 | 2.791 | VV | 95 | 910 | 0.02% | 0.001% |
| 5 | 2.797 | 2.791 | 2.850 | PV | 88 | 3259 | 0.06% | 0.003% |
| 6 | 2.860 | 2.850 | 2.928 | VV | 197 | 4698 | 0.08% | 0.004% |
| 7 | 2.935 | 2.928 | 2.954 | VV | 118 | 1457 | 0.02% | 0.001% |
| 8 | 2.998 | 2.954 | 3.074 | VV | 226 | 10536 | 0.18% | 0.010% |
| 9 | 3.085 | 3.074 | 3.158 | VV | 217 | 5607 | 0.10% | 0.005% |
| 10 | 3.166 | 3.158 | 3.261 | VV | 184 | 6635 | 0.11% | 0.006% |
| 11 | 3.271 | 3.261 | 3.284 | VV | 151 | 2036 | 0.03% | 0.002% |
| 12 | 3.306 | 3.284 | 3.354 | VV | 680 | 13105 | 0.22% | 0.012% |
| 13 | 3.366 | 3.354 | 3.378 | VV | 255 | 2791 | 0.05% | 0.003% |
| 14 | 3.386 | 3.378 | 3.411 | VV | 202 | 3140 | 0.05% | 0.003% |
| 15 | 3.426 | 3.411 | 3.464 | VV | 244 | 5884 | 0.10% | 0.005% |
| 16 | 3.474 | 3.464 | 3.508 | VV | 232 | 4660 | 0.08% | 0.004% |
| 17 | 3.555 | 3.508 | 3.603 | VV | 227 | 10827 | 0.18% | 0.010% |
| 18 | 3.616 | 3.603 | 3.638 | VV | 284 | 4453 | 0.08% | 0.004% |
| 19 | 3.663 | 3.638 | 3.724 | VV | 317 | 9221 | 0.16% | 0.009% |
| 20 | 3.734 | 3.724 | 3.742 | VV | 245 | 1891 | 0.03% | 0.002% |
| 21 | 3.757 | 3.742 | 3.780 | VV | 267 | 5620 | 0.10% | 0.005% |
| 22 | 3.802 | 3.780 | 3.826 | VV | 480 | 9875 | 0.17% | 0.009% |
| 23 | 3.834 | 3.826 | 3.849 | VV | 332 | 4178 | 0.07% | 0.004% |
| 24 | 3.857 | 3.849 | 3.869 | VV | 282 | 2830 | 0.05% | 0.003% |
| 25 | 3.892 | 3.869 | 3.904 | VV | 291 | 5006 | 0.09% | 0.005% |
| 26 | 3.930 | 3.904 | 3.978 | VV | 367 | 13700 | 0.23% | 0.013% |
| 27 | 3.994 | 3.978 | 4.038 | VV | 401 | 11276 | 0.19% | 0.010% |
| 28 | 4.051 | 4.038 | 4.091 | VV | 304 | 9431 | 0.16% | 0.009% |
| 29 | 4.105 | 4.091 | 4.121 | VV | 373 | 5855 | 0.10% | 0.005% |
| 30 | 4.134 | 4.121 | 4.152 | VV | 374 | 5803 | 0.10% | 0.005% |
| 31 | 4.166 | 4.152 | 4.188 | VV | 377 | 6169 | 0.11% | 0.006% |

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|---|---|---|---|---|---|---|---|---|
| 32 | 4.208 | 4.188 | 4.232 | VV | 278 | 6368 | 0.11% | 0.006% |
| 33 | 4.252 | 4.232 | 4.266 | VV | 300 | 5094 | 0.09% | 0.005% |
| 34 | 4.301 | 4.266 | 4.348 | VV | 482 | 18704 | 0.32% | 0.017% |
| 35 | 4.358 | 4.348 | 4.365 | VV | 395 | 3808 | 0.06% | 0.004% |
| 36 | 4.371 | 4.365 | 4.408 | VV | 409 | 9409 | 0.16% | 0.009% |
| 37 | 4.423 | 4.408 | 4.484 | VV | 405 | 15720 | 0.27% | 0.015% |
| 38 | 4.487 | 4.484 | 4.498 | VV | 409 | 2638 | 0.04% | 0.002% |
| 39 | 4.502 | 4.498 | 4.524 | VV | 359 | 4627 | 0.08% | 0.004% |
| 40 | 4.560 | 4.524 | 4.581 | VV | 851 | 16225 | 0.28% | 0.015% |
| 41 | 4.606 | 4.581 | 4.634 | VV | 696 | 15370 | 0.26% | 0.014% |
| 42 | 4.642 | 4.634 | 4.704 | VV | 395 | 10746 | 0.18% | 0.010% |
| 43 | 4.716 | 4.704 | 4.723 | VV | 207 | 1878 | 0.03% | 0.002% |
| 44 | 4.749 | 4.723 | 4.764 | VV | 278 | 4901 | 0.08% | 0.005% |
| 45 | 4.777 | 4.764 | 4.791 | VV | 209 | 2760 | 0.05% | 0.003% |
| 46 | 4.835 | 4.791 | 4.883 | VV | 406 | 15358 | 0.26% | 0.014% |
| 47 | 4.897 | 4.883 | 4.907 | VV | 293 | 3564 | 0.06% | 0.003% |
| 48 | 4.920 | 4.907 | 4.971 | VV | 250 | 7124 | 0.12% | 0.007% |
| 49 | 4.982 | 4.971 | 4.990 | VV | 180 | 1907 | 0.03% | 0.002% |
| 50 | 5.001 | 4.990 | 5.029 | VV | 225 | 4178 | 0.07% | 0.004% |
| 51 | 5.066 | 5.029 | 5.144 | VV | 292 | 12989 | 0.22% | 0.012% |
| 52 | 5.153 | 5.144 | 5.211 | VV | 195 | 4447 | 0.08% | 0.004% |
| 53 | 5.231 | 5.211 | 5.256 | VV | 215 | 4220 | 0.07% | 0.004% |
| 54 | 5.270 | 5.256 | 5.305 | VV | 218 | 4966 | 0.08% | 0.005% |
| 55 | 5.312 | 5.305 | 5.328 | VV | 195 | 1953 | 0.03% | 0.002% |
| 56 | 5.339 | 5.328 | 5.347 | VV | 144 | 1395 | 0.02% | 0.001% |
| 57 | 5.358 | 5.347 | 5.378 | VV | 190 | 2907 | 0.05% | 0.003% |
| 58 | 5.380 | 5.378 | 5.398 | VV | 167 | 1468 | 0.03% | 0.001% |
| 59 | 5.407 | 5.398 | 5.438 | VV | 148 | 2674 | 0.05% | 0.002% |
| 60 | 5.465 | 5.438 | 5.519 | VV | 205 | 6742 | 0.11% | 0.006% |
| 61 | 5.566 | 5.519 | 5.628 | VV | 250 | 9890 | 0.17% | 0.009% |
| 62 | 5.641 | 5.628 | 5.680 | PV | 140 | 3205 | 0.05% | 0.003% |
| 63 | 5.703 | 5.680 | 5.722 | VV | 523 | 7565 | 0.13% | 0.007% |
| 64 | 5.734 | 5.722 | 5.814 | VV | 490 | 12080 | 0.21% | 0.011% |
| 65 | 5.821 | 5.814 | 5.836 | VV | 158 | 2020 | 0.03% | 0.002% |
| 66 | 5.864 | 5.836 | 5.915 | VV | 233 | 7532 | 0.13% | 0.007% |
| 67 | 5.926 | 5.915 | 5.973 | VV | 130 | 2704 | 0.05% | 0.002% |
| 68 | 5.998 | 5.973 | 6.034 | VV | 322 | 8681 | 0.15% | 0.008% |
| 69 | 6.054 | 6.034 | 6.158 | VV | 375 | 13608 | 0.23% | 0.013% |
| 70 | 6.176 | 6.158 | 6.211 | VV | 159 | 3112 | 0.05% | 0.003% |
| 71 | 6.221 | 6.211 | 6.254 | VV | 160 | 2432 | 0.04% | 0.002% |
| 72 | 6.271 | 6.254 | 6.284 | VV | 171 | 2270 | 0.04% | 0.002% |
| 73 | 6.312 | 6.284 | 6.424 | VV | 657 | 32872 | 0.56% | 0.030% |
| 74 | 6.436 | 6.424 | 6.495 | VV | 481 | 10466 | 0.18% | 0.010% |
| 75 | 6.505 | 6.495 | 6.537 | VV | 163 | 3774 | 0.06% | 0.003% |
| 76 | 6.564 | 6.537 | 6.587 | VV | 282 | 5437 | 0.09% | 0.005% |
| 77 | 6.625 | 6.587 | 6.644 | VV | 230 | 5980 | 0.10% | 0.006% |
| 78 | 6.654 | 6.644 | 6.718 | VV | 216 | 8088 | 0.14% | 0.007% |
| 79 | 6.733 | 6.718 | 6.771 | VV | 698 | 9518 | 0.16% | 0.009% |

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|---|---|---|---|---|---|---|---|---|
| 80 | 6.777 | 6.771 | 6.791 | VV | 119 | 1384 | 0.02% | 0.001% |
| 81 | 6.884 | 6.791 | 6.904 | VV | 236 | 9404 | 0.16% | 0.009% |
| 82 | 6.920 | 6.904 | 6.955 | VV | 190 | 3759 | 0.06% | 0.003% |
| 83 | 6.968 | 6.955 | 6.980 | VV | 138 | 1099 | 0.02% | 0.001% |
| 84 | 7.072 | 6.980 | 7.118 | PV | 188 | 8507 | 0.15% | 0.008% |
| 85 | 7.155 | 7.118 | 7.195 | VV | 236 | 7078 | 0.12% | 0.007% |
| 86 | 7.202 | 7.195 | 7.217 | VV | 213 | 2085 | 0.04% | 0.002% |
| 87 | 7.238 | 7.217 | 7.261 | VV | 216 | 4405 | 0.08% | 0.004% |
| 88 | 7.267 | 7.261 | 7.281 | VV | 149 | 1776 | 0.03% | 0.002% |
| 89 | 7.312 | 7.281 | 7.337 | VV | 234 | 5785 | 0.10% | 0.005% |
| 90 | 7.355 | 7.337 | 7.377 | VV | 245 | 4735 | 0.08% | 0.004% |
| 91 | 7.404 | 7.377 | 7.440 | VV | 1046 | 28095 | 0.48% | 0.026% |
| 92 | 7.451 | 7.440 | 7.495 | VV | 762 | 18562 | 0.32% | 0.017% |
| 93 | 7.525 | 7.495 | 7.621 | VV | 2204 | 62850 | 1.07% | 0.058% |
| 94 | 7.630 | 7.621 | 7.652 | VV | 455 | 6879 | 0.12% | 0.006% |
| 95 | 7.681 | 7.652 | 7.728 | VV | 643 | 15806 | 0.27% | 0.015% |
| 96 | 7.738 | 7.728 | 7.746 | VV | 217 | 1967 | 0.03% | 0.002% |
| 97 | 7.765 | 7.746 | 7.825 | VV | 231 | 5675 | 0.10% | 0.005% |
| 98 | 7.854 | 7.825 | 7.937 | VV | 199 | 4302 | 0.07% | 0.004% |
| 99 | 8.293 | 8.273 | 8.344 | VV | 2052 | 69955 | 1.19% | 0.065% |
| 100 | 8.391 | 8.344 | 8.416 | VV | 1711 | 62159 | 1.06% | 0.057% |
| 101 | 8.424 | 8.416 | 8.477 | VV | 1593 | 47736 | 0.81% | 0.044% |
| 102 | 8.501 | 8.477 | 8.519 | VV | 4277 | 68090 | 1.16% | 0.063% |
| 103 | 8.533 | 8.519 | 8.551 | VV | 2824 | 45391 | 0.77% | 0.042% |
| 104 | 8.565 | 8.551 | 8.629 | VV | 2647 | 76531 | 1.30% | 0.071% |
| 105 | 8.689 | 8.629 | 8.757 | VV | 8910 | 230856 | 3.94% | 0.213% |
| 106 | 8.777 | 8.757 | 8.853 | VV | 1546 | 41638 | 0.71% | 0.038% |
| 107 | 8.979 | 8.961 | 9.202 | VV | 17742 | 734200 | 12.52% | 0.677% |
| 108 | 9.226 | 9.202 | 9.251 | VV | 2521 | 60888 | 1.04% | 0.056% |
| 109 | 9.300 | 9.251 | 9.374 | VV | 2648 | 147066 | 2.51% | 0.136% |
| 110 | 9.396 | 9.374 | 9.421 | VV | 3302 | 61104 | 1.04% | 0.056% |
| 111 | 9.442 | 9.421 | 9.504 | VV | 2703 | 73619 | 1.26% | 0.068% |
| 112 | 9.553 | 9.504 | 9.577 | VV | 3179 | 64138 | 1.09% | 0.059% |
| 113 | 9.594 | 9.577 | 9.631 | VV | 1843 | 38111 | 0.65% | 0.035% |
| 114 | 9.653 | 9.631 | 9.664 | VV | 1525 | 25073 | 0.43% | 0.023% |
| 115 | 9.691 | 9.664 | 9.719 | VV | 2101 | 49483 | 0.84% | 0.046% |
| 116 | 9.740 | 9.719 | 9.759 | VV | 1428 | 25683 | 0.44% | 0.024% |
| 117 | 9.786 | 9.759 | 9.834 | VV | 6875 | 155041 | 2.64% | 0.143% |
| 118 | 9.854 | 9.834 | 9.882 | VV | 2788 | 53611 | 0.91% | 0.049% |
| 119 | 9.899 | 9.882 | 9.910 | VV | 1385 | 21443 | 0.37% | 0.020% |
| 120 | 9.931 | 9.910 | 9.968 | VV | 2721 | 60561 | 1.03% | 0.056% |
| 121 | 9.987 | 9.968 | 10.032 | VV | 1465 | 41625 | 0.71% | 0.038% |
| 122 | 10.072 | 10.032 | 10.096 | VV | 7001 | 140315 | 2.39% | 0.129% |
| 123 | 10.105 | 10.096 | 10.157 | VV | 4712 | 116249 | 1.98% | 0.107% |
| 124 | 10.175 | 10.157 | 10.197 | VV | 3233 | 55358 | 0.94% | 0.051% |
| 125 | 10.217 | 10.197 | 10.256 | VV | 2074 | 55291 | 0.94% | 0.051% |
| 126 | 10.286 | 10.256 | 10.334 | VV | 1407 | 48359 | 0.82% | 0.045% |

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|---|---|---|---|---|---|---|---|---|
| 127 | 10.354 | 10.334 | 10.433 | VV | 1233 | 32579 | 0.56% | 0.030% |
| 128 | 10.448 | 10.433 | 10.471 | PV | 214 | 3081 | 0.05% | 0.003% |
| 129 | 10.489 | 10.471 | 10.498 | VV | 250 | 3099 | 0.05% | 0.003% |
| 130 | 10.525 | 10.498 | 10.588 | VV | 1363 | 39407 | 0.67% | 0.036% |
| 131 | 10.628 | 10.588 | 10.641 | VV | 1842 | 26943 | 0.46% | 0.025% |
| 132 | 10.670 | 10.641 | 10.690 | VV | 2364 | 53726 | 0.92% | 0.050% |
| 133 | 10.710 | 10.690 | 10.743 | VV | 2970 | 52112 | 0.89% | 0.048% |
| 134 | 10.779 | 10.743 | 10.821 | VV | 3132 | 67361 | 1.15% | 0.062% |
| 135 | 10.841 | 10.821 | 10.860 | VV | 1683 | 27971 | 0.48% | 0.026% |
| 136 | 10.881 | 10.860 | 10.896 | VV | 1964 | 35150 | 0.60% | 0.032% |
| 137 | 10.914 | 10.896 | 10.931 | VV | 2884 | 44065 | 0.75% | 0.041% |
| 138 | 10.948 | 10.931 | 10.966 | VV | 3153 | 43376 | 0.74% | 0.040% |
| 139 | 10.996 | 10.966 | 11.074 | VV | 6071 | 180310 | 3.07% | 0.166% |
| 140 | 11.089 | 11.074 | 11.118 | VV | 1450 | 24167 | 0.41% | 0.022% |
| 141 | 11.184 | 11.118 | 11.244 | VV | 122875 | 1717219 | 29.28% | 1.584% |
| 142 | 11.268 | 11.244 | 11.352 | VV | 25121 | 545760 | 9.30% | 0.503% |
| 143 | 11.364 | 11.352 | 11.471 | VV | 2175 | 67112 | 1.14% | 0.062% |
| 144 | 11.502 | 11.471 | 11.517 | PV | 2213 | 32769 | 0.56% | 0.030% |
| 145 | 11.552 | 11.517 | 11.567 | VV | 2739 | 62473 | 1.07% | 0.058% |
| 146 | 11.585 | 11.567 | 11.603 | VV | 2912 | 49131 | 0.84% | 0.045% |
| 147 | 11.619 | 11.603 | 11.643 | VV | 3114 | 41779 | 0.71% | 0.039% |
| 148 | 11.674 | 11.643 | 11.691 | VV | 1779 | 30267 | 0.52% | 0.028% |
| 149 | 11.719 | 11.691 | 11.764 | VV | 8644 | 145142 | 2.47% | 0.134% |
| 150 | 11.785 | 11.764 | 11.803 | VV | 2826 | 38959 | 0.66% | 0.036% |
| 151 | 11.849 | 11.803 | 11.891 | VV | 4463 | 113734 | 1.94% | 0.105% |
| 152 | 11.945 | 11.891 | 11.972 | VV | 534882 | 5865488 | 100.00% | 5.410% |
| 153 | 11.991 | 11.972 | 12.008 | VV | 27427 | 344596 | 5.87% | 0.318% |
| 154 | 12.025 | 12.008 | 12.074 | VV | 28625 | 451021 | 7.69% | 0.416% |
| 155 | 12.104 | 12.074 | 12.124 | VV | 26750 | 383371 | 6.54% | 0.354% |
| 156 | 12.141 | 12.124 | 12.157 | VV | 19817 | 257207 | 4.39% | 0.237% |
| 157 | 12.173 | 12.157 | 12.258 | VV | 20459 | 335678 | 5.72% | 0.310% |
| 158 | 12.291 | 12.258 | 12.315 | VV | 2546 | 38771 | 0.66% | 0.036% |
| 159 | 12.333 | 12.315 | 12.347 | PV | 992 | 13035 | 0.22% | 0.012% |
| 160 | 12.395 | 12.347 | 12.443 | VV | 9742 | 195329 | 3.33% | 0.180% |
| 161 | 12.469 | 12.443 | 12.511 | VV | 9450 | 224718 | 3.83% | 0.207% |
| 162 | 12.554 | 12.511 | 12.590 | VV | 11375 | 249409 | 4.25% | 0.230% |
| 163 | 12.610 | 12.590 | 12.628 | VV | 2944 | 55299 | 0.94% | 0.051% |
| 164 | 12.647 | 12.628 | 12.659 | VV | 3196 | 43709 | 0.75% | 0.040% |
| 165 | 12.670 | 12.659 | 12.701 | VV | 2641 | 54863 | 0.94% | 0.051% |
| 166 | 12.738 | 12.701 | 12.764 | VV | 5970 | 130478 | 2.22% | 0.120% |
| 167 | 12.784 | 12.764 | 12.835 | VV | 11582 | 222351 | 3.79% | 0.205% |
| 168 | 12.891 | 12.835 | 12.911 | VV | 32907 | 525669 | 8.96% | 0.485% |
| 169 | 12.928 | 12.911 | 12.945 | VV | 15498 | 230315 | 3.93% | 0.212% |
| 170 | 12.955 | 12.945 | 12.984 | VV | 10173 | 141710 | 2.42% | 0.131% |
| 171 | 13.010 | 12.984 | 13.087 | VV | 260622 | 3282093 | 55.96% | 3.027% |
| 172 | 13.109 | 13.087 | 13.124 | VV | 3848 | 54989 | 0.94% | 0.051% |
| 173 | 13.164 | 13.124 | 13.184 | VV | 7869 | 156597 | 2.67% | 0.144% |
| 174 | 13.202 | 13.184 | 13.240 | VV | 12265 | 200845 | 3.42% | 0.185% |

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|---|---|---|---|---|---|---|---|---|
| 175 | 13.260 | 13.240 | 13.282 | VV | 5928 | 110039 | 1.88% | 0.101% |
| 176 | 13.309 | 13.282 | 13.349 | VV | 220310 | 2715957 | 46.30% | 2.505% |
| 177 | 13.381 | 13.349 | 13.467 | VV | 330735 | 4348818 | 74.14% | 4.011% |
| 178 | 13.492 | 13.467 | 13.530 | VV | 6198 | 132387 | 2.26% | 0.122% |
| 179 | 13.548 | 13.530 | 13.565 | VV | 3474 | 48506 | 0.83% | 0.045% |
| 180 | 13.593 | 13.565 | 13.622 | VV | 12635 | 220903 | 3.77% | 0.204% |
| 181 | 13.642 | 13.622 | 13.676 | VV | 10979 | 160200 | 2.73% | 0.148% |
| 182 | 13.706 | 13.676 | 13.713 | VV | 5896 | 74056 | 1.26% | 0.068% |
| 183 | 13.729 | 13.713 | 13.752 | VV | 6932 | 132561 | 2.26% | 0.122% |
| 184 | 13.775 | 13.752 | 13.840 | VV | 16647 | 350232 | 5.97% | 0.323% |
| 185 | 13.906 | 13.840 | 13.950 | PV | 33621 | 729684 | 12.44% | 0.673% |
| 186 | 13.966 | 13.950 | 13.986 | VV | 4492 | 64375 | 1.10% | 0.059% |
| 187 | 14.014 | 13.986 | 14.034 | VV | 18288 | 247838 | 4.23% | 0.229% |
| 188 | 14.053 | 14.034 | 14.074 | VV | 23305 | 321134 | 5.47% | 0.296% |
| 189 | 14.085 | 14.074 | 14.113 | VV | 10174 | 153803 | 2.62% | 0.142% |
| 190 | 14.139 | 14.113 | 14.151 | VV | 6815 | 113220 | 1.93% | 0.104% |
| 191 | 14.181 | 14.151 | 14.205 | VV | 23177 | 389445 | 6.64% | 0.359% |
| 192 | 14.225 | 14.205 | 14.271 | VV | 16281 | 270532 | 4.61% | 0.250% |
| 193 | 14.287 | 14.271 | 14.325 | VV | 2217 | 39899 | 0.68% | 0.037% |
| 194 | 14.350 | 14.325 | 14.398 | VV | 3429 | 87779 | 1.50% | 0.081% |
| 195 | 14.413 | 14.398 | 14.451 | VV | 1535 | 30123 | 0.51% | 0.028% |
| 196 | 14.460 | 14.451 | 14.472 | VV | 456 | 3094 | 0.05% | 0.003% |
| 197 | 14.499 | 14.472 | 14.534 | PV | 3491 | 86593 | 1.48% | 0.080% |
| 198 | 14.543 | 14.534 | 14.558 | VV | 2103 | 25808 | 0.44% | 0.024% |
| 199 | 14.614 | 14.558 | 14.631 | VV | 9026 | 238765 | 4.07% | 0.220% |
| 200 | 14.641 | 14.631 | 14.653 | VV | 6990 | 86064 | 1.47% | 0.079% |
| 201 | 14.669 | 14.653 | 14.687 | VV | 9569 | 146484 | 2.50% | 0.135% |
| 202 | 14.702 | 14.687 | 14.722 | VV | 6610 | 120174 | 2.05% | 0.111% |
| 203 | 14.746 | 14.722 | 14.794 | VV | 8309 | 213319 | 3.64% | 0.197% |
| 204 | 14.829 | 14.794 | 14.860 | VV | 21645 | 435866 | 7.43% | 0.402% |
| 205 | 14.885 | 14.860 | 14.929 | VV | 29599 | 576185 | 9.82% | 0.531% |
| 206 | 14.948 | 14.929 | 14.966 | VV | 9043 | 153709 | 2.62% | 0.142% |
| 207 | 14.999 | 14.966 | 15.027 | VV | 8401 | 240372 | 4.10% | 0.222% |
| 208 | 15.046 | 15.027 | 15.062 | VV | 6476 | 97801 | 1.67% | 0.090% |
| 209 | 15.080 | 15.062 | 15.143 | VV | 8322 | 159159 | 2.71% | 0.147% |
| 210 | 15.198 | 15.143 | 15.219 | PV | 98298 | 1339151 | 22.83% | 1.235% |
| 211 | 15.239 | 15.219 | 15.325 | VV | 108407 | 1804720 | 30.77% | 1.665% |
| 212 | 15.360 | 15.325 | 15.384 | VV | 20023 | 353957 | 6.03% | 0.326% |
| 213 | 15.403 | 15.384 | 15.463 | VV | 9988 | 274642 | 4.68% | 0.253% |
| 214 | 15.509 | 15.463 | 15.530 | VV | 6997 | 173973 | 2.97% | 0.160% |
| 215 | 15.552 | 15.530 | 15.579 | VV | 10535 | 216952 | 3.70% | 0.200% |
| 216 | 15.587 | 15.579 | 15.605 | VV | 4670 | 60886 | 1.04% | 0.056% |
| 217 | 15.631 | 15.605 | 15.734 | VV | 12851 | 458822 | 7.82% | 0.423% |
| 218 | 15.761 | 15.734 | 15.772 | VV | 7959 | 105059 | 1.79% | 0.097% |
| 219 | 15.785 | 15.772 | 15.807 | VV | 7908 | 107804 | 1.84% | 0.099% |
| 220 | 15.833 | 15.807 | 15.852 | VV | 9751 | 128330 | 2.19% | 0.118% |
| 221 | 15.877 | 15.852 | 15.900 | VV | 30019 | 436423 | 7.44% | 0.403% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 222 | 15.916 | 15.900 | 15.951 | VV | 14528 | 261713 | 4.46% | 0.241% |
| 223 | 15.981 | 15.951 | 15.999 | VV | 6685 | 149777 | 2.55% | 0.138% |
| 224 | 16.038 | 15.999 | 16.091 | VV | 15034 | 510558 | 8.70% | 0.471% |
| 225 | 16.110 | 16.091 | 16.137 | VV | 5233 | 109825 | 1.87% | 0.101% |
| 226 | 16.159 | 16.137 | 16.184 | VV | 3173 | 71938 | 1.23% | 0.066% |
| 227 | 16.206 | 16.184 | 16.243 | VV | 4694 | 107822 | 1.84% | 0.099% |
| 228 | 16.263 | 16.243 | 16.280 | VV | 4582 | 72583 | 1.24% | 0.067% |
| 229 | 16.300 | 16.280 | 16.359 | VV | 4595 | 165534 | 2.82% | 0.153% |
| 230 | 16.378 | 16.359 | 16.428 | VV | 3023 | 75880 | 1.29% | 0.070% |
| 231 | 16.478 | 16.428 | 16.501 | VV | 7511 | 152369 | 2.60% | 0.141% |
| 232 | 16.531 | 16.501 | 16.540 | VV | 5734 | 94544 | 1.61% | 0.087% |
| 233 | 16.572 | 16.540 | 16.604 | VV | 9661 | 257635 | 4.39% | 0.238% |
| 234 | 16.646 | 16.604 | 16.658 | VV | 9652 | 214004 | 3.65% | 0.197% |
| 235 | 16.678 | 16.658 | 16.710 | VV | 9610 | 235223 | 4.01% | 0.217% |
| 236 | 16.766 | 16.710 | 16.873 | VV | 118776 | 2869212 | 48.92% | 2.647% |
| 237 | 16.903 | 16.873 | 16.987 | VV | 22937 | 649826 | 11.08% | 0.599% |
| 238 | 17.046 | 16.987 | 17.065 | VV | 19393 | 435794 | 7.43% | 0.402% |
| 239 | 17.090 | 17.065 | 17.123 | VV | 73784 | 1098424 | 18.73% | 1.013% |
| 240 | 17.152 | 17.123 | 17.194 | VV | 82529 | 1442931 | 24.60% | 1.331% |
| 241 | 17.212 | 17.194 | 17.234 | VV | 15355 | 320457 | 5.46% | 0.296% |
| 242 | 17.256 | 17.234 | 17.280 | VV | 28720 | 520657 | 8.88% | 0.480% |
| 243 | 17.296 | 17.280 | 17.321 | VV | 19014 | 337168 | 5.75% | 0.311% |
| 244 | 17.337 | 17.321 | 17.347 | VV | 9685 | 135914 | 2.32% | 0.125% |
| 245 | 17.398 | 17.347 | 17.443 | VV | 16120 | 662309 | 11.29% | 0.611% |
| 246 | 17.458 | 17.443 | 17.472 | VV | 10963 | 170206 | 2.90% | 0.157% |
| 247 | 17.533 | 17.472 | 17.567 | VV | 16625 | 764959 | 13.04% | 0.706% |
| 248 | 17.590 | 17.567 | 17.632 | VV | 21089 | 603544 | 10.29% | 0.557% |
| 249 | 17.664 | 17.632 | 17.722 | VV | 26622 | 884899 | 15.09% | 0.816% |
| 250 | 17.745 | 17.722 | 17.763 | VV | 15257 | 314290 | 5.36% | 0.290% |
| 251 | 17.774 | 17.763 | 17.793 | VV | 12376 | 202656 | 3.46% | 0.187% |
| 252 | 17.819 | 17.793 | 17.900 | VV | 17373 | 799751 | 13.63% | 0.738% |
| 253 | 17.948 | 17.900 | 17.977 | VV | 11631 | 457162 | 7.79% | 0.422% |
| 254 | 18.007 | 17.977 | 18.041 | VV | 12840 | 416544 | 7.10% | 0.384% |
| 255 | 18.108 | 18.041 | 18.164 | VV | 27599 | 1132320 | 19.30% | 1.044% |
| 256 | 18.196 | 18.164 | 18.214 | VV | 15589 | 396716 | 6.76% | 0.366% |
| 257 | 18.248 | 18.214 | 18.272 | VV | 17195 | 496834 | 8.47% | 0.458% |
| 258 | 18.307 | 18.272 | 18.321 | VV | 18155 | 449872 | 7.67% | 0.415% |
| 259 | 18.337 | 18.321 | 18.381 | VV | 16956 | 544089 | 9.28% | 0.502% |
| 260 | 18.388 | 18.381 | 18.404 | VV | 13945 | 180113 | 3.07% | 0.166% |
| 261 | 18.442 | 18.404 | 18.460 | VV | 31354 | 719390 | 12.26% | 0.664% |
| 262 | 18.471 | 18.460 | 18.504 | VV | 24971 | 539688 | 9.20% | 0.498% |
| 263 | 18.535 | 18.504 | 18.562 | VV | 81057 | 1552465 | 26.47% | 1.432% |
| 264 | 18.573 | 18.562 | 18.604 | VV | 28456 | 586586 | 10.00% | 0.541% |
| 265 | 18.615 | 18.604 | 18.648 | VV | 18683 | 443898 | 7.57% | 0.409% |
| 266 | 18.672 | 18.648 | 18.682 | VV | 22892 | 383230 | 6.53% | 0.353% |
| 267 | 18.699 | 18.682 | 18.728 | VV | 23488 | 545271 | 9.30% | 0.503% |
| 268 | 18.737 | 18.728 | 18.755 | VV | 16916 | 259785 | 4.43% | 0.240% |
| 269 | 18.791 | 18.755 | 18.865 | VV | 62156 | 1712543 | 29.20% | 1.580% |

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|---|---|---|---|---|---|---|---|---|
| 270 | 18.936 | 18.865 | 19.010 | VV | 39708 | 1701355 | 29.01% | 1.569% |
| 271 | 19.039 | 19.010 | 19.060 | VV | 21578 | 518842 | 8.85% | 0.479% |
| 272 | 19.073 | 19.060 | 19.084 | VV | 17697 | 254042 | 4.33% | 0.234% |
| 273 | 19.105 | 19.084 | 19.122 | VV | 19433 | 404854 | 6.90% | 0.373% |
| 274 | 19.139 | 19.122 | 19.171 | VV | 17862 | 458594 | 7.82% | 0.423% |
| 275 | 19.230 | 19.171 | 19.248 | VV | 19752 | 749124 | 12.77% | 0.691% |
| 276 | 19.259 | 19.248 | 19.274 | VV | 19388 | 296684 | 5.06% | 0.274% |
| 277 | 19.306 | 19.274 | 19.324 | VV | 38636 | 872868 | 14.88% | 0.805% |
| 278 | 19.334 | 19.324 | 19.395 | VV | 32828 | 953792 | 16.26% | 0.880% |
| 279 | 19.431 | 19.395 | 19.451 | VV | 21527 | 659101 | 11.24% | 0.608% |
| 280 | 19.480 | 19.451 | 19.541 | VV | 24356 | 1059443 | 18.06% | 0.977% |
| 281 | 19.548 | 19.541 | 19.555 | VV | 17726 | 140456 | 2.39% | 0.130% |
| 282 | 19.592 | 19.555 | 19.613 | VV | 20675 | 664474 | 11.33% | 0.613% |
| 283 | 19.620 | 19.613 | 19.629 | VV | 19438 | 174202 | 2.97% | 0.161% |
| 284 | 19.636 | 19.629 | 19.684 | VV | 17994 | 554560 | 9.45% | 0.512% |
| 285 | 19.724 | 19.684 | 19.774 | VV | 26926 | 1088889 | 18.56% | 1.004% |
| 286 | 19.795 | 19.774 | 19.810 | VV | 27555 | 501642 | 8.55% | 0.463% |
| 287 | 19.838 | 19.810 | 19.867 | VV | 28691 | 823534 | 14.04% | 0.760% |
| 288 | 19.881 | 19.867 | 19.895 | VV | 20158 | 328056 | 5.59% | 0.303% |
| 289 | 19.909 | 19.895 | 19.925 | VV | 21203 | 355468 | 6.06% | 0.328% |
| 290 | 19.961 | 19.925 | 19.973 | VV | 36759 | 837450 | 14.28% | 0.772% |
| 291 | 19.991 | 19.973 | 20.011 | VV | 44620 | 847715 | 14.45% | 0.782% |
| 292 | 20.028 | 20.011 | 20.064 | VV | 36536 | 993066 | 16.93% | 0.916% |
| 293 | 20.099 | 20.064 | 20.121 | VV | 34864 | 1034330 | 17.63% | 0.954% |
| 294 | 20.132 | 20.121 | 20.169 | VV | 28292 | 748789 | 12.77% | 0.691% |
| 295 | 20.178 | 20.169 | 20.202 | VV | 25912 | 467788 | 7.98% | 0.431% |
| 296 | 20.255 | 20.202 | 20.308 | VV | 27005 | 1528793 | 26.06% | 1.410% |
| 297 | 20.349 | 20.308 | 20.392 | VV | 42460 | 1621270 | 27.64% | 1.495% |
| 298 | 20.435 | 20.392 | 20.444 | VV | 32429 | 937770 | 15.99% | 0.865% |
| 299 | 20.464 | 20.444 | 20.481 | VV | 36657 | 749299 | 12.77% | 0.691% |
| 300 | 20.490 | 20.481 | 20.513 | VV | 32625 | 576659 | 9.83% | 0.532% |
| 301 | 20.535 | 20.513 | 20.558 | VV | 31373 | 786333 | 13.41% | 0.725% |
| 302 | 20.637 | 20.558 | 20.651 | VV | 36875 | 1819020 | 31.01% | 1.678% |
| 303 | 20.662 | 20.651 | 20.707 | VV | 35071 | 1125872 | 19.19% | 1.038% |
| 304 | 20.717 | 20.707 | 20.734 | VV | 31992 | 505782 | 8.62% | 0.467% |
| 305 | 20.748 | 20.734 | 20.758 | VV | 30139 | 411851 | 7.02% | 0.380% |
| 306 | 20.780 | 20.758 | 20.793 | VV | 29447 | 609543 | 10.39% | 0.562% |
| 307 | 20.829 | 20.793 | 20.861 | VV | 34268 | 1273468 | 21.71% | 1.175% |
| 308 | 20.872 | 20.861 | 20.909 | VV | 30431 | 836479 | 14.26% | 0.772% |
| 309 | 20.928 | 20.909 | 20.941 | VV | 28640 | 540055 | 9.21% | 0.498% |
| 310 | 20.948 | 20.941 | 20.963 | VV | 29473 | 363175 | 6.19% | 0.335% |
| 311 | 20.989 | 20.963 | 21.009 | VV | 27643 | 746568 | 12.73% | 0.689% |
| 312 | 21.018 | 21.009 | 21.038 | VV | 27824 | 465985 | 7.94% | 0.430% |
| 313 | 21.044 | 21.038 | 21.074 | VV | 28392 | 562794 | 9.60% | 0.519% |
| 314 | 21.083 | 21.074 | 21.141 | VV | 25772 | 1013848 | 17.28% | 0.935% |
| 315 | 21.154 | 21.141 | 21.164 | VV | 26012 | 339929 | 5.80% | 0.314% |
| 316 | 21.176 | 21.164 | 21.188 | VV | 23979 | 331962 | 5.66% | 0.306% |

| | | | | | rteres | | | |
|---|---|---|---|---|---|---|---|---|
| 317 | 21.219 | 21.188 | 21.251 | VV | 26622 | 939030 | 16.01% | 0.866% |
| 318 | 21.270 | 21.251 | 21.330 | VV | 22440 | 999033 | 17.03% | 0.921% |
| 319 | 21.344 | 21.330 | 21.381 | VV | 21506 | 624406 | 10.65% | 0.576% |
| 320 | 21.396 | 21.381 | 21.524 | VV | 21300 | 1650574 | 28.14% | 1.522% |
| 321 | 21.532 | 21.524 | 21.538 | VV | 18180 | 148783 | 2.54% | 0.137% |
| 322 | 21.550 | 21.538 | 21.572 | VV | 19321 | 346194 | 5.90% | 0.319% |
| 323 | 21.584 | 21.572 | 21.634 | VV | 17159 | 586324 | 10.00% | 0.541% |
| 324 | 21.648 | 21.634 | 21.686 | VV | 17624 | 498339 | 8.50% | 0.460% |
| 325 | 21.707 | 21.686 | 21.763 | VV | 15472 | 621230 | 10.59% | 0.573% |
| 326 | 21.770 | 21.763 | 21.780 | VV | 12637 | 125852 | 2.15% | 0.116% |
| 327 | 21.842 | 21.780 | 21.854 | VV | 12545 | 533549 | 9.10% | 0.492% |
| 328 | 21.878 | 21.854 | 21.926 | VV | 12690 | 495574 | 8.45% | 0.457% |
| 329 | 21.938 | 21.926 | 22.008 | VV | 11230 | 452525 | 7.72% | 0.417% |
| 330 | 22.017 | 22.008 | 22.027 | VV | 7878 | 92225 | 1.57% | 0.085% |
| 331 | 22.037 | 22.027 | 22.058 | VV | 8380 | 137193 | 2.34% | 0.127% |
| 332 | 22.073 | 22.058 | 22.110 | VV | 8957 | 227296 | 3.88% | 0.210% |
| 333 | 22.140 | 22.110 | 22.171 | VV | 8477 | 267018 | 4.55% | 0.246% |
| 334 | 22.182 | 22.171 | 22.232 | VV | 5825 | 167722 | 2.86% | 0.155% |
| 335 | 22.257 | 22.232 | 22.279 | VV | 4638 | 103468 | 1.76% | 0.095% |
| 336 | 22.285 | 22.279 | 22.307 | VV | 3829 | 46205 | 0.79% | 0.043% |
| 337 | 22.319 | 22.307 | 22.331 | VV | 3525 | 37522 | 0.64% | 0.035% |
| 338 | 22.348 | 22.331 | 22.358 | VV | 2768 | 35861 | 0.61% | 0.033% |
| 339 | 22.364 | 22.358 | 22.392 | VV | 2682 | 29007 | 0.49% | 0.027% |

Sum of corrected areas: 108414862

Aliphatic EPH 103025.M Thu Nov 20 04:44:20 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111925AL\
Data File : FE056934.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 14:09
Operator : YP\AJ
Sample : PB170632BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
FID_E
**ClientSampleId :**
PB170632BL

Integration File: autoint1.E
Quant Time: Nov 20 01:23:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Tue Nov 18 13:37:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 9) S ortho-Terphenyl (SURR) | 11.948 | 7320148 | 35.039 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 70.08% |
| 12) S 1-chlorooctadecane (S... | 13.384 | 4691521 | 29.119 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 58.24% |
| Target Compounds | | | |

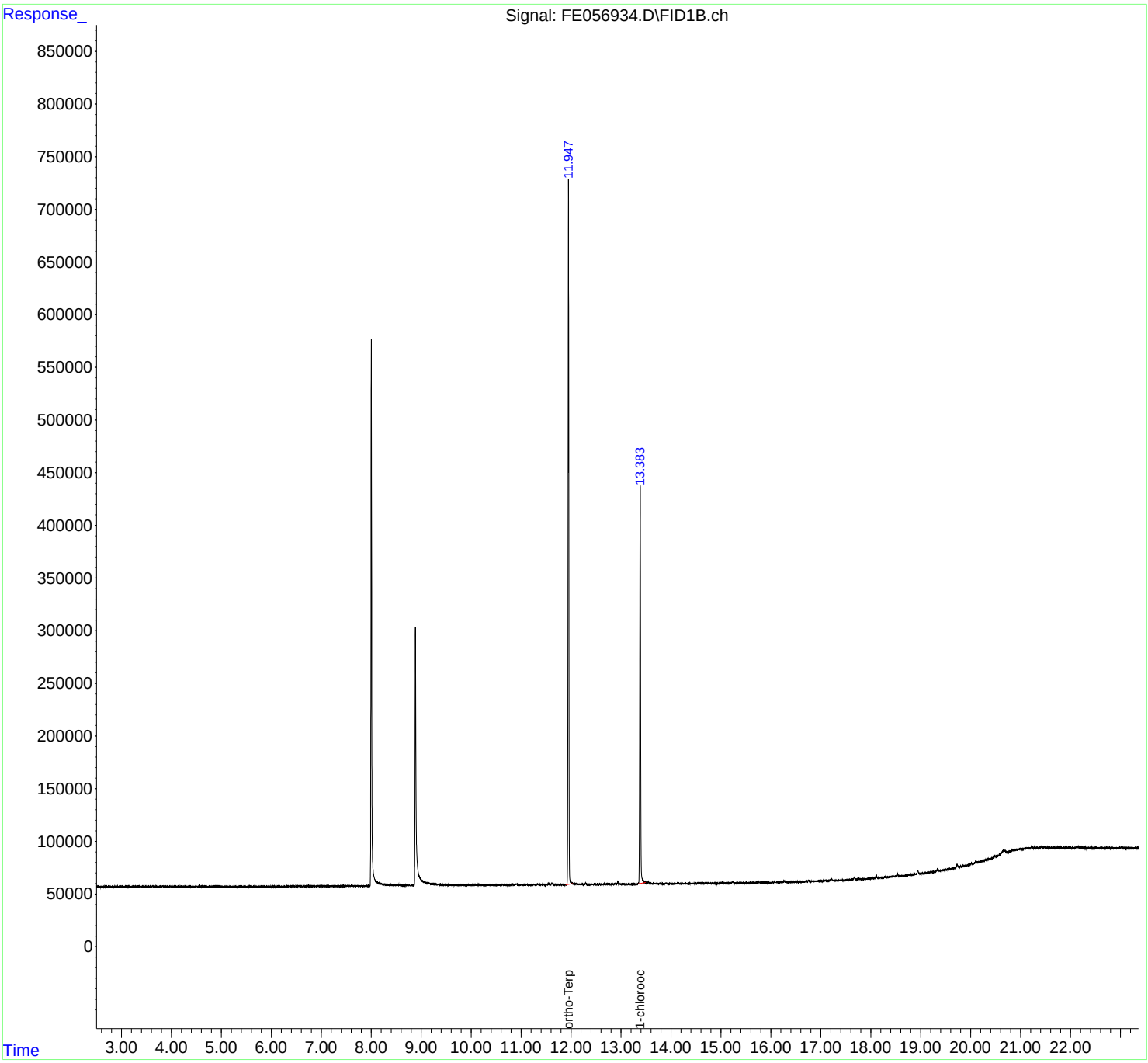
(f)=RT Delta > 1/2 Window (m)=manual int.

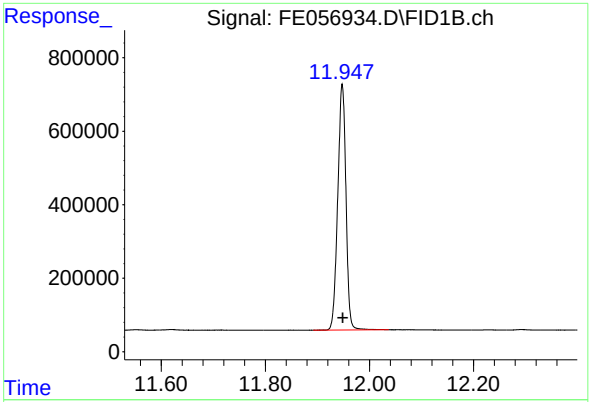
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111925AL\
Data File : FE056934.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 14:09
Operator : YP\AJ
Sample : PB170632BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
FID_E
**ClientSampleId :**
PB170632BL

Integration File: autoint1.E
Quant Time: Nov 20 01:23:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Tue Nov 18 13:37:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

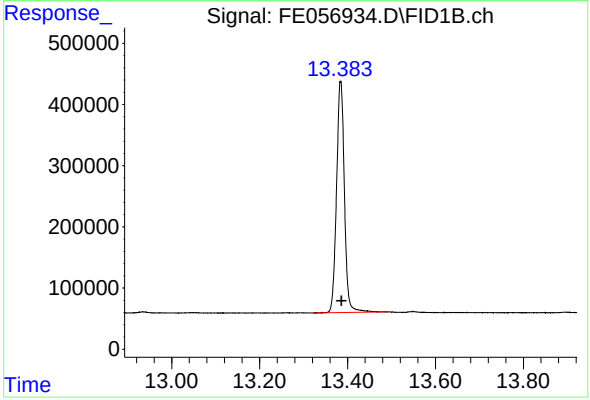





#9 ortho-Terphenyl (SURR)

R.T.: 11.948 min
Delta R.T.: 0.000 min
Response: 7320148
Conc: 35.04 ug/ml

**Instrument :**
FID_E
**ClientSampleId :**
PB170632BL




#12 1-chlorooctadecane (SURR)

R.T.: 13.384 min
Delta R.T.: -0.002 min
Response: 4691521
Conc: 29.12 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111925AL\
Data File : FE056934.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 14:09
Sample : PB170632BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 11.948 | 11.892 | 12.037 | BB | 667910 | 7320148 | 100.00% | 60.942% |
| 2 | 13.384 | 13.322 | 13.494 | BB | 378582 | 4691521 | 64.09% | 39.058% |
| | | | Sum of corrected areas: | | | 12011668 | | |

Aliphatic EPH 103025.M Thu Nov 20 04:33:43 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111925AL\
Data File : FE056935.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 14:39
Operator : YP\AJ
Sample : PB170632BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
FID_E
**ClientSampleId :**
PB170632BS

Integration File: autoint1.E
Quant Time: Nov 20 01:23:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Tue Nov 18 13:37:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 9) S | ortho-Terphenyl (SURR) | 11.946 | 7171296 | 34.327 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 68.65% |
| 12) S | 1-chlorooctadecane (S... | 13.383 | 4841612 | 30.050 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 60.10% |
| | Target Compounds | | | |
| 1) T | n-Nonane (C9) | 3.316 | 5912631 | 35.202 ug/ml |
| 2) T | n-Decane (C10) | 4.565 | 6402442 | 37.312 ug/ml |
| 3) T | A~Naphthalene (C11.7) | 6.276 | 7844593 | 42.499 ug/ml |
| 4) T | n-Dodecane (C12) | 6.732 | 6889880 | 39.613 ug/ml |
| 5) T | A~2-methylnaphthalene... | 7.374 | 6995000 | 39.470 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.566 | 6971201 | 39.938 ug/ml |
| 7) T | n-Hexadecane (C16) | 10.176 | 6818213 | 37.267 ug/ml |
| 8) T | n-Octadecane (C18) | 11.624 | 6775165 | 35.796 ug/ml |
| 10) T | n-Eicosane (C20) | 12.937 | 6728801 | 36.106 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.550 | 6594791 | 35.864 ug/ml |
| 13) T | n-Docosane (C22) | 14.137 | 6521337 | 34.836 ug/ml |
| 14) T | n-Tetracosane (C24) | 15.244 | 14112489 | 72.052 ug/ml |
| 15) T | n-Hexacosane (C26) | 16.267 | 6289288 | 32.363 ug/ml |
| 16) T | n-Octacosane (C28) | 17.217 | 6579759 | 33.976 ug/ml |
| 17) T | n-Tricontane (C30) | 18.109 | 5978107 | 29.817 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.941 | 5997515 | 30.498 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.727 | 5825672 | 33.751 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 20.467 | 5756724 | 39.796 ug/ml |
| 21) T | n-Octatriacontane (C38) | 21.215 | 5845093 | 46.441 ug/ml |
| 22) T | n-Tetracontane (C40) | 22.148 | 6010584 | 51.988 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

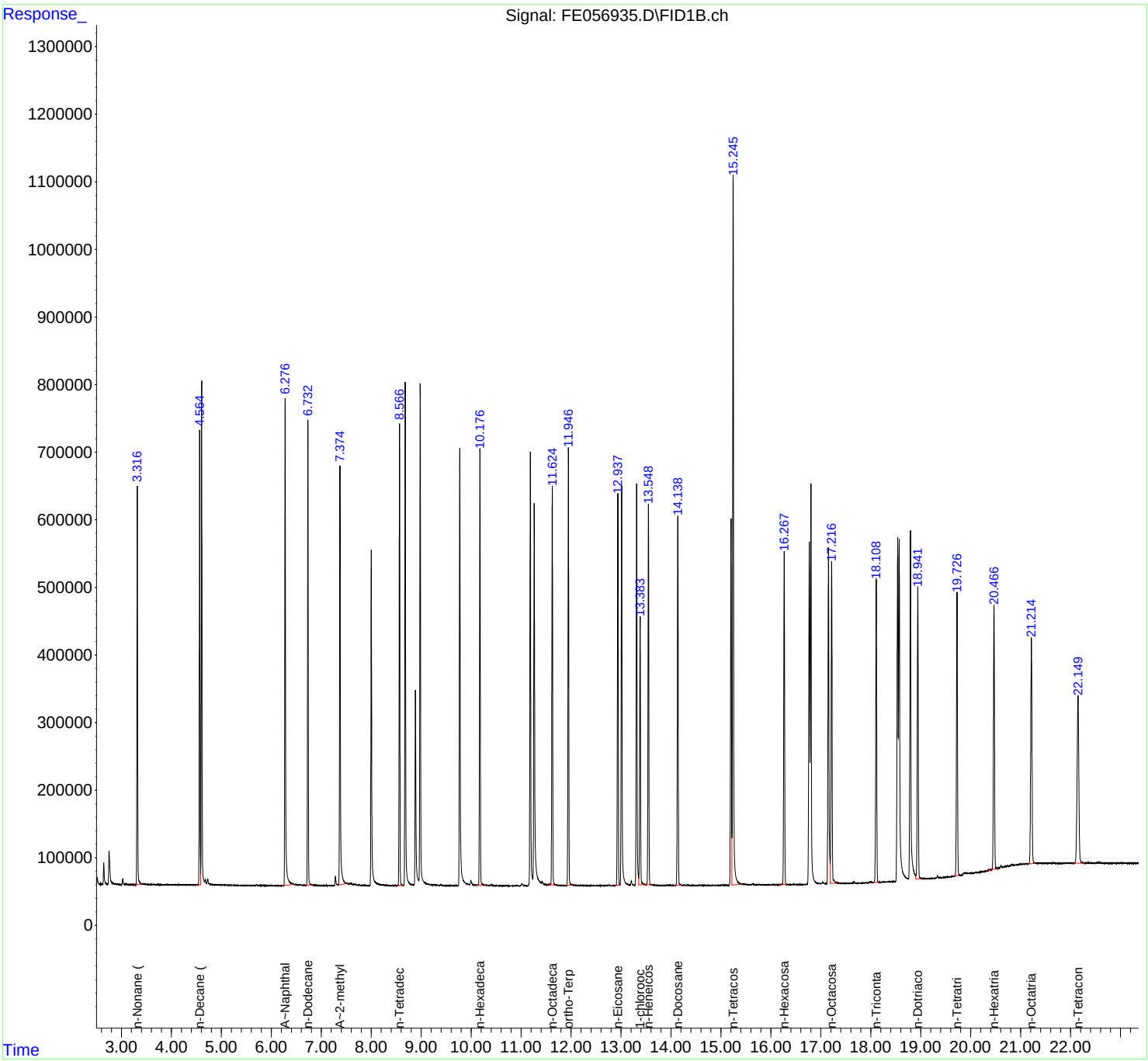
Sample Results: **FE056935.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111925AL\
Data File : FE056935.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 14:39
Operator : YP\AJ
Sample : PB170632BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
FID_E
**ClientSampleId :**
PB170632BS

Integration File: autoint1.E
Quant Time: Nov 20 01:23:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Tue Nov 18 13:37:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111925AL\
Data File : FE056935.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 14:39
Sample : PB170632BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.316 | 3.264 | 3.417 | BB | 589120 | 5912631 | 41.90% | 2.269% |
| 2 | 4.565 | 4.502 | 4.584 | BV | 671262 | 6402442 | 45.37% | 2.457% |
| 3 | 4.605 | 4.584 | 4.663 | VV | 747315 | 7694694 | 54.52% | 2.953% |
| 4 | 6.276 | 6.220 | 6.450 | BB | 720362 | 7844593 | 55.59% | 3.010% |
| 5 | 6.732 | 6.679 | 6.825 | BB | 687203 | 6889880 | 48.82% | 2.644% |
| 6 | 7.374 | 7.335 | 7.505 | BV | 618851 | 6995000 | 49.57% | 2.684% |
| 7 | 8.566 | 8.510 | 8.647 | BB | 685531 | 6971201 | 49.40% | 2.675% |
| 8 | 8.680 | 8.649 | 8.817 | BB | 746072 | 7967077 | 56.45% | 3.057% |
| 9 | 8.980 | 8.952 | 9.135 | VB | 739305 | 8075056 | 57.22% | 3.098% |
| 10 | 9.772 | 9.720 | 9.959 | BB | 648761 | 7786529 | 55.17% | 2.988% |
| 11 | 10.176 | 10.112 | 10.260 | BB | 647864 | 6818213 | 48.31% | 2.616% |
| 12 | 11.185 | 11.115 | 11.233 | BV | 639898 | 7265987 | 51.49% | 2.788% |
| 13 | 11.262 | 11.233 | 11.407 | VV | 564033 | 7475387 | 52.97% | 2.868% |
| 14 | 11.624 | 11.509 | 11.704 | BB | 585624 | 6775165 | 48.01% | 2.600% |
| 15 | 11.946 | 11.890 | 12.029 | BB | 647531 | 7171296 | 50.82% | 2.752% |
| 16 | 12.937 | 12.865 | 12.982 | BV | 580320 | 6728801 | 47.68% | 2.582% |
| 17 | 13.013 | 12.982 | 13.147 | VB | 591540 | 7288381 | 51.64% | 2.797% |
| 18 | 13.313 | 13.255 | 13.355 | BV | 595444 | 7187607 | 50.93% | 2.758% |
| 19 | 13.383 | 13.355 | 13.477 | VB | 397934 | 4841612 | 34.31% | 1.858% |
| 20 | 13.550 | 13.480 | 13.617 | BB | 557633 | 6594791 | 46.73% | 2.530% |
| 21 | 14.138 | 14.067 | 14.224 | BB | 544044 | 6521337 | 46.21% | 2.502% |
| 22 | 15.202 | 15.142 | 15.220 | BV | 539195 | 6652545 | 47.14% | 2.553% |
| 23 | 15.244 | 15.220 | 15.420 | VB | 1047184 | 14112489 | 100.00% | 5.415% |
| 24 | 16.267 | 16.175 | 16.324 | BB | 490863 | 6289288 | 44.57% | 2.413% |
| 25 | 16.770 | 16.702 | 16.785 | BV | 505431 | 6853001 | 48.56% | 2.630% |
| 26 | 16.803 | 16.785 | 16.937 | VB | 595683 | 7620569 | 54.00% | 2.924% |
| 27 | 17.154 | 17.100 | 17.188 | BV | 495533 | 6772364 | 47.99% | 2.599% |
| 28 | 17.217 | 17.188 | 17.327 | VB | 475321 | 6579759 | 46.62% | 2.525% |
| 29 | 18.109 | 18.039 | 18.169 | BB | 449149 | 5978107 | 42.36% | 2.294% |
| 30 | 18.538 | 18.464 | 18.551 | BV | 510545 | 6977897 | 49.44% | 2.677% |
| 31 | 18.568 | 18.551 | 18.752 | VV | 503250 | 8358567 | 59.23% | 3.207% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 32 | 18.794 | 18.752 | 18.900 | VV | 516927 | 7776175 | 55.10% | 2.984% |
| 33 | 18.941 | 18.900 | 19.014 | VB | 432543 | 5997515 | 42.50% | 2.301% |
| 34 | 19.727 | 19.650 | 19.789 | BB | 420008 | 5825672 | 41.28% | 2.235% |
| 35 | 20.467 | 20.320 | 20.535 | BB | 390310 | 5756724 | 40.79% | 2.209% |
| 36 | 21.215 | 21.132 | 21.300 | BB | 331749 | 5845093 | 41.42% | 2.243% |
| 37 | 22.148 | 22.062 | 22.275 | BB | 248614 | 6010584 | 42.59% | 2.306% |

Sum of corrected areas: 260614031

Aliphatic EPH 103025.M Thu Nov 20 04:34:22 2025

Quantitation Report (QT Reviewed)

Sample Results: **FE056936.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111925AL\
Data File : FE056936.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 15:09
Operator : YP\AJ
Sample : PB170632BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
FID_E
**ClientSampleId :**
PB170632BSD

Integration File: autoint1.E
Quant Time: Nov 20 01:23:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Tue Nov 18 13:37:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 9) S | ortho-Terphenyl (SURR) | 11.946 | 7039398 | 33.695 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 67.39% |
| 12) S | 1-chlorooctadecane (S... | 13.382 | 4767113 | 29.588 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 59.18% |
| | Target Compounds | | | |
| 1) T | n-Nonane (C9) | 3.316 | 5873164 | 34.967 ug/ml |
| 2) T | n-Decane (C10) | 4.564 | 6355244 | 37.036 ug/ml |
| 3) T | A~Naphthalene (C11.7) | 6.276 | 7774930 | 42.121 ug/ml |
| 4) T | n-Dodecane (C12) | 6.732 | 6843916 | 39.349 ug/ml |
| 5) T | A~2-methylnaphthalene... | 7.374 | 6969760 | 39.328 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.566 | 6935375 | 39.733 ug/ml |
| 7) T | n-Hexadecane (C16) | 10.176 | 6793839 | 37.134 ug/ml |
| 8) T | n-Octadecane (C18) | 11.623 | 6774809 | 35.794 ug/ml |
| 10) T | n-Eicosane (C20) | 12.936 | 6729238 | 36.108 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.548 | 6588790 | 35.832 ug/ml |
| 13) T | n-Docosane (C22) | 14.136 | 6508426 | 34.767 ug/ml |
| 14) T | n-Tetracosane (C24) | 15.242 | 14069327 | 71.832 ug/ml |
| 15) T | n-Hexacosane (C26) | 16.266 | 6264201 | 32.234 ug/ml |
| 16) T | n-Octacosane (C28) | 17.216 | 6551982 | 33.832 ug/ml |
| 17) T | n-Tricontane (C30) | 18.108 | 5944027 | 29.647 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.940 | 5965648 | 30.336 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.726 | 5788399 | 33.535 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 20.467 | 5717921 | 39.528 ug/ml |
| 21) T | n-Octatriacontane (C38) | 21.214 | 5824643 | 46.278 ug/ml |
| 22) T | n-Tetracontane (C40) | 22.145 | 6000394 | 51.900 ug/ml |

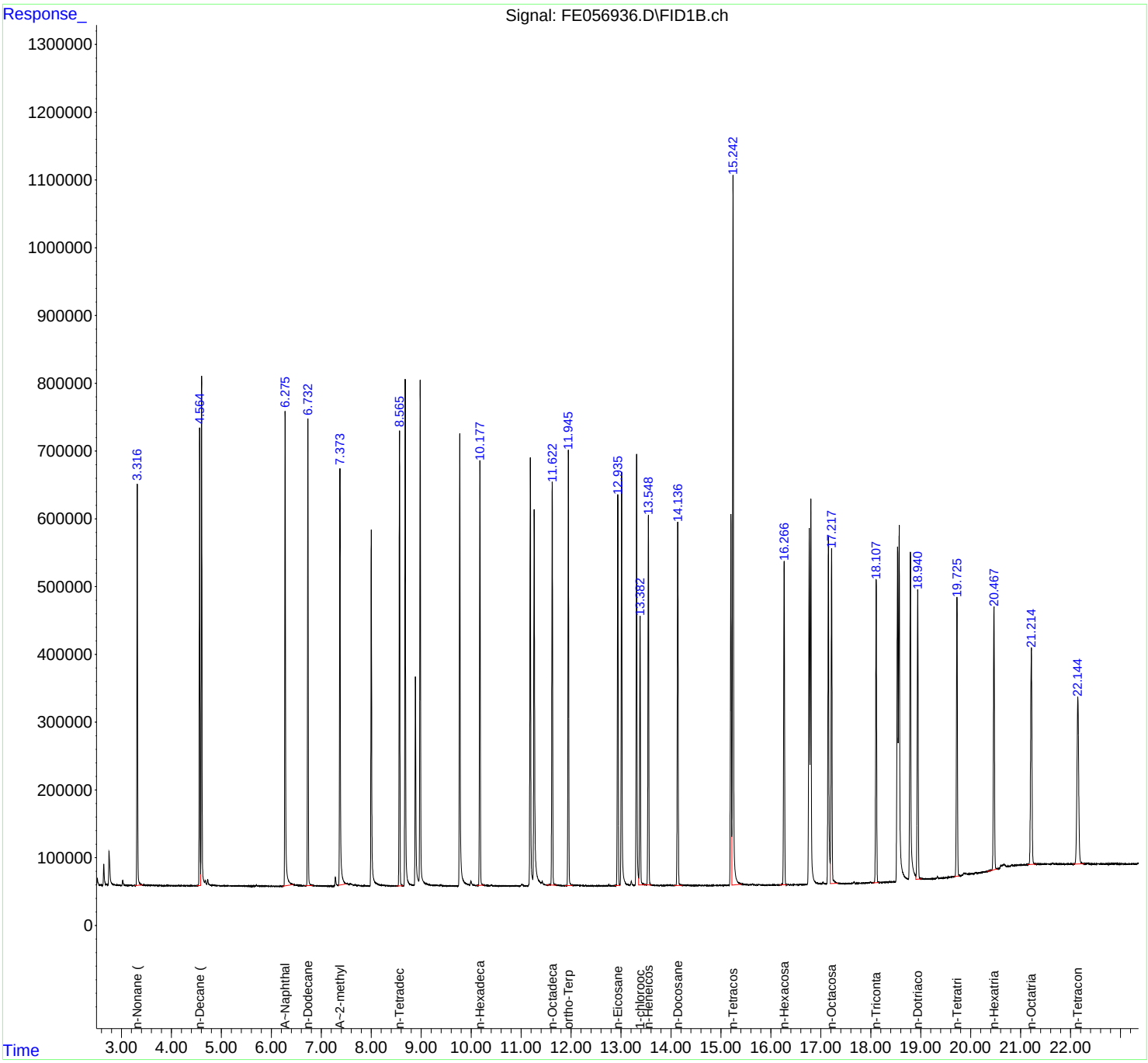
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111925AL\
Data File : FE056936.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 15:09
Operator : YP\AJ
Sample : PB170632BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
FID_E
**ClientSampleId :**
PB170632BSD

Integration File: autoint1.E
Quant Time: Nov 20 01:23:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Tue Nov 18 13:37:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111925AL\
Data File : FE056936.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 15:09
Sample : PB170632BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.316 | 3.259 | 3.422 | BB | 593065 | 5873164 | 41.74% | 2.263% |
| 2 | 4.564 | 4.502 | 4.584 | BV | 676750 | 6355244 | 45.17% | 2.449% |
| 3 | 4.604 | 4.584 | 4.663 | VV | 752484 | 7640635 | 54.31% | 2.944% |
| 4 | 6.276 | 6.222 | 6.440 | BB | 701374 | 7774930 | 55.26% | 2.996% |
| 5 | 6.732 | 6.667 | 6.825 | BB | 688021 | 6843916 | 48.64% | 2.637% |
| 6 | 7.374 | 7.334 | 7.504 | BV | 615190 | 6969760 | 49.54% | 2.685% |
| 7 | 8.566 | 8.502 | 8.642 | BB | 671502 | 6935375 | 49.29% | 2.672% |
| 8 | 8.680 | 8.649 | 8.827 | BB | 748426 | 7968037 | 56.63% | 3.070% |
| 9 | 8.980 | 8.950 | 9.140 | VB | 748228 | 8081556 | 57.44% | 3.114% |
| 10 | 9.772 | 9.710 | 9.960 | BB | 666542 | 7786799 | 55.35% | 3.000% |
| 11 | 10.176 | 10.112 | 10.252 | BB | 630837 | 6793839 | 48.29% | 2.618% |
| 12 | 11.184 | 11.119 | 11.233 | BV | 627627 | 7253210 | 51.55% | 2.795% |
| 13 | 11.261 | 11.233 | 11.404 | VV | 554726 | 7452608 | 52.97% | 2.871% |
| 14 | 11.623 | 11.509 | 11.709 | BB | 591923 | 6774809 | 48.15% | 2.610% |
| 15 | 11.946 | 11.882 | 12.037 | BB | 643074 | 7039398 | 50.03% | 2.712% |
| 16 | 12.936 | 12.875 | 12.980 | BV | 576537 | 6729238 | 47.83% | 2.593% |
| 17 | 13.013 | 12.980 | 13.154 | VB | 608712 | 7265808 | 51.64% | 2.799% |
| 18 | 13.313 | 13.255 | 13.353 | BV | 626304 | 7140853 | 50.75% | 2.751% |
| 19 | 13.382 | 13.353 | 13.479 | VB | 397302 | 4767113 | 33.88% | 1.837% |
| 20 | 13.548 | 13.479 | 13.615 | BB | 545311 | 6588790 | 46.83% | 2.539% |
| 21 | 14.136 | 14.065 | 14.222 | BB | 534288 | 6508426 | 46.26% | 2.508% |
| 22 | 15.200 | 15.139 | 15.218 | BV | 548036 | 6610310 | 46.98% | 2.547% |
| 23 | 15.242 | 15.218 | 15.424 | VB | 1045368 | 14069327 | 100.00% | 5.421% |
| 24 | 16.266 | 16.175 | 16.327 | BB | 472613 | 6264201 | 44.52% | 2.414% |
| 25 | 16.768 | 16.704 | 16.783 | BV | 525805 | 6816627 | 48.45% | 2.626% |
| 26 | 16.801 | 16.783 | 16.937 | VB | 569801 | 7587954 | 53.93% | 2.924% |
| 27 | 17.152 | 17.100 | 17.187 | BV | 510720 | 6746657 | 47.95% | 2.599% |
| 28 | 17.216 | 17.187 | 17.335 | VB | 496225 | 6551982 | 46.57% | 2.524% |
| 29 | 18.108 | 18.035 | 18.164 | BB | 448029 | 5944027 | 42.25% | 2.290% |
| 30 | 18.536 | 18.462 | 18.550 | BV | 494273 | 6925607 | 49.22% | 2.668% |
| 31 | 18.568 | 18.550 | 18.749 | VV | 518323 | 8411598 | 59.79% | 3.241% |

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|---|---|---|---|---|---|---|---|---|
| 32 | 18.793 | 18.749 | 18.900 | VV | 480803 | 7774355 | 55.26% | 2.995% |
| 33 | 18.940 | 18.900 | 19.012 | VB | 428979 | 5965648 | 42.40% | 2.299% |
| 34 | 19.726 | 19.660 | 19.775 | BB | 410818 | 5788399 | 41.14% | 2.230% |
| 35 | 20.467 | 20.320 | 20.529 | BB | 387766 | 5717921 | 40.64% | 2.203% |
| 36 | 21.214 | 21.132 | 21.307 | BB | 319374 | 5824643 | 41.40% | 2.244% |
| 37 | 22.145 | 22.050 | 22.274 | BB | 244953 | 6000394 | 42.65% | 2.312% |

Sum of corrected areas: 259543157

Aliphatic EPH 103025.M Thu Nov 20 04:34:59 2025

Quantitation Report (QT Reviewed)

Sample Results: **FE056946.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111925AL\
Data File : FE056946.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 20:11
Operator : YP\AJ
Sample : Q3669-01MS
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MS

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File: autoint1.E
Quant Time: Nov 20 01:27:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Tue Nov 18 13:37:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 9) S | ortho-Terphenyl (SURR) | 11.949 | 7470637 | 35.760 ug/mlm |
| Spiked Amount | 50.000 | | Recovery = | 71.52% |
| 12) S | 1-chlorooctadecane (S... | 13.386 | 8980958 | 55.742 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 111.48% |
| | **Target Compounds** | | | |
| 1) T | n-Nonane (C9) | 3.305 | 3015718 | 17.955 ug/ml |
| 2) T | n-Decane (C10) | 4.560 | 3875539 | 22.585 ug/ml |
| 3) T | A~Naphthalene (C11.7) | 6.276 | 5263069 | 28.513 ug/ml |
| 4) T | n-Dodecane (C12) | 6.734 | 6018984 | 34.606 ug/ml |
| 5) T | A~2-methylnaphthalene... | 7.376 | 5763416 | 32.521 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.569 | 8351439 | 47.845 ug/ml |
| 7) T | n-Hexadecane (C16) | 10.180 | 8163448 | 44.620 ug/ml |
| 8) T | n-Octadecane (C18) | 11.626 | 7185489 | 37.964 ug/mlm |
| 10) T | n-Eicosane (C20) | 12.940 | 6853481 | 36.775 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.553 | 6350751 | 34.537 ug/ml |
| 13) T | n-Docosane (C22) | 14.141 | 6157949 | 32.895 ug/ml |
| 14) T | n-Tetracosane (C24) | 15.247 | 11096143 | 56.652 ug/ml |
| 15) T | n-Hexacosane (C26) | 16.272 | 5488896 | 28.244 ug/ml |
| 16) T | n-Octacosane (C28) | 17.222 | 4955274 | 25.587 ug/ml |
| 17) T | n-Tricontane (C30) | 18.114 | 5176024 | 25.816 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.948 | 6585861 | 33.490 ug/mlm |
| 19) T | n-Tetratriacontane (C34) | 19.737 | 5363717 | 31.074 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 20.479 | 4841007 | 33.466 ug/ml |
| 21) T | n-Octatriacontane (C38) | 21.230 | 4754141 | 37.773 ug/ml |
| 22) T | n-Tetracontane (C40) | 22.169 | 4965357 | 42.948 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111925AL\
Data File : FE056946.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 20:11
Operator : YP\AJ
Sample : Q3669-01MS
Misc :
ALS Vial : 29 Sample Multiplier: 1

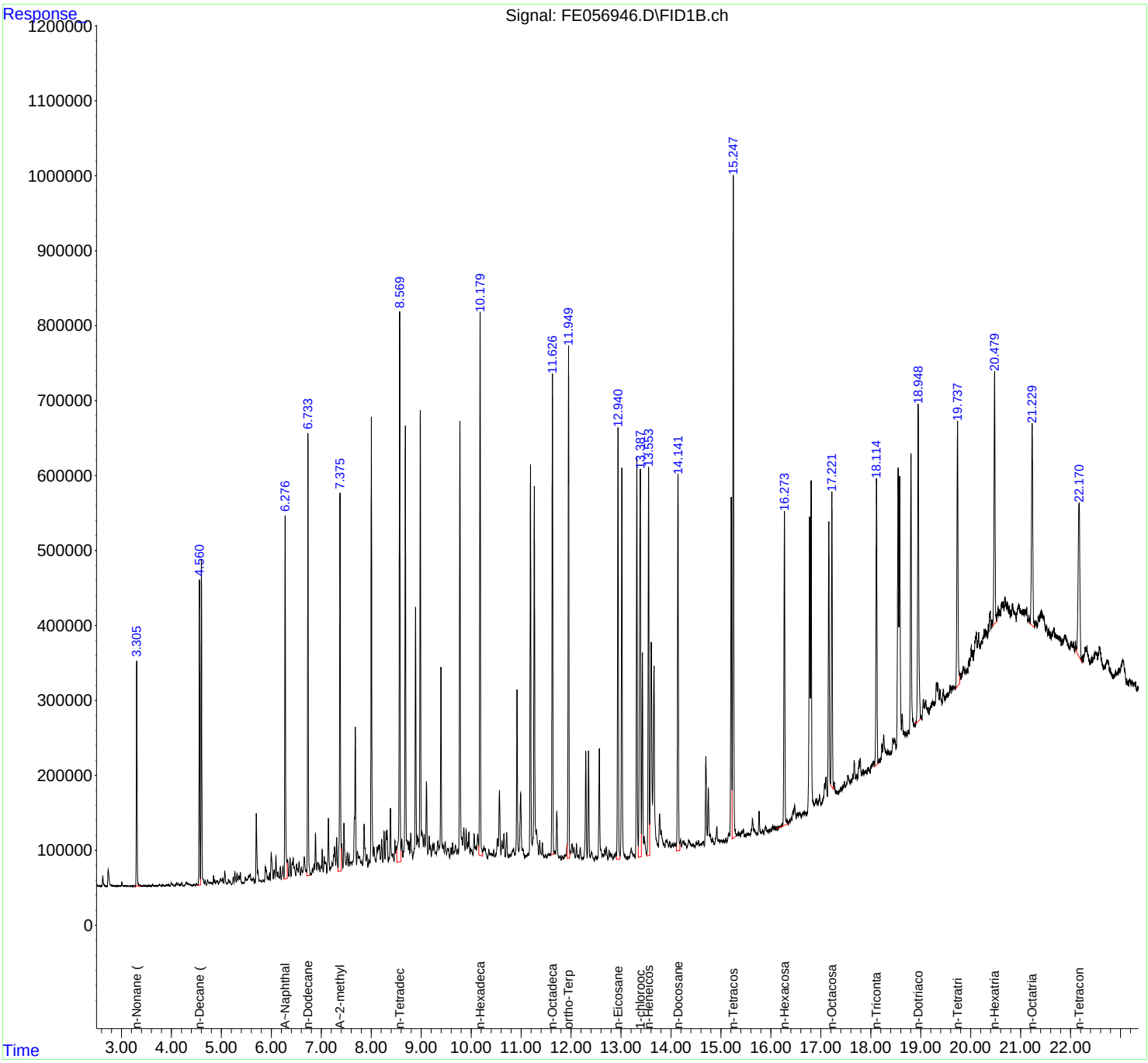
**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MS

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File: autoint1.E
Quant Time: Nov 20 01:27:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Tue Nov 18 13:37:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MS

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE
Data File : FE056946.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 20:11
Sample : Q3669-01MS
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.576 | 2.525 | 2.598 | BV | 194 | 1950 | 0.02% | 0.000% |
| 2 | 2.626 | 2.598 | 2.711 | PV | 13329 | 168349 | 1.48% | 0.031% |
| 3 | 2.734 | 2.711 | 2.833 | VV | 21657 | 392250 | 3.44% | 0.071% |
| 4 | 2.851 | 2.833 | 2.907 | VV | 706 | 17727 | 0.16% | 0.003% |
| 5 | 2.946 | 2.907 | 2.959 | VV | 515 | 9597 | 0.08% | 0.002% |
| 6 | 2.975 | 2.959 | 2.987 | VV | 390 | 5017 | 0.04% | 0.001% |
| 7 | 3.009 | 2.987 | 3.055 | VV | 4533 | 58250 | 0.51% | 0.011% |
| 8 | 3.088 | 3.055 | 3.109 | VV | 921 | 16665 | 0.15% | 0.003% |
| 9 | 3.117 | 3.109 | 3.145 | VV | 424 | 3957 | 0.03% | 0.001% |
| 10 | 3.175 | 3.145 | 3.215 | PV | 212 | 3145 | 0.03% | 0.001% |
| 11 | 3.232 | 3.215 | 3.249 | PV | 142 | 1708 | 0.01% | 0.000% |
| 12 | 3.305 | 3.249 | 3.404 | VV | 300288 | 3044210 | 26.71% | 0.554% |
| 13 | 3.416 | 3.404 | 3.433 | VV | 487 | 7784 | 0.07% | 0.001% |
| 14 | 3.450 | 3.433 | 3.468 | VV | 918 | 12641 | 0.11% | 0.002% |
| 15 | 3.481 | 3.468 | 3.501 | VV | 631 | 8010 | 0.07% | 0.001% |
| 16 | 3.518 | 3.501 | 3.534 | VV | 459 | 7164 | 0.06% | 0.001% |
| 17 | 3.548 | 3.534 | 3.573 | VV | 619 | 9001 | 0.08% | 0.002% |
| 18 | 3.588 | 3.573 | 3.602 | VV | 476 | 4703 | 0.04% | 0.001% |
| 19 | 3.621 | 3.602 | 3.661 | VV | 1538 | 25283 | 0.22% | 0.005% |
| 20 | 3.698 | 3.661 | 3.717 | PV | 610 | 13059 | 0.11% | 0.002% |
| 21 | 3.753 | 3.717 | 3.801 | VV | 2185 | 43032 | 0.38% | 0.008% |
| 22 | 3.835 | 3.801 | 3.871 | VV | 1413 | 32994 | 0.29% | 0.006% |
| 23 | 3.896 | 3.871 | 3.913 | VV | 1477 | 22895 | 0.20% | 0.004% |
| 24 | 3.940 | 3.913 | 3.970 | VV | 2239 | 33517 | 0.29% | 0.006% |
| 25 | 3.998 | 3.970 | 4.058 | VV | 3774 | 74967 | 0.66% | 0.014% |
| 26 | 4.101 | 4.058 | 4.116 | PV | 4360 | 59596 | 0.52% | 0.011% |
| 27 | 4.132 | 4.116 | 4.151 | VV | 3779 | 47336 | 0.42% | 0.009% |
| 28 | 4.169 | 4.151 | 4.191 | VV | 1759 | 31409 | 0.28% | 0.006% |
| 29 | 4.208 | 4.191 | 4.231 | VV | 4370 | 51864 | 0.46% | 0.009% |
| 30 | 4.244 | 4.231 | 4.257 | VV | 434 | 5443 | 0.05% | 0.001% |
| 31 | 4.299 | 4.257 | 4.316 | VV | 5012 | 92673 | 0.81% | 0.017% |

**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MS

**Manual IntegrationsAPPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

rteres

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|---|---|---|---|---|---|---|---|---|---|
| 32 | 4.331 | 4.316 | 4.361 | VV | 3985 | 65876 | 0.58% | 0.012% | |
| 33 | 4.371 | 4.361 | 4.416 | VV | 1985 | 3302 | | | |
| 34 | 4.452 | 4.416 | 4.478 | PV | 2300 | 3511 | | | |
| 35 | 4.501 | 4.478 | 4.526 | VV | 2969 | 4331 | | | |
| 36 | 4.560 | 4.526 | 4.580 | VV | 408230 | 388871 | | | |
| 37 | 4.600 | 4.580 | 4.658 | VV | 434808 | 4462421 | 39.15% | 0.812% | |
| 38 | 4.674 | 4.658 | 4.700 | VV | 5500 | 79409 | 0.70% | 0.014% | |
| 39 | 4.723 | 4.700 | 4.756 | VV | 7376 | 131683 | 1.16% | 0.024% | |
| 40 | 4.772 | 4.756 | 4.797 | VV | 4040 | 70508 | 0.62% | 0.013% | |
| 41 | 4.811 | 4.797 | 4.825 | VV | 3176 | 40470 | 0.36% | 0.007% | |
| 42 | 4.843 | 4.825 | 4.858 | VV | 12226 | 124599 | 1.09% | 0.023% | |
| 43 | 4.868 | 4.858 | 4.884 | VV | 6833 | 67604 | 0.59% | 0.012% | |
| 44 | 4.903 | 4.884 | 4.913 | VV | 5458 | 67881 | 0.60% | 0.012% | |
| 45 | 4.923 | 4.913 | 4.941 | VV | 6016 | 64409 | 0.57% | 0.012% | |
| 46 | 4.981 | 4.941 | 5.010 | VV | 8192 | 202981 | 1.78% | 0.037% | |
| 47 | 5.023 | 5.010 | 5.045 | VV | 8069 | 107666 | 0.94% | 0.020% | |
| 48 | 5.069 | 5.045 | 5.112 | VV | 17804 | 260010 | 2.28% | 0.047% | |
| 49 | 5.144 | 5.112 | 5.161 | VV | 6762 | 96555 | 0.85% | 0.018% | |
| 50 | 5.174 | 5.161 | 5.201 | VV | 4445 | 54524 | 0.48% | 0.010% | |
| 51 | 5.237 | 5.201 | 5.252 | PV | 9741 | 110894 | 0.97% | 0.020% | |
| 52 | 5.269 | 5.252 | 5.296 | VV | 16745 | 217996 | 1.91% | 0.040% | |
| 53 | 5.313 | 5.296 | 5.332 | VV | 14238 | 188288 | 1.65% | 0.034% | |
| 54 | 5.351 | 5.332 | 5.365 | VV | 10432 | 150398 | 1.32% | 0.027% | |
| 55 | 5.379 | 5.365 | 5.419 | VV | 15028 | 192494 | 1.69% | 0.035% | |
| 56 | 5.434 | 5.419 | 5.457 | PV | 1334 | 19521 | 0.17% | 0.004% | |
| 57 | 5.479 | 5.457 | 5.492 | PV | 8560 | 99098 | 0.87% | 0.018% | |
| 58 | 5.502 | 5.492 | 5.513 | VV | 5764 | 61016 | 0.54% | 0.011% | |
| 59 | 5.544 | 5.513 | 5.555 | VV | 10261 | 172673 | 1.51% | 0.031% | |
| 60 | 5.576 | 5.555 | 5.614 | VV | 12432 | 263317 | 2.31% | 0.048% | |
| 61 | 5.640 | 5.614 | 5.656 | VV | 7183 | 112887 | 0.99% | 0.021% | |
| 62 | 5.667 | 5.656 | 5.677 | VV | 3018 | 25539 | 0.22% | 0.005% | |
| 63 | 5.699 | 5.677 | 5.755 | VV | 91907 | 1312456 | 11.51% | 0.239% | |
| 64 | 5.771 | 5.755 | 5.806 | VV | 3645 | 67187 | 0.59% | 0.012% | |
| 65 | 5.827 | 5.806 | 5.840 | VV | 3509 | 40143 | 0.35% | 0.007% | |
| 66 | 5.851 | 5.840 | 5.860 | VV | 3068 | 28345 | 0.25% | 0.005% | |
| 67 | 5.882 | 5.860 | 5.918 | VV | 20560 | 420436 | 3.69% | 0.077% | |
| 68 | 5.927 | 5.918 | 5.946 | VV | 7521 | 88722 | 0.78% | 0.016% | |
| 69 | 5.964 | 5.946 | 5.977 | VV | 11728 | 126127 | 1.11% | 0.023% | |
| 70 | 5.999 | 5.977 | 6.039 | VV | 37911 | 729247 | 6.40% | 0.133% | |
| 71 | 6.056 | 6.039 | 6.075 | VV | 15458 | 239442 | 2.10% | 0.044% | |
| 72 | 6.092 | 6.075 | 6.119 | VV | 33415 | 446439 | 3.92% | 0.081% | |
| 73 | 6.132 | 6.119 | 6.161 | VV | 12222 | 201675 | 1.77% | 0.037% | |
| 74 | 6.180 | 6.161 | 6.199 | VV | 19095 | 222941 | 1.96% | 0.041% | |
| 75 | 6.231 | 6.199 | 6.251 | VV | 20056 | 352456 | 3.09% | 0.064% | |
| 76 | 6.276 | 6.251 | 6.318 | VV | 485694 | 5368178 | 47.10% | 0.977% | |
| 77 | 6.327 | 6.318 | 6.351 | VV | 27909 | 361001 | 3.17% | 0.066% | |
| 78 | 6.375 | 6.351 | 6.397 | VV | 29885 | 406083 | 3.56% | 0.074% | |
| 79 | 6.418 | 6.397 | 6.427 | VV | 24317 | 316023 | 2.77% | 0.058% | |

**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MS

**Manual IntegrationsAPPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

rteres

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|---|---|---|---|---|---|---|---|---|
| 80 | 6.439 | 6.427 | 6.488 | VV | 29464 | 639900 | 5.61% | 0.116% |
| 81 | 6.505 | 6.488 | 6.537 | VV | 21185 | 42106 | | |
| 82 | 6.555 | 6.537 | 6.583 | VV | 23915 | 43905 | | |
| 83 | 6.604 | 6.583 | 6.628 | VV | 16894 | 32104 | | |
| 84 | 6.661 | 6.628 | 6.707 | VV | 30064 | 79220 | | |
| 85 | 6.734 | 6.707 | 6.780 | VV | 594340 | 6248598 | 54.82% | 1.137% |
| 86 | 6.791 | 6.780 | 6.802 | VV | 8005 | 91949 | 0.81% | 0.017% |
| 87 | 6.823 | 6.802 | 6.837 | VV | 14377 | 216332 | 1.90% | 0.039% |
| 88 | 6.855 | 6.837 | 6.867 | VV | 20475 | 287730 | 2.52% | 0.052% |
| 89 | 6.885 | 6.867 | 6.911 | VV | 61072 | 829225 | 7.28% | 0.151% |
| 90 | 6.935 | 6.911 | 6.949 | VV | 21852 | 415309 | 3.64% | 0.076% |
| 91 | 6.958 | 6.949 | 6.974 | VV | 18084 | 210855 | 1.85% | 0.038% |
| 92 | 7.019 | 6.974 | 7.040 | VV | 38184 | 733865 | 6.44% | 0.134% |
| 93 | 7.060 | 7.040 | 7.111 | VV | 28305 | 795963 | 6.98% | 0.145% |
| 94 | 7.143 | 7.111 | 7.172 | VV | 79868 | 1197548 | 10.51% | 0.218% |
| 95 | 7.185 | 7.172 | 7.195 | VV | 14897 | 180690 | 1.59% | 0.033% |
| 96 | 7.217 | 7.195 | 7.229 | VV | 19970 | 341728 | 3.00% | 0.062% |
| 97 | 7.265 | 7.229 | 7.289 | VV | 40813 | 996189 | 8.74% | 0.181% |
| 98 | 7.308 | 7.289 | 7.334 | VV | 53413 | 801985 | 7.04% | 0.146% |
| 99 | 7.376 | 7.334 | 7.403 | VV | 513757 | 6114588 | 53.65% | 1.113% |
| 100 | 7.410 | 7.403 | 7.434 | VV | 44709 | 576450 | 5.06% | 0.105% |
| 101 | 7.454 | 7.434 | 7.494 | VV | 71358 | 1258244 | 11.04% | 0.229% |
| 102 | 7.520 | 7.494 | 7.538 | VV | 32118 | 611850 | 5.37% | 0.111% |
| 103 | 7.555 | 7.538 | 7.572 | VV | 30409 | 435491 | 3.82% | 0.079% |
| 104 | 7.587 | 7.572 | 7.614 | VV | 19511 | 454250 | 3.99% | 0.083% |
| 105 | 7.682 | 7.614 | 7.707 | VV | 198913 | 3466287 | 30.41% | 0.631% |
| 106 | 7.724 | 7.707 | 7.747 | VV | 32401 | 635918 | 5.58% | 0.116% |
| 107 | 7.767 | 7.747 | 7.793 | VV | 26647 | 637307 | 5.59% | 0.116% |
| 108 | 7.805 | 7.793 | 7.828 | VV | 19489 | 361718 | 3.17% | 0.066% |
| 109 | 7.858 | 7.828 | 7.896 | VV | 68659 | 1458025 | 12.79% | 0.265% |
| 110 | 7.913 | 7.896 | 7.932 | VV | 28375 | 458946 | 4.03% | 0.084% |
| 111 | 7.954 | 7.932 | 7.968 | VV | 21076 | 371180 | 3.26% | 0.068% |
| 112 | 8.055 | 8.040 | 8.094 | VV | 37081 | 859886 | 7.54% | 0.157% |
| 113 | 8.118 | 8.094 | 8.130 | VV | 37237 | 625799 | 5.49% | 0.114% |
| 114 | 8.143 | 8.130 | 8.153 | VV | 38312 | 491714 | 4.31% | 0.090% |
| 115 | 8.165 | 8.153 | 8.184 | VV | 40198 | 584466 | 5.13% | 0.106% |
| 116 | 8.210 | 8.184 | 8.231 | VV | 46911 | 847656 | 7.44% | 0.154% |
| 117 | 8.257 | 8.231 | 8.277 | VV | 56757 | 929762 | 8.16% | 0.169% |
| 118 | 8.298 | 8.277 | 8.306 | VV | 57282 | 729235 | 6.40% | 0.133% |
| 119 | 8.317 | 8.306 | 8.341 | VV | 59576 | 836520 | 7.34% | 0.152% |
| 120 | 8.384 | 8.341 | 8.422 | VV | 87896 | 1780241 | 15.62% | 0.324% |
| 121 | 8.434 | 8.422 | 8.455 | VV | 26739 | 459421 | 4.03% | 0.084% |
| 122 | 8.475 | 8.455 | 8.488 | VV | 43879 | 610498 | 5.36% | 0.111% |
| 123 | 8.501 | 8.488 | 8.512 | VV | 35689 | 463770 | 4.07% | 0.084% |
| 124 | 8.569 | 8.512 | 8.596 | VV | 741263 | 9138383 | 80.17% | 1.663% |
| 125 | 8.612 | 8.596 | 8.632 | VV | 46060 | 764715 | 6.71% | 0.139% |
| 126 | 8.683 | 8.632 | 8.745 | VV | 593465 | 7981015 | 70.02% | 1.453% |

**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MS

**Manual IntegrationsAPPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

rteres

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|---|---|---|---|---|---|---|---|---|---|
| 127 | 8.757 | 8.745 | 8.771 | VV | 41743 | 557386 | 4.89% | 0.101% |
| 128 | 8.791 | 8.771 | 8.830 | VV | 52573 | 121345 | | |
| 129 | 8.925 | 8.914 | 8.955 | VV | 47903 | 103752 | | |
| 130 | 8.982 | 8.955 | 9.043 | VV | 611598 | 805716 | | |
| 131 | 9.059 | 9.043 | 9.077 | VV | 50376 | 84720 | | |
| 132 | 9.106 | 9.077 | 9.133 | VV | 120078 | 2031539 | 17.82% | 0.370% |
| 133 | 9.159 | 9.133 | 9.176 | VV | 47322 | 905861 | 7.95% | 0.165% |
| 134 | 9.184 | 9.176 | 9.204 | VV | 32309 | 460040 | 4.04% | 0.084% |
| 135 | 9.227 | 9.204 | 9.242 | VV | 36083 | 698221 | 6.13% | 0.127% |
| 136 | 9.256 | 9.242 | 9.304 | VV | 37046 | 1046904 | 9.18% | 0.191% |
| 137 | 9.333 | 9.304 | 9.355 | VV | 39374 | 969965 | 8.51% | 0.177% |
| 138 | 9.396 | 9.355 | 9.428 | VV | 269664 | 3837236 | 33.67% | 0.698% |
| 139 | 9.440 | 9.428 | 9.462 | VV | 33801 | 594852 | 5.22% | 0.108% |
| 140 | 9.479 | 9.462 | 9.507 | VV | 38635 | 818728 | 7.18% | 0.149% |
| 141 | 9.530 | 9.507 | 9.570 | VV | 28916 | 931523 | 8.17% | 0.170% |
| 142 | 9.597 | 9.570 | 9.612 | VV | 29900 | 605546 | 5.31% | 0.110% |
| 143 | 9.629 | 9.612 | 9.663 | VV | 36099 | 820116 | 7.20% | 0.149% |
| 144 | 9.685 | 9.663 | 9.715 | VV | 32960 | 848375 | 7.44% | 0.154% |
| 145 | 9.731 | 9.715 | 9.745 | VV | 27210 | 432992 | 3.80% | 0.079% |
| 146 | 9.775 | 9.745 | 9.829 | VV | 595531 | 7832688 | 68.72% | 1.426% |
| 147 | 9.854 | 9.829 | 9.879 | VV | 55411 | 1233043 | 10.82% | 0.224% |
| 148 | 9.902 | 9.879 | 9.920 | VV | 52155 | 911140 | 7.99% | 0.166% |
| 149 | 9.932 | 9.920 | 9.940 | VV | 34856 | 382963 | 3.36% | 0.070% |
| 150 | 9.955 | 9.940 | 9.978 | VV | 48824 | 779509 | 6.84% | 0.142% |
| 151 | 9.992 | 9.978 | 10.038 | VV | 27120 | 837625 | 7.35% | 0.152% |
| 152 | 10.060 | 10.038 | 10.081 | VV | 46299 | 849155 | 7.45% | 0.155% |
| 153 | 10.091 | 10.081 | 10.106 | VV | 28856 | 408046 | 3.58% | 0.074% |
| 154 | 10.132 | 10.106 | 10.151 | VV | 45370 | 944440 | 8.29% | 0.172% |
| 155 | 10.180 | 10.151 | 10.227 | VV | 745426 | 8947336 | 78.50% | 1.629% |
| 156 | 10.257 | 10.227 | 10.271 | VV | 27220 | 655552 | 5.75% | 0.119% |
| 157 | 10.281 | 10.271 | 10.329 | VV | 25991 | 667858 | 5.86% | 0.122% |
| 158 | 10.355 | 10.329 | 10.376 | VV | 23929 | 532539 | 4.67% | 0.097% |
| 159 | 10.390 | 10.376 | 10.401 | VV | 18498 | 270258 | 2.37% | 0.049% |
| 160 | 10.409 | 10.401 | 10.434 | VV | 18211 | 343752 | 3.02% | 0.063% |
| 161 | 10.453 | 10.434 | 10.475 | VV | 21486 | 429571 | 3.77% | 0.078% |
| 162 | 10.525 | 10.475 | 10.541 | VV | 37873 | 933555 | 8.19% | 0.170% |
| 163 | 10.567 | 10.541 | 10.597 | VV | 102388 | 1829812 | 16.05% | 0.333% |
| 164 | 10.618 | 10.597 | 10.638 | VV | 34471 | 663020 | 5.82% | 0.121% |
| 165 | 10.656 | 10.638 | 10.684 | VV | 43892 | 787995 | 6.91% | 0.143% |
| 166 | 10.711 | 10.684 | 10.744 | VV | 45700 | 893320 | 7.84% | 0.163% |
| 167 | 10.767 | 10.744 | 10.779 | VV | 15213 | 291403 | 2.56% | 0.053% |
| 168 | 10.789 | 10.779 | 10.798 | VV | 14317 | 154382 | 1.35% | 0.028% |
| 169 | 10.851 | 10.798 | 10.877 | VV | 22756 | 873152 | 7.66% | 0.159% |
| 170 | 10.919 | 10.877 | 10.955 | VV | 233355 | 3191034 | 28.00% | 0.581% |
| 171 | 10.991 | 10.955 | 11.025 | VV | 97112 | 2006702 | 17.61% | 0.365% |
| 172 | 11.039 | 11.025 | 11.072 | VV | 21118 | 488084 | 4.28% | 0.089% |
| 173 | 11.136 | 11.072 | 11.149 | VV | 15519 | 596350 | 5.23% | 0.109% |
| 174 | 11.188 | 11.149 | 11.222 | VV | 532581 | 6458793 | 56.67% | 1.176% |

**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MS

**Manual IntegrationsAPPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

rteres

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|---|---|---|---|---|---|---|---|---|
| 175 | 11.264 | 11.222 | 11.298 | VV | 505204 | 6662011 | 58.45% | 1.213% |
| 176 | 11.308 | 11.298 | 11.353 | VV | 44981 | 101807 | | |
| 177 | 11.373 | 11.353 | 11.407 | VV | 31532 | 64404 | | |
| 178 | 11.427 | 11.407 | 11.465 | VV | 28439 | 55194 | | |
| 179 | 11.488 | 11.465 | 11.514 | VV | 12133 | 30096 | | |
| 180 | 11.538 | 11.514 | 11.552 | VV | 12682 | 250954 | 2.20% | 0.046% |
| 181 | 11.579 | 11.552 | 11.591 | VV | 12869 | 295787 | 2.60% | 0.054% |
| 182 | 11.627 | 11.591 | 11.661 | VV | 648519 | 7715726 | 67.69% | 1.404% |
| 183 | 11.672 | 11.661 | 11.689 | VV | 15334 | 241598 | 2.12% | 0.044% |
| 184 | 11.715 | 11.689 | 11.765 | VV | 69074 | 1204611 | 10.57% | 0.219% |
| 185 | 11.782 | 11.765 | 11.804 | VV | 9673 | 178855 | 1.57% | 0.033% |
| 186 | 11.821 | 11.804 | 11.841 | VV | 9028 | 154485 | 1.36% | 0.028% |
| 187 | 11.950 | 11.841 | 11.994 | VV | 693553 | 8392568 | 73.63% | 1.528% |
| 188 | 12.020 | 11.994 | 12.041 | VV | 24159 | 511866 | 4.49% | 0.093% |
| 189 | 12.057 | 12.041 | 12.087 | VV | 20146 | 350991 | 3.08% | 0.064% |
| 190 | 12.109 | 12.087 | 12.132 | VV | 23552 | 358679 | 3.15% | 0.065% |
| 191 | 12.145 | 12.132 | 12.161 | VV | 8831 | 131636 | 1.15% | 0.024% |
| 192 | 12.184 | 12.161 | 12.216 | VV | 18904 | 329981 | 2.90% | 0.060% |
| 193 | 12.237 | 12.216 | 12.251 | VV | 4760 | 94868 | 0.83% | 0.017% |
| 194 | 12.295 | 12.251 | 12.322 | VV | 147611 | 1996201 | 17.51% | 0.363% |
| 195 | 12.350 | 12.322 | 12.387 | VV | 147695 | 1901197 | 16.68% | 0.346% |
| 196 | 12.409 | 12.387 | 12.468 | VV | 11773 | 309319 | 2.71% | 0.056% |
| 197 | 12.494 | 12.468 | 12.513 | VV | 5043 | 93862 | 0.82% | 0.017% |
| 198 | 12.566 | 12.513 | 12.621 | VV | 148102 | 2200278 | 19.30% | 0.400% |
| 199 | 12.634 | 12.621 | 12.653 | VV | 7738 | 127870 | 1.12% | 0.023% |
| 200 | 12.676 | 12.653 | 12.693 | VV | 13657 | 232290 | 2.04% | 0.042% |
| 201 | 12.708 | 12.693 | 12.740 | VV | 16170 | 247359 | 2.17% | 0.045% |
| 202 | 12.761 | 12.740 | 12.777 | VV | 12581 | 154073 | 1.35% | 0.028% |
| 203 | 12.791 | 12.777 | 12.806 | VV | 8475 | 109887 | 0.96% | 0.020% |
| 204 | 12.815 | 12.806 | 12.836 | VV | 6719 | 80017 | 0.70% | 0.015% |
| 205 | 12.864 | 12.836 | 12.881 | VV | 5558 | 107593 | 0.94% | 0.020% |
| 206 | 12.897 | 12.881 | 12.909 | VV | 10210 | 121303 | 1.06% | 0.022% |
| 207 | 12.940 | 12.909 | 12.980 | VV | 580397 | 6857942 | 60.17% | 1.248% |
| 208 | 13.017 | 12.980 | 13.071 | VV | 521473 | 6377334 | 55.95% | 1.161% |
| 209 | 13.081 | 13.071 | 13.100 | VV | 5153 | 55942 | 0.49% | 0.010% |
| 210 | 13.114 | 13.100 | 13.131 | PV | 1808 | 19892 | 0.17% | 0.004% |
| 211 | 13.142 | 13.131 | 13.152 | VV | 1747 | 16647 | 0.15% | 0.003% |
| 212 | 13.159 | 13.152 | 13.164 | VV | 1303 | 8651 | 0.08% | 0.002% |
| 213 | 13.205 | 13.164 | 13.245 | VV | 12968 | 315200 | 2.77% | 0.057% |
| 214 | 13.260 | 13.245 | 13.281 | VV | 4972 | 63363 | 0.56% | 0.012% |
| 215 | 13.317 | 13.281 | 13.346 | PV | 535251 | 6161158 | 54.05% | 1.121% |
| 216 | 13.386 | 13.346 | 13.409 | VV | 506546 | 8978755 | 78.77% | 1.634% |
| 217 | 13.429 | 13.409 | 13.452 | VV | 271294 | 3269658 | 28.69% | 0.595% |
| 218 | 13.463 | 13.452 | 13.513 | VV | 26168 | 523867 | 4.60% | 0.095% |
| 219 | 13.553 | 13.513 | 13.574 | VV | 517937 | 6347998 | 55.69% | 1.155% |
| 220 | 13.606 | 13.574 | 13.631 | VV | 283942 | 5308098 | 46.57% | 0.966% |
| 221 | 13.661 | 13.631 | 13.748 | VV | 250847 | 5094043 | 44.69% | 0.927% |

**Instrument :**
FID_E
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**Manual IntegrationsAPPROVED**

Reviewed By :Rahul Chavli 11/20/2025
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rteres

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|---|---|---|---|---|---|---|---|---|
| 222 | 13.774 | 13.748 | 13.795 | VV | 52746 | 966157 | 8.48% | 0.176% |
| 223 | 13.805 | 13.795 | 13.848 | VV | 30800 | 67697 | | |
| 224 | 13.857 | 13.848 | 13.878 | VV | 12140 | 19158 | | |
| 225 | 13.903 | 13.878 | 13.957 | VV | 15936 | 59550 | | |
| 226 | 13.977 | 13.957 | 14.000 | VV | 14061 | 25594 | | |
| 227 | 14.026 | 14.000 | 14.047 | VV | 10160 | 234164 | 2.05% | 0.043% |
| 228 | 14.064 | 14.047 | 14.076 | VV | 10191 | 149442 | 1.31% | 0.027% |
| 229 | 14.094 | 14.076 | 14.107 | VV | 8842 | 145987 | 1.28% | 0.027% |
| 230 | 14.141 | 14.107 | 14.175 | VV | 502999 | 6149941 | 53.96% | 1.119% |
| 231 | 14.192 | 14.175 | 14.213 | VV | 13693 | 221934 | 1.95% | 0.040% |
| 232 | 14.239 | 14.213 | 14.276 | VV | 11716 | 337135 | 2.96% | 0.061% |
| 233 | 14.290 | 14.276 | 14.320 | VV | 8364 | 148169 | 1.30% | 0.027% |
| 234 | 14.359 | 14.320 | 14.416 | VV | 11160 | 381846 | 3.35% | 0.070% |
| 235 | 14.436 | 14.416 | 14.461 | VV | 5584 | 110313 | 0.97% | 0.020% |
| 236 | 14.467 | 14.461 | 14.482 | VV | 3582 | 27930 | 0.25% | 0.005% |
| 237 | 14.504 | 14.482 | 14.518 | VV | 7444 | 98036 | 0.86% | 0.018% |
| 238 | 14.553 | 14.518 | 14.573 | VV | 8608 | 178671 | 1.57% | 0.033% |
| 239 | 14.599 | 14.573 | 14.620 | VV | 3927 | 90247 | 0.79% | 0.016% |
| 240 | 14.647 | 14.620 | 14.666 | VV | 7117 | 126452 | 1.11% | 0.023% |
| 241 | 14.700 | 14.666 | 14.725 | VV | 119457 | 1651781 | 14.49% | 0.301% |
| 242 | 14.748 | 14.725 | 14.814 | VV | 75532 | 1364610 | 11.97% | 0.248% |
| 243 | 14.832 | 14.814 | 14.871 | VV | 8245 | 154223 | 1.35% | 0.028% |
| 244 | 14.918 | 14.871 | 14.942 | VV | 23821 | 428315 | 3.76% | 0.078% |
| 245 | 14.956 | 14.942 | 14.975 | VV | 6068 | 86386 | 0.76% | 0.016% |
| 246 | 15.012 | 14.975 | 15.038 | VV | 4394 | 114161 | 1.00% | 0.021% |
| 247 | 15.054 | 15.038 | 15.071 | VV | 4610 | 54953 | 0.48% | 0.010% |
| 248 | 15.098 | 15.071 | 15.116 | VV | 4999 | 75067 | 0.66% | 0.014% |
| 249 | 15.151 | 15.116 | 15.161 | PV | 10392 | 155711 | 1.37% | 0.028% |
| 250 | 15.206 | 15.161 | 15.224 | VV | 454672 | 5724002 | 50.22% | 1.042% |
| 251 | 15.247 | 15.224 | 15.326 | VV | 884353 | 11398178 | 100.00% | 2.075% |
| 252 | 15.349 | 15.326 | 15.363 | VV | 9070 | 175953 | 1.54% | 0.032% |
| 253 | 15.377 | 15.363 | 15.390 | VV | 6790 | 103648 | 0.91% | 0.019% |
| 254 | 15.410 | 15.390 | 15.422 | VV | 9387 | 146962 | 1.29% | 0.027% |
| 255 | 15.450 | 15.422 | 15.476 | VV | 11938 | 251428 | 2.21% | 0.046% |
| 256 | 15.526 | 15.476 | 15.544 | VV | 5204 | 160175 | 1.41% | 0.029% |
| 257 | 15.560 | 15.544 | 15.585 | VV | 5386 | 92308 | 0.81% | 0.017% |
| 258 | 15.632 | 15.585 | 15.661 | VV | 23148 | 516097 | 4.53% | 0.094% |
| 259 | 15.672 | 15.661 | 15.708 | VV | 8638 | 148786 | 1.31% | 0.027% |
| 260 | 15.713 | 15.708 | 15.738 | VV | 2655 | 37671 | 0.33% | 0.007% |
| 261 | 15.764 | 15.738 | 15.811 | VV | 31577 | 425020 | 3.73% | 0.077% |
| 262 | 15.840 | 15.811 | 15.857 | VV | 4696 | 70171 | 0.62% | 0.013% |
| 263 | 15.893 | 15.857 | 15.919 | PV | 8261 | 164576 | 1.44% | 0.030% |
| 264 | 15.942 | 15.919 | 15.965 | VV | 2483 | 44365 | 0.39% | 0.008% |
| 265 | 15.986 | 15.965 | 16.008 | PV | 2876 | 43443 | 0.38% | 0.008% |
| 266 | 16.031 | 16.008 | 16.071 | PV | 5233 | 120626 | 1.06% | 0.022% |
| 267 | 16.080 | 16.071 | 16.106 | VV | 2694 | 42283 | 0.37% | 0.008% |
| 268 | 16.117 | 16.106 | 16.131 | VV | 1299 | 13396 | 0.12% | 0.002% |
| 269 | 16.142 | 16.131 | 16.149 | PV | 1921 | 9789 | 0.09% | 0.002% |

**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MS

**Manual IntegrationsAPPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 270 | 16.219 | 16.149 | 16.227 | VV | 2631 | 65553 | 0.58% | 0.012% |
| 271 | 16.272 | 16.227 | 16.346 | VV | 417597 | 545632 | | |
| 272 | 16.378 | 16.346 | 16.395 | VV | 4394 | 5613 | | |
| 273 | 16.409 | 16.395 | 16.420 | VV | 5538 | 6029 | | |
| 274 | 16.441 | 16.420 | 16.452 | VV | 14272 | 19175 | | |
| 275 | 16.476 | 16.452 | 16.508 | VV | 19667 | 420656 | 3.69% | 0.077% |
| 276 | 16.529 | 16.508 | 16.546 | VV | 8165 | 135885 | 1.19% | 0.025% |
| 277 | 16.574 | 16.546 | 16.607 | VV | 6451 | 170449 | 1.50% | 0.031% |
| 278 | 16.646 | 16.607 | 16.668 | VV | 4450 | 105250 | 0.92% | 0.019% |
| 279 | 16.684 | 16.668 | 16.715 | VV | 4122 | 66361 | 0.58% | 0.012% |
| 280 | 16.776 | 16.715 | 16.791 | PV | 398450 | 5652919 | 49.59% | 1.029% |
| 281 | 16.807 | 16.791 | 16.876 | VV | 442788 | 5531417 | 48.53% | 1.007% |
| 282 | 16.916 | 16.876 | 16.931 | VV | 13768 | 353205 | 3.10% | 0.064% |
| 283 | 16.974 | 16.931 | 17.005 | VV | 16899 | 402014 | 3.53% | 0.073% |
| 284 | 17.077 | 17.005 | 17.087 | VV | 29252 | 609335 | 5.35% | 0.111% |
| 285 | 17.102 | 17.087 | 17.130 | VV | 35551 | 675709 | 5.93% | 0.123% |
| 286 | 17.161 | 17.130 | 17.195 | VV | 376875 | 5279010 | 46.31% | 0.961% |
| 287 | 17.222 | 17.195 | 17.253 | VV | 411611 | 5604970 | 49.17% | 1.020% |
| 288 | 17.267 | 17.253 | 17.298 | VV | 23220 | 459470 | 4.03% | 0.084% |
| 289 | 17.304 | 17.298 | 17.355 | VV | 10039 | 281510 | 2.47% | 0.051% |
| 290 | 17.403 | 17.355 | 17.423 | VV | 11511 | 355572 | 3.12% | 0.065% |
| 291 | 17.470 | 17.423 | 17.498 | VV | 16733 | 528007 | 4.63% | 0.096% |
| 292 | 17.544 | 17.498 | 17.591 | VV | 22946 | 856576 | 7.52% | 0.156% |
| 293 | 17.610 | 17.591 | 17.625 | VV | 15864 | 274326 | 2.41% | 0.050% |
| 294 | 17.642 | 17.625 | 17.650 | VV | 20558 | 259006 | 2.27% | 0.047% |
| 295 | 17.670 | 17.650 | 17.698 | VV | 38090 | 717071 | 6.29% | 0.131% |
| 296 | 17.712 | 17.698 | 17.729 | VV | 18036 | 279615 | 2.45% | 0.051% |
| 297 | 17.789 | 17.729 | 17.818 | VV | 36266 | 1281064 | 11.24% | 0.233% |
| 298 | 17.845 | 17.818 | 17.865 | VV | 19267 | 463670 | 4.07% | 0.084% |
| 299 | 17.906 | 17.865 | 17.924 | VV | 16075 | 522579 | 4.58% | 0.095% |
| 300 | 17.948 | 17.924 | 17.985 | VV | 18756 | 562954 | 4.94% | 0.102% |
| 301 | 18.012 | 17.985 | 18.028 | VV | 20141 | 442369 | 3.88% | 0.081% |
| 302 | 18.055 | 18.028 | 18.069 | VV | 23467 | 512683 | 4.50% | 0.093% |
| 303 | 18.114 | 18.069 | 18.147 | VV | 396402 | 5951965 | 52.22% | 1.083% |
| 304 | 18.160 | 18.147 | 18.174 | VV | 21830 | 329647 | 2.89% | 0.060% |
| 305 | 18.224 | 18.174 | 18.238 | VV | 38675 | 1004454 | 8.81% | 0.183% |
| 306 | 18.259 | 18.238 | 18.331 | VV | 51615 | 1866161 | 16.37% | 0.340% |
| 307 | 18.360 | 18.331 | 18.411 | VV | 26771 | 1140644 | 10.01% | 0.208% |
| 308 | 18.445 | 18.411 | 18.459 | VV | 39201 | 900381 | 7.90% | 0.164% |
| 309 | 18.478 | 18.459 | 18.505 | VV | 39177 | 929955 | 8.16% | 0.169% |
| 310 | 18.547 | 18.505 | 18.562 | VV | 400262 | 6190299 | 54.31% | 1.127% |
| 311 | 18.578 | 18.562 | 18.612 | VV | 383768 | 6159412 | 54.04% | 1.121% |
| 312 | 18.629 | 18.612 | 18.691 | VV | 65442 | 2191804 | 19.23% | 0.399% |
| 313 | 18.707 | 18.691 | 18.728 | VV | 38643 | 798576 | 7.01% | 0.145% |
| 314 | 18.746 | 18.728 | 18.764 | VV | 40195 | 824258 | 7.23% | 0.150% |
| 315 | 18.804 | 18.764 | 18.868 | VV | 406305 | 7665170 | 67.25% | 1.395% |
| 316 | 18.949 | 18.868 | 19.025 | VV | 469969 | 10827104 | 94.99% | 1.971% |

**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MS

**Manual IntegrationsAPPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

rteres

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|---|---|---|---|---|---|---|---|---|---|
| 317 | 19.052 | 19.025 | 19.073 | VV | 70754 | 1766762 | 15.50% | 0.322% |
| 318 | 19.099 | 19.073 | 19.145 | VV | 67873 | 257794 | | |
| 319 | 19.151 | 19.145 | 19.163 | VV | 56210 | 56826 | | |
| 320 | 19.236 | 19.163 | 19.261 | VV | 61766 | 333633 | | |
| 321 | 19.269 | 19.261 | 19.284 | VV | 59332 | 77005 | | |
| 322 | 19.314 | 19.284 | 19.331 | VV | 83238 | 2020163 | 17.72% | 0.368% |
| 323 | 19.343 | 19.331 | 19.370 | VV | 82123 | 1683174 | 14.77% | 0.306% |
| 324 | 19.385 | 19.370 | 19.425 | VV | 72391 | 2055039 | 18.03% | 0.374% |
| 325 | 19.453 | 19.425 | 19.475 | VV | 70398 | 1827654 | 16.03% | 0.333% |
| 326 | 19.485 | 19.475 | 19.495 | VV | 59460 | 684359 | 6.00% | 0.125% |
| 327 | 19.531 | 19.495 | 19.546 | VV | 62652 | 1845464 | 16.19% | 0.336% |
| 328 | 19.559 | 19.546 | 19.568 | VV | 61602 | 768569 | 6.74% | 0.140% |
| 329 | 19.598 | 19.568 | 19.645 | VV | 68129 | 2991551 | 26.25% | 0.545% |
| 330 | 19.651 | 19.645 | 19.659 | VV | 66275 | 555565 | 4.87% | 0.101% |
| 331 | 19.681 | 19.659 | 19.691 | VV | 65336 | 1259758 | 11.05% | 0.229% |
| 332 | 19.737 | 19.691 | 19.781 | VV | 418835 | 8843297 | 77.59% | 1.610% |
| 333 | 19.791 | 19.781 | 19.803 | VV | 79305 | 1008502 | 8.85% | 0.184% |
| 334 | 19.851 | 19.803 | 19.877 | VV | 85383 | 3530530 | 30.97% | 0.643% |
| 335 | 19.892 | 19.877 | 19.906 | VV | 81158 | 1356258 | 11.90% | 0.247% |
| 336 | 19.931 | 19.906 | 19.945 | VV | 80978 | 1796937 | 15.77% | 0.327% |
| 337 | 19.968 | 19.945 | 19.995 | VV | 92979 | 2626923 | 23.05% | 0.478% |
| 338 | 20.012 | 19.995 | 20.033 | VV | 107450 | 2280947 | 20.01% | 0.415% |
| 339 | 20.041 | 20.033 | 20.053 | VV | 100804 | 1169852 | 10.26% | 0.213% |
| 340 | 20.113 | 20.053 | 20.131 | VV | 122639 | 5054577 | 44.35% | 0.920% |
| 341 | 20.160 | 20.131 | 20.188 | VV | 121218 | 3646876 | 32.00% | 0.664% |
| 342 | 20.218 | 20.188 | 20.238 | VV | 108129 | 3130130 | 27.46% | 0.570% |
| 343 | 20.268 | 20.238 | 20.299 | VV | 118099 | 4210973 | 36.94% | 0.766% |
| 344 | 20.309 | 20.299 | 20.331 | VV | 118476 | 2198949 | 19.29% | 0.400% |
| 345 | 20.391 | 20.331 | 20.407 | VV | 140446 | 5649472 | 49.56% | 1.028% |
| 346 | 20.423 | 20.407 | 20.434 | VV | 129040 | 2014155 | 17.67% | 0.367% |
| 347 | 20.479 | 20.434 | 20.522 | VV | 454922 | 11224745 | 98.48% | 2.043% |
| 348 | 20.549 | 20.522 | 20.565 | VV | 139436 | 3401185 | 29.84% | 0.619% |
| 349 | 20.575 | 20.565 | 20.598 | VV | 137211 | 2653784 | 23.28% | 0.483% |
| 350 | 20.626 | 20.598 | 20.642 | VV | 144531 | 3672250 | 32.22% | 0.668% |
| 351 | 20.655 | 20.642 | 20.666 | VV | 144540 | 1970375 | 17.29% | 0.359% |
| 352 | 20.685 | 20.666 | 20.721 | VV | 149688 | 4718132 | 41.39% | 0.859% |
| 353 | 20.730 | 20.721 | 20.793 | VV | 140777 | 5638236 | 49.47% | 1.026% |
| 354 | 20.808 | 20.793 | 20.817 | VV | 127173 | 1799108 | 15.78% | 0.327% |
| 355 | 20.840 | 20.817 | 20.912 | VV | 135230 | 7021061 | 61.60% | 1.278% |
| 356 | 20.969 | 20.912 | 21.005 | VV | 128510 | 6851719 | 60.11% | 1.247% |
| 357 | 21.014 | 21.005 | 21.025 | VV | 120175 | 1362972 | 11.96% | 0.248% |
| 358 | 21.028 | 21.025 | 21.035 | VV | 118918 | 730359 | 6.41% | 0.133% |
| 359 | 21.044 | 21.035 | 21.071 | VV | 120552 | 2531861 | 22.21% | 0.461% |
| 360 | 21.088 | 21.071 | 21.148 | VV | 119171 | 5162383 | 45.29% | 0.940% |
| 361 | 21.165 | 21.148 | 21.187 | VV | 108187 | 2442600 | 21.43% | 0.445% |
| 362 | 21.230 | 21.187 | 21.278 | VV | 360756 | 9776603 | 85.77% | 1.780% |
| 363 | 21.308 | 21.278 | 21.330 | VV | 95509 | 2871553 | 25.19% | 0.523% |
| 364 | 21.357 | 21.330 | 21.376 | VV | 100943 | 2624480 | 23.03% | 0.478% |

**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MS

**Manual IntegrationsAPPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

rteres

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|---|---|---|---|---|---|---|---|---|
| 365 | 21.414 | 21.376 | 21.505 | VV | 105437 | 7318059 | 64.20% | 1.332% |
| 366 | 21.521 | 21.505 | 21.541 | VV | 81605 | 167237 | | |
| 367 | 21.559 | 21.541 | 21.578 | VV | 75842 | 157501 | | |
| 368 | 21.584 | 21.578 | 21.592 | VV | 72124 | 57128 | | |
| 369 | 21.599 | 21.592 | 21.614 | VV | 69216 | 87184 | | |
| 370 | 21.667 | 21.614 | 21.722 | VV | 72292 | 4227321 | 37.09% | 0.769% |
| 371 | 21.734 | 21.722 | 21.765 | VV | 61580 | 1522854 | 13.36% | 0.277% |
| 372 | 21.775 | 21.765 | 21.812 | VV | 59382 | 1546144 | 13.56% | 0.281% |
| 373 | 21.827 | 21.812 | 21.848 | VV | 53041 | 1049191 | 9.20% | 0.191% |
| 374 | 21.892 | 21.848 | 21.986 | VV | 56264 | 3889741 | 34.13% | 0.708% |
| 375 | 22.009 | 21.986 | 22.041 | VV | 42165 | 1271910 | 11.16% | 0.232% |
| 376 | 22.062 | 22.041 | 22.085 | VV | 40751 | 896767 | 7.87% | 0.163% |
| 377 | 22.097 | 22.085 | 22.110 | VV | 41247 | 524017 | 4.60% | 0.095% |
| 378 | 22.115 | 22.110 | 22.120 | VV | 32156 | 197448 | 1.73% | 0.036% |
| 379 | 22.169 | 22.120 | 22.227 | VV | 221667 | 6058181 | 53.15% | 1.103% |
| 380 | 22.242 | 22.227 | 22.253 | VV | 13101 | 183540 | 1.61% | 0.033% |
| 381 | 22.291 | 22.253 | 22.315 | VV | 25177 | 683983 | 6.00% | 0.124% |
| 382 | 22.328 | 22.315 | 22.379 | VV | 26786 | 550745 | 4.83% | 0.100% |

Sum of corrected areas: 549392639

Aliphatic EPH 103025.M Thu Nov 20 05:26:37 2025

Quantitation Report (QT Reviewed)

Sample Results: **FE056947.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111925AL\
Data File : FE056947.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 20:41
Operator : YP\AJ
Sample : Q3669-01MSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MSD

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Integration File: autoint1.E
Quant Time: Nov 20 01:27:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Tue Nov 18 13:37:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 9) S | ortho-Terphenyl (SURR) | 11.951 | 7602978 | 36.393 ug/mlm |
| Spiked Amount | 50.000 | | Recovery = | 72.79% |
| 12) S | 1-chlorooctadecane (S... | 13.388 | 9124954 | 56.636 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 113.27% |
| | Target Compounds | | | |
| 1) T | n-Nonane (C9) | 3.306 | 3047091 | 18.141 ug/ml |
| 2) T | n-Decane (C10) | 4.561 | 3926331 | 22.881 ug/ml |
| 3) T | A~Naphthalene (C11.7) | 6.277 | 5382862 | 29.162 ug/ml |
| 4) T | n-Dodecane (C12) | 6.735 | 6122815 | 35.203 ug/ml |
| 5) T | A~2-methylnaphthalene... | 7.377 | 6370614 | 35.947 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.570 | 8621119 | 49.390 ug/ml |
| 7) T | n-Hexadecane (C16) | 10.181 | 8310258 | 45.422 ug/ml |
| 8) T | n-Octadecane (C18) | 11.629 | 7540290 | 39.839 ug/ml |
| 10) T | n-Eicosane (C20) | 12.941 | 6972621 | 37.414 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.554 | 6450636 | 35.080 ug/ml |
| 13) T | n-Docosane (C22) | 14.143 | 6242356 | 33.346 ug/ml |
| 14) T | n-Tetracosane (C24) | 15.250 | 11481522 | 58.620 ug/ml |
| 15) T | n-Hexacosane (C26) | 16.273 | 5644230 | 29.043 ug/ml |
| 16) T | n-Octacosane (C28) | 17.224 | 5060678 | 26.132 ug/ml |
| 17) T | n-Tricontane (C30) | 18.117 | 5359937 | 26.733 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.951 | 6879438 | 34.983 ug/mlm |
| 19) T | n-Tetratriacontane (C34) | 19.737 | 5755907 | 33.346 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 20.481 | 5324325 | 36.807 ug/ml |
| 21) T | n-Octatriacontane (C38) | 21.234 | 4757762 | 37.802 ug/mlm |
| 22) T | n-Tetracontane (C40) | 22.172 | 5295921 | 45.807 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111925AL\
Data File : FE056947.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 20:41
Operator : YP\AJ
Sample : Q3669-01MSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

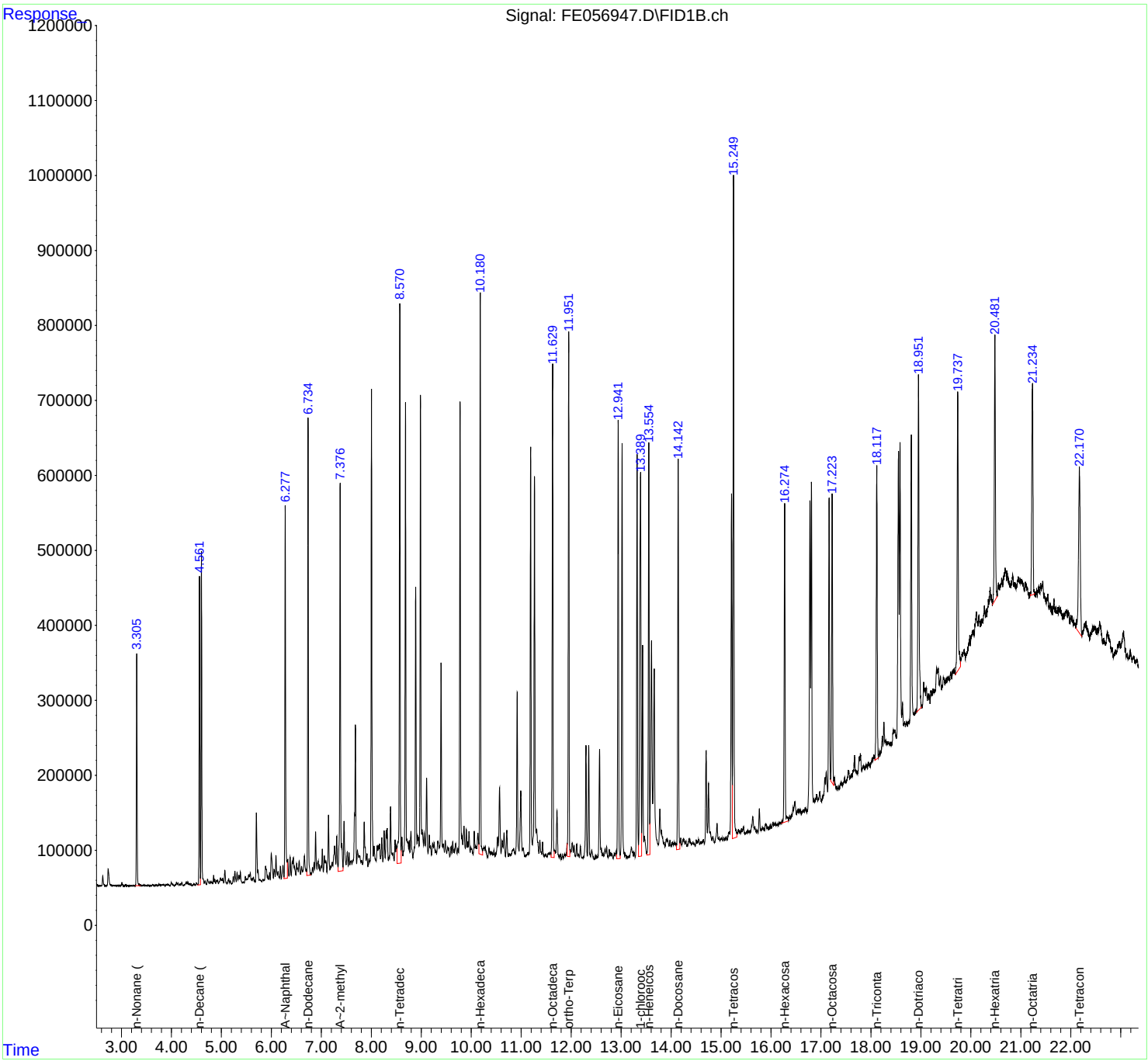
Integration File: autoint1.E
Quant Time: Nov 20 01:27:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Tue Nov 18 13:37:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MSD

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025



**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MSD

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE
Data File : FE056947.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2025 20:41
Sample : Q3669-01MSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.575 | 2.524 | 2.594 | BV | 167 | 1133 | 0.01% | 0.000% |
| 2 | 2.625 | 2.594 | 2.707 | PV | 13390 | 168440 | 1.31% | 0.031% |
| 3 | 2.734 | 2.707 | 2.838 | VV | 22263 | 397024 | 3.09% | 0.074% |
| 4 | 2.851 | 2.838 | 2.901 | VV | 627 | 13782 | 0.11% | 0.003% |
| 5 | 2.926 | 2.901 | 2.933 | VV | 301 | 3374 | 0.03% | 0.001% |
| 6 | 2.946 | 2.933 | 2.964 | VV | 491 | 6456 | 0.05% | 0.001% |
| 7 | 2.977 | 2.964 | 2.987 | VV | 323 | 3873 | 0.03% | 0.001% |
| 8 | 3.009 | 2.987 | 3.051 | VV | 4691 | 56916 | 0.44% | 0.011% |
| 9 | 3.088 | 3.051 | 3.107 | VV | 847 | 15180 | 0.12% | 0.003% |
| 10 | 3.117 | 3.107 | 3.140 | VV | 392 | 3710 | 0.03% | 0.001% |
| 11 | 3.175 | 3.140 | 3.207 | PV | 181 | 2575 | 0.02% | 0.000% |
| 12 | 3.238 | 3.207 | 3.255 | PV | 158 | 2197 | 0.02% | 0.000% |
| 13 | 3.266 | 3.255 | 3.278 | VV | 168 | 1788 | 0.01% | 0.000% |
| 14 | 3.306 | 3.278 | 3.408 | VV | 308724 | 3075473 | 23.92% | 0.570% |
| 15 | 3.422 | 3.408 | 3.438 | VV | 522 | 7393 | 0.06% | 0.001% |
| 16 | 3.450 | 3.438 | 3.468 | VV | 880 | 11013 | 0.09% | 0.002% |
| 17 | 3.480 | 3.468 | 3.501 | VV | 660 | 7614 | 0.06% | 0.001% |
| 18 | 3.519 | 3.501 | 3.531 | VV | 462 | 6524 | 0.05% | 0.001% |
| 19 | 3.549 | 3.531 | 3.574 | VV | 605 | 9100 | 0.07% | 0.002% |
| 20 | 3.590 | 3.574 | 3.604 | VV | 436 | 4669 | 0.04% | 0.001% |
| 21 | 3.621 | 3.604 | 3.664 | VV | 1632 | 25954 | 0.20% | 0.005% |
| 22 | 3.678 | 3.664 | 3.718 | VV | 634 | 13281 | 0.10% | 0.002% |
| 23 | 3.753 | 3.718 | 3.804 | VV | 2336 | 48255 | 0.38% | 0.009% |
| 24 | 3.835 | 3.804 | 3.871 | VV | 1423 | 33164 | 0.26% | 0.006% |
| 25 | 3.896 | 3.871 | 3.911 | VV | 1623 | 24185 | 0.19% | 0.004% |
| 26 | 3.940 | 3.911 | 3.966 | VV | 2244 | 36195 | 0.28% | 0.007% |
| 27 | 3.997 | 3.966 | 4.056 | VV | 3970 | 79401 | 0.62% | 0.015% |
| 28 | 4.100 | 4.056 | 4.116 | PV | 4509 | 63884 | 0.50% | 0.012% |
| 29 | 4.132 | 4.116 | 4.152 | VV | 3904 | 48665 | 0.38% | 0.009% |
| 30 | 4.170 | 4.152 | 4.187 | VV | 1723 | 29426 | 0.23% | 0.005% |
| 31 | 4.209 | 4.187 | 4.231 | VV | 4344 | 57061 | 0.44% | 0.011% |

**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

rteres

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|---|---|---|---|---|---|---|---|---|
| 32 | 4.244 | 4.231 | 4.258 | VV | 521 | 6402 | 0.05% | 0.001% |
| 33 | 4.299 | 4.258 | 4.316 | VV | 5158 | 9648 | | |
| 34 | 4.331 | 4.316 | 4.360 | VV | 4005 | 6622 | | |
| 35 | 4.371 | 4.360 | 4.414 | VV | 1933 | 3500 | | |
| 36 | 4.453 | 4.414 | 4.473 | PV | 2387 | 3609 | | |
| 37 | 4.500 | 4.473 | 4.526 | VV | 3047 | 46498 | 0.36% | 0.009% |
| 38 | 4.561 | 4.526 | 4.581 | VV | 411586 | 3940524 | 30.65% | 0.731% |
| 39 | 4.601 | 4.581 | 4.657 | VV | 444739 | 4521545 | 35.17% | 0.838% |
| 40 | 4.674 | 4.657 | 4.701 | VV | 5632 | 81092 | 0.63% | 0.015% |
| 41 | 4.723 | 4.701 | 4.757 | VV | 7523 | 133583 | 1.04% | 0.025% |
| 42 | 4.773 | 4.757 | 4.801 | VV | 4059 | 78636 | 0.61% | 0.015% |
| 43 | 4.811 | 4.801 | 4.826 | VV | 3127 | 35442 | 0.28% | 0.007% |
| 44 | 4.844 | 4.826 | 4.858 | VV | 12481 | 125778 | 0.98% | 0.023% |
| 45 | 4.868 | 4.858 | 4.884 | VV | 7113 | 70039 | 0.54% | 0.013% |
| 46 | 4.903 | 4.884 | 4.913 | VV | 5578 | 69918 | 0.54% | 0.013% |
| 47 | 4.924 | 4.913 | 4.941 | VV | 6142 | 65037 | 0.51% | 0.012% |
| 48 | 4.981 | 4.941 | 5.011 | VV | 8589 | 209936 | 1.63% | 0.039% |
| 49 | 5.024 | 5.011 | 5.046 | VV | 8341 | 110629 | 0.86% | 0.021% |
| 50 | 5.069 | 5.046 | 5.112 | VV | 18224 | 264771 | 2.06% | 0.049% |
| 51 | 5.144 | 5.112 | 5.161 | VV | 7035 | 100645 | 0.78% | 0.019% |
| 52 | 5.175 | 5.161 | 5.201 | VV | 4480 | 55127 | 0.43% | 0.010% |
| 53 | 5.237 | 5.201 | 5.253 | PV | 9966 | 115200 | 0.90% | 0.021% |
| 54 | 5.270 | 5.253 | 5.296 | VV | 16924 | 224395 | 1.75% | 0.042% |
| 55 | 5.314 | 5.296 | 5.333 | VV | 14688 | 191197 | 1.49% | 0.035% |
| 56 | 5.351 | 5.333 | 5.365 | VV | 10944 | 154035 | 1.20% | 0.029% |
| 57 | 5.380 | 5.365 | 5.419 | VV | 15416 | 196921 | 1.53% | 0.037% |
| 58 | 5.435 | 5.419 | 5.457 | VV | 1373 | 20882 | 0.16% | 0.004% |
| 59 | 5.479 | 5.457 | 5.493 | PV | 8698 | 100385 | 0.78% | 0.019% |
| 60 | 5.503 | 5.493 | 5.514 | VV | 5951 | 63036 | 0.49% | 0.012% |
| 61 | 5.544 | 5.514 | 5.555 | VV | 10743 | 179301 | 1.39% | 0.033% |
| 62 | 5.577 | 5.555 | 5.615 | VV | 13005 | 267353 | 2.08% | 0.050% |
| 63 | 5.640 | 5.615 | 5.657 | VV | 7387 | 115661 | 0.90% | 0.021% |
| 64 | 5.667 | 5.657 | 5.677 | VV | 3152 | 26400 | 0.21% | 0.005% |
| 65 | 5.700 | 5.677 | 5.754 | VV | 92032 | 1329972 | 10.34% | 0.247% |
| 66 | 5.771 | 5.754 | 5.807 | VV | 3792 | 70352 | 0.55% | 0.013% |
| 67 | 5.827 | 5.807 | 5.840 | VV | 3531 | 41873 | 0.33% | 0.008% |
| 68 | 5.852 | 5.840 | 5.861 | VV | 3201 | 28728 | 0.22% | 0.005% |
| 69 | 5.884 | 5.861 | 5.918 | VV | 20707 | 426763 | 3.32% | 0.079% |
| 70 | 5.927 | 5.918 | 5.946 | VV | 7707 | 91426 | 0.71% | 0.017% |
| 71 | 5.964 | 5.946 | 5.978 | VV | 11737 | 128447 | 1.00% | 0.024% |
| 72 | 5.999 | 5.978 | 6.040 | VV | 37149 | 741187 | 5.76% | 0.137% |
| 73 | 6.056 | 6.040 | 6.076 | VV | 15581 | 243858 | 1.90% | 0.045% |
| 74 | 6.092 | 6.076 | 6.119 | VV | 34068 | 455028 | 3.54% | 0.084% |
| 75 | 6.133 | 6.119 | 6.164 | VV | 12726 | 211905 | 1.65% | 0.039% |
| 76 | 6.180 | 6.164 | 6.199 | VV | 19352 | 220549 | 1.72% | 0.041% |
| 77 | 6.232 | 6.199 | 6.252 | VV | 20580 | 360917 | 2.81% | 0.067% |
| 78 | 6.277 | 6.252 | 6.321 | VV | 498641 | 5505823 | 42.82% | 1.021% |
| 79 | 6.328 | 6.321 | 6.351 | VV | 27809 | 322023 | 2.50% | 0.060% |

**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

rteres

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|---|---|---|---|---|---|---|---|---|
| 80 | 6.376 | 6.351 | 6.397 | VV | 30618 | 412980 | 3.21% | 0.077% |
| 81 | 6.419 | 6.397 | 6.427 | VV | 24526 | 32026 | | |
| 82 | 6.439 | 6.427 | 6.488 | VV | 29791 | 64992 | | |
| 83 | 6.506 | 6.488 | 6.537 | VV | 21565 | 42795 | | |
| 84 | 6.556 | 6.537 | 6.583 | VV | 24572 | 44475 | | |
| 85 | 6.605 | 6.583 | 6.621 | VV | 17340 | 279145 | 2.17% | 0.052% |
| 86 | 6.661 | 6.621 | 6.692 | VV | 31074 | 747999 | 5.82% | 0.139% |
| 87 | 6.700 | 6.692 | 6.707 | VV | 12128 | 102856 | 0.80% | 0.019% |
| 88 | 6.734 | 6.707 | 6.781 | VV | 611625 | 6342654 | 49.33% | 1.176% |
| 89 | 6.792 | 6.781 | 6.803 | VV | 8158 | 94283 | 0.73% | 0.017% |
| 90 | 6.824 | 6.803 | 6.837 | VV | 14943 | 219680 | 1.71% | 0.041% |
| 91 | 6.856 | 6.837 | 6.868 | VV | 21038 | 292064 | 2.27% | 0.054% |
| 92 | 6.886 | 6.868 | 6.912 | VV | 62067 | 842331 | 6.55% | 0.156% |
| 93 | 6.936 | 6.912 | 6.974 | VV | 23099 | 634696 | 4.94% | 0.118% |
| 94 | 7.020 | 6.974 | 7.040 | VV | 38679 | 748119 | 5.82% | 0.139% |
| 95 | 7.061 | 7.040 | 7.112 | VV | 29400 | 809781 | 6.30% | 0.150% |
| 96 | 7.144 | 7.112 | 7.173 | VV | 83879 | 1216074 | 9.46% | 0.225% |
| 97 | 7.186 | 7.173 | 7.196 | VV | 15001 | 190337 | 1.48% | 0.035% |
| 98 | 7.218 | 7.196 | 7.230 | VV | 20213 | 345836 | 2.69% | 0.064% |
| 99 | 7.266 | 7.230 | 7.290 | VV | 41797 | 1022697 | 7.95% | 0.190% |
| 100 | 7.309 | 7.290 | 7.334 | VV | 54241 | 813382 | 6.33% | 0.151% |
| 101 | 7.377 | 7.334 | 7.434 | VV | 524273 | 6829832 | 53.12% | 1.266% |
| 102 | 7.455 | 7.434 | 7.495 | VV | 73696 | 1275472 | 9.92% | 0.236% |
| 103 | 7.520 | 7.495 | 7.539 | VV | 32582 | 623858 | 4.85% | 0.116% |
| 104 | 7.555 | 7.539 | 7.573 | VV | 31583 | 443540 | 3.45% | 0.082% |
| 105 | 7.590 | 7.573 | 7.614 | VV | 19931 | 454692 | 3.54% | 0.084% |
| 106 | 7.682 | 7.614 | 7.708 | VV | 200875 | 3532051 | 27.47% | 0.655% |
| 107 | 7.724 | 7.708 | 7.748 | VV | 33347 | 663520 | 5.16% | 0.123% |
| 108 | 7.768 | 7.748 | 7.793 | VV | 26288 | 630336 | 4.90% | 0.117% |
| 109 | 7.805 | 7.793 | 7.825 | VV | 19928 | 340688 | 2.65% | 0.063% |
| 110 | 7.859 | 7.825 | 7.896 | VV | 71226 | 1510456 | 11.75% | 0.280% |
| 111 | 7.914 | 7.896 | 7.933 | VV | 28826 | 473548 | 3.68% | 0.088% |
| 112 | 7.954 | 7.933 | 7.968 | VV | 21233 | 377465 | 2.94% | 0.070% |
| 113 | 8.055 | 8.041 | 8.098 | VV | 38303 | 895869 | 6.97% | 0.166% |
| 114 | 8.119 | 8.098 | 8.131 | VV | 38164 | 615958 | 4.79% | 0.114% |
| 115 | 8.145 | 8.131 | 8.155 | VV | 38267 | 504996 | 3.93% | 0.094% |
| 116 | 8.166 | 8.155 | 8.184 | VV | 40482 | 579777 | 4.51% | 0.107% |
| 117 | 8.211 | 8.184 | 8.232 | VV | 48768 | 865238 | 6.73% | 0.160% |
| 118 | 8.258 | 8.232 | 8.278 | VV | 57602 | 946633 | 7.36% | 0.176% |
| 119 | 8.298 | 8.278 | 8.307 | VV | 58255 | 755181 | 5.87% | 0.140% |
| 120 | 8.317 | 8.307 | 8.342 | VV | 60608 | 846022 | 6.58% | 0.157% |
| 121 | 8.385 | 8.342 | 8.422 | VV | 89395 | 1797094 | 13.98% | 0.333% |
| 122 | 8.435 | 8.422 | 8.457 | VV | 27509 | 493587 | 3.84% | 0.092% |
| 123 | 8.476 | 8.457 | 8.489 | VV | 44963 | 624067 | 4.85% | 0.116% |
| 124 | 8.501 | 8.489 | 8.512 | VV | 35850 | 455585 | 3.54% | 0.084% |
| 125 | 8.570 | 8.512 | 8.597 | VV | 763850 | 9326087 | 72.54% | 1.729% |
| 126 | 8.613 | 8.597 | 8.633 | VV | 47611 | 773602 | 6.02% | 0.143% |

**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

rteres

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|---|---|---|---|---|---|---|---|---|
| 127 | 8.684 | 8.633 | 8.746 | VV | 626471 | 8148728 | 63.38% | 1.511% |
| 128 | 8.758 | 8.746 | 8.773 | VV | 42446 | 57535 | | |
| 129 | 8.792 | 8.773 | 8.831 | VV | 53856 | 123202 | | |
| 130 | 8.926 | 8.915 | 8.956 | VV | 48081 | 105122 | | |
| 131 | 8.984 | 8.956 | 9.008 | VV | 635173 | 717204 | | |
| 132 | 9.016 | 9.008 | 9.044 | VV | 55644 | 1037579 | 8.07% | 0.192% |
| 133 | 9.059 | 9.044 | 9.079 | VV | 50830 | 869275 | 6.76% | 0.161% |
| 134 | 9.107 | 9.079 | 9.135 | VV | 123902 | 2083302 | 16.20% | 0.386% |
| 135 | 9.160 | 9.135 | 9.205 | VV | 47954 | 1372371 | 10.67% | 0.254% |
| 136 | 9.227 | 9.205 | 9.243 | VV | 36838 | 722240 | 5.62% | 0.134% |
| 137 | 9.257 | 9.243 | 9.306 | VV | 37580 | 1095249 | 8.52% | 0.203% |
| 138 | 9.333 | 9.306 | 9.358 | VV | 38449 | 1007759 | 7.84% | 0.187% |
| 139 | 9.396 | 9.358 | 9.429 | VV | 275701 | 3876724 | 30.15% | 0.719% |
| 140 | 9.441 | 9.429 | 9.462 | VV | 34782 | 608560 | 4.73% | 0.113% |
| 141 | 9.481 | 9.462 | 9.509 | VV | 38991 | 842728 | 6.55% | 0.156% |
| 142 | 9.531 | 9.509 | 9.541 | VV | 29001 | 521120 | 4.05% | 0.097% |
| 143 | 9.548 | 9.541 | 9.571 | VV | 28633 | 437003 | 3.40% | 0.081% |
| 144 | 9.598 | 9.571 | 9.613 | VV | 30623 | 606542 | 4.72% | 0.112% |
| 145 | 9.629 | 9.613 | 9.665 | VV | 37108 | 859302 | 6.68% | 0.159% |
| 146 | 9.687 | 9.665 | 9.716 | VV | 34094 | 852547 | 6.63% | 0.158% |
| 147 | 9.732 | 9.716 | 9.746 | VV | 27581 | 448713 | 3.49% | 0.083% |
| 148 | 9.777 | 9.746 | 9.830 | VV | 623158 | 7996307 | 62.20% | 1.483% |
| 149 | 9.855 | 9.830 | 9.881 | VV | 56964 | 1290002 | 10.03% | 0.239% |
| 150 | 9.902 | 9.881 | 9.920 | VV | 52577 | 893420 | 6.95% | 0.166% |
| 151 | 9.932 | 9.920 | 9.941 | VV | 35683 | 407116 | 3.17% | 0.075% |
| 152 | 9.956 | 9.941 | 9.979 | VV | 48822 | 794413 | 6.18% | 0.147% |
| 153 | 10.061 | 10.038 | 10.082 | VV | 48985 | 877366 | 6.82% | 0.163% |
| 154 | 10.092 | 10.082 | 10.108 | VV | 29183 | 444441 | 3.46% | 0.082% |
| 155 | 10.133 | 10.108 | 10.153 | VV | 46402 | 970393 | 7.55% | 0.180% |
| 156 | 10.181 | 10.153 | 10.226 | VV | 761715 | 9084771 | 70.66% | 1.684% |
| 157 | 10.257 | 10.226 | 10.272 | VV | 26937 | 694357 | 5.40% | 0.129% |
| 158 | 10.282 | 10.272 | 10.326 | VV | 26165 | 656306 | 5.10% | 0.122% |
| 159 | 10.398 | 10.389 | 10.422 | VV | 18858 | 363444 | 2.83% | 0.067% |
| 160 | 10.428 | 10.422 | 10.438 | VV | 17827 | 158457 | 1.23% | 0.029% |
| 161 | 10.454 | 10.438 | 10.478 | VV | 22130 | 442598 | 3.44% | 0.082% |
| 162 | 10.568 | 10.540 | 10.598 | VV | 104857 | 1903872 | 14.81% | 0.353% |
| 163 | 10.619 | 10.598 | 10.638 | VV | 34280 | 669967 | 5.21% | 0.124% |
| 164 | 10.713 | 10.685 | 10.745 | VV | 46980 | 919780 | 7.15% | 0.171% |
| 165 | 10.766 | 10.745 | 10.781 | VV | 16131 | 316646 | 2.46% | 0.059% |
| 166 | 10.850 | 10.781 | 10.872 | VV | 22770 | 999245 | 7.77% | 0.185% |
| 167 | 10.920 | 10.872 | 10.957 | VV | 231727 | 3327089 | 25.88% | 0.617% |
| 168 | 10.992 | 10.957 | 11.024 | VV | 98241 | 2033794 | 15.82% | 0.377% |
| 169 | 11.041 | 11.024 | 11.073 | VV | 22285 | 518167 | 4.03% | 0.096% |
| 170 | 11.137 | 11.073 | 11.151 | VV | 15746 | 630081 | 4.90% | 0.117% |
| 171 | 11.190 | 11.151 | 11.224 | VV | 556978 | 6585320 | 51.22% | 1.221% |
| 172 | 11.266 | 11.224 | 11.299 | VV | 512198 | 6780915 | 52.74% | 1.257% |
| 173 | 11.310 | 11.299 | 11.354 | VV | 46324 | 1044603 | 8.12% | 0.194% |
| 174 | 11.374 | 11.354 | 11.410 | VV | 32016 | 675160 | 5.25% | 0.125% |

**Instrument :**
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**Manual IntegrationsAPPROVED**

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rteres

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|---|---|---|---|---|---|---|---|---|
| 175 | 11.428 | 11.410 | 11.464 | VV | 28784 | 542707 | 4.22% | 0.101% |
| 176 | 11.489 | 11.464 | 11.518 | VV | 12011 | 34266 | | |
| 177 | 11.581 | 11.551 | 11.593 | VV | 13153 | 32185 | | |
| 178 | 11.629 | 11.593 | 11.661 | VV | 657939 | 785542 | | |
| 179 | 11.674 | 11.661 | 11.688 | VV | 16759 | 25168 | | |
| 180 | 11.716 | 11.688 | 11.765 | VV | 69078 | 1253488 | 9.75% | 0.232% |
| 181 | 11.782 | 11.765 | 11.804 | VV | 10872 | 189560 | 1.47% | 0.035% |
| 182 | 11.822 | 11.804 | 11.841 | VV | 10292 | 162451 | 1.26% | 0.030% |
| 183 | 11.869 | 11.841 | 11.878 | VV | 10203 | 181104 | 1.41% | 0.034% |
| 184 | 11.951 | 11.878 | 11.997 | VV | 703012 | 8399231 | 65.33% | 1.557% |
| 185 | 12.023 | 11.997 | 12.043 | VV | 25017 | 523485 | 4.07% | 0.097% |
| 186 | 12.110 | 12.088 | 12.132 | VV | 23573 | 369404 | 2.87% | 0.068% |
| 187 | 12.148 | 12.132 | 12.162 | VV | 9485 | 144733 | 1.13% | 0.027% |
| 188 | 12.185 | 12.162 | 12.214 | VV | 20068 | 340055 | 2.64% | 0.063% |
| 189 | 12.297 | 12.214 | 12.323 | VV | 153627 | 2151530 | 16.73% | 0.399% |
| 190 | 12.411 | 12.387 | 12.466 | VV | 12786 | 326959 | 2.54% | 0.061% |
| 191 | 12.496 | 12.466 | 12.514 | VV | 5432 | 105130 | 0.82% | 0.019% |
| 192 | 12.568 | 12.514 | 12.622 | VV | 146849 | 2210004 | 17.19% | 0.410% |
| 193 | 12.637 | 12.622 | 12.653 | VV | 8227 | 127586 | 0.99% | 0.024% |
| 194 | 12.678 | 12.653 | 12.696 | VV | 13971 | 259441 | 2.02% | 0.048% |
| 195 | 12.711 | 12.696 | 12.744 | VV | 16899 | 256084 | 1.99% | 0.047% |
| 196 | 12.763 | 12.744 | 12.779 | VV | 12993 | 161379 | 1.26% | 0.030% |
| 197 | 12.793 | 12.779 | 12.804 | VV | 8534 | 106636 | 0.83% | 0.020% |
| 198 | 12.815 | 12.804 | 12.840 | VV | 6741 | 94083 | 0.73% | 0.017% |
| 199 | 12.867 | 12.840 | 12.881 | VV | 6098 | 109360 | 0.85% | 0.020% |
| 200 | 12.900 | 12.881 | 12.910 | VV | 10567 | 136606 | 1.06% | 0.025% |
| 201 | 12.941 | 12.910 | 12.981 | VV | 586309 | 6983888 | 54.32% | 1.295% |
| 202 | 13.019 | 12.981 | 13.071 | VV | 548157 | 6496739 | 50.53% | 1.205% |
| 203 | 13.082 | 13.071 | 13.104 | VV | 5369 | 70144 | 0.55% | 0.013% |
| 204 | 13.121 | 13.104 | 13.131 | PV | 1971 | 20608 | 0.16% | 0.004% |
| 205 | 13.157 | 13.131 | 13.167 | VV | 1863 | 30169 | 0.23% | 0.006% |
| 206 | 13.206 | 13.167 | 13.247 | VV | 13117 | 328738 | 2.56% | 0.061% |
| 207 | 13.261 | 13.247 | 13.281 | VV | 5757 | 68719 | 0.53% | 0.013% |
| 208 | 13.320 | 13.281 | 13.347 | PV | 538023 | 6274406 | 48.80% | 1.163% |
| 209 | 13.388 | 13.347 | 13.411 | VV | 507779 | 9127803 | 71.00% | 1.692% |
| 210 | 13.430 | 13.411 | 13.454 | VV | 282073 | 3319140 | 25.82% | 0.615% |
| 211 | 13.465 | 13.454 | 13.514 | VV | 25929 | 524274 | 4.08% | 0.097% |
| 212 | 13.554 | 13.514 | 13.576 | VV | 542486 | 6460112 | 50.25% | 1.198% |
| 213 | 13.608 | 13.576 | 13.633 | VV | 284003 | 5223022 | 40.62% | 0.968% |
| 214 | 13.663 | 13.633 | 13.747 | VV | 249374 | 4979929 | 38.73% | 0.923% |
| 215 | 13.776 | 13.747 | 13.798 | VV | 58076 | 1040600 | 8.09% | 0.193% |
| 216 | 13.807 | 13.798 | 13.854 | VV | 29622 | 686471 | 5.34% | 0.127% |
| 217 | 13.860 | 13.854 | 13.879 | VV | 11780 | 149088 | 1.16% | 0.028% |
| 218 | 13.913 | 13.879 | 13.960 | VV | 16539 | 603584 | 4.69% | 0.112% |
| 219 | 13.978 | 13.960 | 14.004 | VV | 14198 | 259179 | 2.02% | 0.048% |
| 220 | 14.026 | 14.004 | 14.048 | VV | 10862 | 223240 | 1.74% | 0.041% |
| 221 | 14.065 | 14.048 | 14.078 | VV | 10253 | 157121 | 1.22% | 0.029% |

**Instrument :**
FID_E
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**Manual IntegrationsAPPROVED**

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Supervised By :Sohil Jodhani 11/20/2025

rteres

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|---|---|---|---|---|---|---|---|---|
| 222 | 14.095 | 14.078 | 14.111 | VV | 8470 | 148779 | 1.16% | 0.028% |
| 223 | 14.143 | 14.111 | 14.176 | VV | 522217 | 623371 | | |
| 224 | 14.194 | 14.176 | 14.218 | VV | 14777 | 23452 | | |
| 225 | 14.240 | 14.218 | 14.277 | VV | 11397 | 33144 | | |
| 226 | 14.294 | 14.277 | 14.317 | VV | 8785 | 15293 | | |
| 227 | 14.359 | 14.317 | 14.417 | VV | 11834 | 388515 | 3.02% | 0.072% |
| 228 | 14.437 | 14.417 | 14.484 | VV | 5901 | 150665 | 1.17% | 0.028% |
| 229 | 14.504 | 14.484 | 14.518 | PV | 8229 | 98171 | 0.76% | 0.018% |
| 230 | 14.553 | 14.518 | 14.573 | VV | 8172 | 184183 | 1.43% | 0.034% |
| 231 | 14.595 | 14.573 | 14.607 | VV | 4106 | 67677 | 0.53% | 0.013% |
| 232 | 14.646 | 14.607 | 14.667 | VV | 7342 | 156181 | 1.21% | 0.029% |
| 233 | 14.701 | 14.667 | 14.727 | VV | 125228 | 1736643 | 13.51% | 0.322% |
| 234 | 14.749 | 14.727 | 14.816 | VV | 81181 | 1441591 | 11.21% | 0.267% |
| 235 | 14.835 | 14.816 | 14.874 | VV | 8411 | 152541 | 1.19% | 0.028% |
| 236 | 14.920 | 14.874 | 14.944 | VV | 25214 | 440375 | 3.43% | 0.082% |
| 237 | 14.959 | 14.944 | 14.975 | VV | 5814 | 79191 | 0.62% | 0.015% |
| 238 | 15.017 | 14.975 | 15.037 | VV | 4644 | 110401 | 0.86% | 0.020% |
| 239 | 15.055 | 15.037 | 15.072 | VV | 4939 | 50821 | 0.40% | 0.009% |
| 240 | 15.099 | 15.072 | 15.118 | VV | 5046 | 72113 | 0.56% | 0.013% |
| 241 | 15.210 | 15.118 | 15.226 | PV | 461903 | 5977173 | 46.49% | 1.108% |
| 242 | 15.250 | 15.226 | 15.321 | VV | 884346 | 11552644 | 89.86% | 2.142% |
| 243 | 15.349 | 15.321 | 15.365 | VV | 11060 | 203882 | 1.59% | 0.038% |
| 244 | 15.378 | 15.365 | 15.392 | VV | 8792 | 113614 | 0.88% | 0.021% |
| 245 | 15.409 | 15.392 | 15.424 | VV | 10689 | 155857 | 1.21% | 0.029% |
| 246 | 15.449 | 15.424 | 15.478 | VV | 11847 | 246389 | 1.92% | 0.046% |
| 247 | 15.533 | 15.478 | 15.547 | VV | 5708 | 171032 | 1.33% | 0.032% |
| 248 | 15.560 | 15.547 | 15.584 | VV | 5765 | 93562 | 0.73% | 0.017% |
| 249 | 15.634 | 15.584 | 15.663 | VV | 22877 | 549897 | 4.28% | 0.102% |
| 250 | 15.676 | 15.663 | 15.704 | VV | 8556 | 138437 | 1.08% | 0.026% |
| 251 | 15.718 | 15.704 | 15.741 | VV | 4220 | 50377 | 0.39% | 0.009% |
| 252 | 15.766 | 15.741 | 15.808 | PV | 31148 | 438516 | 3.41% | 0.081% |
| 253 | 15.837 | 15.808 | 15.858 | VV | 4263 | 81871 | 0.64% | 0.015% |
| 254 | 15.895 | 15.858 | 15.959 | PV | 8252 | 197424 | 1.54% | 0.037% |
| 255 | 15.988 | 15.959 | 16.004 | VV | 3681 | 42329 | 0.33% | 0.008% |
| 256 | 16.034 | 16.004 | 16.049 | PV | 4686 | 72932 | 0.57% | 0.014% |
| 257 | 16.084 | 16.049 | 16.117 | VV | 3607 | 88505 | 0.69% | 0.016% |
| 258 | 16.134 | 16.117 | 16.148 | VV | 1871 | 17142 | 0.13% | 0.003% |
| 259 | 16.190 | 16.148 | 16.200 | VV | 2066 | 43391 | 0.34% | 0.008% |
| 260 | 16.219 | 16.200 | 16.229 | VV | 3407 | 38792 | 0.30% | 0.007% |
| 261 | 16.273 | 16.229 | 16.355 | VV | 427165 | 5633964 | 43.82% | 1.045% |
| 262 | 16.380 | 16.355 | 16.394 | PV | 4300 | 70545 | 0.55% | 0.013% |
| 263 | 16.412 | 16.394 | 16.421 | VV | 5804 | 70924 | 0.55% | 0.013% |
| 264 | 16.442 | 16.421 | 16.451 | VV | 14597 | 186828 | 1.45% | 0.035% |
| 265 | 16.475 | 16.451 | 16.509 | VV | 21241 | 466892 | 3.63% | 0.087% |
| 266 | 16.527 | 16.509 | 16.550 | VV | 7465 | 142989 | 1.11% | 0.027% |
| 267 | 16.579 | 16.550 | 16.606 | VV | 6488 | 166051 | 1.29% | 0.031% |
| 268 | 16.649 | 16.606 | 16.666 | VV | 4462 | 92889 | 0.72% | 0.017% |
| 269 | 16.685 | 16.666 | 16.709 | VV | 6000 | 77280 | 0.60% | 0.014% |

**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 270 | 16.780 | 16.709 | 16.794 | PV | 413578 | 5772101 | 44.90% | 1.070% |
| 271 | 16.810 | 16.794 | 16.879 | VV | 436361 | 560032 | | |
| 272 | 16.915 | 16.879 | 16.938 | VV | 14101 | 34708 | | |
| 273 | 16.976 | 16.938 | 17.011 | VV | 16114 | 36309 | | |
| 274 | 17.078 | 17.011 | 17.090 | VV | 30010 | 58378 | | |
| 275 | 17.107 | 17.090 | 17.133 | VV | 37330 | 660282 | 5.14% | 0.122% |
| 276 | 17.163 | 17.133 | 17.194 | VV | 398993 | 5344370 | 41.57% | 0.991% |
| 277 | 17.224 | 17.194 | 17.256 | VV | 401560 | 5705021 | 44.37% | 1.058% |
| 278 | 17.268 | 17.256 | 17.303 | VV | 22966 | 453955 | 3.53% | 0.084% |
| 279 | 17.321 | 17.303 | 17.338 | VV | 8758 | 152906 | 1.19% | 0.028% |
| 280 | 17.469 | 17.338 | 17.496 | VV | 13779 | 752418 | 5.85% | 0.140% |
| 281 | 17.547 | 17.496 | 17.584 | VV | 20787 | 675058 | 5.25% | 0.125% |
| 282 | 17.674 | 17.584 | 17.732 | VV | 34920 | 1395277 | 10.85% | 0.259% |
| 283 | 17.767 | 17.732 | 17.777 | VV | 29519 | 548141 | 4.26% | 0.102% |
| 284 | 17.789 | 17.777 | 17.820 | VV | 33385 | 591107 | 4.60% | 0.110% |
| 285 | 17.848 | 17.820 | 17.874 | VV | 15389 | 417127 | 3.24% | 0.077% |
| 286 | 17.894 | 17.874 | 17.930 | VV | 14419 | 387789 | 3.02% | 0.072% |
| 287 | 17.951 | 17.930 | 17.983 | VV | 15220 | 389225 | 3.03% | 0.072% |
| 288 | 18.059 | 17.983 | 18.078 | VV | 20913 | 872237 | 6.78% | 0.162% |
| 289 | 18.117 | 18.078 | 18.151 | VV | 404407 | 5951893 | 46.29% | 1.104% |
| 290 | 18.167 | 18.151 | 18.181 | VV | 21156 | 324337 | 2.52% | 0.060% |
| 291 | 18.227 | 18.181 | 18.241 | VV | 39199 | 915265 | 7.12% | 0.170% |
| 292 | 18.260 | 18.241 | 18.281 | VV | 56603 | 987705 | 7.68% | 0.183% |
| 293 | 18.291 | 18.281 | 18.312 | VV | 31854 | 550469 | 4.28% | 0.102% |
| 294 | 18.321 | 18.312 | 18.341 | VV | 27506 | 450343 | 3.50% | 0.084% |
| 295 | 18.349 | 18.341 | 18.381 | VV | 26473 | 574814 | 4.47% | 0.107% |
| 296 | 18.395 | 18.381 | 18.405 | VV | 24462 | 328461 | 2.55% | 0.061% |
| 297 | 18.448 | 18.405 | 18.458 | VV | 37271 | 891184 | 6.93% | 0.165% |
| 298 | 18.482 | 18.458 | 18.510 | VV | 36432 | 1048336 | 8.15% | 0.194% |
| 299 | 18.551 | 18.510 | 18.565 | VV | 405924 | 6294355 | 48.96% | 1.167% |
| 300 | 18.581 | 18.565 | 18.615 | VV | 416666 | 6246745 | 48.59% | 1.158% |
| 301 | 18.631 | 18.615 | 18.654 | VV | 66802 | 1251529 | 9.73% | 0.232% |
| 302 | 18.674 | 18.654 | 18.689 | VV | 41112 | 778868 | 6.06% | 0.144% |
| 303 | 18.715 | 18.689 | 18.733 | VV | 37223 | 963120 | 7.49% | 0.179% |
| 304 | 18.808 | 18.733 | 18.878 | VV | 416032 | 8527310 | 66.33% | 1.581% |
| 305 | 18.951 | 18.878 | 19.017 | VV | 489125 | 10618357 | 82.59% | 1.969% |
| 306 | 19.055 | 19.017 | 19.069 | VV | 77308 | 1859571 | 14.46% | 0.345% |
| 307 | 19.077 | 19.069 | 19.092 | VV | 68105 | 925250 | 7.20% | 0.172% |
| 308 | 19.110 | 19.092 | 19.128 | VV | 67213 | 1340509 | 10.43% | 0.249% |
| 309 | 19.144 | 19.128 | 19.157 | VV | 58762 | 952362 | 7.41% | 0.177% |
| 310 | 19.168 | 19.157 | 19.182 | VV | 54767 | 761906 | 5.93% | 0.141% |
| 311 | 19.204 | 19.182 | 19.224 | VV | 59975 | 1426695 | 11.10% | 0.265% |
| 312 | 19.257 | 19.224 | 19.271 | VV | 60749 | 1619361 | 12.60% | 0.300% |
| 313 | 19.315 | 19.271 | 19.326 | VV | 86834 | 2293934 | 17.84% | 0.425% |
| 314 | 19.347 | 19.326 | 19.370 | VV | 83952 | 2010120 | 15.63% | 0.373% |
| 315 | 19.391 | 19.370 | 19.414 | VV | 71374 | 1681155 | 13.08% | 0.312% |
| 316 | 19.449 | 19.414 | 19.481 | VV | 68326 | 2491187 | 19.38% | 0.462% |

**Instrument :**
FID_E
**ClientSampleId :**
EO-01-11182025MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Rahul Chavli 11/20/2025
Supervised By :Sohil Jodhani 11/20/2025

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 317 | 19.506 | 19.481 | 19.518 | VV | 64696 | 1337095 | 10.40% | 0.248% |
| 318 | 19.597 | 19.518 | 19.618 | VV | 69182 | 379930 | | |
| 319 | 19.642 | 19.618 | 19.654 | VV | 70609 | 149658 | | |
| 320 | 19.665 | 19.654 | 19.687 | VV | 70942 | 131694 | | |
| 321 | 19.737 | 19.687 | 19.794 | VV | 437633 | 998502 | | |
| 322 | 19.863 | 19.794 | 19.891 | VV | 87729 | 4804718 | 37.37% | 0.891% |
| 323 | 19.978 | 19.891 | 19.989 | VV | 103029 | 5144313 | 40.01% | 0.954% |
| 324 | 20.036 | 19.989 | 20.067 | VV | 104921 | 4730527 | 36.79% | 0.877% |
| 325 | 20.111 | 20.067 | 20.142 | VV | 127889 | 5268324 | 40.98% | 0.977% |
| 326 | 20.232 | 20.211 | 20.241 | VV | 114177 | 2035957 | 15.84% | 0.377% |
| 327 | 20.309 | 20.294 | 20.322 | VV | 124837 | 2028597 | 15.78% | 0.376% |
| 328 | 20.386 | 20.322 | 20.429 | VV | 149357 | 8582416 | 66.75% | 1.591% |
| 329 | 20.481 | 20.429 | 20.527 | VV | 478887 | 12856693 | 100.00% | 2.384% |
| 330 | 20.616 | 20.527 | 20.638 | VV | 153489 | 9704921 | 75.49% | 1.799% |
| 331 | 20.685 | 20.638 | 20.714 | VV | 162931 | 7069999 | 54.99% | 1.311% |
| 332 | 20.836 | 20.788 | 20.888 | VV | 150196 | 8381219 | 65.19% | 1.554% |
| 333 | 20.948 | 20.888 | 20.981 | VV | 141508 | 7478110 | 58.17% | 1.387% |
| 334 | 21.012 | 21.004 | 21.078 | VV | 134847 | 5616064 | 43.68% | 1.041% |
| 335 | 21.093 | 21.078 | 21.191 | VV | 127594 | 7888616 | 61.36% | 1.463% |
| 336 | 21.233 | 21.191 | 21.301 | VV | 385252 | 11804654 | 91.82% | 2.189% |
| 337 | 21.317 | 21.301 | 21.330 | VV | 110372 | 1834668 | 14.27% | 0.340% |
| 338 | 21.358 | 21.330 | 21.380 | VV | 111442 | 3189638 | 24.81% | 0.591% |
| 339 | 21.440 | 21.380 | 21.507 | VV | 115645 | 7834108 | 60.93% | 1.453% |
| 340 | 21.516 | 21.507 | 21.527 | VV | 89478 | 1083651 | 8.43% | 0.201% |
| 341 | 21.540 | 21.527 | 21.567 | VV | 94905 | 2007971 | 15.62% | 0.372% |
| 342 | 21.664 | 21.638 | 21.690 | VV | 83752 | 2295818 | 17.86% | 0.426% |
| 343 | 21.740 | 21.727 | 21.751 | VV | 67944 | 947620 | 7.37% | 0.176% |
| 344 | 21.793 | 21.779 | 21.833 | VV | 66921 | 1916053 | 14.90% | 0.355% |
| 345 | 21.910 | 21.833 | 21.922 | VV | 59020 | 2903600 | 22.58% | 0.538% |
| 346 | 21.930 | 21.922 | 21.986 | VV | 57415 | 1901163 | 14.79% | 0.353% |
| 347 | 22.000 | 21.986 | 22.078 | VV | 47936 | 2175931 | 16.92% | 0.403% |
| 348 | 22.083 | 22.078 | 22.099 | VV | 33030 | 394725 | 3.07% | 0.073% |
| 349 | 22.113 | 22.099 | 22.121 | VV | 36974 | 438578 | 3.41% | 0.081% |
| 350 | 22.172 | 22.121 | 22.221 | VV | 238224 | 6281762 | 48.86% | 1.165% |
| 351 | 22.269 | 22.221 | 22.376 | VV | 24534 | 1595991 | 12.41% | 0.296% |
| 352 | 22.388 | 22.376 | 22.394 | PV | 6834 | 28446 | 0.22% | 0.005% |

Sum of corrected areas: 539330577

Aliphatic EPH 103025.M Thu Nov 20 05:28:29 2025

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

# Manual Integration Report

| Sequence: | FE103025AL | Instrument | FID_e |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q3485-01 | FE056583.D | ortho-Terphenyl (SURR) | rahul | 10/31/2025 4:28:28 PM | yogesh | 10/31/2025 4:28:57 | Peak Integrated by Software |
| Q3485-02 | FE056584.D | 1-chlorooctadecane (SURR) | rahul | 10/31/2025 4:28:31 PM | yogesh | 10/31/2025 4:28:58 | Peak Integrated by Software |
| Q3485-02 | FE056584.D | ortho-Terphenyl (SURR) | rahul | 10/31/2025 4:28:31 PM | yogesh | 10/31/2025 4:28:58 | Peak Integrated by Software |
| Q3490-01 | FE056595.D | ortho-Terphenyl (SURR) | rahul | 10/31/2025 4:28:34 PM | yogesh | 10/31/2025 4:29:00 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FE111925AL | Instrument | FID_e |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q3652-01DL2 | FE056927.D | 1-chlorooctadecane (SURR) | rahul | 11/20/2025 9:06:13 AM | Sohil | 11/20/2025 4:00:00 | Peak Integrated by Software |
| Q3669-01 | FE056944.D | ortho-Terphenyl (SURR) | rahul | 11/20/2025 9:06:15 AM | Sohil | 11/20/2025 4:00:10 | Peak Integrated by Software |
| Q3669-01D | FE056945.D | ortho-Terphenyl (SURR) | rahul | 11/20/2025 9:06:17 AM | Sohil | 11/20/2025 4:00:12 | Peak Integrated by Software |
| Q3669-01MS | FE056946.D | n-Dotriacontane (C32) | rahul | 11/20/2025 9:06:21 AM | Sohil | 11/20/2025 4:00:14 | Peak Integrated by Software |
| Q3669-01MS | FE056946.D | n-Octadecane (C18) | rahul | 11/20/2025 9:06:21 AM | Sohil | 11/20/2025 4:00:14 | Peak Integrated by Software |
| Q3669-01MS | FE056946.D | ortho-Terphenyl (SURR) | rahul | 11/20/2025 9:06:21 AM | Sohil | 11/20/2025 4:00:14 | Peak Integrated by Software |
| Q3669-01MSD | FE056947.D | n-Dotriacontane (C32) | rahul | 11/20/2025 9:06:28 AM | Sohil | 11/20/2025 4:00:16 | Peak Integrated by Software |
| Q3669-01MSD | FE056947.D | n-Octatriacontane (C38) | rahul | 11/20/2025 9:06:28 AM | Sohil | 11/20/2025 4:00:16 | Peak Integrated by Software |
| Q3669-01MSD | FE056947.D | ortho-Terphenyl (SURR) | rahul | 11/20/2025 9:06:28 AM | Sohil | 11/20/2025 4:00:16 | Peak Integrated by Software |
| Q3669-02 | FE056948.D | ortho-Terphenyl (SURR) | rahul | 11/20/2025 9:06:32 AM | Sohil | 11/20/2025 4:00:17 | Peak Integrated by Software |

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

**Instrument ID: FID_E**

## Daily Analysis Runlog For Sequence/QCBatch ID # FE103025AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/30/2025 10:43:15 AM | | |
| Supervise By | Sohil | Supervise On | 10/30/2025 4:01:31 PM | | |
| SubDirectory | FE103025AL | HP Acquire Method | | HP Processing Method | FE103025AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24768,PP24770,PP24771,PP24772,PP24773 |
| CCC | PP24771 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24769,PP24774 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FE056573.D | 30 Oct 2025 09:19 | YP\AJ | Ok |
| 2 | I.BLK | FE056574.D | 30 Oct 2025 09:49 | YP\AJ | Ok |
| 3 | 100 PPM ALIPHATIC HC STD1 | FE056575.D | 30 Oct 2025 10:20 | YP\AJ | Ok |
| 4 | 50 PPM ALIPHATIC HC STD2 | FE056576.D | 30 Oct 2025 10:50 | YP\AJ | Ok |
| 5 | 20 PPM ALIPHATIC HC STD3 | FE056577.D | 30 Oct 2025 11:20 | YP\AJ | Ok |
| 6 | 10 PPM ALIPHATIC HC STD4 | FE056578.D | 30 Oct 2025 11:51 | YP\AJ | Ok |
| 7 | 5 PPM ALIPHATIC HC STD5 | FE056579.D | 30 Oct 2025 12:21 | YP\AJ | Ok |
| 8 | 20 PPM ALIPHATIC HC STD ICV | FE056580.D | 30 Oct 2025 12:51 | YP\AJ | Ok |
| 9 | I.BLK | FE056581.D | 30 Oct 2025 13:21 | YP\AJ | Ok |
| 10 | 20 PPM ALIPHATIC HC STD | FE056582.D | 30 Oct 2025 13:52 | YP\AJ | Ok |
| 11 | Q3485-01 | FE056583.D | 30 Oct 2025 14:52 | YP\AJ | Ok,M |
| 12 | Q3485-02 | FE056584.D | 30 Oct 2025 15:23 | YP\AJ | Ok,M |
| 13 | Q3486-01 | FE056585.D | 30 Oct 2025 15:53 | YP\AJ | Ok |
| 14 | Q3486-02 | FE056586.D | 30 Oct 2025 16:25 | YP\AJ | Ok |
| 15 | Q3486-03 | FE056587.D | 30 Oct 2025 16:56 | YP\AJ | Dilution |
| 16 | Q3486-04 | FE056588.D | 30 Oct 2025 17:26 | YP\AJ | Ok |
| 17 | Q3486-06 | FE056589.D | 30 Oct 2025 17:57 | YP\AJ | Ok |
| 18 | Q3486-07 | FE056590.D | 30 Oct 2025 18:27 | YP\AJ | ReRun |
| 19 | Q3486-08 | FE056591.D | 30 Oct 2025 18:58 | YP\AJ | ReRun |
| 20 | Q3488-01 | FE056592.D | 30 Oct 2025 19:28 | YP\AJ | Ok |
| 21 | Q3488-04 | FE056593.D | 30 Oct 2025 19:59 | YP\AJ | Dilution |

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Fax : 908 789 8922

**Instrument ID: FID_E**

## Daily Analysis Runlog For Sequence/QCBatch ID # FE103025AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/30/2025 10:43:15 AM | | |
| Supervise By | Sohil | Supervise On | 10/30/2025 4:01:31 PM | | |
| SubDirectory | FE103025AL | HP Acquire Method | | HP Processing Method | FE103025AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24768,PP24770,PP24771,PP24772,PP24773 |
| CCC | PP24771 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24769,PP24774 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q3488-06 | FE056594.D | 30 Oct 2025 20:29 | YP\AJ | Dilution |
| 23 | Q3490-01 | FE056595.D | 30 Oct 2025 21:00 | YP\AJ | Dilution |
| 24 | Q3488-02 | FE056596.D | 30 Oct 2025 21:30 | YP\AJ | Dilution |
| 25 | I.BLK | FE056597.D | 30 Oct 2025 23:01 | YP\AJ | Ok |
| 26 | 20 PPM ALIPHATIC HC STD | FE056598.D | 30 Oct 2025 23:32 | YP\AJ | Ok |

M : Manual Integration

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

**Instrument ID: FID_E**

## Daily Analysis Runlog For Sequence/QCBatch ID # FE111925AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 3:03:33 PM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 4:00:25 PM | | |
| SubDirectory | FE111925AL | HP Acquire Method | | HP Processing Method | FE103025AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24768,PP24770,PP24771,PP24772,PP24773 |
| CCC | PP24771 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24769,PP24774 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FE056923.D | 19 Nov 2025 07:04 | YP\AJ | Ok |
| 2 | I.BLK | FE056924.D | 19 Nov 2025 07:35 | YP\AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC STD | FE056925.D | 19 Nov 2025 08:05 | YP\AJ | Ok |
| 4 | Q3652-01DL | FE056926.D | 19 Nov 2025 08:52 | YP\AJ | Dilution |
| 5 | Q3652-01DL2 | FE056927.D | 19 Nov 2025 09:22 | YP\AJ | Ok,M |
| 6 | Q3656-01DL | FE056928.D | 19 Nov 2025 09:52 | YP\AJ | Dilution |
| 7 | Q3656-01DL2 | FE056929.D | 19 Nov 2025 10:22 | YP\AJ | Not Ok |
| 8 | Q3656-02DL | FE056930.D | 19 Nov 2025 10:52 | YP\AJ | Dilution |
| 9 | Q3656-02DL2 | FE056931.D | 19 Nov 2025 11:22 | YP\AJ | Ok |
| 10 | I.BLK | FE056932.D | 19 Nov 2025 12:22 | YP\AJ | Ok |
| 11 | 20 PPM ALIPHATIC HC STD | FE056933.D | 19 Nov 2025 12:53 | YP\AJ | Ok |
| 12 | PB170632BL | FE056934.D | 19 Nov 2025 14:09 | YP\AJ | Ok |
| 13 | PB170632BS | FE056935.D | 19 Nov 2025 14:39 | YP\AJ | Ok |
| 14 | PB170632BSD | FE056936.D | 19 Nov 2025 15:09 | YP\AJ | Ok |
| 15 | Q3662-04 | FE056937.D | 19 Nov 2025 15:39 | YP\AJ | Ok |
| 16 | Q3664-01 | FE056938.D | 19 Nov 2025 16:09 | YP\AJ | Ok |
| 17 | Q3664-02 | FE056939.D | 19 Nov 2025 16:40 | YP\AJ | Ok |
| 18 | Q3664-03 | FE056940.D | 19 Nov 2025 17:10 | YP\AJ | Ok |
| 19 | Q3664-04 | FE056941.D | 19 Nov 2025 17:40 | YP\AJ | Ok |
| 20 | Q3664-05 | FE056942.D | 19 Nov 2025 18:10 | YP\AJ | Ok |
| 21 | Q3664-06 | FE056943.D | 19 Nov 2025 18:40 | YP\AJ | Ok |

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Fax : 908 789 8922

**Instrument ID: FID_E**

## Daily Analysis Runlog For Sequence/QCBatch ID # FE111925AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 3:03:33 PM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 4:00:25 PM | | |
| SubDirectory | FE111925AL | HP Acquire Method | | HP Processing Method | FE103025AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24768,PP24770,PP24771,PP24772,PP24773 |
| CCC | PP24771 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24769,PP24774 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q3669-01 | FE056944.D | 19 Nov 2025 19:11 | YP\AJ | Dilution |
| 23 | Q3669-01D | FE056945.D | 19 Nov 2025 19:40 | YP\AJ | Ok,M |
| 24 | Q3669-01MS | FE056946.D | 19 Nov 2025 20:11 | YP\AJ | Ok,M |
| 25 | Q3669-01MSD | FE056947.D | 19 Nov 2025 20:41 | YP\AJ | Ok,M |
| 26 | Q3669-02 | FE056948.D | 19 Nov 2025 21:11 | YP\AJ | Dilution |
| 27 | Q3656-01DL2 | FE056949.D | 19 Nov 2025 21:41 | YP\AJ | Not Ok |
| 28 | I.BLK | FE056950.D | 19 Nov 2025 22:42 | YP\AJ | Ok |
| 29 | 20 PPM ALIPHATIC HC STD | FE056951.D | 19 Nov 2025 23:12 | YP\AJ | Ok |

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**Instrument ID:** FID_E

## Daily Analysis Runlog For Sequence/QCBatch ID # FE103025AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/30/2025 10:43:15 AM | | |
| Supervise By | Sohil | Supervise On | 10/30/2025 4:01:31 PM | | |
| SubDirectory | FE103025AL | HP Acquire Method | | HP Processing Method | FE103025AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24768,PP24770,PP24771,PP24772,PP24773 |
| CCC | PP24771 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24769,PP24774 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FE056573.D | 30 Oct 2025 09:19 | | YP\AJ | Ok |
| 2 | I.BLK | I.BLK | FE056574.D | 30 Oct 2025 09:49 | | YP\AJ | Ok |
| 3 | 100 PPM ALIPHATIC H | 100 PPM ALIPHATIC H | FE056575.D | 30 Oct 2025 10:20 | | YP\AJ | Ok |
| 4 | 50 PPM ALIPHATIC HC | 50 PPM ALIPHATIC HC | FE056576.D | 30 Oct 2025 10:50 | | YP\AJ | Ok |
| 5 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FE056577.D | 30 Oct 2025 11:20 | | YP\AJ | Ok |
| 6 | 10 PPM ALIPHATIC HC | 10 PPM ALIPHATIC HC | FE056578.D | 30 Oct 2025 11:51 | | YP\AJ | Ok |
| 7 | 5 PPM ALIPHATIC HC | 5 PPM ALIPHATIC HC | FE056579.D | 30 Oct 2025 12:21 | | YP\AJ | Ok |
| 8 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FE056580.D | 30 Oct 2025 12:51 | | YP\AJ | Ok |
| 9 | I.BLK | I.BLK | FE056581.D | 30 Oct 2025 13:21 | | YP\AJ | Ok |
| 10 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FE056582.D | 30 Oct 2025 13:52 | | YP\AJ | Ok |
| 11 | Q3485-01 | TR-04-102925 | FE056583.D | 30 Oct 2025 14:52 | | YP\AJ | Ok,M |
| 12 | Q3485-02 | TR-04-102925-E2 | FE056584.D | 30 Oct 2025 15:23 | | YP\AJ | Ok,M |
| 13 | Q3486-01 | TP3 | FE056585.D | 30 Oct 2025 15:53 | | YP\AJ | Ok |
| 14 | Q3486-02 | TP3-E2 | FE056586.D | 30 Oct 2025 16:25 | | YP\AJ | Ok |
| 15 | Q3486-03 | TP4 | FE056587.D | 30 Oct 2025 16:56 | Need 5X,Surrogate fail | YP\AJ | Dilution |
| 16 | Q3486-04 | TP4-E2 | FE056588.D | 30 Oct 2025 17:26 | | YP\AJ | Ok |
| 17 | Q3486-06 | TP5-E2 | FE056589.D | 30 Oct 2025 17:57 | | YP\AJ | Ok |
| 18 | Q3486-07 | TP6 | FE056590.D | 30 Oct 2025 18:27 | Surrogate fail | YP\AJ | ReRun |

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**Instrument ID:** FID_E

## Daily Analysis Runlog For Sequence/QCBatch ID # FE103025AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 10/30/2025 10:43:15 AM | | |
| Supervise By | Sohil | Supervise On | 10/30/2025 4:01:31 PM | | |
| SubDirectory | FE103025AL | HP Acquire Method | | HP Processing Method | FE103025AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24768,PP24770,PP24771,PP24772,PP24773 |
| CCC | PP24771 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24769,PP24774 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3486-08 | TP6-E2 | FE056591.D | 30 Oct 2025 18:58 | Surrogate fail | YP\AJ | ReRun |
| 20 | Q3488-01 | MOO-25-0294-0298 | FE056592.D | 30 Oct 2025 19:28 | | YP\AJ | Ok |
| 21 | Q3488-04 | MOO-25-0302-0310 | FE056593.D | 30 Oct 2025 19:59 | Need 500X | YP\AJ | Dilution |
| 22 | Q3488-06 | MOO-25-0311-0313 | FE056594.D | 30 Oct 2025 20:29 | Need further 20X | YP\AJ | Dilution |
| 23 | Q3490-01 | LAW-25-0151 | FE056595.D | 30 Oct 2025 21:00 | Need further 10X | YP\AJ | Dilution |
| 24 | Q3488-02 | MOO-25-0299 | FE056596.D | 30 Oct 2025 21:30 | Need further 20X | YP\AJ | Dilution |
| 25 | I.BLK | I.BLK | FE056597.D | 30 Oct 2025 23:01 | | YP\AJ | Ok |
| 26 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FE056598.D | 30 Oct 2025 23:32 | | YP\AJ | Ok |

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**Instrument ID:** FID_E

## Daily Analysis Runlog For Sequence/QCBatch ID # FE111925AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 3:03:33 PM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 4:00:25 PM | | |
| SubDirectory | FE111925AL | HP Acquire Method | | HP Processing Method | FE103025AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24768,PP24770,PP24771,PP24772,PP24773 |
| CCC | PP24771 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24769,PP24774 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FE056923.D | 19 Nov 2025 07:04 | | YP\AJ | Ok |
| 2 | I.BLK | I.BLK | FE056924.D | 19 Nov 2025 07:35 | | YP\AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FE056925.D | 19 Nov 2025 08:05 | | YP\AJ | Ok |
| 4 | Q3652-01DL | TP-1DL | FE056926.D | 19 Nov 2025 08:52 | | YP\AJ | Dilution |
| 5 | Q3652-01DL2 | TP-1DL2 | FE056927.D | 19 Nov 2025 09:22 | | YP\AJ | Ok,M |
| 6 | Q3656-01DL | T2-GRAVELDL | FE056928.D | 19 Nov 2025 09:52 | | YP\AJ | Dilution |
| 7 | Q3656-01DL2 | Q3656-01DL2 | FE056929.D | 19 Nov 2025 10:22 | Need more dilution | YP\AJ | Not Ok |
| 8 | Q3656-02DL | T2-GRAVEL-E2DL | FE056930.D | 19 Nov 2025 10:52 | | YP\AJ | Dilution |
| 9 | Q3656-02DL2 | T2-GRAVEL-E2DL2 | FE056931.D | 19 Nov 2025 11:22 | | YP\AJ | Ok |
| 10 | I.BLK | I.BLK | FE056932.D | 19 Nov 2025 12:22 | | YP\AJ | Ok |
| 11 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FE056933.D | 19 Nov 2025 12:53 | | YP\AJ | Ok |
| 12 | PB170632BL | PB170632BL | FE056934.D | 19 Nov 2025 14:09 | | YP\AJ | Ok |
| 13 | PB170632BS | PB170632BS | FE056935.D | 19 Nov 2025 14:39 | | YP\AJ | Ok |
| 14 | PB170632BSD | PB170632BSD | FE056936.D | 19 Nov 2025 15:09 | | YP\AJ | Ok |
| 15 | Q3662-04 | B1-0.0-1.0-20251117 | FE056937.D | 19 Nov 2025 15:39 | | YP\AJ | Ok |
| 16 | Q3664-01 | ARS20-0001 | FE056938.D | 19 Nov 2025 16:09 | | YP\AJ | Ok |
| 17 | Q3664-02 | ARS20-0001-E2 | FE056939.D | 19 Nov 2025 16:40 | | YP\AJ | Ok |
| 18 | Q3664-03 | ARS20-0013 | FE056940.D | 19 Nov 2025 17:10 | | YP\AJ | Ok |

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**Instrument ID:** FID_E

## Daily Analysis Runlog For Sequence/QCBatch ID # FE111925AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | rahul | Review On | 11/19/2025 3:03:33 PM | | |
| Supervise By | Sohil | Supervise On | 11/20/2025 4:00:25 PM | | |
| SubDirectory | FE111925AL | HP Acquire Method | | HP Processing Method | FE103025AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24768,PP24770,PP24771,PP24772,PP24773 |
| CCC | PP24771 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24769,PP24774 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3664-04 | ARS20-0013-E2 | FE056941.D | 19 Nov 2025 17:40 | | YP\AJ | Ok |
| 20 | Q3664-05 | 291399 | FE056942.D | 19 Nov 2025 18:10 | | YP\AJ | Ok |
| 21 | Q3664-06 | 291399-E2 | FE056943.D | 19 Nov 2025 18:40 | | YP\AJ | Ok |
| 22 | Q3669-01 | EO-01-11182025 | FE056944.D | 19 Nov 2025 19:11 | Need 2X | YP\AJ | Dilution |
| 23 | Q3669-01D | Q3669-01D | FE056945.D | 19 Nov 2025 19:40 | | YP\AJ | Ok,M |
| 24 | Q3669-01MS | EO-01-11182025MS | FE056946.D | 19 Nov 2025 20:11 | FE056944.D | YP\AJ | Ok,M |
| 25 | Q3669-01MSD | EO-01-11182025MSD | FE056947.D | 19 Nov 2025 20:41 | FE056944.D!FE056946.D | YP\AJ | Ok,M |
| 26 | Q3669-02 | EO-01-11182025-E2 | FE056948.D | 19 Nov 2025 21:11 | Need 5X | YP\AJ | Dilution |
| 27 | Q3656-01DL2 | Q3656-01DL2 | FE056949.D | 19 Nov 2025 21:41 | Carry over | YP\AJ | Not Ok |
| 28 | I.BLK | I.BLK | FE056950.D | 19 Nov 2025 22:42 | | YP\AJ | Ok |
| 29 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FE056951.D | 19 Nov 2025 23:12 | | YP\AJ | Ok |

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Alliance TECHNICAL GROUP

# EXTRACTION LOGPAGE

PB170632

**SOP ID:** MNJDEP-EPH-8

**Clean Up SOP #:** N/A

**Matrix :** Solid

**Weigh By:** EH

**Balance check:** EH

**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 :** 11/19/2025

**Extraction Start Time :** 09:45

**Extraction End Date :** 11/19/2025

**Extraction End Time :** 13:55

**Concentration By:** EH

**Supervisor By :** RUPESH

**Extraction Method:** ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 100 PPM | PP25005 |
| Surrogate | 1.0ML | 100 PPM | PP25012 |
| Fractionation Surrogate | 1.0ML | 100 PPM | PP24994 |
| 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 | EP2659 |
| Baked Na2SO4 | N/A | EP2655 |
| Sand | N/A | E3951 |
| Hexane | N/A | E3984 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| 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:**

N/A

**KD Bath ID:** N/A

**KD Bath Temperature:** N/A

**Envap ID:** N-EVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/19/25 | RS (Ext-lab) | R. Post/PCB Lab |
| 14:00 | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB170632**

**Analytical Method:** MNJDEP-EPH-8

**Concentration Date:** 11/19/2025

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB170632BL | PB170632BL | EPH_NF | 30.01 | N/A | ritesh | Evelyn | 2 | | | U3-1 |
| PB170632BS | PB170632BS | EPH_NF | 30.03 | N/A | ritesh | Evelyn | 2 | | | 2 |
| PB170632BSD | PB170632BSD | EPH_NF | 30.02 | N/A | ritesh | Evelyn | 2 | | | 3 |
| Q3662-04 | B3-0.0-1.0-20251117 | EPH_NF | 30.09 | N/A | ritesh | Evelyn | 2 | A | | 4 |
| Q3664-01 | ARS20-0001 | EPH_NF | 30.08 | N/A | ritesh | Evelyn | 2 | E | Concrete | 5 |
| Q3664-02 | ARS20-0001-E2 | EPH_NF | 30.07 | N/A | ritesh | Evelyn | 2 | | Concrete | 6 |
| Q3664-03 | ARS20-0013 | EPH_NF | 30.05 | N/A | ritesh | Evelyn | 2 | E | Concrete | U4-1 |
| Q3664-04 | ARS20-0013-E2 | EPH_NF | 30.02 | N/A | ritesh | Evelyn | 2 | | Concrete | 2 |
| Q3664-05 | 291399 | EPH_NF | 30.03 | N/A | ritesh | Evelyn | 2 | E | Concrete | 3 |
| Q3664-06 | 291399-E2 | EPH_NF | 30.06 | N/A | ritesh | Evelyn | 2 | | Concrete | 4 |
| Q3669-01 | EO-01-11182025 | EPH_NF | 30.03 | N/A | ritesh | Evelyn | 2 | F | | 5 |
| Q3669-01DUP | EO-01-11182025DUP | EPH_NF | 30.05 | N/A | ritesh | Evelyn | 2 | F | | 6 |
| Q3669-01MS | EO-01-11182025MS | EPH_NF | 30.08 | N/A | ritesh | Evelyn | 2 | F | | U6-1 |
| Q3669-01MSD | EO-01-11182025MSD | EPH_NF | 30.04 | N/A | ritesh | Evelyn | 2 | F | | 2 |
| Q3669-02 | EO-01-11182025-E2 | EPH_NF | 30.08 | N/A | ritesh | Evelyn | 2 | | | 3 |

RS 11/19

* **Extracts relinquished on the same date as received.**

170632
9:45

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q3669 **WorkList ID :** 193212 **Department :** Extraction **Date :** 11-19-2025 08:42:31

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q3662-04 | B3-0.0-1.0-20251117 | Solid | EPH_NF | Cool 4 deg C | HDRI08 | D41 | 11/17/2025 | NJEPH |
| Q3664-01 | ARS20-0001 | Solid | EPH_NF | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | NJEPH |
| Q3664-02 | ARS20-0001-E2 | Solid | EPH_NF | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | NJEPH |
| Q3664-03 | ARS20-0013 | Solid | EPH_NF | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | NJEPH |
| Q3664-04 | ARS20-0013-E2 | Solid | EPH_NF | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | NJEPH |
| Q3664-05 | 291399 | Solid | EPH_NF | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | NJEPH |
| Q3664-06 | 291399-E2 | Solid | EPH_NF | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | NJEPH |
| Q3669-01 | EO-01-11182025 | Solid | EPH_NF | Cool 4 deg C | PSEG05 | D41 | 11/18/2025 | NJEPH |
| Q3669-02 | EO-01-11182025-E2 | Solid | EPH_NF | Cool 4 deg C | PSEG05 | D41 | 11/18/2025 | NJEPH |

**Date/Time** 11/19/25 9:40
**Raw Sample Received by:** RJ (Ext lab)
**Raw Sample Relinquished by:**



**Date/Time** 11/19/25 10:05
**Raw Sample Received by:**
**Raw Sample Relinquished by:** RJ (Ext lab)

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

# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q3662 | **OrderDate:** | 11/18/2025 11:14:00 AM |
| **Client:** | HDR, Inc. | **Project:** | PVWC Linear Construction |
| **Contact:** | Andrew Wadden | **Location:** | D41,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q3662-04** | **B1-0.0-1.0-20251117** | **Solid** | | | **11/17/25** | | | **11/18/25** |
| | | | EPH_NF | NJEPH | | 11/19/25 | 11/19/25 | |

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

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3662 **Order ID:** Q3662

**Client:** HDR, Inc. **Project ID:** PVWC Linear Construction

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : B3-0.0-1.0-20251117** | | | | | | | | |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Aluminum | 6090 | | 0.89 | 5.32 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Arsenic | 4.33 | | 0.20 | 1.06 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Barium | 43.7 | | 0.78 | 5.32 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Beryllium | 0.39 | | 0.027 | 0.32 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Cadmium | 1.38 | | 0.026 | 0.32 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Calcium | 2250 | | 11.8 | 106 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Chromium | 12.7 | | 0.050 | 0.53 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Cobalt | 4.80 | | 0.11 | 1.60 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Copper | 32.2 | | 0.23 | 1.06 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Iron | 14400 | | 4.24 | 5.32 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Lead | 117 | | 0.14 | 0.64 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Magnesium | 1110 | | 12.8 | 106 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Manganese | 255 | | 0.15 | 1.06 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Mercury | 0.18 | | 0.0090 | 0.017 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Nickel | 13.8 | | 0.14 | 2.13 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Potassium | 425 | | 29.5 | 106 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Sodium | 124 | | 18.9 | 106 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Vanadium | 19.4 | | 0.27 | 2.13 | mg/Kg |
| Q3662-02 | B3-0.0-1.0-20251117 | SOIL | Zinc | 113 | | 0.25 | 2.13 | mg/Kg |
| **Client ID : B1-0.0-1.0-20251117** | | | | | | | | |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Aluminum | 4040 | | 0.87 | 5.16 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Arsenic | 3.24 | | 0.20 | 1.03 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Barium | 34.7 | | 0.75 | 5.16 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Beryllium | 0.27 | J | 0.026 | 0.31 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Cadmium | 0.81 | | 0.025 | 0.31 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Calcium | 1500 | | 11.5 | 103 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Chromium | 8.41 | | 0.048 | 0.52 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Cobalt | 4.64 | | 0.10 | 1.55 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Copper | 26.7 | | 0.23 | 1.03 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Iron | 8140 | | 4.12 | 5.16 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Lead | 158 | | 0.13 | 0.62 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Magnesium | 1010 | | 12.4 | 103 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Manganese | 155 | | 0.14 | 1.03 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Mercury | 0.12 | | 0.0080 | 0.015 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Nickel | 9.30 | | 0.13 | 2.06 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Potassium | 233 | | 28.6 | 103 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Sodium | 67.4 | J | 18.4 | 103 | mg/Kg |

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Fax : 908 789 8922

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3662 **Order ID:** Q3662

**Client:** HDR, Inc. **Project ID:** PVWC Linear Construction

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Vanadium | 15.5 | | 0.26 | 2.06 | mg/Kg |
| Q3662-04 | B1-0.0-1.0-20251117 | SOIL | Zinc | 95.5 | | 0.24 | 2.06 | mg/Kg |

# SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.0-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-02 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 84.7 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6090 | | 1 | 0.89 | 5.32 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7440-36-0 | Antimony | 0.23 | UN | 1 | 0.23 | 2.66 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7440-38-2 | Arsenic | 4.33 | | 1 | 0.20 | 1.06 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7440-39-3 | Barium | 43.7 | | 1 | 0.78 | 5.32 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7440-41-7 | Beryllium | 0.39 | N | 1 | 0.027 | 0.32 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 1.38 | | 1 | 0.026 | 0.32 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7440-70-2 | Calcium | 2250 | | 1 | 11.8 | 106 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 12.7 | | 1 | 0.050 | 0.53 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7440-48-4 | Cobalt | 4.80 | | 1 | 0.11 | 1.60 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7440-50-8 | Copper | 32.2 | | 1 | 0.23 | 1.06 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7439-89-6 | Iron | 14400 | | 1 | 4.24 | 5.32 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7439-92-1 | Lead | 117 | N* | 1 | 0.14 | 0.64 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7439-95-4 | Magnesium | 1110 | | 1 | 12.8 | 106 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7439-96-5 | Manganese | 255 | | 1 | 0.15 | 1.06 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.18 | | 1 | 0.0090 | 0.017 | mg/Kg | 11/19/25 08:10 | 11/19/25 10:12 | 7471B | M7471B |
| 7440-02-0 | Nickel | 13.8 | | 1 | 0.14 | 2.13 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7440-09-7 | Potassium | 425 | | 1 | 29.5 | 106 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7782-49-2 | Selenium | 0.28 | U | 1 | 0.28 | 1.06 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7440-22-4 | Silver | 0.13 | UN | 1 | 0.13 | 0.53 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7440-23-5 | Sodium | 124 | N | 1 | 18.9 | 106 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7440-28-0 | Thallium | 0.25 | U | 1 | 0.25 | 2.13 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7440-62-2 | Vanadium | 19.4 | N | 1 | 0.27 | 2.13 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |
| 7440-66-6 | Zinc | 113 | N | 1 | 0.25 | 2.13 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:34 | 6010D | SW3050 |

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: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B1-0.0-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-04 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 88.1 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4040 | | 1 | 0.87 | 5.16 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7440-36-0 | Antimony | 0.23 | UN | 1 | 0.23 | 2.58 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7440-38-2 | Arsenic | 3.24 | | 1 | 0.20 | 1.03 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7440-39-3 | Barium | 34.7 | | 1 | 0.75 | 5.16 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7440-41-7 | Beryllium | 0.27 | JN | 1 | 0.026 | 0.31 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 0.81 | | 1 | 0.025 | 0.31 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7440-70-2 | Calcium | 1500 | | 1 | 11.5 | 103 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 8.41 | | 1 | 0.048 | 0.52 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7440-48-4 | Cobalt | 4.64 | | 1 | 0.10 | 1.55 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7440-50-8 | Copper | 26.7 | | 1 | 0.23 | 1.03 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7439-89-6 | Iron | 8140 | | 1 | 4.12 | 5.16 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7439-92-1 | Lead | 158 | N* | 1 | 0.13 | 0.62 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7439-95-4 | Magnesium | 1010 | | 1 | 12.4 | 103 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7439-96-5 | Manganese | 155 | | 1 | 0.14 | 1.03 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.12 | | 1 | 0.0080 | 0.015 | mg/Kg | 11/19/25 08:10 | 11/19/25 10:15 | 7471B | M7471B |
| 7440-02-0 | Nickel | 9.30 | | 1 | 0.13 | 2.06 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7440-09-7 | Potassium | 233 | | 1 | 28.6 | 103 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7782-49-2 | Selenium | 0.27 | U | 1 | 0.27 | 1.03 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7440-22-4 | Silver | 0.12 | UN | 1 | 0.12 | 0.52 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7440-23-5 | Sodium | 67.4 | JN | 1 | 18.4 | 103 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7440-28-0 | Thallium | 0.24 | U | 1 | 0.24 | 2.06 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7440-62-2 | Vanadium | 15.5 | N | 1 | 0.26 | 2.06 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |
| 7440-66-6 | Zinc | 95.5 | N | 1 | 0.24 | 2.06 | mg/Kg | 11/19/25 10:05 | 11/19/25 14:38 | 6010D | SW3050 |

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

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICB121** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 11/19/2025 | 09:54 | LB137962 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB12** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 11/19/2025 | 09:59 | LB137962 |
| **CCB13** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 11/19/2025 | 10:26 | LB137962 |
| **CCB14** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 11/19/2025 | 10:44 | LB137962 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Aluminum | 11.3 | +/-50 | U | 100 | P | 11/19/2025 | 12:53 | LB137974 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 11/19/2025 | 12:53 | LB137974 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 11/19/2025 | 12:53 | LB137974 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 11/19/2025 | 12:53 | LB137974 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 11/19/2025 | 12:53 | LB137974 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 11/19/2025 | 12:53 | LB137974 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 11/19/2025 | 12:53 | LB137974 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 11/19/2025 | 12:53 | LB137974 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 11/19/2025 | 12:53 | LB137974 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 11/19/2025 | 12:53 | LB137974 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 11/19/2025 | 12:53 | LB137974 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 11/19/2025 | 12:53 | LB137974 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 11/19/2025 | 12:53 | LB137974 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 11/19/2025 | 12:53 | LB137974 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 11/19/2025 | 12:53 | LB137974 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 11/19/2025 | 12:53 | LB137974 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 11/19/2025 | 12:53 | LB137974 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 11/19/2025 | 12:53 | LB137974 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 11/19/2025 | 12:53 | LB137974 |
| | Thallium | 6.49 | +/-20 | J | 40.0 | P | 11/19/2025 | 12:53 | LB137974 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 11/19/2025 | 12:53 | LB137974 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 11/19/2025 | 12:53 | LB137974 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCB01 | Aluminum | 11.3 | +/-50 | U | 100 | P | 11/19/2025 | 13:23 | LB137974 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 11/19/2025 | 13:23 | LB137974 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 11/19/2025 | 13:23 | LB137974 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 11/19/2025 | 13:23 | LB137974 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 11/19/2025 | 13:23 | LB137974 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 11/19/2025 | 13:23 | LB137974 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 11/19/2025 | 13:23 | LB137974 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 11/19/2025 | 13:23 | LB137974 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 11/19/2025 | 13:23 | LB137974 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 11/19/2025 | 13:23 | LB137974 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 11/19/2025 | 13:23 | LB137974 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 11/19/2025 | 13:23 | LB137974 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 11/19/2025 | 13:23 | LB137974 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 11/19/2025 | 13:23 | LB137974 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 11/19/2025 | 13:23 | LB137974 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 11/19/2025 | 13:23 | LB137974 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 11/19/2025 | 13:23 | LB137974 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 11/19/2025 | 13:23 | LB137974 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 11/19/2025 | 13:23 | LB137974 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 11/19/2025 | 13:23 | LB137974 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 11/19/2025 | 13:23 | LB137974 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 11/19/2025 | 13:23 | LB137974 |
| CCB02 | Aluminum | 11.3 | +/-50 | U | 100 | P | 11/19/2025 | 15:00 | LB137974 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 11/19/2025 | 15:00 | LB137974 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 11/19/2025 | 15:00 | LB137974 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 11/19/2025 | 15:00 | LB137974 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 11/19/2025 | 15:00 | LB137974 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 11/19/2025 | 15:00 | LB137974 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 11/19/2025 | 15:00 | LB137974 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 11/19/2025 | 15:00 | LB137974 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 11/19/2025 | 15:00 | LB137974 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 11/19/2025 | 15:00 | LB137974 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 11/19/2025 | 15:00 | LB137974 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 11/19/2025 | 15:00 | LB137974 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 11/19/2025 | 15:00 | LB137974 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 11/19/2025 | 15:00 | LB137974 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 11/19/2025 | 15:00 | LB137974 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 11/19/2025 | 15:00 | LB137974 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 11/19/2025 | 15:00 | LB137974 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB02** | Silver | 1.62 | +/-5 | U | 10.0 | P | 11/19/2025 | 15:00 | LB137974 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 11/19/2025 | 15:00 | LB137974 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 11/19/2025 | 15:00 | LB137974 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 11/19/2025 | 15:00 | LB137974 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 11/19/2025 | 15:00 | LB137974 |
| **CCB03** | Aluminum | 11.3 | +/-50 | U | 100 | P | 11/19/2025 | 16:18 | LB137974 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 11/19/2025 | 16:18 | LB137974 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 11/19/2025 | 16:18 | LB137974 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 11/19/2025 | 16:18 | LB137974 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 11/19/2025 | 16:18 | LB137974 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 11/19/2025 | 16:18 | LB137974 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 11/19/2025 | 16:18 | LB137974 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 11/19/2025 | 16:18 | LB137974 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 11/19/2025 | 16:18 | LB137974 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 11/19/2025 | 16:18 | LB137974 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 11/19/2025 | 16:18 | LB137974 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 11/19/2025 | 16:18 | LB137974 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 11/19/2025 | 16:18 | LB137974 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 11/19/2025 | 16:18 | LB137974 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 11/19/2025 | 16:18 | LB137974 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 11/19/2025 | 16:18 | LB137974 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 11/19/2025 | 16:18 | LB137974 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 11/19/2025 | 16:18 | LB137974 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 11/19/2025 | 16:18 | LB137974 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 11/19/2025 | 16:18 | LB137974 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 11/19/2025 | 16:18 | LB137974 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 11/19/2025 | 16:18 | LB137974 |
| **CCB04** | Aluminum | 11.3 | +/-50 | U | 100 | P | 11/19/2025 | 17:09 | LB137974 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 11/19/2025 | 17:09 | LB137974 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 11/19/2025 | 17:09 | LB137974 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 11/19/2025 | 17:09 | LB137974 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 11/19/2025 | 17:09 | LB137974 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 11/19/2025 | 17:09 | LB137974 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 11/19/2025 | 17:09 | LB137974 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 11/19/2025 | 17:09 | LB137974 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 11/19/2025 | 17:09 | LB137974 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 11/19/2025 | 17:09 | LB137974 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 11/19/2025 | 17:09 | LB137974 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 11/19/2025 | 17:09 | LB137974 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB04** | Magnesium | 244 | +/-1000 | U | 2000 | P | 11/19/2025 | 17:09 | LB137974 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 11/19/2025 | 17:09 | LB137974 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 11/19/2025 | 17:09 | LB137974 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 11/19/2025 | 17:09 | LB137974 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 11/19/2025 | 17:09 | LB137974 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 11/19/2025 | 17:09 | LB137974 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 11/19/2025 | 17:09 | LB137974 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 11/19/2025 | 17:09 | LB137974 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 11/19/2025 | 17:09 | LB137974 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 11/19/2025 | 17:09 | LB137974 |
| **CCB05** | Aluminum | 11.3 | +/-50 | U | 100 | P | 11/19/2025 | 18:11 | LB137974 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 11/19/2025 | 18:11 | LB137974 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 11/19/2025 | 18:11 | LB137974 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 11/19/2025 | 18:11 | LB137974 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 11/19/2025 | 18:11 | LB137974 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 11/19/2025 | 18:11 | LB137974 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 11/19/2025 | 18:11 | LB137974 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 11/19/2025 | 18:11 | LB137974 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 11/19/2025 | 18:11 | LB137974 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 11/19/2025 | 18:11 | LB137974 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 11/19/2025 | 18:11 | LB137974 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 11/19/2025 | 18:11 | LB137974 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 11/19/2025 | 18:11 | LB137974 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 11/19/2025 | 18:11 | LB137974 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 11/19/2025 | 18:11 | LB137974 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 11/19/2025 | 18:11 | LB137974 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 11/19/2025 | 18:11 | LB137974 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 11/19/2025 | 18:11 | LB137974 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 11/19/2025 | 18:11 | LB137974 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 11/19/2025 | 18:11 | LB137974 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 11/19/2025 | 18:11 | LB137974 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 11/19/2025 | 18:11 | LB137974 |
| **CCB06** | Aluminum | 15.2 | +/-50 | J | 100 | P | 11/19/2025 | 18:42 | LB137974 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 11/19/2025 | 18:42 | LB137974 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 11/19/2025 | 18:42 | LB137974 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 11/19/2025 | 18:42 | LB137974 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 11/19/2025 | 18:42 | LB137974 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 11/19/2025 | 18:42 | LB137974 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 11/19/2025 | 18:42 | LB137974 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCB06 | Chromium | 2.12 | +/-5 | U | 10.0 | P | 11/19/2025 | 18:42 | LB137974 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 11/19/2025 | 18:42 | LB137974 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 11/19/2025 | 18:42 | LB137974 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 11/19/2025 | 18:42 | LB137974 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 11/19/2025 | 18:42 | LB137974 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 11/19/2025 | 18:42 | LB137974 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 11/19/2025 | 18:42 | LB137974 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 11/19/2025 | 18:42 | LB137974 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 11/19/2025 | 18:42 | LB137974 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 11/19/2025 | 18:42 | LB137974 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 11/19/2025 | 18:42 | LB137974 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 11/19/2025 | 18:42 | LB137974 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 11/19/2025 | 18:42 | LB137974 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 11/19/2025 | 18:42 | LB137974 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 11/19/2025 | 18:42 | LB137974 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Instrument:** CV1

| Sample ID | Analyte | Result (mg/Kg) | Acceptance Limit | Conc Qual | CRQL mg/Kg | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB170614BL** | | **SOLID** | | **Batch Number:** | **PB170614** | | **Prep Date:** | **11/19/2025** | |
| | Mercury | 0.0080 | <0.014 | U | 0.014 | CV | 11/19/2025 | 10:08 | LB137962 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Instrument:** P4

| Sample ID | Analyte | Result (mg/Kg) | Acceptance Limit | Conc Qual | CRQL mg/Kg | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB170617BL** | | **SOLID** | | **Batch Number:** | **PB170617** | | **Prep Date:** | **11/19/2025** | |
| | Aluminum | 0.84 | <2.5 | U | 5.00 | P | 11/19/2025 | 13:27 | LB137974 |
| | Antimony | 0.22 | <1.25 | U | 2.50 | P | 11/19/2025 | 13:27 | LB137974 |
| | Arsenic | 0.19 | <0.5 | U | 1.00 | P | 11/19/2025 | 13:27 | LB137974 |
| | Barium | 0.73 | <2.5 | U | 5.00 | P | 11/19/2025 | 13:27 | LB137974 |
| | Beryllium | 0.025 | <0.15 | U | 0.30 | P | 11/19/2025 | 13:27 | LB137974 |
| | Cadmium | 0.024 | <0.15 | U | 0.30 | P | 11/19/2025 | 13:27 | LB137974 |
| | Calcium | 11.1 | <50 | U | 100 | P | 11/19/2025 | 13:27 | LB137974 |
| | Chromium | 0.047 | <0.25 | U | 0.50 | P | 11/19/2025 | 13:27 | LB137974 |
| | Cobalt | 0.10 | <0.75 | U | 1.50 | P | 11/19/2025 | 13:27 | LB137974 |
| | Copper | 0.22 | <0.5 | U | 1.00 | P | 11/19/2025 | 13:27 | LB137974 |
| | Iron | 3.99 | <2.5 | U | 5.00 | P | 11/19/2025 | 13:27 | LB137974 |
| | Lead | 0.13 | <0.3 | U | 0.60 | P | 11/19/2025 | 13:27 | LB137974 |
| | Magnesium | 12.0 | <50 | U | 100 | P | 11/19/2025 | 13:27 | LB137974 |
| | Manganese | 0.14 | <0.5 | U | 1.00 | P | 11/19/2025 | 13:27 | LB137974 |
| | Nickel | 0.13 | <1 | U | 2.00 | P | 11/19/2025 | 13:27 | LB137974 |
| | Potassium | 27.7 | <50 | U | 100 | P | 11/19/2025 | 13:27 | LB137974 |
| | Selenium | 0.26 | <0.5 | U | 1.00 | P | 11/19/2025 | 13:27 | LB137974 |
| | Silver | 0.12 | <0.25 | U | 0.50 | P | 11/19/2025 | 13:27 | LB137974 |
| | Sodium | 17.8 | <50 | U | 100 | P | 11/19/2025 | 13:27 | LB137974 |
| | Thallium | 0.23 | <1 | U | 2.00 | P | 11/19/2025 | 13:27 | LB137974 |
| | Vanadium | 0.25 | <1 | U | 2.00 | P | 11/19/2025 | 13:27 | LB137974 |
| | Zinc | 0.23 | <1 | U | 2.00 | P | 11/19/2025 | 13:27 | LB137974 |

# METAL CALIBRATION DATA

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** HDR, Inc.

**SDG No.:** Q3662

**Contract:** HDRI08

**Lab Code:** ACE

**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 |
|---|---|---|---|---|---|---|---|---|---|
| ICV121 | Mercury | 3.97 | 4.0 | 99 | 90 - 110 | CV | 11/19/2025 | 09:52 | LB137962 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** HDR, Inc.

**SDG No.:** Q3662

**Contract:** HDRI08

**Lab Code:** ACE

**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 |
|---|---|---|---|---|---|---|---|---|---|
| CCV12 | Mercury | 4.94 | 5.0 | 99 | 90 - 110 | CV | 11/19/2025 | 09:57 | LB137962 |
| CCV13 | Mercury | 4.87 | 5.0 | 97 | 90 - 110 | CV | 11/19/2025 | 10:24 | LB137962 |
| CCV14 | Mercury | 4.81 | 5.0 | 96 | 90 - 110 | CV | 11/19/2025 | 10:42 | LB137962 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** HDR, Inc.

**SDG No.:** Q3662

**Contract:** HDRI08

**Lab Code:** ACE

**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 | 7910 | 8000 | 99 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Antimony | 3960 | 4000 | 99 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Arsenic | 3860 | 4000 | 96 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Barium | 8100 | 8000 | 101 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Beryllium | 199 | 200 | 99 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Cadmium | 1920 | 2000 | 96 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Calcium | 19800 | 20000 | 99 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Chromium | 787 | 800 | 98 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Cobalt | 1940 | 2000 | 97 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Copper | 993 | 1000 | 99 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Iron | 3940 | 4000 | 98 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Lead | 3820 | 4000 | 96 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Magnesium | 19600 | 20000 | 98 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Manganese | 2000 | 2000 | 100 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Nickel | 1950 | 2000 | 97 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Potassium | 19500 | 20000 | 98 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Selenium | 3860 | 4000 | 96 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Silver | 1030 | 1000 | 103 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Sodium | 19400 | 20000 | 97 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Thallium | 3880 | 4000 | 97 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Vanadium | 1980 | 2000 | 99 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Zinc | 1970 | 2000 | 98 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** HDR, Inc.
**SDG No.:** Q3662
**Contract:** HDRI08
**Lab Code:** ACE
**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 | 116 | 100 | 116 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Antimony | 49.5 | 50.0 | 99 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Arsenic | 22.2 | 20.0 | 111 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Barium | 103 | 100 | 103 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Beryllium | 6.42 | 6.0 | 107 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Cadmium | 5.94 | 6.0 | 99 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Calcium | 2110 | 2000 | 106 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Chromium | 10.2 | 10.0 | 102 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Cobalt | 29.6 | 30.0 | 98 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Copper | 21.1 | 20.0 | 106 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Iron | 119 | 100 | 119 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Lead | 11.4 | 12.0 | 95 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Magnesium | 2150 | 2000 | 108 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Manganese | 21.7 | 20.0 | 109 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Nickel | 40.2 | 40.0 | 100 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Potassium | 1940 | 2000 | 97 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Selenium | 19.8 | 20.0 | 99 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Silver | 11.0 | 10.0 | 110 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Sodium | 1690 | 2000 | 85 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Thallium | 46.7 | 40.0 | 117 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Vanadium | 40.3 | 40.0 | 101 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Zinc | 44.2 | 40.0 | 110 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**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 | 9580 | 10000 | 96 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Antimony | 4690 | 5000 | 94 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Arsenic | 4700 | 5000 | 94 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Barium | 9560 | 10000 | 96 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Beryllium | 240 | 250 | 96 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Cadmium | 2330 | 2500 | 93 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Calcium | 23800 | 25000 | 95 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Chromium | 965 | 1000 | 96 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Cobalt | 2330 | 2500 | 93 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Copper | 1180 | 1250 | 94 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Iron | 4790 | 5000 | 96 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Lead | 4680 | 5000 | 94 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Magnesium | 23700 | 25000 | 95 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Manganese | 2380 | 2500 | 95 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Nickel | 2340 | 2500 | 93 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Potassium | 23700 | 25000 | 95 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Selenium | 4700 | 5000 | 94 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Silver | 1200 | 1250 | 96 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Sodium | 23200 | 25000 | 93 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Thallium | 4870 | 5000 | 97 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Vanadium | 2390 | 2500 | 96 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Zinc | 2420 | 2500 | 97 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| CCV02 | Aluminum | 10300 | 10000 | 102 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Antimony | 5010 | 5000 | 100 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Arsenic | 5020 | 5000 | 100 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Barium | 10200 | 10000 | 102 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Beryllium | 250 | 250 | 100 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Cadmium | 2500 | 2500 | 100 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Calcium | 25400 | 25000 | 102 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Chromium | 1030 | 1000 | 103 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Cobalt | 2500 | 2500 | 100 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Copper | 1260 | 1250 | 101 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Iron | 5120 | 5000 | 102 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Lead | 5000 | 5000 | 100 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**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 | 25300 | 25000 | 101 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Manganese | 2520 | 2500 | 101 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Nickel | 2500 | 2500 | 100 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Potassium | 25100 | 25000 | 100 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Selenium | 5000 | 5000 | 100 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Sodium | 24400 | 25000 | 97 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Thallium | 4870 | 5000 | 98 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Vanadium | 2560 | 2500 | 102 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Zinc | 2530 | 2500 | 101 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| CCV03 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Antimony | 5130 | 5000 | 103 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Arsenic | 5120 | 5000 | 102 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Barium | 9980 | 10000 | 100 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Beryllium | 241 | 250 | 96 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Cadmium | 2500 | 2500 | 100 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Calcium | 24700 | 25000 | 99 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Cobalt | 2500 | 2500 | 100 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Copper | 1290 | 1250 | 103 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Iron | 5200 | 5000 | 104 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Lead | 5040 | 5000 | 101 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Magnesium | 24500 | 25000 | 98 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Manganese | 2450 | 2500 | 98 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Nickel | 2500 | 2500 | 100 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Potassium | 25600 | 25000 | 103 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Selenium | 5140 | 5000 | 103 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Silver | 1280 | 1250 | 102 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Sodium | 24800 | 25000 | 99 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Thallium | 4830 | 5000 | 97 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Vanadium | 2520 | 2500 | 101 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Zinc | 2510 | 2500 | 100 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| CCV04 | Aluminum | 9770 | 10000 | 98 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Antimony | 4990 | 5000 | 100 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**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 | 5040 | 5000 | 101 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Barium | 9560 | 10000 | 96 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Beryllium | 241 | 250 | 97 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Cadmium | 2450 | 2500 | 98 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Calcium | 24200 | 25000 | 97 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Cobalt | 2450 | 2500 | 98 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Copper | 1250 | 1250 | 100 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Iron | 5010 | 5000 | 100 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Lead | 4960 | 5000 | 99 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Magnesium | 24000 | 25000 | 96 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Manganese | 2400 | 2500 | 96 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Nickel | 2460 | 2500 | 98 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Potassium | 24900 | 25000 | 100 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Selenium | 5020 | 5000 | 100 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Sodium | 25000 | 25000 | 100 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Thallium | 4600 | 5000 | 92 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Vanadium | 2450 | 2500 | 98 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Zinc | 2460 | 2500 | 98 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| CCV05 | Aluminum | 10300 | 10000 | 103 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Antimony | 5160 | 5000 | 103 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Arsenic | 5200 | 5000 | 104 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Barium | 10000 | 10000 | 100 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Beryllium | 251 | 250 | 100 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Cadmium | 2560 | 2500 | 102 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Calcium | 25400 | 25000 | 102 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Chromium | 1070 | 1000 | 107 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Cobalt | 2550 | 2500 | 102 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Copper | 1300 | 1250 | 104 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Iron | 5410 | 5000 | 108 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Lead | 5150 | 5000 | 103 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Magnesium | 25300 | 25000 | 101 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Manganese | 2520 | 2500 | 101 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** HDR, Inc.

**SDG No.:** Q3662

**Contract:** HDRI08

**Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV05 | Nickel | 2550 | 2500 | 102 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Potassium | 26700 | 25000 | 107 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Selenium | 5170 | 5000 | 104 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Silver | 1340 | 1250 | 107 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Sodium | 26300 | 25000 | 105 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Thallium | 4670 | 5000 | 93 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Vanadium | 2570 | 2500 | 103 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Zinc | 2620 | 2500 | 105 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| CCV06 | Aluminum | 9510 | 10000 | 95 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Antimony | 4950 | 5000 | 99 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Arsenic | 4980 | 5000 | 100 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Barium | 9380 | 10000 | 94 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Beryllium | 229 | 250 | 92 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Cadmium | 2420 | 2500 | 97 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Calcium | 23500 | 25000 | 94 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Chromium | 964 | 1000 | 96 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Cobalt | 2420 | 2500 | 97 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Copper | 1240 | 1250 | 99 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Iron | 4940 | 5000 | 99 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Lead | 4900 | 5000 | 98 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Magnesium | 23300 | 25000 | 93 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Manganese | 2330 | 2500 | 93 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Nickel | 2420 | 2500 | 97 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Potassium | 24300 | 25000 | 97 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Selenium | 4970 | 5000 | 99 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Silver | 1210 | 1250 | 97 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Sodium | 24100 | 25000 | 96 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Thallium | 5100 | 5000 | 102 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Vanadium | 2390 | 2500 | 95 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Zinc | 2390 | 2500 | 96 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |

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# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CRA | Mercury | 0.21 | 0.2 | 103 | 70 - 130 | CV | 11/19/2025 | 10:01 | LB137962 |
| CRI01 | Aluminum | 110 | 100 | 110 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Antimony | 50.0 | 50.0 | 100 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Arsenic | 23.9 | 20.0 | 120 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Barium | 99.7 | 100 | 100 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Beryllium | 6.43 | 6.0 | 107 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Cadmium | 5.89 | 6.0 | 98 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Calcium | 2090 | 2000 | 104 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Chromium | 9.95 | 10.0 | 100 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Cobalt | 29.4 | 30.0 | 98 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Copper | 21.2 | 20.0 | 106 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Iron | 103 | 100 | 103 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Lead | 10.1 | 12.0 | 84 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Magnesium | 2170 | 2000 | 108 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Manganese | 21.8 | 20.0 | 109 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Nickel | 40.0 | 40.0 | 100 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Potassium | 1780 | 2000 | 89 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Selenium | 18.5 | 20.0 | 92 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Silver | 10.7 | 10.0 | 107 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Sodium | 1470 | 2000 | 74 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Thallium | 42.1 | 40.0 | 105 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Vanadium | 42.5 | 40.0 | 106 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Zinc | 42.5 | 40.0 | 106 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**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 | 251000 | 255000 | 98 | 216000 | 294000 | 11/19/2025 | 13:02 | LB137974 |
| | Antimony | -1.23 | | | -50 | 50 | 11/19/2025 | 13:02 | LB137974 |
| | Arsenic | 8.44 | | | -20 | 20 | 11/19/2025 | 13:02 | LB137974 |
| | Barium | 3.47 | 6.0 | 58 | -94 | 106 | 11/19/2025 | 13:02 | LB137974 |
| | Beryllium | 0.83 | | | -6 | 6 | 11/19/2025 | 13:02 | LB137974 |
| | Cadmium | 6.34 | 1.0 | 634 | -5 | 7 | 11/19/2025 | 13:02 | LB137974 |
| | Calcium | 239000 | 245000 | 98 | 208000 | 282000 | 11/19/2025 | 13:02 | LB137974 |
| | Chromium | 51.9 | 52.0 | 100 | 42 | 62 | 11/19/2025 | 13:02 | LB137974 |
| | Cobalt | 2.37 | | | -30 | 30 | 11/19/2025 | 13:02 | LB137974 |
| | Copper | -4.52 | 2.0 | 226 | -18 | 22 | 11/19/2025 | 13:02 | LB137974 |
| | Iron | 97000 | 101000 | 96 | 85600 | 116500 | 11/19/2025 | 13:02 | LB137974 |
| | Lead | 7.25 | | | -12 | 12 | 11/19/2025 | 13:02 | LB137974 |
| | Magnesium | 254000 | 255000 | 100 | 216000 | 294000 | 11/19/2025 | 13:02 | LB137974 |
| | Manganese | 12.1 | 7.0 | 173 | -13 | 27 | 11/19/2025 | 13:02 | LB137974 |
| | Nickel | 5.72 | 2.0 | 286 | -38 | 42 | 11/19/2025 | 13:02 | LB137974 |
| | Potassium | -90.2 | | | 0 | 0 | 11/19/2025 | 13:02 | LB137974 |
| | Selenium | 1.34 | | | -20 | 20 | 11/19/2025 | 13:02 | LB137974 |
| | Silver | -6.41 | | | -10 | 10 | 11/19/2025 | 13:02 | LB137974 |
| | Sodium | -262 | | | 0 | 0 | 11/19/2025 | 13:02 | LB137974 |
| | Thallium | 26.1 | | | -40 | 40 | 11/19/2025 | 13:02 | LB137974 |
| | Vanadium | 1.64 | | | -40 | 40 | 11/19/2025 | 13:02 | LB137974 |
| | Zinc | 6.22 | | | -40 | 40 | 11/19/2025 | 13:02 | LB137974 |
| ICSAB01 | Aluminum | 248000 | 247000 | 100 | 209000 | 285000 | 11/19/2025 | 13:06 | LB137974 |
| | Antimony | 597 | 618 | 97 | 525 | 711 | 11/19/2025 | 13:06 | LB137974 |
| | Arsenic | 112 | 104 | 108 | 88.4 | 120 | 11/19/2025 | 13:06 | LB137974 |
| | Barium | 494 | 537 | 92 | 437 | 637 | 11/19/2025 | 13:06 | LB137974 |
| | Beryllium | 493 | 495 | 100 | 420 | 570 | 11/19/2025 | 13:06 | LB137974 |
| | Cadmium | 992 | 972 | 102 | 826 | 1120 | 11/19/2025 | 13:06 | LB137974 |
| | Calcium | 236000 | 235000 | 100 | 199000 | 271000 | 11/19/2025 | 13:06 | LB137974 |
| | Chromium | 551 | 542 | 102 | 460 | 624 | 11/19/2025 | 13:06 | LB137974 |
| | Cobalt | 494 | 476 | 104 | 404 | 548 | 11/19/2025 | 13:06 | LB137974 |
| | Copper | 467 | 511 | 91 | 434 | 588 | 11/19/2025 | 13:06 | LB137974 |
| | Iron | 96100 | 99300 | 97 | 84400 | 114500 | 11/19/2025 | 13:06 | LB137974 |
| | Lead | 57.4 | 49.0 | 117 | 37 | 61 | 11/19/2025 | 13:06 | LB137974 |
| | Magnesium | 251000 | 248000 | 101 | 210000 | 286000 | 11/19/2025 | 13:06 | LB137974 |
| | Manganese | 493 | 507 | 97 | 430 | 584 | 11/19/2025 | 13:06 | LB137974 |
| | Nickel | 981 | 954 | 103 | 810 | 1100 | 11/19/2025 | 13:06 | LB137974 |
| | Potassium | -158 | | | 0 | 0 | 11/19/2025 | 13:06 | LB137974 |
| | Selenium | 54.5 | 46.0 | 118 | 26 | 66 | 11/19/2025 | 13:06 | LB137974 |
| | Silver | 186 | 201 | 92 | 170 | 232 | 11/19/2025 | 13:06 | LB137974 |
| | Sodium | -257 | | | 0 | 0 | 11/19/2025 | 13:06 | LB137974 |
| | Thallium | 146 | 108 | 135 | 68 | 148 | 11/19/2025 | 13:06 | LB137974 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**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 | 484 | 491 | 99 | 417 | 565 | 11/19/2025 | 13:06 | LB137974 |
| | Zinc | 1030 | 952 | 108 | 809 | 1095 | 11/19/2025 | 13:06 | LB137974 |

# METAL QC DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** HDR, Inc. **level:** low **sdg no.:** Q3662

**contract:** HDRI08 **lab code:** ACE

**matrix:** Solid **sample id:** Q3669-01 **client id:** EO-01-11182025MS

**Percent Solids for Sample:** 92.9 **Spiked ID:** Q3669-01MS **Percent Solids for Spike Sample:** 92.9

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 75 - 125 | 6560 | | 6170 | | 97.9 | 398 | | P |
| Antimony | mg/Kg | 75 - 125 | 14.9 | | 2.52 | U | 39.1 | 38 | N | P |
| Arsenic | mg/Kg | 75 - 125 | 33.2 | | 2.61 | | 39.1 | 78 | | P |
| Barium | mg/Kg | 75 - 125 | 32.3 | | 23.0 | | 9.8 | 95 | | P |
| Beryllium | mg/Kg | 75 - 125 | 7.63 | | 0.40 | | 9.8 | 74 | N | P |
| Cadmium | mg/Kg | 75 - 125 | 10.9 | | 1.46 | | 9.8 | 97 | | P |
| Calcium | mg/Kg | 75 - 125 | 2700 | | 2560 | | 48.9 | 287 | | P |
| Chromium | mg/Kg | 75 - 125 | 25.9 | | 10.6 | | 19.6 | 78 | | P |
| Cobalt | mg/Kg | 75 - 125 | 17.6 | | 8.51 | | 9.8 | 93 | | P |
| Copper | mg/Kg | 75 - 125 | 32.2 | | 14.7 | | 14.7 | 119 | | P |
| Iron | mg/Kg | 75 - 125 | 14100 | | 14800 | | 150 | -465 | | P |
| Lead | mg/Kg | 75 - 125 | 160 | | 21.3 | | 48.9 | 284 | N | P |
| Magnesium | mg/Kg | 75 - 125 | 2110 | | 2020 | | 97.9 | 87 | | P |
| Manganese | mg/Kg | 75 - 125 | 219 | | 197 | | 9.8 | 226 | | P |
| Mercury | mg/Kg | 80 - 120 | 0.35 | | 0.032 | | 0.27 | 116 | | CV |
| Nickel | mg/Kg | 75 - 125 | 35.9 | | 12.8 | | 24.5 | 94 | | P |
| Potassium | mg/Kg | 75 - 125 | 769 | | 397 | | 490 | 76 | | P |
| Selenium | mg/Kg | 75 - 125 | 74.5 | | 1.01 | U | 97.9 | 76 | | P |
| Silver | mg/Kg | 75 - 125 | 2.13 | | 0.50 | U | 3.7 | 58 | N | P |
| Sodium | mg/Kg | 75 - 125 | 576 | | 468 | | 150 | 71 | N | P |
| Thallium | mg/Kg | 75 - 125 | 83.4 | | 2.01 | U | 97.9 | 85 | | P |
| Vanadium | mg/Kg | 75 - 125 | 35.7 | | 25.7 | | 14.7 | 68 | N | P |
| Zinc | mg/Kg | 75 - 125 | 44.4 | | 35.1 | | 9.8 | 95 | | P |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** HDR, Inc. **level:** low **sdg no.:** Q3662

**contract:** HDRI08 **lab code:** ACE

**matrix:** Solid **sample id:** Q3669-01 **client id:** EO-01-11182025MSD

**Percent Solids for Sample:** 92.9 **Spiked ID:** Q3669-01MSD **Percent Solids for Spike Sample:** 92.9

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 75 - 125 | 7300 | | 6170 | | 97.0 | 1166 | | P |
| Antimony | mg/Kg | 75 - 125 | 14.6 | | 2.52 | U | 38.8 | 38 | N | P |
| Arsenic | mg/Kg | 75 - 125 | 33.0 | | 2.61 | | 38.8 | 78 | | P |
| Barium | mg/Kg | 75 - 125 | 34.9 | | 23.0 | | 9.7 | 123 | | P |
| Beryllium | mg/Kg | 75 - 125 | 7.67 | | 0.40 | | 9.7 | 75 | | P |
| Cadmium | mg/Kg | 75 - 125 | 11.5 | | 1.46 | | 9.7 | 103 | | P |
| Calcium | mg/Kg | 75 - 125 | 3160 | | 2560 | | 48.5 | 1245 | | P |
| Chromium | mg/Kg | 75 - 125 | 26.2 | | 10.6 | | 19.4 | 80 | | P |
| Cobalt | mg/Kg | 75 - 125 | 19.2 | | 8.51 | | 9.7 | 110 | | P |
| Copper | mg/Kg | 75 - 125 | 32.4 | | 14.7 | | 14.5 | 122 | | P |
| Iron | mg/Kg | 75 - 125 | 15800 | | 14800 | | 150 | 671 | | P |
| Lead | mg/Kg | 75 - 125 | 83.3 | | 21.3 | | 48.5 | 128 | N | P |
| Magnesium | mg/Kg | 75 - 125 | 2390 | | 2020 | | 97.0 | 374 | | P |
| Manganese | mg/Kg | 75 - 125 | 232 | | 197 | | 9.7 | 365 | | P |
| Mercury | mg/Kg | 80 - 120 | 0.34 | | 0.032 | | 0.28 | 110 | | CV |
| Nickel | mg/Kg | 75 - 125 | 39.2 | | 12.8 | | 24.2 | 109 | | P |
| Potassium | mg/Kg | 75 - 125 | 873 | | 397 | | 480 | 99 | | P |
| Selenium | mg/Kg | 75 - 125 | 73.2 | | 1.01 | U | 97.0 | 76 | | P |
| Silver | mg/Kg | 75 - 125 | 1.99 | | 0.50 | U | 3.6 | 55 | N | P |
| Sodium | mg/Kg | 75 - 125 | 677 | | 468 | | 150 | 139 | N | P |
| Thallium | mg/Kg | 75 - 125 | 88.4 | | 2.01 | U | 97.0 | 91 | | P |
| Vanadium | mg/Kg | 75 - 125 | 39.8 | | 25.7 | | 14.5 | 98 | | P |
| Zinc | mg/Kg | 75 - 125 | 40.5 | | 35.1 | | 9.7 | 56 | N | P |

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# Metals
## - 5b -
## POST DIGEST SPIKE SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**Matrix:** Solid **Level:** LOW **Client ID:** EO-01-11182025A

**Sample ID:** Q3669-01 **Spiked ID:** Q3669-01A

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/Kg | 75 - 125 | 23.8 | | 2.52 | U | 40.2 | 59 | N | P |
| Beryllium | mg/Kg | 75 - 125 | 6.58 | | 0.40 | | 10.1 | 61 | N | P |
| Lead | mg/Kg | 75 - 125 | 53.0 | | 21.3 | | 50.3 | 63 | N | P |
| Silver | mg/Kg | 75 - 125 | 1.74 | | 0.50 | U | 3.80 | 46 | N | P |
| Sodium | mg/Kg | 75 - 125 | 477 | | 468 | | 150 | 6 | N | P |
| Vanadium | mg/Kg | 75 - 125 | 31.2 | | 25.7 | | 15.1 | 37 | N | P |
| Zinc | mg/Kg | 75 - 125 | 34.2 | | 35.1 | | 10.1 | -9 | N | P |

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** HDR, Inc. **Level:** LOW **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**Matrix:** Solid **Sample ID:** Q3669-01 **Client ID:** EO-01-11182025DUP

**Percent Solids for Sample:** 92.9 **Duplicate ID** Q3669-01DUP **Percent Solids for Spike Sample:** 92.9

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 20 | 6170 | | 6220 | | 1 | | P |
| Antimony | mg/Kg | 20 | 2.52 | U | 2.54 | U | | | P |
| Arsenic | mg/Kg | 20 | 2.61 | | 2.67 | | 2 | | P |
| Barium | mg/Kg | 20 | 23.0 | | 23.6 | | 3 | | P |
| Beryllium | mg/Kg | 20 | 0.40 | | 0.41 | | 2 | | P |
| Cadmium | mg/Kg | 20 | 1.46 | | 1.44 | | 1 | | P |
| Calcium | mg/Kg | 20 | 2560 | | 2590 | | 1 | | P |
| Chromium | mg/Kg | 20 | 10.6 | | 10.6 | | 1 | | P |
| Cobalt | mg/Kg | 20 | 8.51 | | 8.44 | | 1 | | P |
| Copper | mg/Kg | 20 | 14.7 | | 14.6 | | 1 | | P |
| Iron | mg/Kg | 20 | 14800 | | 14800 | | 0 | | P |
| Lead | mg/Kg | 20 | 21.3 | | 21.1 | | 1 | | P |
| Magnesium | mg/Kg | 20 | 2020 | | 2040 | | 1 | | P |
| Manganese | mg/Kg | 20 | 197 | | 201 | | 2 | | P |
| Mercury | mg/Kg | 20 | 0.032 | | 0.032 | | 0 | | CV |
| Nickel | mg/Kg | 20 | 12.8 | | 12.7 | | 1 | | P |
| Potassium | mg/Kg | 20 | 397 | | 391 | | 2 | | P |
| Selenium | mg/Kg | 20 | 1.01 | U | 1.02 | U | | | P |
| Silver | mg/Kg | 20 | 0.50 | U | 0.51 | U | | | P |
| Sodium | mg/Kg | 20 | 468 | | 466 | | 0 | | P |
| Thallium | mg/Kg | 20 | 2.01 | U | 2.03 | U | | | P |
| Vanadium | mg/Kg | 20 | 25.7 | | 25.8 | | 0 | | P |
| Zinc | mg/Kg | 20 | 35.1 | | 34.4 | | 2 | | 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:** HDR, Inc. **Level:** LOW **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**Matrix:** Solid **Sample ID:** Q3669-01MS **Client ID:** EO-01-11182025MSD

**Percent Solids for Sample:** 92.9 **Duplicate ID** Q3669-01MSD **Percent Solids for Spike Sample:** 92.9

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 20 | 6560 | | 7300 | | 11 | | P |
| Antimony | mg/Kg | 20 | 14.9 | | 14.6 | | 2 | | P |
| Arsenic | mg/Kg | 20 | 33.2 | | 33.0 | | 1 | | P |
| Barium | mg/Kg | 20 | 32.3 | | 34.9 | | 8 | | P |
| Beryllium | mg/Kg | 20 | 7.63 | | 7.67 | | 1 | | P |
| Cadmium | mg/Kg | 20 | 10.9 | | 11.5 | | 5 | | P |
| Calcium | mg/Kg | 20 | 2700 | | 3160 | | 16 | | P |
| Chromium | mg/Kg | 20 | 25.9 | | 26.2 | | 1 | | P |
| Cobalt | mg/Kg | 20 | 17.6 | | 19.2 | | 9 | | P |
| Copper | mg/Kg | 20 | 32.2 | | 32.4 | | 1 | | P |
| Iron | mg/Kg | 20 | 14100 | | 15800 | | 11 | | P |
| Lead | mg/Kg | 20 | 160 | | 83.3 | | 63 | * | P |
| Magnesium | mg/Kg | 20 | 2110 | | 2390 | | 12 | | P |
| Manganese | mg/Kg | 20 | 219 | | 232 | | 6 | | P |
| Mercury | mg/Kg | 20 | 0.35 | | 0.34 | | 1 | | CV |
| Nickel | mg/Kg | 20 | 35.9 | | 39.2 | | 9 | | P |
| Potassium | mg/Kg | 20 | 769 | | 873 | | 13 | | P |
| Selenium | mg/Kg | 20 | 74.5 | | 73.2 | | 2 | | P |
| Silver | mg/Kg | 20 | 2.13 | | 1.99 | | 7 | | P |
| Sodium | mg/Kg | 20 | 576 | | 677 | | 16 | | P |
| Thallium | mg/Kg | 20 | 83.4 | | 88.4 | | 6 | | P |
| Vanadium | mg/Kg | 20 | 35.7 | | 39.8 | | 11 | | P |
| Zinc | mg/Kg | 20 | 44.4 | | 40.5 | | 9 | | P |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB170614BS | | | | | | | |
| Mercury | mg/Kg | 0.28 | 0.32 | | 112 | 80 - 120 | CV |

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB170617BS | | | | | | | |
| Aluminum | mg/Kg | 100 | 99.1 | | 99 | 80 - 120 | P |
| Antimony | mg/Kg | 40.0 | 38.7 | | 97 | 80 - 120 | P |
| Arsenic | mg/Kg | 40.0 | 38.4 | | 96 | 80 - 120 | P |
| Barium | mg/Kg | 10.0 | 9.69 | | 97 | 80 - 120 | P |
| Beryllium | mg/Kg | 10.0 | 9.90 | | 99 | 80 - 120 | P |
| Cadmium | mg/Kg | 10.0 | 9.47 | | 95 | 80 - 120 | P |
| Calcium | mg/Kg | 50.0 | 57.0 | J | 114 | 80 - 120 | P |
| Chromium | mg/Kg | 20.0 | 20.3 | | 102 | 80 - 120 | P |
| Cobalt | mg/Kg | 10.0 | 9.49 | | 95 | 80 - 120 | P |
| Copper | mg/Kg | 15.0 | 14.8 | | 99 | 80 - 120 | P |
| Iron | mg/Kg | 150 | 150 | | 100 | 80 - 120 | P |
| Lead | mg/Kg | 50.0 | 46.7 | | 93 | 80 - 120 | P |
| Magnesium | mg/Kg | 100 | 101 | | 101 | 80 - 120 | P |
| Manganese | mg/Kg | 10.0 | 9.95 | | 100 | 80 - 120 | P |
| Nickel | mg/Kg | 25.0 | 23.9 | | 96 | 80 - 120 | P |
| Potassium | mg/Kg | 500 | 473 | | 95 | 80 - 120 | P |
| Selenium | mg/Kg | 100 | 96.2 | | 96 | 80 - 120 | P |
| Silver | mg/Kg | 3.8 | 3.84 | | 101 | 80 - 120 | P |
| Sodium | mg/Kg | 150 | 143 | | 95 | 80 - 120 | P |
| Thallium | mg/Kg | 100 | 95.8 | | 96 | 80 - 120 | P |
| Vanadium | mg/Kg | 15.0 | 14.6 | | 97 | 80 - 120 | P |
| Zinc | mg/Kg | 10.0 | 10.5 | | 105 | 80 - 120 | P |

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# Metals

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## ICP SERIAL DILUTIONS

SAMPLE NO.

EO-01-11182025L

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **Lb No.:** lb137974 **Lab Sample ID :** Q3669-01L **SDG No.:** Q3662

**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 | 6170 | | 7590 | | 23 | | P |
| Antimony | 2.52 | U | 12.6 | U | | | P |
| Arsenic | 2.61 | | 2.73 | J | 4 | | P |
| Barium | 23.0 | | 29.4 | | 28 | | P |
| Beryllium | 0.40 | | 0.50 | J | 26 | | P |
| Cadmium | 1.46 | | 0.96 | J | 34 | | P |
| Calcium | 2560 | | 3240 | | 27 | | P |
| Chromium | 10.6 | | 13.1 | | 23 | | P |
| Cobalt | 8.51 | | 8.24 | | 3 | | P |
| Copper | 14.7 | | 19.0 | | 29 | | P |
| Iron | 14800 | | 18700 | | 26 | | P |
| Lead | 21.3 | | 21.1 | | 1 | | P |
| Magnesium | 2020 | | 2490 | | 23 | | P |
| Manganese | 197 | | 256 | | 30 | | P |
| Mercury | 0.032 | | 0.072 | U | 100.0 | | CV |
| Nickel | 12.8 | | 12.7 | | 1 | | P |
| Potassium | 397 | | 452 | J | 14 | | P |
| Selenium | 1.01 | U | 5.03 | U | | | P |
| Silver | 0.50 | U | 2.52 | U | | | P |
| Sodium | 468 | | 535 | | 14 | | P |
| Thallium | 2.01 | U | 2.01 | J | 100.0 | | P |
| Vanadium | 25.7 | | 31.7 | | 23 | | P |
| Zinc | 35.1 | | 42.3 | | 21 | | P |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** HDR, Inc. **Contract:** HDRI08

**Lab code:** ACE **Sdg no.:** Q3662

**Instrument id number:** **Method:** **Run number:** LB137962

**Start date:** 11/19/2025 **End date:** 11/19/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 0932 | HG |
| S0.2 | S0.2 | 1 | 0934 | HG |
| S2.5 | S2.5 | 1 | 0939 | HG |
| S5 | S5 | 1 | 0941 | HG |
| S7.5 | S7.5 | 1 | 0943 | HG |
| S10 | S10 | 1 | 0948 | HG |
| ICV121 | ICV121 | 1 | 0952 | HG |
| ICB121 | ICB121 | 1 | 0954 | HG |
| CCV12 | CCV12 | 1 | 0957 | HG |
| CCB12 | CCB12 | 1 | 0959 | HG |
| CRA | CRA | 1 | 1001 | HG |
| PB170614BL | PB170614BL | 1 | 1008 | HG |
| PB170614BS | PB170614BS | 1 | 1010 | HG |
| Q3662-02 | B3-0.0-1.0-20251117 | 1 | 1012 | HG |
| Q3662-04 | B1-0.0-1.0-20251117 | 1 | 1015 | HG |
| CCV13 | CCV13 | 1 | 1024 | HG |
| CCB13 | CCB13 | 1 | 1026 | HG |
| Q3669-01DUP | EO-01-11182025DUP | 1 | 1031 | HG |
| Q3669-01MS | EO-01-11182025MS | 1 | 1033 | HG |
| Q3669-01MSD | EO-01-11182025MSD | 1 | 1035 | HG |
| Q3669-01L | EO-01-11182025L | 5 | 1037 | HG |
| CCV14 | CCV14 | 1 | 1042 | HG |
| CCB14 | CCB14 | 1 | 1044 | HG |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** HDR, Inc. **Contract:** HDRI08

**Lab code:** ACE **Sdg no.:** Q3662

**Instrument id number:** **Method:** **Run number:** LB137974

**Start date:** 11/19/2025 **End date:** 11/19/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1220 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S1 | S1 | 1 | 1224 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S2 | S2 | 1 | 1228 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S3 | S3 | 1 | 1232 | 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 | 1236 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S5 | S5 | 1 | 1241 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICV01 | ICV01 | 1 | 1245 | 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 | 1249 | 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 | 1253 | 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 | 1257 | 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 | 1302 | 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 | 1306 | 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 | 1319 | 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 | 1323 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB170617BL | PB170617BL | 1 | 1327 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB170617BS | PB170617BS | 1 | 1332 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q3662-02 | B3-0.0-1.0-20251117 | 1 | 1434 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q3662-04 | B1-0.0-1.0-20251117 | 1 | 1438 | 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 | 1456 | 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 | 1500 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q3669-01DUP | EO-01-11182025DUP | 1 | 1601 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q3669-01L | EO-01-11182025L | 5 | 1605 | 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 | 1614 | 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 | 1618 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q3669-01MS | EO-01-11182025MS | 1 | 1622 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q3669-01MSD | EO-01-11182025MSD | 1 | 1626 | 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 | 1705 | 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 | 1709 | 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 | 1807 | 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 | 1811 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q3669-01A | EO-01-11182025A | 1 | 1820 | Ag,Be,Na,Pb,Sb,V,Zn |
| CCV06 | CCV06 | 1 | 1835 | 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 | 1842 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |

# METAL PREPARATION & INSTRUMENT DATA

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# Metals
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## ICP INTERELEMENT CORRECTION FACTORS

**Client:** HDR, Inc.

**SDG No.:** Q3662

**Contract:** HDRI08

**Lab Code:** ACE

**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:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**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:** HDR, Inc.

**SDG No.:** Q3662

**Contract:** HDRI08

**Lab Code:** ACE

**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:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**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:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**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:** | Q3662 | **OrderDate:** | 11/18/2025 11:14:00 AM |
| **Client:** | HDR, Inc. | **Project:** | PVWC Linear Construction |
| **Contact:** | Andrew Wadden | **Location:** | D41,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q3662-02** | **B3-0.0-1.0-20251117** | **SOIL** | | | **11/17/25** | | | **11/18/25** |
| | | | Mercury | 7471B | | 11/19/25 | 11/19/25 | |
| | | | Metals ICP-TAL | 6010D | | 11/19/25 | 11/19/25 | |
| **Q3662-04** | **B1-0.0-1.0-20251117** | **SOIL** | | | **11/17/25** | | | **11/18/25** |
| | | | Mercury | 7471B | | 11/19/25 | 11/19/25 | |
| | | | Metals ICP-TAL | 6010D | | 11/19/25 | 11/19/25 | |

# METAL PREPARATION & ANALYICAL SUMMARY

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE **Method:**

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB170614** | | | | | | |
| PB170614BL | PB170614BL | MB | SOLID | 11/19/2025 | 0.50 | 35.0 | 100.00 |
| PB170614BS | PB170614BS | LCS | SOLID | 11/19/2025 | 0.50 | 35.0 | 100.00 |
| Q3662-02 | B3-0.0-1.0-20251117 | SAM | SOLID | 11/19/2025 | 0.50 | 35.0 | 84.70 |
| Q3662-04 | B1-0.0-1.0-20251117 | SAM | SOLID | 11/19/2025 | 0.54 | 35.0 | 88.10 |
| Q3669-01DUP | EO-01-11182025DUP | DUP | SOLID | 11/19/2025 | 0.52 | 35.0 | 92.90 |
| Q3669-01MS | EO-01-11182025MS | MS | SOLID | 11/19/2025 | 0.55 | 35.0 | 92.90 |
| Q3669-01MSD | EO-01-11182025MSD | MSD | SOLID | 11/19/2025 | 0.53 | 35.0 | 92.90 |

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE **Method:**

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB170617** | | | | | | |
| PB170617BL | PB170617BL | MB | SOLID | 11/19/2025 | 2.00 | 100.0 | 100.00 |
| PB170617BS | PB170617BS | LCS | SOLID | 11/19/2025 | 2.00 | 100.0 | 100.00 |
| Q3662-02 | B3-0.0-1.0-20251117 | SAM | SOLID | 11/19/2025 | 2.22 | 100.0 | 84.70 |
| Q3662-04 | B1-0.0-1.0-20251117 | SAM | SOLID | 11/19/2025 | 2.20 | 100.0 | 88.10 |
| Q3669-01DUP | EO-01-11182025DUP | DUP | SOLID | 11/19/2025 | 2.12 | 100.0 | 92.90 |
| Q3669-01MS | EO-01-11182025MS | MS | SOLID | 11/19/2025 | 2.20 | 100.0 | 92.90 |
| Q3669-01MSD | EO-01-11182025MSD | MSD | SOLID | 11/19/2025 | 2.22 | 100.0 | 92.90 |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137962

| | | | |
|---|---|---|---|
| Review By | mohan | Review On | 11/20/2025 12:52:59 PM |
| Supervise By | jaswal | Supervise On | 11/21/2025 12:22:19 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP88014,MP88015,MP88016,MP88017,MP88018,MP88019 |
| ICV Standard | MP88020 |
| CCV Standard | MP88022 |
| ICSA Standard | |
| CRI Standard | MP88024 |
| LCS Standard | |
| Chk Standard | MP88021,MP88023,MP88025,MP88027 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 11/19/25 09:32 | | mohan | OK |
| 2 | S0.2 | S0.2 | CAL2 | 11/19/25 09:34 | | mohan | OK |
| 3 | S2.5 | S2.5 | CAL3 | 11/19/25 09:39 | | mohan | OK |
| 4 | S5 | S5 | CAL4 | 11/19/25 09:41 | | mohan | OK |
| 5 | S7.5 | S7.5 | CAL5 | 11/19/25 09:43 | | mohan | OK |
| 6 | S10 | S10 | CAL6 | 11/19/25 09:48 | | mohan | OK |
| 7 | ICV121 | ICV121 | ICV | 11/19/25 09:52 | | mohan | OK |
| 8 | ICB121 | ICB121 | ICB | 11/19/25 09:54 | | mohan | OK |
| 9 | CCV12 | CCV12 | CCV | 11/19/25 09:57 | | mohan | OK |
| 10 | CCB12 | CCB12 | CCB | 11/19/25 09:59 | | mohan | OK |
| 11 | CRA | CRA | CRDL | 11/19/25 10:01 | | mohan | OK |
| 12 | HighStd | HighStd | HIGH STD | 11/19/25 10:03 | | mohan | OK |
| 13 | ChkStd | ChkStd | SAM | 11/19/25 10:06 | | mohan | OK |
| 14 | PB170614BL | PB170614BL | MB | 11/19/25 10:08 | | mohan | OK |
| 15 | PB170614BS | PB170614BS | LCS | 11/19/25 10:10 | | mohan | OK |
| 16 | Q3662-02 | B3-0.0-1.0-20251117 | SAM | 11/19/25 10:12 | | mohan | OK |
| 17 | Q3662-04 | B1-0.0-1.0-20251117 | SAM | 11/19/25 10:15 | | mohan | OK |
| 18 | Q3664-01 | ARS20-0001 | SAM | 11/19/25 10:17 | | mohan | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137962

| | | | |
|---|---|---|---|
| Review By | mohan | Review On | 11/20/2025 12:52:59 PM |
| Supervise By | jaswal | Supervise On | 11/21/2025 12:22:19 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP88014,MP88015,MP88016,MP88017,MP88018,MP88019 |
| ICV Standard | MP88020 |
| CCV Standard | MP88022 |
| ICSA Standard | |
| CRI Standard | MP88024 |
| LCS Standard | |
| Chk Standard | MP88021,MP88023,MP88025,MP88027 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3664-03 | ARS20-0013 | SAM | 11/19/25 10:19 | | mohan | OK |
| 20 | Q3664-05 | 291399 | SAM | 11/19/25 10:22 | | mohan | OK |
| 21 | CCV13 | CCV13 | CCV | 11/19/25 10:24 | | mohan | OK |
| 22 | CCB13 | CCB13 | CCB | 11/19/25 10:26 | | mohan | OK |
| 23 | Q3669-01 | EO-01-11182025 | SAM | 11/19/25 10:28 | | mohan | OK |
| 24 | Q3669-01DUP | EO-01-11182025DUP | DUP | 11/19/25 10:31 | | mohan | OK |
| 25 | Q3669-01MS | EO-01-11182025MS | MS | 11/19/25 10:33 | | mohan | OK |
| 26 | Q3669-01MSD | EO-01-11182025MSD | MSD | 11/19/25 10:35 | | mohan | OK |
| 27 | Q3669-01L | EO-01-11182025L | SD | 11/19/25 10:37 | | mohan | OK |
| 28 | Q3669-01A | EO-01-11182025A | PS | 11/19/25 10:40 | | mohan | OK |
| 29 | CCV14 | CCV14 | CCV | 11/19/25 10:42 | | mohan | OK |
| 30 | CCB14 | CCB14 | CCB | 11/19/25 10:44 | | mohan | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137974

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 11/20/2025 12:52:04 PM |
| Supervise By | mohan | Supervise On | 11/20/2025 1:09:45 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP87637,MP87643,MP87641,MP87640,MP87639,MP87638 |
| ICV Standard | MP87644,MP87643 |
| CCV Standard | MP87647 |
| ICSA Standard | MP87645,MP87646 |
| CRI Standard | MP87643 |
| LCS Standard | |
| Chk Standard | MP87668,MP87648,MP87651,MP87649,MP87650 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 11/19/25 12:20 | | Jaswal | OK |
| 2 | S1 | S1 | CAL2 | 11/19/25 12:24 | | Jaswal | OK |
| 3 | S2 | S2 | CAL3 | 11/19/25 12:28 | | Jaswal | OK |
| 4 | S3 | S3 | CAL4 | 11/19/25 12:32 | | Jaswal | OK |
| 5 | S4 | S4 | CAL5 | 11/19/25 12:36 | | Jaswal | OK |
| 6 | S5 | S5 | CAL6 | 11/19/25 12:41 | | Jaswal | OK |
| 7 | ICV01 | ICV01 | ICV | 11/19/25 12:45 | | Jaswal | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 11/19/25 12:49 | | Jaswal | OK |
| 9 | ICB01 | ICB01 | ICB | 11/19/25 12:53 | | Jaswal | OK |
| 10 | CRI01 | CRI01 | CRDL | 11/19/25 12:57 | | Jaswal | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 11/19/25 13:02 | | Jaswal | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 11/19/25 13:06 | | Jaswal | OK |
| 13 | ICSADL | ICSADL | ICSA | 11/19/25 13:10 | | Jaswal | OK |
| 14 | ICSABDL | ICSABDL | ICSAB | 11/19/25 13:14 | | Jaswal | OK |
| 15 | CCV01 | CCV01 | CCV | 11/19/25 13:19 | | Jaswal | OK |
| 16 | CCB01 | CCB01 | CCB | 11/19/25 13:23 | | Jaswal | OK |
| 17 | PB170617BL | PB170617BL | MB | 11/19/25 13:27 | | Jaswal | OK |
| 18 | PB170617BS | PB170617BS | LCS | 11/19/25 13:32 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137974

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 11/20/2025 12:52:04 PM |
| Supervise By | mohan | Supervise On | 11/20/2025 1:09:45 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP87637,MP87643,MP87641,MP87640,MP87639,MP87638 |
| ICV Standard | MP87644,MP87643 |
| CCV Standard | MP87647 |
| ICSA Standard | MP87645,MP87646 |
| CRI Standard | MP87643 |
| LCS Standard | |
| Chk Standard | MP87668,MP87648,MP87651,MP87649,MP87650 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | PB170626BL | PB170626BL | MB | 11/19/25 13:36 | | Jaswal | OK |
| 20 | PB170626BS | PB170626BS | LCS | 11/19/25 13:40 | | Jaswal | OK |
| 21 | LR-1 | LR-1 | HIGH STD | 11/19/25 14:09 | | Jaswal | OK |
| 22 | LR-2 | LR-2 | HIGH STD | 11/19/25 14:19 | | Jaswal | OK |
| 23 | LR-3 | LR-3 | HIGH STD | 11/19/25 14:30 | | Jaswal | OK |
| 24 | Q3662-02 | B3-0.0-1.0-20251117 | SAM | 11/19/25 14:34 | | Jaswal | OK |
| 25 | Q3662-04 | B1-0.0-1.0-20251117 | SAM | 11/19/25 14:38 | | Jaswal | OK |
| 26 | Q3664-01 | ARS20-0001 | SAM | 11/19/25 14:42 | | Jaswal | OK |
| 27 | CCV02 | CCV02 | CCV | 11/19/25 14:56 | | Jaswal | OK |
| 28 | CCB02 | CCB02 | CCB | 11/19/25 15:00 | | Jaswal | OK |
| 29 | Q3664-03 | ARS20-0013 | SAM | 11/19/25 15:05 | | Jaswal | OK |
| 30 | Q3664-05 | 291399 | SAM | 11/19/25 15:09 | | Jaswal | OK |
| 31 | Q3667-01 | RIGHT-SIDE-WALL | SAM | 11/19/25 15:13 | | Jaswal | OK |
| 32 | Q3667-05 | LEFT-SIDE-FLOOR | SAM | 11/19/25 15:22 | | Jaswal | OK |
| 33 | Q3667-03 | LEFT-SIDE-WALL | SAM | 11/19/25 15:44 | | Jaswal | OK |
| 34 | Q3667-07 | ELEVATED-DIVIDE | SAM | 11/19/25 15:48 | | Jaswal | OK |
| 35 | Q3668-01 | 2015 | SAM | 11/19/25 15:53 | | Jaswal | OK |
| 36 | Q3669-01 | EO-01-11182025 | SAM | 11/19/25 15:57 | | Jaswal | OK |
| 37 | Q3669-01DUP | EO-01-11182025DUP | DUP | 11/19/25 16:01 | | Jaswal | OK |
| 38 | Q3669-01L | EO-01-11182025L | SD | 11/19/25 16:05 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137974

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 11/20/2025 12:52:04 PM |
| Supervise By | mohan | Supervise On | 11/20/2025 1:09:45 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP87637,MP87643,MP87641,MP87640,MP87639,MP87638 |
| ICV Standard | MP87644,MP87643 |
| CCV Standard | MP87647 |
| ICSA Standard | MP87645,MP87646 |
| CRI Standard | MP87643 |
| LCS Standard | |
| Chk Standard | MP87668,MP87648,MP87651,MP87649,MP87650 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | CCV03 | CCV03 | CCV | 11/19/25 16:14 | | Jaswal | OK |
| 40 | CCB03 | CCB03 | CCB | 11/19/25 16:18 | | Jaswal | OK |
| 41 | Q3669-01MS | EO-01-11182025MS | MS | 11/19/25 16:22 | | Jaswal | OK |
| 42 | Q3669-01MSD | EO-01-11182025MSD | MSD | 11/19/25 16:26 | | Jaswal | OK |
| 43 | Q3583-07 | CHRT27080 | SAM | 11/19/25 16:35 | | Jaswal | OK |
| 44 | Q3652-04 | TP-1 | SAM | 11/19/25 16:39 | | Jaswal | OK |
| 45 | Q3652-04DUP | TP-1DUP | DUP | 11/19/25 16:44 | | Jaswal | OK |
| 46 | Q3652-04L | TP-1L | SD | 11/19/25 16:48 | | Jaswal | OK |
| 47 | Q3652-04MS | TP-1MS | MS | 11/19/25 16:52 | | Jaswal | OK |
| 48 | Q3652-04MSD | TP-1MSD | MSD | 11/19/25 16:56 | | Jaswal | OK |
| 49 | Q3652-04A | TP-1A | PS | 11/19/25 17:01 | 0.1ML M6008,M6017-10ML SAMPLE | Jaswal | OK |
| 50 | CCV04 | CCV04 | CCV | 11/19/25 17:05 | | Jaswal | OK |
| 51 | CCB04 | CCB04 | CCB | 11/19/25 17:09 | | Jaswal | OK |
| 52 | Q3657-01 | SEWAREN-CONCRE | SAM | 11/19/25 17:13 | | Jaswal | OK |
| 53 | Q3659-01 | TANK-1-COMP-1 | SAM | 11/19/25 17:18 | | Jaswal | OK |
| 54 | Q3659-02 | TANK-1-COMP-2 | SAM | 11/19/25 17:22 | | Jaswal | OK |
| 55 | Q3662-05 | B1-0.0-1.0-20251117 | SAM | 11/19/25 17:27 | | Jaswal | OK |
| 56 | Q3667-02 | RIGHT-SIDE-WALL | SAM | 11/19/25 17:31 | | Jaswal | OK |
| 57 | Q3667-04 | LEFT-SIDE-WALL | SAM | 11/19/25 17:35 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137974

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 11/20/2025 12:52:04 PM |
| Supervise By | mohan | Supervise On | 11/20/2025 1:09:45 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP87637,MP87643,MP87641,MP87640,MP87639,MP87638 |
| ICV Standard | MP87644,MP87643 |
| CCV Standard | MP87647 |
| ICSA Standard | MP87645,MP87646 |
| CRI Standard | MP87643 |
| LCS Standard | |
| Chk Standard | MP87668,MP87648,MP87651,MP87649,MP87650 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 58 | Q3667-06 | LEFT-SIDE-FLOOR | SAM | 11/19/25 17:40 | | Jaswal | OK |
| 59 | Q3667-08 | ELEVATED-DIVIDE | SAM | 11/19/25 17:45 | | Jaswal | OK |
| 60 | PB170600TB | PB170600TB | MB | 11/19/25 17:49 | | Jaswal | OK |
| 61 | Q3667-03DL | LEFT-SIDE-WALLDL | SAM | 11/19/25 17:54 | NOT USE | Jaswal | Not Ok |
| 62 | CCV05 | CCV05 | CCV | 11/19/25 18:07 | | Jaswal | OK |
| 63 | CCB05 | CCB05 | CCB | 11/19/25 18:11 | | Jaswal | OK |
| 64 | Q3667-07DL | ELEVATED-DIVIDEDL | SAM | 11/19/25 18:15 | NOT USE | Jaswal | Not Ok |
| 65 | Q3669-01A | EO-01-11182025A | PS | 11/19/25 18:20 | 0.1ML M6008,M6017-10ML SAMPLE | Jaswal | OK |
| 66 | CCV06 | CCV06 | CCV | 11/19/25 18:35 | | Jaswal | OK |
| 67 | CCB06 | CCB06 | CCB | 11/19/25 18:42 | | Jaswal | OK |

Alliance TECHNICAL GROUP

# Soil/Sludge Mercury Preparation Sheet

PB170614

**SOP ID :** M7471B-Mercury-19

**SDG No :** N/A

**Matrix :** SOIL

**Pippete ID:** ICP A

**Balance ID :** M SC-3

**Filter paper ID :** N/A

**pH Strip ID :** N/A

**Hood ID :** #1

**Block ID:** 1. HOT BLOCK #3 2. N/A

**Start Digest Date:** 11/19/2025 **Time :** 08:10 **Temp :** 96 °C

**End Digest Date:** 11/19/2025 **Time :** 08:40 **Temp :** 96 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** MET-DIG. #3

**Dig Technician Signature:** mn

**Supervisor Signature:** mn

**Temp :** 1. 96°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| ICV | 30mL | MP88020 |
| CCV | 30mL | MP88022 |
| CRA | 30mL | MP88024 |
| Blank Spike | 0.48mL | MP88013 |
| Matrix Spike | 0.48mL | MP88013 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| AQUA REGIA | 1.5Ml | MP88026 |
| KMnO4 (5%) | 4.5mL | MP87634 |
| Hydroxylamine HCL (12%) | 2.0Ml | MP87636 |
| PTFE Boiling Stones | N/A | M5582 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| 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 | MP88014 |
| 0.05 ppb | S0.05 | N/A | N/A |
| 0.2 ppb | S0.2 | 30mL | MP88015 |
| 2.5 ppb | S2.5 | 30mL | MP88016 |
| 5.0 ppb | S5.0 | 30mL | MP88017 |
| 7.5 ppb | S7.5 | 30mL | MP88018 |
| 10.0 ppb | S10.0 | 30mL | MP88019 |
| ICV | ICV | 30mL | MP88020 |
| ICB | ICB | 30mL | MP88021 |
| CCV | CCV | 30mL | MP88022 |
| CCB | CCB | 30mL | MP88023 |
| CRI | CRI | 30mL | MP88024 |
| CHK STD | CHK STD | 30mL | MP88025 |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/19/25 09:10 | mn met lab | mn met lab |
| 09:10 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

## Soil/Sludge Mercury Preparation Sheet

**PB170614**

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Comment | Prep Pos |
|---|---|---|---|---|---|---|
| PB170614BL | PBS614 | 0.50 | 35 | N/A | N/A | 3-1 |
| PB170614BS | LCS614 | 0.50 | 35 | N/A | MP88013 | 2 |
| Q3662-02 | B3-0.0-1.0-20251117 | 0.50 | 35 | N/A | N/A | 3 |
| Q3662-04 | B3-0.0-1.0-20251117 | 0.54 | 35 | N/A | N/A | 4 |
| Q3664-01 | ARS20-0001 | 0.54 | 35 | N/A | N/A | 5 |
| Q3664-03 | ARS20-0013 | 0.60 | 35 | N/A | N/A | 6 |
| Q3664-05 | 291399 | 0.50 | 35 | N/A | N/A | 7 |
| Q3669-01 | EO-01-11182025 | 0.52 | 35 | N/A | N/A | 8 |
| Q3669-01DUP | EO-01-11182025DUP | 0.52 | 35 | N/A | N/A | 9 |
| Q3669-01MS | EO-01-11182025MS | 0.55 | 35 | N/A | MP88013 | 10 |
| Q3669-01MSD | EO-01-11182025MSD | 0.53 | 35 | N/A | MP88013 | 11 |

Alliance TECHNICAL GROUP

# Soil/Sludge Metals Preparation Sheet

PB170617

**SOP ID :** M3050B-Digestion-20

**SDG No :** N/A

**Matrix :** SOIL

**Pippete ID:** ICP A

**Balance ID :** M SC-2

**Filter paper ID :** N/A

**pH Strip ID :** N/A

**Hood ID :** #3

**Block ID:** 1. HOT BLOCK #2 2. N/A

**Start Digest Date:** 11/19/2025 **Time :** 10:05 **Temp :** 96 °C

**End Digest Date:** 11/19/2025 **Time :** 12:14 **Temp :** 96 °C

**Digestion tube ID:** M6054

**Block thermometer ID:** MET-DIG. #2

**Dig Technician Signature:** SPS

**Supervisor Signature:** SO

**Temp :** 1. 96°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LFS-1 | 1.00 | M6209 |
| LFS-2 | 1.00 | M6201 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Conc. HNO3 | 5.00 | M6187 |
| 1:1 HNO3 | 10.00 | MP86978 |
| 30% H2O2 | 3.00 | M6170 |
| Conc. HCL | 10.00 | M6151 |
| PTFE Boiling Stones | N/A | M5581 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

HOT BLOCK#2 CELL#35 96 C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/19/25 ~~13:00~~ | SPS met dig | SO (metals lab) |
| 13:00 | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**Soil/Sludge Metals Preparation Sheet**

**PB170617**

| Lab Sample ID | Client Sample ID | pH | Initial Weight (g) | Final Vol (ml) | Color Before | Color After | Texture | Artifact | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| PB170617BL | PBS617 | N/A | 2.00 | 100 | Colorless | Colorless | Fine | No | N/A | 1 |
| PB170617BS | LCS617 | N/A | 2.00 | 100 | Colorless | Colorless | Fine | No | M6209,M6201 | 2 |
| Q3662-02 | B3-0.0-1.0-20251117 | N/A | 2.22 | 100 | Brown | Yellow | Medium | No | N/A | 3 |
| Q3662-04 | B3-0.0-1.0-20251117 | N/A | 2.20 | 100 | Brown | Yellow | Medium | No | N/A | 4 |
| Q3664-01 | ARS20-0001 | N/A | 2.22 | 100 | Brown | Yellow | Medium | No | N/A | 5 |
| Q3664-03 | ARS20-0013 | N/A | 2.40 | 100 | Brown | Yellow | Medium | No | N/A | 6 |
| Q3664-05 | 291399 | N/A | 2.24 | 100 | Brown | Yellow | Medium | No | N/A | 7 |
| Q3667-01 | RIGHT-SIDE-WALL | N/A | 2.36 | 100 | Brown | Yellow | Medium | No | N/A | 8 |
| Q3667-03 | LEFT-SIDE-WALL | N/A | 2.32 | 100 | Brown | Yellow | Medium | No | N/A | 9 |
| Q3667-05 | LEFT-SIDE-FLOOR | N/A | 2.36 | 100 | Brown | Yellow | Medium | No | N/A | 10 |
| Q3667-07 | ELEVATED-DIVIDE | N/A | 2.26 | 100 | Brown | Yellow | Medium | No | N/A | 11 |
| Q3668-01 | 2015 | N/A | 2.36 | 100 | Brown | Yellow | Medium | No | N/A | 12 |
| Q3669-01 | EO-01-11182025 | N/A | 2.14 | 100 | Brown | Yellow | Medium | No | N/A | 13 |
| Q3669-01MS | EO-01-11182025MS | N/A | 2.20 | 100 | Brown | Yellow | Medium | No | M6209,M6201 | 15 |
| Q3669-01MSD | EO-01-11182025MSD | N/A | 2.22 | 100 | Brown | Yellow | Medium | No | M6209,M6201 | 16 |
| Q3669-01DUP | EO-01-11182025DUP | N/A | 2.12 | 100 | Brown | Yellow | Medium | No | N/A | 14 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3662 **Order ID:** Q3662

**Client:** HDR, Inc. **Project ID:** PVWC Linear Construction

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : B1-0.0-1.0-20251117** | | | | | | | | |
| Q3662-05 | B1-0.0-1.0-20251117 | TCLP | Barium | 2250 | | 72.8 | 500 | ug/L |
| Q3662-05 | B1-0.0-1.0-20251117 | TCLP | Cadmium | 8.65 | J | 2.50 | 30.0 | ug/L |
| Q3662-05 | B1-0.0-1.0-20251117 | TCLP | Chromium | 118 | | 10.6 | 50.0 | ug/L |
| Q3662-05 | B1-0.0-1.0-20251117 | TCLP | Lead | 347 | | 11.5 | 60.0 | ug/L |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B1-0.0-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-05 | Matrix: | TCLP |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 25.6 | U | 1 | 25.6 | 100 | ug/L | 11/19/25 12:30 | 11/19/25 17:27 | 6010D | M3010A |
| 7440-39-3 | Barium | 2250 | N | 1 | 72.8 | 500 | ug/L | 11/19/25 12:30 | 11/19/25 17:27 | 6010D | M3010A |
| 7440-43-9 | Cadmium | 8.65 | J | 1 | 2.50 | 30.0 | ug/L | 11/19/25 12:30 | 11/19/25 17:27 | 6010D | M3010A |
| 7440-47-3 | Chromium | 118 | | 1 | 10.6 | 50.0 | ug/L | 11/19/25 12:30 | 11/19/25 17:27 | 6010D | M3010A |
| 7439-92-1 | Lead | 347 | | 1 | 11.5 | 60.0 | ug/L | 11/19/25 12:30 | 11/19/25 17:27 | 6010D | M3010A |
| 7439-97-6 | Mercury | 0.76 | U | 1 | 0.76 | 2.00 | ug/L | 11/19/25 12:30 | 11/19/25 15:04 | 7470A | M7470A |
| 7782-49-2 | Selenium | 48.2 | U | 1 | 48.2 | 100 | ug/L | 11/19/25 12:30 | 11/19/25 17:27 | 6010D | M3010A |
| 7440-22-4 | Silver | 8.10 | U | 1 | 8.10 | 50.0 | ug/L | 11/19/25 12:30 | 11/19/25 17:27 | 6010D | M3010A |

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:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICB122** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 11/19/2025 | 14:25 | LB137970 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB15** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 11/19/2025 | 14:30 | LB137970 |
| **CCB16** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 11/19/2025 | 14:57 | LB137970 |
| **CCB17** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 11/20/2025 | 07:45 | LB137970 |
| **CCB18** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 11/20/2025 | 08:04 | LB137970 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 11/19/2025 | 12:53 | LB137974 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 11/19/2025 | 12:53 | LB137974 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 11/19/2025 | 12:53 | LB137974 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 11/19/2025 | 12:53 | LB137974 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 11/19/2025 | 12:53 | LB137974 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 11/19/2025 | 12:53 | LB137974 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 11/19/2025 | 12:53 | LB137974 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB01** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 11/19/2025 | 13:23 | LB137974 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 11/19/2025 | 13:23 | LB137974 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 11/19/2025 | 13:23 | LB137974 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 11/19/2025 | 13:23 | LB137974 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 11/19/2025 | 13:23 | LB137974 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 11/19/2025 | 13:23 | LB137974 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 11/19/2025 | 13:23 | LB137974 |
| **CCB02** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 11/19/2025 | 15:00 | LB137974 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 11/19/2025 | 15:00 | LB137974 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 11/19/2025 | 15:00 | LB137974 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 11/19/2025 | 15:00 | LB137974 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 11/19/2025 | 15:00 | LB137974 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 11/19/2025 | 15:00 | LB137974 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 11/19/2025 | 15:00 | LB137974 |
| **CCB03** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 11/19/2025 | 16:18 | LB137974 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 11/19/2025 | 16:18 | LB137974 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 11/19/2025 | 16:18 | LB137974 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 11/19/2025 | 16:18 | LB137974 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 11/19/2025 | 16:18 | LB137974 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 11/19/2025 | 16:18 | LB137974 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 11/19/2025 | 16:18 | LB137974 |
| **CCB04** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 11/19/2025 | 17:09 | LB137974 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 11/19/2025 | 17:09 | LB137974 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 11/19/2025 | 17:09 | LB137974 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 11/19/2025 | 17:09 | LB137974 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 11/19/2025 | 17:09 | LB137974 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 11/19/2025 | 17:09 | LB137974 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 11/19/2025 | 17:09 | LB137974 |
| **CCB05** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 11/19/2025 | 18:11 | LB137974 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 11/19/2025 | 18:11 | LB137974 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 11/19/2025 | 18:11 | LB137974 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 11/19/2025 | 18:11 | LB137974 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 11/19/2025 | 18:11 | LB137974 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 11/19/2025 | 18:11 | LB137974 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 11/19/2025 | 18:11 | LB137974 |
| **CCB06** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 11/19/2025 | 18:42 | LB137974 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 11/19/2025 | 18:42 | LB137974 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 11/19/2025 | 18:42 | LB137974 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 11/19/2025 | 18:42 | LB137974 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCB06 | Lead | 2.30 | +/-6 | U | 12.0 | P | 11/19/2025 | 18:42 | LB137974 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 11/19/2025 | 18:42 | LB137974 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 11/19/2025 | 18:42 | LB137974 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Instrument:** CV1

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB170600TB** | | **WATER** | | **Batch Number:** | **PB170634** | | **Prep Date:** | **11/19/2025** | |
| | Mercury | 0.76 | <2 | U | 2.00 | CV | 11/20/2025 | 07:47 | LB137970 |
| **Sample ID** | **Analyte** | **Result (ug/L)** | **Acceptance Limit** | **Conc Qual** | **CRQL ug/L** | **M** | **Analysis Date** | **Analysis Time** | **Run** |
| **PB170634BL** | | **WATER** | | **Batch Number:** | **PB170634** | | **Prep Date:** | **11/19/2025** | |
| | Mercury | 0.076 | <0.2 | U | 0.20 | CV | 11/19/2025 | 14:39 | LB137970 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Instrument:** P4

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB170600TB** | | **WATER** | | **Batch Number:** | **PB170626** | | **Prep Date:** | **11/19/2025** | |
| | Arsenic | 25.6 | <50 | U | 100 | P | 11/19/2025 | 17:49 | LB137974 |
| | Barium | 72.8 | <250 | U | 500 | P | 11/19/2025 | 17:49 | LB137974 |
| | Cadmium | 2.50 | <15 | U | 30.0 | P | 11/19/2025 | 17:49 | LB137974 |
| | Chromium | 24.3 | <25 | J | 50.0 | P | 11/19/2025 | 17:49 | LB137974 |
| | Lead | 11.5 | <30 | U | 60.0 | P | 11/19/2025 | 17:49 | LB137974 |
| | Selenium | 48.2 | <50 | U | 100 | P | 11/19/2025 | 17:49 | LB137974 |
| | Silver | 8.10 | <25 | U | 50.0 | P | 11/19/2025 | 17:49 | LB137974 |

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB170626BL** | | **WATER** | | **Batch Number:** | **PB170626** | | **Prep Date:** | **11/19/2025** | |
| | Arsenic | 25.6 | <50 | U | 100 | P | 11/19/2025 | 13:36 | LB137974 |
| | Barium | 72.8 | <250 | U | 500 | P | 11/19/2025 | 13:36 | LB137974 |
| | Cadmium | 2.50 | <15 | U | 30.0 | P | 11/19/2025 | 13:36 | LB137974 |
| | Chromium | 10.6 | <25 | U | 50.0 | P | 11/19/2025 | 13:36 | LB137974 |
| | Lead | 11.5 | <30 | U | 60.0 | P | 11/19/2025 | 13:36 | LB137974 |
| | Selenium | 48.2 | <50 | U | 100 | P | 11/19/2025 | 13:36 | LB137974 |
| | Silver | 8.10 | <25 | U | 50.0 | P | 11/19/2025 | 13:36 | LB137974 |

# METAL CALIBRATION DATA

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** HDR, Inc.

**SDG No.:** Q3662

**Contract:** HDRI08

**Lab Code:** ACE

**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 |
|---|---|---|---|---|---|---|---|---|---|
| ICV122 | Mercury | 4.16 | 4.0 | 104 | 90 - 110 | CV | 11/19/2025 | 14:23 | LB137970 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** HDR, Inc.

**SDG No.:** Q3662

**Contract:** HDRI08

**Lab Code:** ACE

**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 |
|---|---|---|---|---|---|---|---|---|---|
| CCV15 | Mercury | 4.68 | 5.0 | 94 | 90 - 110 | CV | 11/19/2025 | 14:28 | LB137970 |
| CCV16 | Mercury | 4.65 | 5.0 | 93 | 90 - 110 | CV | 11/19/2025 | 14:55 | LB137970 |
| CCV17 | Mercury | 4.80 | 5.0 | 96 | 90 - 110 | CV | 11/20/2025 | 07:42 | LB137970 |
| CCV18 | Mercury | 5.19 | 5.0 | 104 | 90 - 110 | CV | 11/20/2025 | 08:02 | LB137970 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV01 | Arsenic | 3860 | 4000 | 96 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Barium | 8100 | 8000 | 101 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Cadmium | 1920 | 2000 | 96 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Chromium | 787 | 800 | 98 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Lead | 3820 | 4000 | 96 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Selenium | 3860 | 4000 | 96 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |
| | Silver | 1030 | 1000 | 103 | 90 - 110 | P | 11/19/2025 | 12:45 | LB137974 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** HDR, Inc.
**SDG No.:** Q3662
**Contract:** HDRI08
**Lab Code:** ACE
**Initial Calibration Source:** EPA
**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV01 | Arsenic | 22.2 | 20.0 | 111 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Barium | 103 | 100 | 103 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Cadmium | 5.94 | 6.0 | 99 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Chromium | 10.2 | 10.0 | 102 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Lead | 11.4 | 12.0 | 95 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Selenium | 19.8 | 20.0 | 99 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |
| | Silver | 11.0 | 10.0 | 110 | 80 - 120 | P | 11/19/2025 | 12:49 | LB137974 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Arsenic | 4700 | 5000 | 94 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Barium | 9560 | 10000 | 96 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Cadmium | 2330 | 2500 | 93 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Chromium | 965 | 1000 | 96 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Lead | 4680 | 5000 | 94 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Selenium | 4700 | 5000 | 94 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| | Silver | 1200 | 1250 | 96 | 90 - 110 | P | 11/19/2025 | 13:19 | LB137974 |
| CCV02 | Arsenic | 5020 | 5000 | 100 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Barium | 10200 | 10000 | 102 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Cadmium | 2500 | 2500 | 100 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Chromium | 1030 | 1000 | 103 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Lead | 5000 | 5000 | 100 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Selenium | 5000 | 5000 | 100 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 11/19/2025 | 14:56 | LB137974 |
| CCV03 | Arsenic | 5120 | 5000 | 102 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Barium | 9980 | 10000 | 100 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Cadmium | 2500 | 2500 | 100 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Lead | 5040 | 5000 | 101 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Selenium | 5140 | 5000 | 103 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| | Silver | 1280 | 1250 | 102 | 90 - 110 | P | 11/19/2025 | 16:14 | LB137974 |
| CCV04 | Arsenic | 5040 | 5000 | 101 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Barium | 9560 | 10000 | 96 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Cadmium | 2450 | 2500 | 98 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Lead | 4960 | 5000 | 99 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Selenium | 5020 | 5000 | 100 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 11/19/2025 | 17:05 | LB137974 |
| CCV05 | Arsenic | 5200 | 5000 | 104 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Barium | 10000 | 10000 | 100 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Cadmium | 2560 | 2500 | 102 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Chromium | 1070 | 1000 | 107 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Lead | 5150 | 5000 | 103 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| | Selenium | 5170 | 5000 | 104 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** HDR, Inc.
**SDG No.:** Q3662
**Contract:** HDRI08
**Lab Code:** ACE
**Initial Calibration Source:** EPA
**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV05 | Silver | 1340 | 1250 | 107 | 90 - 110 | P | 11/19/2025 | 18:07 | LB137974 |
| CCV06 | Arsenic | 4980 | 5000 | 100 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Barium | 9380 | 10000 | 94 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Cadmium | 2420 | 2500 | 97 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Chromium | 964 | 1000 | 96 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Lead | 4900 | 5000 | 98 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Selenium | 4970 | 5000 | 99 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |
| | Silver | 1210 | 1250 | 97 | 90 - 110 | P | 11/19/2025 | 18:35 | LB137974 |

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# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CRI01 | Arsenic | 23.9 | 20.0 | 120 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Barium | 99.7 | 100 | 100 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Cadmium | 5.89 | 6.0 | 98 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Chromium | 9.95 | 10.0 | 100 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Lead | 10.1 | 12.0 | 84 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Selenium | 18.5 | 20.0 | 92 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| | Silver | 10.7 | 10.0 | 107 | 65 - 135 | P | 11/19/2025 | 12:57 | LB137974 |
| CRA | Mercury | 0.17 | 0.2 | 84 | 70 - 130 | CV | 11/19/2025 | 14:32 | LB137970 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICSA01** | Arsenic | 8.44 | | | -20 | 20 | 11/19/2025 | 13:02 | LB137974 |
| | Barium | 3.47 | 6.0 | 58 | -94 | 106 | 11/19/2025 | 13:02 | LB137974 |
| | Cadmium | 6.34 | 1.0 | 634 | -5 | 7 | 11/19/2025 | 13:02 | LB137974 |
| | Chromium | 51.9 | 52.0 | 100 | 42 | 62 | 11/19/2025 | 13:02 | LB137974 |
| | Lead | 7.25 | | | -12 | 12 | 11/19/2025 | 13:02 | LB137974 |
| | Selenium | 1.34 | | | -20 | 20 | 11/19/2025 | 13:02 | LB137974 |
| | Silver | -6.41 | | | -10 | 10 | 11/19/2025 | 13:02 | LB137974 |
| **ICSAB01** | Arsenic | 112 | 104 | 108 | 88.4 | 120 | 11/19/2025 | 13:06 | LB137974 |
| | Barium | 494 | 537 | 92 | 437 | 637 | 11/19/2025 | 13:06 | LB137974 |
| | Cadmium | 992 | 972 | 102 | 826 | 1120 | 11/19/2025 | 13:06 | LB137974 |
| | Chromium | 551 | 542 | 102 | 460 | 624 | 11/19/2025 | 13:06 | LB137974 |
| | Lead | 57.4 | 49.0 | 117 | 37 | 61 | 11/19/2025 | 13:06 | LB137974 |
| | Selenium | 54.5 | 46.0 | 118 | 26 | 66 | 11/19/2025 | 13:06 | LB137974 |
| | Silver | 186 | 201 | 92 | 170 | 232 | 11/19/2025 | 13:06 | LB137974 |

# METAL QC DATA

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** HDR, Inc. **level:** low **sdg no.:** Q3662

**contract:** HDRI08 **lab code:** ACE

**matrix:** Water **sample id:** Q3652-04 **client id:** TP-1MS

**Percent Solids for Sample:** NA **Spiked ID:** Q3652-04MS **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 75 - 125 | 3470 | | 100 | U | 4000 | 87 | | P |
| Barium | ug/L | 75 - 125 | 2140 | | 1480 | | 1000 | 66 | N | P |
| Cadmium | ug/L | 75 - 125 | 832 | | 30.0 | U | 1000 | 83 | | P |
| Chromium | ug/L | 75 - 125 | 1780 | | 53.7 | | 2000 | 86 | | P |
| Lead | ug/L | 75 - 125 | 4100 | | 67.1 | | 5000 | 81 | | P |
| Mercury | ug/L | 75 - 125 | 36.5 | | 2.00 | U | 40.0 | 91 | | CV |
| Selenium | ug/L | 75 - 125 | 8580 | | 100 | U | 10000 | 86 | | P |
| Silver | ug/L | 75 - 125 | 320 | | 50.0 | U | 380 | 84 | | P |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** HDR, Inc. **level:** low **sdg no.:** Q3662

**contract:** HDRI08 **lab code:** ACE

**matrix:** Water **sample id:** Q3652-04 **client id:** TP-1MSD

**Percent Solids for Sample:** NA **Spiked ID:** Q3652-04MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 75 - 125 | 3780 | | 100 | U | 4000 | 94 | | P |
| Barium | ug/L | 75 - 125 | 2170 | | 1480 | | 1000 | 69 | N | P |
| Cadmium | ug/L | 75 - 125 | 908 | | 30.0 | U | 1000 | 91 | | P |
| Chromium | ug/L | 75 - 125 | 1900 | | 53.7 | | 2000 | 92 | | P |
| Lead | ug/L | 75 - 125 | 4480 | | 67.1 | | 5000 | 88 | | P |
| Mercury | ug/L | 75 - 125 | 36.6 | | 2.00 | U | 40.0 | 92 | | CV |
| Selenium | ug/L | 75 - 125 | 9420 | | 100 | U | 10000 | 94 | | P |
| Silver | ug/L | 75 - 125 | 349 | | 50.0 | U | 380 | 92 | | P |

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# Metals
## - 5b -
## POST DIGEST SPIKE SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**Matrix:** Water **Level:** LOW **Client ID:** TP-1A

**Sample ID:** Q3652-04 **Spiked ID:** Q3652-04A

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Barium | ug/L | 75 - 125 | 2370 | | 1480 | | 1000 | 89 | | P |

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# Metals

## - 6 -
## DUPLICATE SAMPLE SUMMARY

**Client:** HDR, Inc. **Level:** LOW **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**Matrix:** Water **Sample ID:** Q3652-04 **Client ID:** TP-1DUP

**Percent Solids for Sample:** NA **Duplicate ID** Q3652-04DUP **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 20 | 100 | U | 100 | U | | | P |
| Barium | ug/L | 20 | 1480 | | 1480 | | 0 | | P |
| Cadmium | ug/L | 20 | 30.0 | U | 30.0 | U | | | P |
| Chromium | ug/L | 20 | 53.7 | | 53.1 | | 1 | | P |
| Lead | ug/L | 20 | 67.1 | | 75.0 | | 11 | | P |
| Mercury | ug/L | 20 | 2.00 | U | 2.00 | U | | | CV |
| Selenium | ug/L | 20 | 100 | U | 100 | U | | | P |
| Silver | ug/L | 20 | 50.0 | U | 50.0 | U | | | P |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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# Metals

## - 6 -
## DUPLICATE SAMPLE SUMMARY

**Client:** HDR, Inc. **Level:** LOW **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**Matrix:** Water **Sample ID:** Q3652-04MS **Client ID:** TP-1MSD

**Percent Solids for Sample:** NA **Duplicate ID** Q3652-04MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 20 | 3470 | | 3780 | | 9 | | P |
| Barium | ug/L | 20 | 2140 | | 2170 | | 1 | | P |
| Cadmium | ug/L | 20 | 832 | | 908 | | 9 | | P |
| Chromium | ug/L | 20 | 1780 | | 1900 | | 7 | | P |
| Lead | ug/L | 20 | 4100 | | 4480 | | 9 | | P |
| Mercury | ug/L | 20 | 36.5 | | 36.6 | | 0 | | CV |
| Selenium | ug/L | 20 | 8580 | | 9420 | | 9 | | P |
| Silver | ug/L | 20 | 320 | | 349 | | 9 | | P |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB170626BS | | | | | | | |
| Arsenic | ug/L | 4000 | 3800 | | 95 | 80 - 120 | P |
| Barium | ug/L | 1000 | 969 | | 97 | 80 - 120 | P |
| Cadmium | ug/L | 1000 | 940 | | 94 | 80 - 120 | P |
| Chromium | ug/L | 2000 | 1980 | | 99 | 80 - 120 | P |
| Lead | ug/L | 5000 | 4630 | | 93 | 80 - 120 | P |
| Selenium | ug/L | 10000 | 9540 | | 95 | 80 - 120 | P |
| Silver | ug/L | 380 | 376 | | 99 | 80 - 120 | P |

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB170634BS | | | | | | | |
| Mercury | ug/L | 4.0 | 3.74 | | 94 | 80 - 120 | CV |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

TP-1L

**Lab Name:** Alliance **Contract:** HDRI08

**Lab Code:** ACE **Lb No.:** lb137974 **Lab Sample ID :** Q3652-04L **SDG No.:** Q3662

**Matrix (soil/water):** Water **Level (low/med):** LOW

**Concentration Units:** ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Arsenic | 100 | U | 500 | U | | | P |
| Barium | 1480 | | 1350 | J | 9 | | P |
| Cadmium | 30.0 | U | 150 | U | | | P |
| Chromium | 53.7 | | 59.1 | J | 10 | | P |
| Lead | 67.1 | | 300 | U | 100.0 | | P |
| Mercury | 2.00 | U | 10.0 | U | | | CV |
| Selenium | 100 | U | 500 | U | | | P |
| Silver | 50.0 | U | 250 | U | | | P |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** HDR, Inc. **Contract:** HDRI08

**Lab code:** ACE **Sdg no.:** Q3662

**Instrument id number:** **Method:** **Run number:** LB137970

**Start date:** 11/19/2025 **End date:** 11/20/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1402 | HG |
| S0.2 | S0.2 | 1 | 1404 | HG |
| S2.5 | S2.5 | 1 | 1407 | HG |
| S5 | S5 | 1 | 1409 | HG |
| S7.5 | S7.5 | 1 | 1411 | HG |
| S10 | S10 | 1 | 1417 | HG |
| ICV122 | ICV122 | 1 | 1423 | HG |
| ICB122 | ICB122 | 1 | 1425 | HG |
| CCV15 | CCV15 | 1 | 1428 | HG |
| CCB15 | CCB15 | 1 | 1430 | HG |
| CRA | CRA | 1 | 1432 | HG |
| PB170634BL | PB170634BL | 1 | 1439 | HG |
| PB170634BS | PB170634BS | 1 | 1441 | HG |
| Q3652-04DUP | TP-1DUP | 1 | 1446 | HG |
| Q3652-04MS | TP-1MS | 1 | 1448 | HG |
| Q3652-04MSD | TP-1MSD | 1 | 1450 | HG |
| CCV16 | CCV16 | 1 | 1455 | HG |
| CCB16 | CCB16 | 1 | 1457 | HG |
| Q3662-05 | B1-0.0-1.0-20251117 | 1 | 1504 | HG |
| CCV17 | CCV17 | 1 | 0742 | HG |
| CCB17 | CCB17 | 1 | 0745 | HG |
| PB170600TB | PB170600TB | 1 | 0747 | HG |
| Q3652-04L | TP-1L | 5 | 0749 | HG |
| CCV18 | CCV18 | 1 | 0802 | HG |
| CCB18 | CCB18 | 1 | 0804 | HG |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** HDR, Inc. **Contract:** HDRI08

**Lab code:** ACE **Sdg no.:** Q3662

**Instrument id number:** **Method:** **Run number:** LB137974

**Start date:** 11/19/2025 **End date:** 11/19/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1220 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S1 | S1 | 1 | 1224 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S2 | S2 | 1 | 1228 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S3 | S3 | 1 | 1232 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S4 | S4 | 1 | 1236 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S5 | S5 | 1 | 1241 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICV01 | ICV01 | 1 | 1245 | Ag,As,Ba,Cd,Cr,Pb,Se |
| LLICV01 | LLICV01 | 1 | 1249 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICB01 | ICB01 | 1 | 1253 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CRI01 | CRI01 | 1 | 1257 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICSA01 | ICSA01 | 1 | 1302 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICSAB01 | ICSAB01 | 1 | 1306 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV01 | CCV01 | 1 | 1319 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB01 | CCB01 | 1 | 1323 | Ag,As,Ba,Cd,Cr,Pb,Se |
| PB170626BL | PB170626BL | 1 | 1336 | Ag,As,Ba,Cd,Cr,Pb,Se |
| PB170626BS | PB170626BS | 1 | 1340 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV02 | CCV02 | 1 | 1456 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB02 | CCB02 | 1 | 1500 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV03 | CCV03 | 1 | 1614 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB03 | CCB03 | 1 | 1618 | Ag,As,Ba,Cd,Cr,Pb,Se |
| Q3652-04DUP | TP-1DUP | 1 | 1644 | Ag,As,Ba,Cd,Cr,Pb,Se |
| Q3652-04L | TP-1L | 5 | 1648 | Ag,As,Ba,Cd,Cr,Pb,Se |
| Q3652-04MS | TP-1MS | 1 | 1652 | Ag,As,Ba,Cd,Cr,Pb,Se |
| Q3652-04MSD | TP-1MSD | 1 | 1656 | Ag,As,Ba,Cd,Cr,Pb,Se |
| Q3652-04A | TP-1A | 1 | 1701 | Ba |
| CCV04 | CCV04 | 1 | 1705 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB04 | CCB04 | 1 | 1709 | Ag,As,Ba,Cd,Cr,Pb,Se |
| Q3662-05 | B1-0.0-1.0-20251117 | 1 | 1727 | Ag,As,Ba,Cd,Cr,Pb,Se |
| PB170600TB | PB170600TB | 1 | 1749 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV05 | CCV05 | 1 | 1807 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB05 | CCB05 | 1 | 1811 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV06 | CCV06 | 1 | 1835 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB06 | CCB06 | 1 | 1842 | Ag,As,Ba,Cd,Cr,Pb,Se |

# METAL PREPARATION & INSTRUMENT DATA

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Al | Ca | Fe | Mg | Ag |
|---|---|---|---|---|---|---|
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | -0.0000440 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000930 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | -0.0000920 | 0.0000000 | 0.0000380 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | -0.0001440 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | -0.0001490 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: As | Ba | Be | Cd | Co |
|---|---|---|---|---|---|---|
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0002870 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0003170 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0003570 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Cr | Cu | K | Mn | Mo |
|---|---|---|---|---|---|---|
| Arsenic | 193.759 | -0.0029000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0004900 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000070 | 0.0002200 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001400 | -0.0008600 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0007460 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0000120 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Na | Ni | Pb | Sb | Se |
|---|---|---|---|---|---|---|
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0006580 | 0.0000000 | 0.0000000 | 0.0001290 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0003330 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Sn | Ti | Tl | V | Zn |
|---|---|---|---|---|---|---|
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000630 | 0.0001280 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001110 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | -0.0003610 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | -0.0007420 | 0.0000000 | 0.0000000 | 0.0000000 |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q3662 | **OrderDate:** | 11/18/2025 11:14:00 AM |
| **Client:** | HDR, Inc. | **Project:** | PVWC Linear Construction |
| **Contact:** | Andrew Wadden | **Location:** | D41,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q3662-02** | **B3-0.0-1.0-20251117** | **SOIL** | | | **11/17/25** | | | **11/18/25** |
| | | | Mercury | 7471B | | 11/19/25 | 11/19/25 | |
| | | | Metals ICP-TAL | 6010D | | 11/19/25 | 11/19/25 | |
| **Q3662-04** | **B1-0.0-1.0-20251117** | **SOIL** | | | **11/17/25** | | | **11/18/25** |
| | | | Mercury | 7471B | | 11/19/25 | 11/19/25 | |
| | | | Metals ICP-TAL | 6010D | | 11/19/25 | 11/19/25 | |
| **Q3662-05** | **B1-0.0-1.0-20251117** | **TCLP** | | | **11/17/25** | | | **11/18/25** |
| | | | TCLP ICP Metals | 6010D | | 11/19/25 | 11/19/25 | |
| | | | TCLP Mercury | 7470A | | 11/19/25 | 11/19/25 | |

# METAL PREPARATION & ANALYICAL SUMMARY

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE **Method:**

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB170626** | | | | | | |
| PB170600TB | PB170600TB | MB | WATER | 11/19/2025 | 5.0 | 25.0 | |
| PB170626BL | PB170626BL | MB | WATER | 11/19/2025 | 5.0 | 25.0 | |
| PB170626BS | PB170626BS | LCS | WATER | 11/19/2025 | 5.0 | 25.0 | |
| Q3652-04DUP | TP-1DUP | DUP | WATER | 11/19/2025 | 5.0 | 25.0 | |
| Q3652-04MS | TP-1MS | MS | WATER | 11/19/2025 | 5.0 | 25.0 | |
| Q3652-04MSD | TP-1MSD | MSD | WATER | 11/19/2025 | 5.0 | 25.0 | |
| Q3662-05 | B1-0.0-1.0-20251117 | SAM | WATER | 11/19/2025 | 5.0 | 25.0 | |

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** HDR, Inc. **SDG No.:** Q3662

**Contract:** HDRI08 **Lab Code:** ACE **Method:**

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB170634** | | | | | | |
| PB170600TB | PB170600TB | MB | WATER | 11/19/2025 | 3.0 | 30.0 | |
| PB170634BL | PB170634BL | MB | WATER | 11/19/2025 | 30.0 | 30.0 | |
| PB170634BS | PB170634BS | LCS | WATER | 11/19/2025 | 30.0 | 30.0 | |
| Q3652-04DUP | TP-1DUP | DUP | WATER | 11/19/2025 | 3.0 | 30.0 | |
| Q3652-04MS | TP-1MS | MS | WATER | 11/19/2025 | 3.0 | 30.0 | |
| Q3652-04MSD | TP-1MSD | MSD | WATER | 11/19/2025 | 3.0 | 30.0 | |
| Q3662-05 | B1-0.0-1.0-20251117 | SAM | WATER | 11/19/2025 | 3.0 | 30.0 | |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137970

| | | | |
|---|---|---|---|
| Review By | mohan | Review On | 11/20/2025 12:53:46 PM |
| Supervise By | jaswal | Supervise On | 11/21/2025 12:23:46 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP88014,MP88015,MP88016,MP88017,MP88018,MP88019 |
| ICV Standard | MP88020 |
| CCV Standard | MP88022 |
| ICSA Standard | |
| CRI Standard | MP88024 |
| LCS Standard | |
| Chk Standard | MP88021,MP88023,MP88025,MP88027 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 11/19/25 14:02 | | mohan | OK |
| 2 | S0.2 | S0.2 | CAL2 | 11/19/25 14:04 | | mohan | OK |
| 3 | S2.5 | S2.5 | CAL3 | 11/19/25 14:07 | | mohan | OK |
| 4 | S5 | S5 | CAL4 | 11/19/25 14:09 | | mohan | OK |
| 5 | S7.5 | S7.5 | CAL5 | 11/19/25 14:11 | | mohan | OK |
| 6 | S10 | S10 | CAL6 | 11/19/25 14:17 | | mohan | OK |
| 7 | ICV122 | ICV122 | ICV | 11/19/25 14:23 | | mohan | OK |
| 8 | ICB122 | ICB122 | ICB | 11/19/25 14:25 | | mohan | OK |
| 9 | CCV15 | CCV15 | CCV | 11/19/25 14:28 | | mohan | OK |
| 10 | CCB15 | CCB15 | CCB | 11/19/25 14:30 | | mohan | OK |
| 11 | CRA | CRA | CRDL | 11/19/25 14:32 | | mohan | OK |
| 12 | HighStd | HighStd | HIGH STD | 11/19/25 14:34 | | mohan | OK |
| 13 | ChkStd | ChkStd | SAM | 11/19/25 14:37 | | mohan | OK |
| 14 | PB170634BL | PB170634BL | MB | 11/19/25 14:39 | | mohan | OK |
| 15 | PB170634BS | PB170634BS | LCS | 11/19/25 14:41 | | mohan | OK |
| 16 | Q3652-04 | TP-1 | SAM | 11/19/25 14:43 | | mohan | OK |
| 17 | Q3652-04DUP | TP-1DUP | DUP | 11/19/25 14:46 | | mohan | OK |
| 18 | Q3652-04MS | TP-1MS | MS | 11/19/25 14:48 | | mohan | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137970

| | | | |
|---|---|---|---|
| Review By | mohan | Review On | 11/20/2025 12:53:46 PM |
| Supervise By | jaswal | Supervise On | 11/21/2025 12:23:46 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP88014,MP88015,MP88016,MP88017,MP88018,MP88019 |
| ICV Standard | MP88020 |
| CCV Standard | MP88022 |
| ICSA Standard | |
| CRI Standard | MP88024 |
| LCS Standard | |
| Chk Standard | MP88021,MP88023,MP88025,MP88027 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3652-04MSD | TP-1MSD | MSD | 11/19/25 14:50 | | mohan | OK |
| 20 | Q3657-01 | SEWAREN-CONCRE | SAM | 11/19/25 14:53 | | mohan | OK |
| 21 | CCV16 | CCV16 | CCV | 11/19/25 14:55 | | mohan | OK |
| 22 | CCB16 | CCB16 | CCB | 11/19/25 14:57 | | mohan | OK |
| 23 | Q3659-01 | TANK-1-COMP-1 | SAM | 11/19/25 14:59 | | mohan | OK |
| 24 | Q3659-02 | TANK-1-COMP-2 | SAM | 11/19/25 15:02 | | mohan | OK |
| 25 | Q3662-05 | B1-0.0-1.0-20251117 | SAM | 11/19/25 15:04 | | mohan | OK |
| 26 | PB170635BL | PB170635BL | MB | 11/19/25 15:06 | | mohan | OK |
| 27 | PB170635BS | PB170635BS | LCS | 11/19/25 15:08 | | mohan | OK |
| 28 | Q3666-02 | BUR-25-0102 | SAM | 11/19/25 15:11 | | mohan | OK |
| 29 | Q3666-02DUP | BUR-25-0102DUP | DUP | 11/19/25 15:13 | | mohan | OK |
| 30 | Q3666-02MS | BUR-25-0102MS | MS | 11/19/25 15:15 | | mohan | OK |
| 31 | Q3666-02MSD | BUR-25-0102MSD | MSD | 11/19/25 15:18 | | mohan | OK |
| 32 | CCV17 | CCV17 | CCV | 11/20/25 07:42 | | mohan | OK |
| 33 | CCB17 | CCB17 | CCB | 11/20/25 07:45 | | mohan | OK |
| 34 | PB170600TB | PB170600TB | MB | 11/20/25 07:47 | | mohan | OK |
| 35 | Q3652-04L | TP-1L | SD | 11/20/25 07:49 | | mohan | OK |
| 36 | Q3652-04A | TP-1A | PS | 11/20/25 07:51 | | mohan | OK |
| 37 | Q3666-02A | BUR-25-0102A | PS | 11/20/25 07:56 | | mohan | OK |
| 38 | Q3666-02L | BUR-25-0102L | SD | 11/20/25 07:59 | | mohan | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137970

| | | | |
|---|---|---|---|
| Review By | mohan | Review On | 11/20/2025 12:53:46 PM |
| Supervise By | jaswal | Supervise On | 11/21/2025 12:23:46 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP88014,MP88015,MP88016,MP88017,MP88018,MP88019 |
| ICV Standard | MP88020 |
| CCV Standard | MP88022 |
| ICSA Standard | |
| CRI Standard | MP88024 |
| LCS Standard | |
| Chk Standard | MP88021,MP88023,MP88025,MP88027 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | CCV18 | CCV18 | CCV | 11/20/25 08:02 | | mohan | OK |
| 40 | CCB18 | CCB18 | CCB | 11/20/25 08:04 | | mohan | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137974

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 11/20/2025 12:52:04 PM |
| Supervise By | mohan | Supervise On | 11/20/2025 1:09:45 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP87637,MP87643,MP87641,MP87640,MP87639,MP87638 |
| ICV Standard | MP87644,MP87643 |
| CCV Standard | MP87647 |
| ICSA Standard | MP87645,MP87646 |
| CRI Standard | MP87643 |
| LCS Standard | |
| Chk Standard | MP87668,MP87648,MP87651,MP87649,MP87650 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 11/19/25 12:20 | | Jaswal | OK |
| 2 | S1 | S1 | CAL2 | 11/19/25 12:24 | | Jaswal | OK |
| 3 | S2 | S2 | CAL3 | 11/19/25 12:28 | | Jaswal | OK |
| 4 | S3 | S3 | CAL4 | 11/19/25 12:32 | | Jaswal | OK |
| 5 | S4 | S4 | CAL5 | 11/19/25 12:36 | | Jaswal | OK |
| 6 | S5 | S5 | CAL6 | 11/19/25 12:41 | | Jaswal | OK |
| 7 | ICV01 | ICV01 | ICV | 11/19/25 12:45 | | Jaswal | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 11/19/25 12:49 | | Jaswal | OK |
| 9 | ICB01 | ICB01 | ICB | 11/19/25 12:53 | | Jaswal | OK |
| 10 | CRI01 | CRI01 | CRDL | 11/19/25 12:57 | | Jaswal | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 11/19/25 13:02 | | Jaswal | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 11/19/25 13:06 | | Jaswal | OK |
| 13 | ICSADL | ICSADL | ICSA | 11/19/25 13:10 | | Jaswal | OK |
| 14 | ICSABDL | ICSABDL | ICSAB | 11/19/25 13:14 | | Jaswal | OK |
| 15 | CCV01 | CCV01 | CCV | 11/19/25 13:19 | | Jaswal | OK |
| 16 | CCB01 | CCB01 | CCB | 11/19/25 13:23 | | Jaswal | OK |
| 17 | PB170617BL | PB170617BL | MB | 11/19/25 13:27 | | Jaswal | OK |
| 18 | PB170617BS | PB170617BS | LCS | 11/19/25 13:32 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137974

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 11/20/2025 12:52:04 PM |
| Supervise By | mohan | Supervise On | 11/20/2025 1:09:45 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP87637,MP87643,MP87641,MP87640,MP87639,MP87638 |
| ICV Standard | MP87644,MP87643 |
| CCV Standard | MP87647 |
| ICSA Standard | MP87645,MP87646 |
| CRI Standard | MP87643 |
| LCS Standard | |
| Chk Standard | MP87668,MP87648,MP87651,MP87649,MP87650 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | PB170626BL | PB170626BL | MB | 11/19/25 13:36 | | Jaswal | OK |
| 20 | PB170626BS | PB170626BS | LCS | 11/19/25 13:40 | | Jaswal | OK |
| 21 | LR-1 | LR-1 | HIGH STD | 11/19/25 14:09 | | Jaswal | OK |
| 22 | LR-2 | LR-2 | HIGH STD | 11/19/25 14:19 | | Jaswal | OK |
| 23 | LR-3 | LR-3 | HIGH STD | 11/19/25 14:30 | | Jaswal | OK |
| 24 | Q3662-02 | B3-0.0-1.0-20251117 | SAM | 11/19/25 14:34 | | Jaswal | OK |
| 25 | Q3662-04 | B1-0.0-1.0-20251117 | SAM | 11/19/25 14:38 | | Jaswal | OK |
| 26 | Q3664-01 | ARS20-0001 | SAM | 11/19/25 14:42 | | Jaswal | OK |
| 27 | CCV02 | CCV02 | CCV | 11/19/25 14:56 | | Jaswal | OK |
| 28 | CCB02 | CCB02 | CCB | 11/19/25 15:00 | | Jaswal | OK |
| 29 | Q3664-03 | ARS20-0013 | SAM | 11/19/25 15:05 | | Jaswal | OK |
| 30 | Q3664-05 | 291399 | SAM | 11/19/25 15:09 | | Jaswal | OK |
| 31 | Q3667-01 | RIGHT-SIDE-WALL | SAM | 11/19/25 15:13 | | Jaswal | OK |
| 32 | Q3667-05 | LEFT-SIDE-FLOOR | SAM | 11/19/25 15:22 | | Jaswal | OK |
| 33 | Q3667-03 | LEFT-SIDE-WALL | SAM | 11/19/25 15:44 | | Jaswal | OK |
| 34 | Q3667-07 | ELEVATED-DIVIDE | SAM | 11/19/25 15:48 | | Jaswal | OK |
| 35 | Q3668-01 | 2015 | SAM | 11/19/25 15:53 | | Jaswal | OK |
| 36 | Q3669-01 | EO-01-11182025 | SAM | 11/19/25 15:57 | | Jaswal | OK |
| 37 | Q3669-01DUP | EO-01-11182025DUP | DUP | 11/19/25 16:01 | | Jaswal | OK |
| 38 | Q3669-01L | EO-01-11182025L | SD | 11/19/25 16:05 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137974

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 11/20/2025 12:52:04 PM |
| Supervise By | mohan | Supervise On | 11/20/2025 1:09:45 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP87637,MP87643,MP87641,MP87640,MP87639,MP87638 |
| ICV Standard | MP87644,MP87643 |
| CCV Standard | MP87647 |
| ICSA Standard | MP87645,MP87646 |
| CRI Standard | MP87643 |
| LCS Standard | |
| Chk Standard | MP87668,MP87648,MP87651,MP87649,MP87650 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | CCV03 | CCV03 | CCV | 11/19/25 16:14 | | Jaswal | OK |
| 40 | CCB03 | CCB03 | CCB | 11/19/25 16:18 | | Jaswal | OK |
| 41 | Q3669-01MS | EO-01-11182025MS | MS | 11/19/25 16:22 | | Jaswal | OK |
| 42 | Q3669-01MSD | EO-01-11182025MSD | MSD | 11/19/25 16:26 | | Jaswal | OK |
| 43 | Q3583-07 | CHRT27080 | SAM | 11/19/25 16:35 | | Jaswal | OK |
| 44 | Q3652-04 | TP-1 | SAM | 11/19/25 16:39 | | Jaswal | OK |
| 45 | Q3652-04DUP | TP-1DUP | DUP | 11/19/25 16:44 | | Jaswal | OK |
| 46 | Q3652-04L | TP-1L | SD | 11/19/25 16:48 | | Jaswal | OK |
| 47 | Q3652-04MS | TP-1MS | MS | 11/19/25 16:52 | | Jaswal | OK |
| 48 | Q3652-04MSD | TP-1MSD | MSD | 11/19/25 16:56 | | Jaswal | OK |
| 49 | Q3652-04A | TP-1A | PS | 11/19/25 17:01 | 0.1ML M6008,M6017-10ML SAMPLE | Jaswal | OK |
| 50 | CCV04 | CCV04 | CCV | 11/19/25 17:05 | | Jaswal | OK |
| 51 | CCB04 | CCB04 | CCB | 11/19/25 17:09 | | Jaswal | OK |
| 52 | Q3657-01 | SEWAREN-CONCRE | SAM | 11/19/25 17:13 | | Jaswal | OK |
| 53 | Q3659-01 | TANK-1-COMP-1 | SAM | 11/19/25 17:18 | | Jaswal | OK |
| 54 | Q3659-02 | TANK-1-COMP-2 | SAM | 11/19/25 17:22 | | Jaswal | OK |
| 55 | Q3662-05 | B1-0.0-1.0-20251117 | SAM | 11/19/25 17:27 | | Jaswal | OK |
| 56 | Q3667-02 | RIGHT-SIDE-WALL | SAM | 11/19/25 17:31 | | Jaswal | OK |
| 57 | Q3667-04 | LEFT-SIDE-WALL | SAM | 11/19/25 17:35 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137974

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 11/20/2025 12:52:04 PM |
| Supervise By | mohan | Supervise On | 11/20/2025 1:09:45 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP87637,MP87643,MP87641,MP87640,MP87639,MP87638 |
| ICV Standard | MP87644,MP87643 |
| CCV Standard | MP87647 |
| ICSA Standard | MP87645,MP87646 |
| CRI Standard | MP87643 |
| LCS Standard | |
| Chk Standard | MP87668,MP87648,MP87651,MP87649,MP87650 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 58 | Q3667-06 | LEFT-SIDE-FLOOR | SAM | 11/19/25 17:40 | | Jaswal | OK |
| 59 | Q3667-08 | ELEVATED-DIVIDE | SAM | 11/19/25 17:45 | | Jaswal | OK |
| 60 | PB170600TB | PB170600TB | MB | 11/19/25 17:49 | | Jaswal | OK |
| 61 | Q3667-03DL | LEFT-SIDE-WALLDL | SAM | 11/19/25 17:54 | NOT USE | Jaswal | Not Ok |
| 62 | CCV05 | CCV05 | CCV | 11/19/25 18:07 | | Jaswal | OK |
| 63 | CCB05 | CCB05 | CCB | 11/19/25 18:11 | | Jaswal | OK |
| 64 | Q3667-07DL | ELEVATED-DIVIDEDL | SAM | 11/19/25 18:15 | NOT USE | Jaswal | Not Ok |
| 65 | Q3669-01A | EO-01-11182025A | PS | 11/19/25 18:20 | 0.1ML M6008,M6017-10ML SAMPLE | Jaswal | OK |
| 66 | CCV06 | CCV06 | CCV | 11/19/25 18:35 | | Jaswal | OK |
| 67 | CCB06 | CCB06 | CCB | 11/19/25 18:42 | | Jaswal | OK |

Alliance TECHNICAL GROUP

# Water Metals Preparation Sheet

PB170626

**SOP ID :** M3010A-Digestion-17

**SDG No :** N/A

**Matrix :** WATER

**Pippete ID:** ICP A

**Balance ID :** N/A

**Filter paper ID :** N/A

**pH Strip ID :** M6069

**Hood ID :** #3

**Block ID:** 1. HOT BLOCK #1 2. N/A

**Start Digest Date:** 11/19/2025 **Time :** 12:30 **Temp :** 96 °C

**End Digest Date:** 11/19/2025 **Time :** ~~15:32~~ 13:32 **Temp :** 96 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** MET-DIG. #1

**Dig Technician Signature:** SKG

**Supervisor Signature:**

**Temp :** 1. 96°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LFS-1 | 0.25 | M6209 |
| LFS-2 | 0.25 | M6201 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Conc. HNO3 | 3.00 | M6187 |
| 1:1 HCL | 5.00 | MP87148 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

HOT BLOCK#1 CELL#50 96 C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/19/25 ~~13:35~~ 13:35 | SKS met dig | SA Metals Lab |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**Water Metals Preparation Sheet**

**PB170626**

| Lab Sample ID | Client Sample ID | pH | Initial Vol (ml) | Final Vol (ml) | Color Before | Color After | Clarity Before | Clarity After | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| PB170600TB | PB170600TB | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 1 |
| PB170626BL | PBW626 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 2 |
| PB170626BS | LCS626 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | M6209,M6201 | 3 |
| Q3583-07 | CHRT27080 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 4 |
| Q3652-04MS | TP-1MS | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | M6209,M6201 | 7 |
| Q3652-04MSD | TP-1MSD | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | M6209,M6201 | 8 |
| Q3652-04DUP | TP-1DUP | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 6 |
| Q3652-04 | TP-1 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 5 |
| Q3657-01 | SEWAREN-CONCRETE | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 9 |
| Q3659-01 | TANK-1-COMP-1 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 10 |
| Q3659-02 | TANK-1-COMP-2 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 11 |
| Q3662-05 | B3-0.0-1.0-20251117 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 12 |
| Q3667-02 | RIGHT-SIDE-WALL | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 13 |
| Q3667-04 | LEFT-SIDE-WALL | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 14 |
| Q3667-06 | LEFT-SIDE-FLOOR | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 15 |
| Q3667-08 | ELEVATED-DIVIDE | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 16 |

A
B
C
D
E
F
G
H
I
J

Alliance TECHNICAL GROUP

**Water Mercury Preparation Sheet**

PB170634

**SOP ID :** M7470A-Mercury-20

**SDG No :** N/A

**Start Digest Date:** 11/19/2025 **Time :** 12:30 **Temp :** 96 °C

**Matrix :** WATER

**End Digest Date:** 11/19/2025 **Time :** ~~14:32~~ 13:32 **Temp :** 96 °C

**Pippete ID:** HG A

**Digestion tube ID:** M5595

**Balance ID :** N/A

**Block thermometer ID:** MET-DIG. #3

**Filter paper ID :** N/A

**Dig Technician Signature:** mh

**pH Strip ID :** M6069

**Supervisor Signature:** mh

**Hood ID :** #1

**Temp :** 1. 96°C 2. N/A

**Block ID:** 1. HOT BLOCK #3 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| ICV | 30mL | MP88020 |
| CCV | 30mL | MP88022 |
| CRA | 30mL | MP88024 |
| Blank Spike | 0.48mL | MP88013 |
| Matrix Spike | 0.48mL | MP88013 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| HNO3/H2SO4(1:2) | 2.25mL | MP87633 |
| KMnO4 (5%) | 4.5mL | MP87634 |
| K2S2O8 (5%) | 2.4mL | MP87635 |
| Hydroxylamine HCL (12%) | 1.8mL | MP87636 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| 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 | MP88014 |
| 0.05 ppb | S0.05 | N/A | N/A |
| 0.2 ppb | S0.2 | 30mL | MP88015 |
| 2.5 ppb | S2.5 | 30mL | MP88016 |
| 5.0 ppb | S5.0 | 30mL | MP88017 |
| 7.5 ppb | S7.5 | 30mL | MP88018 |
| 10.0 ppb | S10.0 | 30mL | MP88019 |
| ICV | ICV | 30mL | MP88020 |
| ICB | ICB | 30mL | MP88021 |
| CCV | CCV | 30mL | MP88022 |
| CCB | CCB | 30mL | MP88023 |
| CRI | CRI | 30mL | MP88024 |
| CHK STD | CHK STD | 30mL | MP88025 |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/19/25 ~~15:32~~ 14:00 | BM metlab | mh met lab |
| 13:45 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

# Water Mercury Preparation Sheet

**PB170634**

| Lab Sample ID | Client Sample ID | Initial Vol (ml) | Final Vol (ml) | pH | Comment | Prep Pos |
|---|---|---|---|---|---|---|
| PB170600TB | PB170600TB | 3 | 30 | <2 | N/A | 7 |
| PB170634BL | PBW634 | 30 | 30 | <2 | N/A | 8 |
| PB170634BS | LCS634 | 30 | 30 | <2 | MP88013 | 9 |
| Q3652-04MS | TP-1MS | 3 | 30 | <2 | MP88013 | 12 |
| Q3652-04MSD | TP-1MSD | 3 | 30 | <2 | MP88013 | 13 |
| Q3652-04DUP | TP-1DUP | 3 | 30 | <2 | N/A | 11 |
| Q3652-04 | TP-1 | 3 | 30 | <2 | N/A | 10 |
| Q3657-01 | SEWAREN-CONCRETE | 3 | 30 | <2 | N/A | 14 |
| Q3659-01 | TANK-1-COMP-1 | 3 | 30 | <2 | N/A | 15 |
| Q3659-02 | TANK-1-COMP-2 | 3 | 30 | <2 | N/A | 16 |
| Q3662-05 | B1-0.0-1.0-20251117 | 3 | 30 | <2 | N/A | 17 |

A B C D E F G H I J

Alliance TECHNICAL GROUP

# TCLP EXTRACTION LOGPAGE

PB170600

**SOP ID :** M1311-TCLP-16

**SDG No :** N/A

**Weigh By :** JP

**Balance ID :** WC SC-7

**pH Meter ID :** WC PH METER-1

**Extraction By :** JP

**Filter By :** JP

**Pippete ID :** WC

**Tumbler ID :** T-1

**TCLP Filter ID :** 40819719

**Start Prep Date :** 11/18/2025 **Time :** 16:00

**End Prep Date :** 11/19/2025 **Time :** 10:25

**Combination Ratio :** 20

**ZHE Cleaning Batch :** N/A 18

**Initial Room Temperature:** 24 °C

**Final Room Temperature:** 22 °C

**TCLP Technician Signature :** 18

**Supervisor By :** 12

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE U | Lot Number |
|---|---|---|
| TCLP-FLUID-1 | N/A | WP114526 |
| HCL-TCLP,1N | N/A | WP114527 |
| HNO3-TCLP,1N | N/A | WP114528 |
| pH Strips | N/A | W1931,W1934,W3171,W3172 |
| pH Strips | W1940,W1941,W1942 | W3166,W1938,W1939, |
| 1 Liter Amber | N/A | 90924-08 |
| 120ml Plastic bottle | N/A | 2738 |
| 1:1 HNO3 | N/A | MP86978 |

**Extraction Conformance/Non-Conformance Comments:**

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 checked,30 rpm. q3652-04 is used FOR MS-MSD.

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/19/25 11:30 | 18 120 Room | SPS. RJ/EXT |
| | Preparation Group | Analysis Group Metals |

Alliance TECHNICAL GROUP

## TCLP EXTRACTION LOGPAGE

PB170600

| Sample ID | ClientID | TCLP Vessel ID | Sample Wt (g) | Volume Extraction Fluid #1 (mL) | Multi phasic | Phase Miscible | Phases Combined | Final Leachate PH | Metals Leachate Adj. PH | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| PB170600TB | LEB600 | 11 | N/A | 2000 | N/A | N/A | N/A | 4.94 | 1.0 | T-1 |
| Q3583-07 | CHRT27080 | 01 | 100.02 | 2000 | N/A | N/A | N/A | 5.6 | 1.0 | T-1 |
| Q3652-04 | TP-1 | 02 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.5 | T-1 |
| Q3657-01 | SEWAREN-CONCRETE | 03 | 100.04 | 2000 | N/A | N/A | N/A | 10.5 | 1.0 | T-1 |
| Q3659-01 | TANK-1-COMP-1 | 04 | 100.02 | 2000 | N/A | N/A | N/A | 5.6 | 1.0 | T-1 |
| Q3659-02 | TANK-1-COMP-2 | 05 | 100.03 | 2000 | N/A | N/A | N/A | 5.5 | 1.5 | T-1 |
| Q3662-05 | B3-0.0-1.0-20251117 | 06 | 100.04 | 2000 | N/A | N/A | N/A | 3.5 | 1.0 | T-1 |
| Q3667-02 | RIGHT-SIDE-WALL | 07 | 100.03 | 2000 | N/A | N/A | N/A | 10.0 | 1.5 | T-1 |
| Q3667-04 | LEFT-SIDE-WALL | 08 | 100.02 | 2000 | N/A | N/A | N/A | 11.0 | 1.0 | T-1 |
| Q3667-06 | LEFT-SIDE-FLOOR | 09 | 100.01 | 2000 | N/A | N/A | N/A | 11.0 | 1.5 | T-1 |
| Q3667-08 | ELEVATED-DIVIDE | 10 | 100.02 | 2000 | N/A | N/A | N/A | 10.5 | 1.0 | T-1 |

| SampleID | ClientID | Sample Weight (g) | Filter Weight (g) | Filtrate (mL) | Filter + Solid (After 100°C) | % solids | % Dry Solids |
|---|---|---|---|---|---|---|---|
| PB170600TB | LEB600 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3583-07 | CHRT27080 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q3652-04 | TP-1 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q3657-01 | SEWAREN-CONCRETE | N/A | N/A | N/A | N/A | 100 | N/A |
| Q3659-01 | TANK-1-COMP-1 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q3659-02 | TANK-1-COMP-2 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q3662-05 | B3-0.0-1.0-20251117 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q3667-02 | RIGHT-SIDE-WALL | N/A | N/A | N/A | N/A | 100 | N/A |
| Q3667-04 | LEFT-SIDE-WALL | N/A | N/A | N/A | N/A | 100 | N/A |
| Q3667-06 | LEFT-SIDE-FLOOR | N/A | N/A | N/A | N/A | 100 | N/A |
| Q3667-08 | ELEVATED-DIVIDE | N/A | N/A | N/A | N/A | 100 | N/A |

Alliance TECHNICAL GROUP

**TCLP Fluid Determination**

PB170600

**Hot Block ID :** WC S-1 / WC S-2

**Thermometer ID :** FLASHPOINT

| SampleID | ClientID | Sample Weight (g) | Volume DI Water (mL) | PH after 5 min stir | PH after 10 min stir | Extraction Fluid 1 or 2 | pH Extraction Fluid |
|---|---|---|---|---|---|---|---|
| PB170600TB | LEB600 | N/A | N/A | N/A | N/A | #1 | 4.93 |
| Q3583-07 | CHRT27080 | 5.02 | 96.5 | 7.0 | 2.5 | #1 | 4.93 |
| Q3652-04 | TP-1 | 5.01 | 96.5 | 6.6 | 2.0 | #1 | 4.93 |
| Q3657-01 | SEWAREN-CONCRETE | 5.03 | 96.5 | 11.0 | 4.0 | #1 | 4.93 |
| Q3659-01 | TANK-1-COMP-1 | 5.04 | 96.5 | 7.0 | 2.5 | #1 | 4.93 |
| Q3659-02 | TANK-1-COMP-2 | 5.05 | 96.5 | 6.6 | 2.0 | #1 | 4.93 |
| Q3662-05 | B3-0.0-1.0-20251117 | 5.02 | 96.5 | 6.0 | 2.0 | #1 | 4.93 |
| Q3667-02 | RIGHT-SIDE-WALL | 5.03 | 96.5 | 10.5 | 4.0 | #1 | 4.93 |
| Q3667-04 | LEFT-SIDE-WALL | 5.02 | 96.5 | 11.5 | 4.5 | #1 | 4.93 |
| Q3667-06 | LEFT-SIDE-FLOOR | 5.03 | 96.5 | 11.5 | 4.5 | #1 | 4.93 |
| Q3667-08 | ELEVATED-DIVIDE | 5.02 | 96.5 | 11.0 | 4.5 | #1 | 4.93 |

# SAMPLE DATA

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 09:30 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B3-0.0-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-02 | Matrix: | SOIL |
| | | % Solid: | 84.7 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.15 | J | 1 | 0.048 | 0.28 | mg/Kg | 11/19/25 08:20 | 11/19/25 10:44 | 9012B |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 11:05 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B1-0.0-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-04 | Matrix: | SOIL |
| | | % Solid: | 88.1 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.15 | J | 1 | 0.047 | 0.28 | mg/Kg | 11/19/25 08:20 | 11/19/25 11:46 | 9012B |
| Hexavalent Chromium | 0.63 | | 1 | 0.079 | 0.45 | mg/Kg | 11/19/25 09:00 | 11/19/25 13:22 | 7196A |
| Paint Filter | 1.00 | U | 1 | 1.00 | 1.00 | ml/100gm | | 11/19/25 08:45 | 9095B |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | HDR, Inc. | Date Collected: | 11/17/25 11:05 |
| Project: | PVWC Linear Construction | Date Received: | 11/18/25 |
| Client Sample ID: | B1-0.0-1.0-20251117 | SDG No.: | Q3662 |
| Lab Sample ID: | Q3662-05 | Matrix: | SOIL |
| | | % Solid: | 100 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Corrosivity | 6.08 | H | 1 | 0 | 0 | pH | | 11/20/25 08:30 | 9045D |
| Ignitability | NO | | 1 | 0 | 0 | oC | | 11/19/25 09:35 | 1030 |
| Reactive Cyanide | 0.0083 | U | 1 | 0.0083 | 0.049 | mg/Kg | 11/20/25 12:15 | 11/20/25 15:09 | 9012B |
| Reactive Sulfide | 3.18 | J | 1 | 0.20 | 10.0 | mg/Kg | 11/20/25 12:00 | 11/20/25 16:23 | 9034 |

Comments: pH result reported at temperature 20.8 °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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Fax : 908 789 8922

# Initial and Continuing Calibration Verification

**Client:** HDR, Inc. **SDG No.:** Q3662

**Project:** PVWC Linear Construction **RunNo.:** LB137963

| Analyte | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|
| **Sample ID: ICV** | | | | | | |
| Hexavalent Chromium | mg/L | 0.492 | 0.5 | 98 | 90-110 | 11/19/2025 |
| **Sample ID: CCV1** | | | | | | |
| Hexavalent Chromium | mg/L | 0.491 | 0.5 | 98 | 90-110 | 11/19/2025 |
| **Sample ID: CCV2** | | | | | | |
| Hexavalent Chromium | mg/L | 0.491 | 0.5 | 98 | 90-110 | 11/19/2025 |
| **Sample ID: CCV3** | | | | | | |
| Hexavalent Chromium | mg/L | 0.495 | 0.5 | 99 | 90-110 | 11/19/2025 |

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# Initial and Continuing Calibration Verification

**Client:** HDR, Inc. **SDG No.:** Q3662

**Project:** PVWC Linear Construction **RunNo.:** LB137965

| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID:** | **ICV1** | | | | | | |
| Cyanide | | mg/L | 0.095 | 0.099 | 96 | 90-110 | 11/19/2025 |
| **Sample ID:** | **CCV1** | | | | | | |
| Cyanide | | mg/L | 0.25 | 0.25 | 100 | 90-110 | 11/19/2025 |
| **Sample ID:** | **CCV2** | | | | | | |
| Cyanide | | mg/L | 0.24 | 0.25 | 96 | 90-110 | 11/19/2025 |
| **Sample ID:** | **CCV3** | | | | | | |
| Cyanide | | mg/L | 0.25 | 0.25 | 100 | 90-110 | 11/19/2025 |

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# Initial and Continuing Calibration Verification

**Client:** HDR, Inc. **SDG No.:** Q3662

**Project:** PVWC Linear Construction **RunNo.:** LB137975

| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID:** | **ICV** | | | | | | |
| Corrosivity | | pH | 7.00 | 7 | 100 | 90-110 | 11/20/2025 |
| **Sample ID:** | **CCV1** | | | | | | |
| Corrosivity | | pH | 2.02 | 2.00 | 101 | 90-110 | 11/20/2025 |
| **Sample ID:** | **CCV2** | | | | | | |
| Corrosivity | | pH | 12.02 | 12.00 | 100 | 90-110 | 11/20/2025 |

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# Initial and Continuing Calibration Verification

**Client:** HDR, Inc. **SDG No.:** Q3662

**Project:** PVWC Linear Construction **RunNo.:** LB137996

| Analyte | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|
| **Sample ID: ICV1** | | | | | | |
| Reactive Cyanide | mg/L | 0.096 | 0.099 | 97 | 85-115 | 11/20/2025 |
| **Sample ID: CCV1** | | | | | | |
| Reactive Cyanide | mg/L | 0.24 | 0.25 | 96 | 90-110 | 11/20/2025 |
| **Sample ID: CCV2** | | | | | | |
| Reactive Cyanide | mg/L | 0.24 | 0.25 | 96 | 90-110 | 11/20/2025 |

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# Initial and Continuing Calibration Blank Summary

**Client:** HDR, Inc. **SDG No.:** Q3662

**Project:** PVWC Linear Construction **RunNo.:** LB137963

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID: ICB** | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0029 | 0.01 | 11/19/2025 |
| **Sample ID: CCB1** | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0029 | 0.01 | 11/19/2025 |
| **Sample ID: CCB2** | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0029 | 0.01 | 11/19/2025 |
| **Sample ID: CCB3** | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0029 | 0.01 | 11/19/2025 |

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# Initial and Continuing Calibration Blank Summary

**Client:** HDR, Inc. **SDG No.:** Q3662

**Project:** PVWC Linear Construction **RunNo.:** LB137965

| Analyte | | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| Sample ID: | ICB1 | | | | | | | |
| Cyanide | | mg/L | < 0.0025 | 0.0025 | U | 0.00096 | 0.005 | 11/19/2025 |
| Sample ID: | CCB1 | | | | | | | |
| Cyanide | | mg/L | < 0.0025 | 0.0025 | U | 0.00096 | 0.005 | 11/19/2025 |
| Sample ID: | CCB2 | | | | | | | |
| Cyanide | | mg/L | < 0.0025 | 0.0025 | U | 0.00096 | 0.005 | 11/19/2025 |
| Sample ID: | CCB3 | | | | | | | |
| Cyanide | | mg/L | < 0.0025 | 0.0025 | U | 0.00096 | 0.005 | 11/19/2025 |

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# Initial and Continuing Calibration Blank Summary

**Client:** HDR, Inc. **SDG No.:** Q3662

**Project:** PVWC Linear Construction **RunNo.:** LB137996

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID: ICB1** | | | | | | | |
| Reactive Cyanide | mg/L | 0.0011 | 0.0025 | J | 0.00096 | 0.005 | 11/20/2025 |
| **Sample ID: CCB1** | | | | | | | |
| Reactive Cyanide | mg/L | < 0.0025 | 0.0025 | U | 0.00096 | 0.005 | 11/20/2025 |
| **Sample ID: CCB2** | | | | | | | |
| Reactive Cyanide | mg/L | < 0.0025 | 0.0025 | U | 0.00096 | 0.005 | 11/20/2025 |

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# Preparation Blank Summary

**Client:** HDR, Inc. **SDG No.:** Q3662

**Project:** PVWC Linear Construction

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID: PB170592BL** | | | | | | | |
| Hexavalent Chromium | mg/Kg | < 0.2000 | 0.2000 | U | 0.07 | 0.4 | 11/19/2025 |
| **Sample ID: PB170616BL** | | | | | | | |
| Cyanide | mg/Kg | < 0.1250 | 0.1250 | U | 0.042 | 0.25 | 11/19/2025 |
| **Sample ID: PB170641BL** | | | | | | | |
| Reactive Cyanide | mg/Kg | < 0.0250 | 0.0250 | U | 0.0084 | 0.05 | 11/20/2025 |
| **Sample ID: PB170643BL** | | | | | | | |
| Reactive Sulfide | mg/Kg | < 5.0000 | 5.0000 | U | 0.201 | 10 | 11/20/2025 |

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# Matrix Spike Summary

**Client:** HDR, Inc.
**SDG No.:** Q3662
**Project:** PVWC Linear Construction
**Sample ID:** Q3652-01
**Client ID:** TP-1MS
**Percent Solids for Spike Sample:** 86.5

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | mg/Kg | 75-125 | 1430 | | 0.080 | U | 1480 | 40 | 97 | | 11/19/2025 |

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# Matrix Spike Summary

**Client:** HDR, Inc.
**SDG No.:** Q3662
**Project:** PVWC Linear Construction
**Sample ID:** Q3652-01
**Client ID:** TP-1MS
**Percent Solids for Spike Sample:** 86.5

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | mg/Kg | 85-115 | 43.5 | | 0.080 | U | 46.2 | 2 | 94 | | 11/19/2025 |

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# Matrix Spike Summary

**Client:** HDR, Inc.
**SDG No.:** Q3662
**Project:** PVWC Linear Construction
**Sample ID:** Q3652-01
**Client ID:** TP-1MS
**Percent Solids for Spike Sample:** 86.5

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | mg/Kg | 75-125 | 39.4 | | 0.080 | U | 46.2 | 2 | 85 | | 11/19/2025 |

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# Matrix Spike Summary

**Client:** HDR, Inc.
**SDG No.:** Q3662
**Project:** PVWC Linear Construction
**Sample ID:** Q3662-04
**Client ID:** B1-0.0-1.0-20251117MS
**Percent Solids for Spike Sample:** 88.1

| 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 | 2.00 | | 0.15 | J | 2.2 | 1 | 84 | | 11/19/2025 |

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# Matrix Spike Summary

**Client:** HDR, Inc.
**SDG No.:** Q3662
**Project:** PVWC Linear Construction
**Sample ID:** Q3662-04
**Client ID:** B1-0.0-1.0-20251117MSD
**Percent Solids for Spike Sample:** 88.1

| 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 | 2.00 | | 0.15 | J | 2.2 | 1 | 84 | | 11/19/2025 |

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# Duplicate Sample Summary

**Client:** HDR, Inc.
**Project:** PVWC Linear Construction
**Client ID:** TP-1DUP
**SDG No.:** Q3662
**Sample ID:** Q3652-01
**Percent Solids for Spike Sample:** 86.5

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | mg/Kg | +/-20 | 0.080 | U | 0.080 | U | 1 | 0 | | 11/19/2025 |

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# Duplicate Sample Summary

**Client:** HDR, Inc.
**SDG No.:** Q3662
**Project:** PVWC Linear Construction
**Sample ID:** Q3662-04
**Client ID:** B1-0.0-1.0-20251117DUP
**Percent Solids for Spike Sample:** 88.1

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Paint Filter | ml/100gm | +/-20 | 1.00 | U | 1.00 | U | 1 | 0 | | 11/19/2025 |
| Cyanide | mg/Kg | +/-20 | 0.15 | J | 0.15 | J | 1 | 0 | | 11/19/2025 |

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# Duplicate Sample Summary

**Client:** HDR, Inc.
**SDG No.:** Q3662
**Project:** PVWC Linear Construction
**Sample ID:** Q3662-04
**Client ID:** B1-0.0-1.0-20251117MSD
**Percent Solids for Spike Sample:** 88.1

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | mg/Kg | +/-20 | 2.00 | | 2.00 | | 1 | 0 | | 11/19/2025 |

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# Duplicate Sample Summary

**Client:** HDR, Inc.
**SDG No.:** Q3662
**Project:** PVWC Linear Construction
**Sample ID:** Q3662-05
**Client ID:** B1-0.0-1.0-20251117DUP
**Percent Solids for Spike Sample:** 100

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Ignitability | oC | +/-20 | NO | | NO | | 1 | 0 | | 11/19/2025 |
| Corrosivity | pH | +/-20 | 6.08 | | 6.10 | | 1 | 0.33 | | 11/20/2025 |
| Reactive Sulfide | mg/Kg | +/-20 | 3.18 | J | 3.18 | J | 1 | 0 | | 11/20/2025 |
| Reactive Cyanide | mg/Kg | +/-20 | 0.0083 | U | 0.0091 | J | 1 | 200 | * | 11/20/2025 |

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# Laboratory Control Sample Summary

**Client:** HDR, Inc. **SDG No.:** Q3662

**Project:** PVWC Linear Construction **Run No.:** LB137963

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID PB170592BS** | | | | | | | | |
| Hexavalent Chromium | mg/Kg | 20 | 19.5 | | 98 | 1 | 84-110 | 11/19/2025 |

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Fax : 908 789 8922

# Laboratory Control Sample Summary

**Client:** HDR, Inc. **SDG No.:** Q3662

**Project:** PVWC Linear Construction **Run No.:** LB137965

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID** PB170616BS | | | | | | | | |
| Cyanide | mg/Kg | 5 | 4.80 | | 96 | 1 | 85-115 | 11/19/2025 |

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**Instrument ID:** FILTER/GRAVIMETRIC

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137960

| | | | |
|---|---|---|---|
| Review By | Eman | Review On | 11/19/2025 3:15:20 PM |
| Supervise By | Iwona | Supervise On | 11/20/2025 10:41:01 AM |
| SubDirectory | LB137960 | Test | Paint Filter |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | N/A |
| ICV Standard | N/A |
| CCV Standard | N/A |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | N/A |
| Chk Standard | N/A |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | Q3662-04 | B1-0.0-1.0-20251117 | SAM | 11/19/25 08:45 | | Eman | OK |
| 2 | Q3662-04DUP | B1-0.0-1.0-20251117D | DUP | 11/19/25 08:52 | | Eman | OK |
| 3 | Q3664-01 | ARS20-0001 | SAM | 11/19/25 08:59 | | Eman | OK |
| 4 | Q3664-03 | ARS20-0013 | SAM | 11/19/25 09:07 | | Eman | OK |
| 5 | Q3664-05 | 291399 | SAM | 11/19/25 09:15 | | Eman | OK |
| 6 | Q3669-01 | EO-01-11182025 | SAM | 11/19/25 09:22 | | Eman | OK |

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**Instrument ID:** FLAME

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137961

| | | | |
|---|---|---|---|
| Review By | Eman | Review On | 11/19/2025 10:30:20 AM |
| Supervise By | Iwona | Supervise On | 11/19/2025 10:30:27 AM |
| SubDirectory | LB137961 | Test | Ignitability |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | N/A |
| ICV Standard | N/A |
| CCV Standard | N/A |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | N/A |
| Chk Standard | N/A |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | Q3662-05 | B1-0.0-1.0-20251117 | SAM | 11/19/25 09:35 | | Eman | OK |
| 2 | Q3662-05DUP | B1-0.0-1.0-20251117 | DUP | 11/19/25 09:42 | | Eman | OK |
| 3 | Q3666-01 | BUR-25-0103 | SAM | 11/19/25 09:49 | | Eman | OK |

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**Instrument ID:** SPECTROPHOTOMETER-1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137963

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 11/19/2025 1:35:22 PM |
| Supervise By | Iwona | Supervise On | 11/19/2025 1:35:34 PM |
| SubDirectory | LB137963 | 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 | WP115688,WP115340,WP115339,WP114310 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | CAL1 | CAL1 | CAL | 11/19/25 13:10 | | rubina | OK |
| 2 | CAL2 | CAL2 | CAL | 11/19/25 13:10 | | rubina | OK |
| 3 | CAL3 | CAL3 | CAL | 11/19/25 13:11 | | rubina | OK |
| 4 | CAL4 | CAL4 | CAL | 11/19/25 13:11 | | rubina | OK |
| 5 | CAL5 | CAL5 | CAL | 11/19/25 13:12 | | rubina | OK |
| 6 | CAL6 | CAL6 | CAL | 11/19/25 13:12 | | rubina | OK |
| 7 | CAL7 | CAL7 | CAL | 11/19/25 13:13 | | rubina | OK |
| 8 | ICV | ICV | ICV | 11/19/25 13:13 | | rubina | OK |
| 9 | ICB | ICB | ICB | 11/19/25 13:14 | | rubina | OK |
| 10 | CCV1 | CCV1 | CCV | 11/19/25 13:14 | | rubina | OK |
| 11 | CCB1 | CCB1 | CCB | 11/19/25 13:15 | | rubina | OK |
| 12 | RL Check | RL Check | RL | 11/19/25 13:15 | | rubina | OK |
| 13 | PB170592BL | PB170592BL | MB | 11/19/25 13:16 | | rubina | OK |
| 14 | PB170592BS | PB170592BS | LCS | 11/19/25 13:16 | | rubina | OK |
| 15 | Q3652-01 | TP-1 | SAM | 11/19/25 13:17 | | rubina | OK |
| 16 | Q3652-01DUP | TP-1DUP | DUP | 11/19/25 13:17 | | rubina | OK |
| 17 | Q3652-01MSPre | TP-1MS | MS | 11/19/25 13:18 | | rubina | OK |
| 18 | Q3652-01MS2Ins | TP-1MS | MS | 11/19/25 13:18 | | rubina | OK |

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**Instrument ID:** SPECTROPHOTOMETER-1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137963

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 11/19/2025 1:35:22 PM |
| Supervise By | Iwona | Supervise On | 11/19/2025 1:35:34 PM |
| SubDirectory | LB137963 | 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 | WP115688,WP115340,WP115339,WP114310 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3652-01MS3Post | TP-1MS | MS | 11/19/25 13:19 | | rubina | OK |
| 20 | Q3656-01 | T2-GRAVEL | SAM | 11/19/25 13:19 | | rubina | OK |
| 21 | Q3658-01 | NB-07-111725 | SAM | 11/19/25 13:20 | | rubina | OK |
| 22 | Q3659-01 | TANK-1-COMP-1 | SAM | 11/19/25 13:20 | | rubina | OK |
| 23 | CCV2 | CCV2 | CCV | 11/19/25 13:21 | | rubina | OK |
| 24 | CCB2 | CCB2 | CCB | 11/19/25 13:21 | | rubina | OK |
| 25 | Q3659-02 | TANK-1-COMP-2 | SAM | 11/19/25 13:22 | | rubina | OK |
| 26 | Q3662-04 | B1-0.0-1.0-20251117 | SAM | 11/19/25 13:22 | | rubina | OK |
| 27 | Q3664-01 | ARS20-0001 | SAM | 11/19/25 13:23 | | rubina | OK |
| 28 | Q3664-03 | ARS20-0013 | SAM | 11/19/25 13:23 | | rubina | OK |
| 29 | Q3664-05 | 291399 | SAM | 11/19/25 13:24 | | rubina | OK |
| 30 | Q3669-01 | EO-01-11182025 | SAM | 11/19/25 13:24 | | rubina | OK |
| 31 | CCV3 | CCV3 | CCV | 11/19/25 13:25 | | rubina | OK |
| 32 | CCB3 | CCB3 | CCB | 11/19/25 13:25 | | rubina | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137965

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 11/19/2025 3:49:02 PM |
| Supervise By | Iwona | Supervise On | 11/19/2025 3:49:19 PM |
| SubDirectory | LB137965 | Test | Cyanide |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP115736,WP115737,WP115738,WP115739,WP115740,WP115741,WP115742 |
| ICV Standard | W3012 |
| CCV Standard | WP115737 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP113838 |
| Chk Standard | WP115157,WP114324,WP115743 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | 0.0PPBCN | 0.0PPBCN | CAL1 | 11/19/25 09:35 | | rubina | OK |
| 2 | 5.0PPBCN | 5.0PPBCN | CAL2 | 11/19/25 09:35 | | rubina | OK |
| 3 | 10PPBCN | 10PPBCN | CAL3 | 11/19/25 09:35 | | rubina | OK |
| 4 | 50PPBCN | 50PPBCN | CAL4 | 11/19/25 09:35 | | rubina | OK |
| 5 | 100PPBCN | 100PPBCN | CAL5 | 11/19/25 09:35 | | rubina | OK |
| 6 | 250PPBCN | 250PPBCN | CAL6 | 11/19/25 09:35 | | rubina | OK |
| 7 | 500PPBCN | 500PPBCN | CAL7 | 11/19/25 09:35 | | rubina | OK |
| 8 | ICV1 | ICV1 | ICV | 11/19/25 10:36 | | rubina | OK |
| 9 | ICB1 | ICB1 | ICB | 11/19/25 10:36 | | rubina | OK |
| 10 | CCV1 | CCV1 | CCV | 11/19/25 10:36 | | rubina | OK |
| 11 | CCB1 | CCB1 | CCB | 11/19/25 10:36 | | rubina | OK |
| 12 | PB170616BL | PB170616BL | MB | 11/19/25 10:36 | | rubina | OK |
| 13 | PB170616BS | PB170616BS | LCS | 11/19/25 10:36 | | rubina | OK |
| 14 | LOWPB170616 | LOWPB170616 | SAM | 11/19/25 10:44 | | rubina | OK |
| 15 | HIGHPB170616 | HIGHPB170616 | SAM | 11/19/25 10:44 | | rubina | OK |
| 16 | Q3662-02 | B3-0.0-1.0-20251117 | SAM | 11/19/25 10:44 | | rubina | OK |
| 17 | Q3664-01 | ARS20-0001 | SAM | 11/19/25 10:51 | | rubina | OK |
| 18 | Q3664-03 | ARS20-0013 | SAM | 11/19/25 10:59 | | rubina | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137965

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 11/19/2025 3:49:02 PM |
| Supervise By | Iwona | Supervise On | 11/19/2025 3:49:19 PM |
| SubDirectory | LB137965 | Test | Cyanide |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP115736,WP115737,WP115738,WP115739,WP115740,WP115741,WP115742 |
| ICV Standard | W3012 |
| CCV Standard | WP115737 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP113838 |
| Chk Standard | WP115157,WP114324,WP115743 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3664-05 | 291399 | SAM | 11/19/25 10:59 | | rubina | OK |
| 20 | Q3669-01 | EO-01-11182025 | SAM | 11/19/25 10:59 | | rubina | OK |
| 21 | CCV2 | CCV2 | CCV | 11/19/25 10:59 | | rubina | OK |
| 22 | CCB2 | CCB2 | CCB | 11/19/25 11:03 | | rubina | OK |
| 23 | Q3662-04 | B1-0.0-1.0-20251117 | SAM | 11/19/25 11:46 | | rubina | OK |
| 24 | Q3662-04DUP | B1-0.0-1.0-20251117D | DUP | 11/19/25 11:46 | | rubina | OK |
| 25 | Q3662-04MS | B1-0.0-1.0-20251117M | MS | 11/19/25 11:46 | | rubina | OK |
| 26 | Q3662-04MSD | B1-0.0-1.0-20251117M | MSD | 11/19/25 11:46 | | rubina | OK |
| 27 | CCV3 | CCV3 | CCV | 11/19/25 11:46 | | rubina | OK |
| 28 | CCB3 | CCB3 | CCB | 11/19/25 11:46 | | rubina | OK |

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**Instrument ID:** WC PH METER-1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137975

| | | | |
|---|---|---|---|
| Review By | jignesh | Review On | 11/20/2025 9:17:16 AM |
| Supervise By | Iwona | Supervise On | 11/20/2025 10:17:12 AM |
| SubDirectory | LB137975 | Test | Corrosivity |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | N/A |
| ICV Standard | N/A |
| CCV Standard | N/A |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | N/A |
| Chk Standard | W3178,W3093,W3191,W3217,W3161,W3200 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | CAL1 | CAL1 | CAL | 11/20/25 08:15 | | Jignesh | OK |
| 2 | CAL2 | CAL2 | CAL | 11/20/25 08:16 | | Jignesh | OK |
| 3 | CAL3 | CAL3 | CAL | 11/20/25 08:17 | | Jignesh | OK |
| 4 | ICV | ICV | ICV | 11/20/25 08:20 | | Jignesh | OK |
| 5 | CCV1 | CCV1 | CCV | 11/20/25 08:22 | | Jignesh | OK |
| 6 | Q3662-05 | B1-0.0-1.0-20251117 | SAM | 11/20/25 08:30 | | Jignesh | OK |
| 7 | Q3662-05DUP | B1-0.0-1.0-20251117D | DUP | 11/20/25 08:36 | | Jignesh | OK |
| 8 | Q3678-02 | COMPOSITE-STONE | SAM | 11/20/25 08:48 | | Jignesh | OK |
| 9 | CCV2 | CCV2 | CCV | 11/20/25 08:50 | | Jignesh | OK |

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**Instrument ID:** TITRAMETRIC

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137993

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 11/20/2025 4:42:35 PM |
| Supervise By | Iwona | Supervise On | 11/20/2025 4:56:10 PM |
| SubDirectory | LB137993 | Test | Reactive Sulfide |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | N/A |
| ICV Standard | N/A |
| CCV Standard | N/A |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | N/A |
| Chk Standard | W3248,W3213,W3149 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | PB170643BL | PB170643BL | MB | 11/20/25 16:20 | | rubina | OK |
| 2 | Q3662-05 | B1-0.0-1.0-20251117 | SAM | 11/20/25 16:23 | | rubina | OK |
| 3 | Q3662-05DUP | B1-0.0-1.0-20251117D | DUP | 11/20/25 16:26 | | rubina | OK |
| 4 | Q3678-02 | COMPOSITE-STONE | SAM | 11/20/25 16:29 | | rubina | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137996

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 11/20/2025 5:26:09 PM |
| Supervise By | Iwona | Supervise On | 11/21/2025 2:16:19 PM |
| SubDirectory | LB137996 | Test | Reactive Cyanide |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP115751,WP115752,WP115753,WP115754,WP115755,WP115756,WP115757 |
| ICV Standard | WP115758 |
| CCV Standard | WP115752 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | N/A |
| Chk Standard | WP115157,WP114324,WP115759 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | 0.0PPBCN | 0.0PPBCN | CAL1 | 11/20/25 09:29 | | rubina | OK |
| 2 | 5.0PPBCN | 5.0PPBCN | CAL2 | 11/20/25 09:29 | | rubina | OK |
| 3 | 10PPBCN | 10PPBCN | CAL3 | 11/20/25 09:29 | | rubina | OK |
| 4 | 50PPBCN | 50PPBCN | CAL4 | 11/20/25 09:29 | | rubina | OK |
| 5 | 100PPBCN | 100PPBCN | CAL5 | 11/20/25 09:29 | | rubina | OK |
| 6 | 250PPBCN | 250PPBCN | CAL6 | 11/20/25 09:29 | | rubina | OK |
| 7 | 500PPBCN | 500PPBCN | CAL7 | 11/20/25 09:29 | | rubina | OK |
| 8 | ICV1 | ICV1 | ICV | 11/20/25 15:01 | | rubina | OK |
| 9 | ICB1 | ICB1 | ICB | 11/20/25 15:01 | | rubina | OK |
| 10 | CCV1 | CCV1 | CCV | 11/20/25 15:01 | | rubina | OK |
| 11 | CCB1 | CCB1 | CCB | 11/20/25 15:01 | | rubina | OK |
| 12 | PB170641BL | PB170641BL | MB | 11/20/25 15:01 | | rubina | OK |
| 13 | Q3662-05 | B1-0.0-1.0-20251117 | SAM | 11/20/25 15:09 | | rubina | OK |
| 14 | Q3662-05DUP | B1-0.0-1.0-20251117D | DUP | 11/20/25 15:09 | | rubina | OK |
| 15 | Q3678-02 | COMPOSITE-STONE | SAM | 11/20/25 15:09 | | rubina | OK |
| 16 | PB170642BL | PB170642BL | MB | 11/20/25 15:09 | | rubina | OK |
| 17 | Q3682-01 | 3456 | SAM | 11/20/25 15:09 | | rubina | OK |
| 18 | Q3682-01DUP | 3456DUP | DUP | 11/20/25 15:09 | | rubina | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB137996

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 11/20/2025 5:26:09 PM |
| Supervise By | Iwona | Supervise On | 11/21/2025 2:16:19 PM |
| SubDirectory | LB137996 | Test | Reactive Cyanide |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP115751,WP115752,WP115753,WP115754,WP115755,WP115756,WP115757 |
| ICV Standard | WP115758 |
| CCV Standard | WP115752 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | N/A |
| Chk Standard | WP115157,WP114324,WP115759 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3685-03 | 4206 | SAM | 11/20/25 15:16 | | rubina | OK |
| 20 | CCV2 | CCV2 | CCV | 11/20/25 15:16 | | rubina | OK |
| 21 | CCB2 | CCB2 | CCB | 11/20/25 15:20 | | rubina | OK |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q3662 | **OrderDate:** | 11/18/2025 11:14:00 AM |
| **Client:** | HDR, Inc. | **Project:** | PVWC Linear Construction |
| **Contact:** | Andrew Wadden | **Location:** | D41,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q3662-02** | **B3-0.0-1.0-20251117** | **SOIL** | | | **11/17/25 09:30** | | | **11/18/25** |
| | | | Cyanide | 9012B | | 11/19/25 | 11/19/25 10:44 | |
| **Q3662-04** | **B1-0.0-1.0-20251117** | **SOIL** | | | **11/17/25 11:05** | | | **11/18/25** |
| | | | Cyanide | 9012B | | 11/19/25 | 11/19/25 11:46 | |
| | | | Hexavalent Chromium | 7196A | | 11/19/25 | 11/19/25 13:22 | |
| | | | Paint Filter | 9095B | | | 11/19/25 08:45 | |
| **Q3662-05** | **B1-0.0-1.0-20251117** | **SOIL** | | | **11/17/25 11:05** | | | **11/18/25** |
| | | | Corrosivity | 9045D | | | 11/20/25 08:30 | |
| | | | Ignitability | 1030 | | | 11/19/25 09:35 | |
| | | | Reactive Cyanide | 9012B | | 11/20/25 | 11/20/25 15:09 | |
| | | | Reactive Sulfide | 9034 | | 11/20/25 | 11/20/25 16:23 | |

Alliance TECHNICAL GROUP

# Soil/Sludge Hexavalent Chromium Preparation Sheet

PB170592

**SOP ID :** M3060A,7196A-Hex.Chromium-27

**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:** 11/19/2025 **Time :** 09:00 **Temp :** 90 °C

**End Digest Date:** 11/19/2025 **Time :** 10:00 **Temp :** 93 °C

11 batch
11/19/2025 10:25 90 è
11/19/2025 11:25 95 è ] IR

**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 | WP113880 |
| INSOLUBLE SPIKE | 0.02GM | W2202 |
| POST-DIGESTION SPIKE | 2.0ML | WP113880 |
| LCSS | 1.0ML | WP113881 |
| PBS003 | 50.ML | W3112 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| MAGNESIUM CHLORIDE | 0.4GM | W3152 |
| PHOSPHATE BUFFER | 5.0ML | WP115410 |
| HEX. DIGESTION SOLN. | 50.0ML | WP115338 |
| 5M HNO3 | 5-7ML | WP115339 |
| 5N H2SO4 | 1-3ML | WP115340 |
| N/A | N/A | N/A |
| 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 | WP115734 |
| CAL3 | CAL3 | 0.5ML | WP115734 |
| CAL4 | CAL4 | 1ML | WP115734 |
| CAL5 | CAL5 | 0.2ML | WP113880 |
| CAL6 | CAL6 | 1ML | WP113880 |
| CAL7 | CAL7 | 2.0ML | WP113880 |
| ICV | ICV | 1ML | WP113881 |
| ICB | ICB | 2.5ML | W3112 |
| CCV | CCV | 1ML | WP113880 |
| CCB | CCB | 2.5ML | W3112 |

11/19/2025 IR

**Extraction Conformance/Non-Conformance Comments:**

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

**PB170592**

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|
| PB170592BL | PBS592 | 2.50 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| PB170592BS | LCS592 | 2.50 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3652-01DUP | TP-1DUP | 2.53 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3652-01MSPre | TP-1MSPRE | 2.53 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3652-01MS2Ins | TP-1MS2INS | 2.55 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3652-01MS3Post | TP-1MS3POST | 2.52 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3652-01 | TP-1 | 2.52 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3656-01 | T2-GRAVEL | 2.51 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3658-01 | NB-07-111725 | 2.54 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3659-01 | TANK-1-COMP-1 | 2.56 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3659-02 | TANK-1-COMP-2 | 2.51 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3662-04 | B3-0.0-1.0-20251117 | 2.52 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3664-01 | ARS20-0001 | 2.54 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3664-03 | ARS20-0013 | 2.57 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3664-05 | 291399 | 2.54 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3669-01 | EO-01-11182025 | 2.58 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |

Alliance TECHNICAL GROUP

# Soil/Sludge Cyanide Preparation Sheet

PB170616

**SOP ID :** M9012B-Total, Amenable and Reactive Cyanide-21

**SDG No :** N/A

**Start Digest Date:** 11/19/2025 **Time :** 08:20 **Temp :** 123 °C

**Matrix :** SOIL

**End Digest Date:** 11/19/2025 **Time :** 09:50 **Temp :** 128 °C

**Pippete ID :** WC

**Balance ID :** WC SC-7

**Hood ID :** HOOD#1

**Digestion tube ID :** M5595

**Block Thermometer ID :** WC CYANIDE

**Block ID :** MC-1,MC-2

**Filter paper ID :** N/A

**Prep Technician Signature:** JP

**Weigh By :** JP

**pH Meter ID :** N/A

**Supervisor Signature:** JP

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LCSS | 1.0ML | WP113838 |
| MS/MSD SPIKE SOL. | 0.40ML | WP113837 |
| PBS003 | 50.0ML | 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 | WP113836 |
| 50% v/v H2SO4 | 5.0ML | WP115334 |
| 51% w/v MgCL2 | 2.0ML | WP115335 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| 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 | W3012 |
| 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 | WP113837 |
| LOWSTD | LOWSTD | 0.1ML | WP113837 |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/19/2025 10:05 | JP / WC | RM/WB |
| | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

## Soil/Sludge Cyanide Preparation Sheet

**PB170616**

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|
| PB170616BL | PBS616 | 1.00 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| PB170616BS | LCS616 | 1.00 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3662-02 | B3-0.0-1.0-20251117 | 1.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3662-04 | B3-0.0-1.0-20251117 | 1.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3662-04DUP | B3-0.0-1.0-20251117DUP | 1.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3662-04MS | B3-0.0-1.0-20251117MS | 1.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3662-04MSD | B3-0.0-1.0-20251117MSD | 1.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3664-01 | ARS20-0001 | 1.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3664-03 | ARS20-0013 | 1.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3664-05 | 291399 | 1.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3669-01 | EO-01-11182025 | 1.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |

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Alliance TECHNICAL GROUP

# Soil/Sludge Reactive Cyanide Preparation Sheet

PB170641

**SOP ID :** M9012B-Total, Amenable and Reactive Cyanide-21

**SDG No :** N/A

**Matrix :** SOIL

**Pippete ID :** N/A

**Balance ID :** WC SC-7

**Hood ID :** HOOD#1

**Block ID :** MC-1

**Weigh By :** RM

**Start Digest Date:** 11/20/2025 **Time :** 12:15 **Temp :** N/A

**End Digest Date:** 11/20/2025 **Time :** 13:45 **Temp :** N/A

**Digestion tube ID :** M5595

**Filter paper ID :** N/A

**pH Meter ID :** N/A

**Block Thermometer ID :** N/A

**Prep Technician Signature:** RM

**Supervisor Signature:** 12

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| PBS003 | 50.0ML | W3112 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| 0.25N NaOH | 50.0ML | WP113836 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| LAB SAMPLE ID | CLIENT SAMPLE ID | | Comment |
|---|---|---|---|
| | | | |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/20/2025 14:00 | RM (WC) | RM (WC) |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

## Soil/Sludge Reactive Cyanide Preparation Sheet

**PB170641**

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|
| PB170641BL | PBS641 | 5.00 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3662-05DUP | B1-0.0-1.0-20251117DUP | 5.07 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3662-05 | B1-0.0-1.0-20251117 | 5.07 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3678-02 | COMPOSITE-STONE | 5.05 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |

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Alliance TECHNICAL GROUP

# Soil/Sludge Reactive Sulfide Preparation Sheet

PB170643

**SOP ID :** M9030B-Sulfide-13

**SDG No :** N/A

**Start Digest Date:** 11/20/2025 **Time :** 12:00 **Temp :** N/A

**Matrix :** SOIL

**End Digest Date:** 11/20/2025 **Time :** 13:30 **Temp :** N/A

**Pippete ID :** WC

**Balance ID :** WC SC-7

**Hood ID :** HOOD#2 **Digestion tube ID :** M5595 **Block Thermometer ID :** N/A

**Block ID :** WC-DIST-BLOCK-1 **Filter paper ID :** N/A **Prep Technician Signature:** RM

**Weigh By :** IZ **pH Meter ID :** N/A **Supervisor Signature:** IZ

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| PBS003 | 50.0ML | W3112 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| 0.5M ZINC ACETATE | 5.0ML | WP114311 |
| FORMALDEHYDE | 2.0ML | W3220 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

11/20/2025 RM

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| | | |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

## Soil/Sludge Reactive Sulfide Preparation Sheet

**PB170643**

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|
| PB170643BL | PBS643 | 5.00 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3662-05DUP | B1-0.0-1.0-20251117DUP | 5.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3662-05 | B1-0.0-1.0-20251117 | 5.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q3678-02 | COMPOSITE-STONE | 5.06 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |

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# SHIPPING DOCUMENTS

# Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. ~~Q3466~~ Q3662
COC Number 2044566

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: HDR
ADDRESS: 50 Tice Blvd., Suite 210
CITY Woodcliff Lake STATE: NJ ZIP: 07677
ATTENTION: Andrew Wadden
PHONE: 201-312-0752 FAX: —

## CLIENT PROJECT INFORMATION

PROJECT NAME: PVWC
PROJECT NO.: 10367568 LOCATION: Passaic, NJ
PROJECT MANAGER: Andrew Wadden
e-mail: Andrew.Wadden@HDRinc.com
PHONE: 201-312-0752 FAX:

## CLIENT BILLING INFORMATION

BILL TO: HDR PO#: —
ADDRESS: 50 Tice Blvd., Suite 210
CITY Woodcliff Lake STATE: NJ ZIP: 07677
ATTENTION: Andrew Wadden PHONE: 201-312-0752

## DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): STADARD TAT DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

## DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT _____
- ☐ Level 4 (QC + Full Raw Data)
- ☑ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____

## ANALYSIS

1. TCL VOCs
2. TCL SVOCs
3. Pesticides, Cyanide
4. PCBs + TAL metals
5. TCLP for metals, Hexavalent chromium, mercury, ignitability, EPH
6. 2,3,7,8 Tetrachlorodibenzo-p-dioxin
7. Reactive cyanide, reactive sulfide, corrosivity
8. PAHs + PCBs
9.

## PRESERVATIVES

## COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | B3-0.5-1.0-20251117 | S | | ✓ | 11/17/25 | 0925 | 4 | ✓ | | | | | | | | |
| 2. | B3-0.0-1.0-20251117 | S | | ✓ | 11/17/25 | 0930 | 3 | | ✓ | ✓ | ✓ | | | | | |
| 3. | B1-0.5-1.0-20251117 | S | | ✓ | 11/17/25 | 1055 | 4 | ✓ | | | | | | | | |
| 4. | B1-0.0-1.0-20251117 | S | | ✓ | 11/17/25 | 1105 | 6 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5. | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | |

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: | DATE/TIME: |
|---|---|---|---|
| 1. | 11/17/25 1515 | 1. | 11/18/25 0957 |
| 2. | | 2. | |
| 3. | 11/18/25 1110 | 3. | |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.4 °C
Comments: _____

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other _____

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Laboratory Certification

| Certified By | License No. |
|---|---|
| | |
| Connecticut | PH-0830 |
| | |
| DOD ELAP (ANAB) | L2219 |
| | |
| Maine | 2024021 |
| | |
| Maryland | 296 |
| | |
| New Hampshire | 255425 |
| | |
| New Jersey | 20012 |
| | |
| New York | 11376 |
| | |
| Pennsylvania | 68-00548 |
| | |
| Soil Permit | 525-24-234-08441 |
| | |
| Texas | TX-C25-00189 |
| | |
| Virginia | 460312 |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q3662 HDRI08
**Client Name :** HDR, Inc.
**Client Contact :** Andrew Wadden
**Invoice Name :** HDR, Inc.
**Invoice Contact :** Andrew Wadden

**Order Date :** 11/18/2025 11:14:00 AM
**Project Name :** PVWC Linear Construction
**Receive DateTime :** 11/18/2025 ~~12:00:00~~ 11:10 AM
**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 |
|---|---|---|---|---|---|---|---|---|---|
| Q3662-01 | B3-0.5-1.0-20251117 | Solid | 11/17/2025 | 09:25 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q3662-03 | B1 ~~B3~~-0.5-1.0-20251117 | Solid | 11/17/2025 | 10:55 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |

**Relinguished By :**
**Date / Time :** 11/18/25 1245

**Received By :**
**Date / Time :** 11/18/25 12:45
**Storage Area :** VOA Refridgerator Room