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

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **B-187-SB01** | | | | | | | | |
| Q2177-02 | B-187-SB01 | SOIL | Dodecane | * | 6.40 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Decane | * | 11.5 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Cyclohexane, butyl- | * | 4.40 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Naphthalene, decahydro-2-metl | * | 6.50 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Cyclohexane, hexyl- | * | 4.40 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Undecane, 2,6-dimethyl- | * | 5.70 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Nonane, 4-methyl- | * | 4.50 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Sulfurous acid, decyl 2-ethylhe | * | 6.80 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | unknown14.950 | * | 4.70 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Carbonic acid, decyl prop-1-en- | * | 6.70 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | 61.6 | | | | |
| | | | **Total Concentration:** | | 61.6 | | | | |
| **Client ID:** | **B-187-SB02** | | | | | | | | |
| Q2177-04 | B-187-SB02 | SOIL | Acetone | | 66.4 | | 5.90 | 31.2 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Carbon Disulfide | | 3.20 | J | 1.30 | 6.20 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | 2-Butanone | | 11.1 | J | 8.20 | 31.2 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Toluene | | 1.50 | J | 0.97 | 6.20 | ug/Kg |
| | | | **Total Voc :** | | 82.2 | | | | |
| Q2177-04 | B-187-SB02 | SOIL | .alpha.-Pinene | * | 62.5 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Benzene, 1-methyl-3-(1-methyl | * | 62.5 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | 125 | | | | |
| | | | **Total Concentration:** | | 207 | | | | |
| **Client ID:** | **B-202-SB01** | | | | | | | | |
| Q2177-06 | B-202-SB01 | SOIL | Carbon Disulfide | | 1.50 | J | 1.00 | 4.70 | ug/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Methylene Chloride | | 4.30 | J | 3.30 | 9.50 | ug/Kg |
| | | | **Total Voc :** | | 5.80 | | | | |
| | | | **Total Concentration:** | | 5.80 | | | | |
| **Client ID:** | **EB05312025** | | | | | | | | |
| Q2177-08 | EB05312025 | Water | Acetone | | 21.4 | | 1.50 | 5.00 | ug/L |
| Q2177-08 | EB05312025 | Water | 2-Butanone | | 2.40 | J | 0.98 | 5.00 | ug/L |
| | | | **Total Voc :** | | 23.8 | | | | |
| Q2177-08 | EB05312025 | Water | Hexadecane, 2,6,11,15-tetramet | * | 6.50 | J | 0 | 0 | ug/L |
| | | | **Total Tics :** | | 6.50 | | | | |
| | | | **Total Concentration:** | | 30.3 | | | | |

# SAMPLE DATA

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB00 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 89.2 |
| Sample Wt/Vol: | 2.56 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022534.D | 1 | | 06/03/25 19:42 | VY060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 2.50 | U | 2.50 | 10.9 | ug/Kg |
| 74-87-3 | Chloromethane | 2.50 | U | 2.50 | 10.9 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 1.70 | U | 1.70 | 10.9 | ug/Kg |
| 74-83-9 | Bromomethane | 2.30 | U | 2.30 | 10.9 | ug/Kg |
| 75-00-3 | Chloroethane | 2.80 | U | 2.80 | 10.9 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 2.60 | U | 2.60 | 10.9 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.30 | U | 2.30 | 10.9 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.20 | U | 2.20 | 10.9 | ug/Kg |
| 67-64-1 | Acetone | 10.4 | U | 10.4 | 54.7 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 2.30 | U | 2.30 | 10.9 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 1.60 | U | 1.60 | 10.9 | ug/Kg |
| 79-20-9 | Methyl Acetate | 3.40 | U | 3.40 | 10.9 | ug/Kg |
| 75-09-2 | Methylene Chloride | 7.70 | U | 7.70 | 21.9 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 1.90 | U | 1.90 | 10.9 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 1.80 | U | 1.80 | 10.9 | ug/Kg |
| 110-82-7 | Cyclohexane | 1.70 | U | 1.70 | 10.9 | ug/Kg |
| 78-93-3 | 2-Butanone | 14.3 | U | 14.3 | 54.7 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.10 | U | 2.10 | 10.9 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 1.60 | U | 1.60 | 10.9 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.50 | U | 2.50 | 10.9 | ug/Kg |
| 67-66-3 | Chloroform | 1.80 | U | 1.80 | 10.9 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.00 | U | 2.00 | 10.9 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.00 | U | 2.00 | 10.9 | ug/Kg |
| 71-43-2 | Benzene | 1.70 | U | 1.70 | 10.9 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 1.70 | U | 1.70 | 10.9 | ug/Kg |
| 79-01-6 | Trichloroethene | 1.80 | U | 1.80 | 10.9 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.00 | U | 2.00 | 10.9 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 1.70 | U | 1.70 | 10.9 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 7.80 | U | 7.80 | 54.7 | ug/Kg |
| 108-88-3 | Toluene | 1.70 | U | 1.70 | 10.9 | ug/Kg |

Raw Data: **VY022534.D**

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# Report of Analysis

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|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB00 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 89.2 |
| Sample Wt/Vol: | 2.56 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022534.D | 1 | | 06/03/25 19:42 | VY060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 1.40 | U | 1.40 | 10.9 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.40 | U | 1.40 | 10.9 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.00 | U | 2.00 | 10.9 | ug/Kg |
| 591-78-6 | 2-Hexanone | 8.10 | U | 8.10 | 54.7 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 1.90 | U | 1.90 | 10.9 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 1.90 | U | 1.90 | 10.9 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.30 | U | 2.30 | 10.9 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.00 | U | 2.00 | 10.9 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 1.50 | U | 1.50 | 10.9 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 2.70 | U | 2.70 | 21.9 | ug/Kg |
| 95-47-6 | o-Xylene | 1.80 | U | 1.80 | 10.9 | ug/Kg |
| 100-42-5 | Styrene | 1.60 | U | 1.60 | 10.9 | ug/Kg |
| 75-25-2 | Bromoform | 1.90 | U | 1.90 | 10.9 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 1.70 | U | 1.70 | 10.9 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.60 | U | 2.60 | 10.9 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 3.70 | U | 3.70 | 10.9 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 3.40 | U | 3.40 | 10.9 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 3.20 | U | 3.20 | 10.9 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 4.00 | U | 4.00 | 10.9 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 6.50 | U | 6.50 | 10.9 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 7.00 | U | 7.00 | 10.9 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 48.3 | | 70 (63) - 130 (155) | 97% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.7 | | 70 (70) - 130 (134) | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.7 | | 70 (74) - 130 (123) | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 30.8 | * | 70 (17) - 130 (146) | 62% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 250000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 447000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 314000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 80900 | 13.346 | | | |

Raw Data: **VY022534.D**

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# Report of Analysis

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| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB00 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 89.2 |
| Sample Wt/Vol: | 2.56 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022534.D | 1 | | 06/03/25 19:42 | VY060325 |

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

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

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

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# Report of Analysis

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|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 84.2 |
| Sample Wt/Vol: | 7.42 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022554.D | 1 | | 06/04/25 16:34 | VY060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.91 | U | 0.91 | 4.00 | ug/Kg |
| 74-87-3 | Chloromethane | 0.91 | U | 0.91 | 4.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| 74-83-9 | Bromomethane | 0.86 | U | 0.86 | 4.00 | ug/Kg |
| 75-00-3 | Chloroethane | 1.00 | U | 1.00 | 4.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.97 | U | 0.97 | 4.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.85 | U | 0.85 | 4.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.80 | U | 0.80 | 4.00 | ug/Kg |
| 67-64-1 | Acetone | 3.80 | U | 3.80 | 20.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 0.85 | U | 0.85 | 4.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.58 | U | 0.58 | 4.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.20 | U | 1.20 | 4.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.80 | U | 2.80 | 8.00 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.69 | U | 0.69 | 4.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.64 | U | 0.64 | 4.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 5.20 | U | 5.20 | 20.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.78 | U | 0.78 | 4.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.60 | U | 0.60 | 4.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 0.92 | U | 0.92 | 4.00 | ug/Kg |
| 67-66-3 | Chloroform | 0.67 | U | 0.67 | 4.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.74 | U | 0.74 | 4.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.73 | U | 0.73 | 4.00 | ug/Kg |
| 71-43-2 | Benzene | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.63 | U | 0.63 | 4.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.65 | U | 0.65 | 4.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.73 | U | 0.73 | 4.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.62 | U | 0.62 | 4.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 2.90 | U | 2.90 | 20.0 | ug/Kg |
| 108-88-3 | Toluene | 0.62 | U | 0.62 | 4.00 | ug/Kg |

Raw Data: **VY022554.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 84.2 |
| Sample Wt/Vol: | 7.42 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022554.D | 1 | | 06/04/25 16:34 | VY060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.52 | U | 0.52 | 4.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U | 0.50 | 4.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.74 | U | 0.74 | 4.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.00 | U | 3.00 | 20.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.70 | U | 0.70 | 4.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.70 | U | 0.70 | 4.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.84 | U | 0.84 | 4.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.73 | U | 0.73 | 4.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.54 | U | 0.54 | 4.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 0.99 | U | 0.99 | 8.00 | ug/Kg |
| 95-47-6 | o-Xylene | 0.66 | U | 0.66 | 4.00 | ug/Kg |
| 100-42-5 | Styrene | 0.57 | U | 0.57 | 4.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.69 | U | 0.69 | 4.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.62 | U | 0.62 | 4.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.97 | U | 0.97 | 4.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.40 | U | 1.40 | 4.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.20 | U | 1.20 | 4.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.20 | U | 1.20 | 4.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.50 | U | 1.50 | 4.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.40 | U | 2.40 | 4.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2.50 | U | 2.50 | 4.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.2 | | 70 (63) - 130 (155) | 104% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.2 | | 70 (70) - 130 (134) | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.8 | | 70 (74) - 130 (123) | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 42.8 | | 70 (17) - 130 (146) | 86% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 261000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 475000 | 8.609 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 387000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 145000 | 13.346 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |

Raw Data: **VY022554.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 84.2 |
| Sample Wt/Vol: | 7.42 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022554.D | 1 | | 06/04/25 16:34 | VY060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 017301-94-9 | Nonane, 4-methyl- | 4.50 | J | | 12.3 | ug/Kg |
| 000124-18-5 | Decane | 11.5 | J | | 12.7 | ug/Kg |
| 001678-93-9 | Cyclohexane, butyl- | 4.40 | J | | 13.2 | ug/Kg |
| 1000382-90-5 | Carbonic acid, decyl prop-1-en-2-y | 6.70 | J | | 13.7 | ug/Kg |
| 002958-76-1 | Naphthalene, decahydro-2-methyl- | 6.50 | J | | 14.2 | ug/Kg |
| 000112-40-3 | Dodecane | 6.40 | J | | 14.5 | ug/Kg |
| 017301-23-4 | Undecane, 2,6-dimethyl- | 5.70 | J | | 14.6 | ug/Kg |
| 1000351-74-9 | unknown14.950 | 4.70 | J | | 14.9 | ug/Kg |
| 004292-75-5 | Cyclohexane, hexyl- | 4.40 | J | | 15.1 | ug/Kg |
| 1000309-19-3 | Sulfurous acid, decyl 2-ethylhexyl | 6.80 | J | | 15.1 | 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: **VY022555.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-04 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 62.8 |
| Sample Wt/Vol: | 6.37 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022555.D | 1 | | 06/04/25 16:58 | VY060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.40 | U | 1.40 | 6.20 | ug/Kg |
| 74-87-3 | Chloromethane | 1.40 | U | 1.40 | 6.20 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.99 | U | 0.99 | 6.20 | ug/Kg |
| 74-83-9 | Bromomethane | 1.30 | U | 1.30 | 6.20 | ug/Kg |
| 75-00-3 | Chloroethane | 1.60 | U | 1.60 | 6.20 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.50 | U | 1.50 | 6.20 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.30 | U | 1.30 | 6.20 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 1.20 | U | 1.20 | 6.20 | ug/Kg |
| 67-64-1 | Acetone | 66.4 | | 5.90 | 31.2 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 3.20 | J | 1.30 | 6.20 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.91 | U | 0.91 | 6.20 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.90 | U | 1.90 | 6.20 | ug/Kg |
| 75-09-2 | Methylene Chloride | 4.40 | U | 4.40 | 12.5 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 1.10 | U | 1.10 | 6.20 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 1.00 | U | 1.00 | 6.20 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.99 | U | 0.99 | 6.20 | ug/Kg |
| 78-93-3 | 2-Butanone | 11.1 | J | 8.20 | 31.2 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.20 | U | 1.20 | 6.20 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.94 | U | 0.94 | 6.20 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.40 | U | 1.40 | 6.20 | ug/Kg |
| 67-66-3 | Chloroform | 1.00 | U | 1.00 | 6.20 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.20 | U | 1.20 | 6.20 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.10 | U | 1.10 | 6.20 | ug/Kg |
| 71-43-2 | Benzene | 0.99 | U | 0.99 | 6.20 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.99 | U | 0.99 | 6.20 | ug/Kg |
| 79-01-6 | Trichloroethene | 1.00 | U | 1.00 | 6.20 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 1.10 | U | 1.10 | 6.20 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.97 | U | 0.97 | 6.20 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 4.50 | U | 4.50 | 31.2 | ug/Kg |
| 108-88-3 | Toluene | 1.50 | J | 0.97 | 6.20 | ug/Kg |

Raw Data: **VY022555.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-04 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 62.8 |
| Sample Wt/Vol: | 6.37 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022555.D | 1 | | 06/04/25 16:58 | VY060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.81 | U | 0.81 | 6.20 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.77 | U | 0.77 | 6.20 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 1.10 | U | 1.10 | 6.20 | ug/Kg |
| 591-78-6 | 2-Hexanone | 4.60 | U | 4.60 | 31.2 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 1.10 | U | 1.10 | 6.20 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 1.10 | U | 1.10 | 6.20 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.30 | U | 1.30 | 6.20 | ug/Kg |
| 108-90-7 | Chlorobenzene | 1.10 | U | 1.10 | 6.20 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.84 | U | 0.84 | 6.20 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.50 | U | 1.50 | 12.5 | ug/Kg |
| 95-47-6 | o-Xylene | 1.00 | U | 1.00 | 6.20 | ug/Kg |
| 100-42-5 | Styrene | 0.89 | U | 0.89 | 6.20 | ug/Kg |
| 75-25-2 | Bromoform | 1.10 | U | 1.10 | 6.20 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.97 | U | 0.97 | 6.20 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.50 | U | 1.50 | 6.20 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.10 | U | 2.10 | 6.20 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.90 | U | 1.90 | 6.20 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.80 | U | 1.80 | 6.20 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.30 | U | 2.30 | 6.20 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.70 | U | 3.70 | 6.20 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.00 | U | 4.00 | 6.20 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.1 | | 70 (63) - 130 (155) | 104% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.1 | | 70 (70) - 130 (134) | 104% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.7 | | 70 (74) - 130 (123) | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 33.1 | * | 70 (17) - 130 (146) | 66% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 281000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 498000 | 8.609 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 360000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 103000 | 13.34 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |

Raw Data: **VY022555.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-04 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 62.8 |
| Sample Wt/Vol: | 6.37 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022555.D | 1 | | 06/04/25 16:58 | VY060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 000080-56-8 | .alpha.-Pinene | 62.5 | J | | 12.3 | ug/Kg |
| 000535-77-3 | Benzene, 1-methyl-3-(1-methylethyl | 62.5 | J | | 13.3 | 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: **VY022568.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-06 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85.4 |
| Sample Wt/Vol: | 6.18 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022568.D | 1 | | 06/05/25 12:45 | VY060525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.10 | U | 1.10 | 4.70 | ug/Kg |
| 74-87-3 | Chloromethane | 1.10 | U | 1.10 | 4.70 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.75 | U | 0.75 | 4.70 | ug/Kg |
| 74-83-9 | Bromomethane | 1.00 | U | 1.00 | 4.70 | ug/Kg |
| 75-00-3 | Chloroethane | 1.20 | U | 1.20 | 4.70 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.10 | U | 1.10 | 4.70 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.00 | U | 1.00 | 4.70 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.95 | U | 0.95 | 4.70 | ug/Kg |
| 67-64-1 | Acetone | 4.50 | U | 4.50 | 23.7 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.50 | J | 1.00 | 4.70 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.69 | U | 0.69 | 4.70 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.50 | U | 1.50 | 4.70 | ug/Kg |
| 75-09-2 | Methylene Chloride | 4.30 | J | 3.30 | 9.50 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.81 | U | 0.81 | 4.70 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.76 | U | 0.76 | 4.70 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.75 | U | 0.75 | 4.70 | ug/Kg |
| 78-93-3 | 2-Butanone | 6.20 | U | 6.20 | 23.7 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.92 | U | 0.92 | 4.70 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.71 | U | 0.71 | 4.70 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.10 | U | 1.10 | 4.70 | ug/Kg |
| 67-66-3 | Chloroform | 0.80 | U | 0.80 | 4.70 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.88 | U | 0.88 | 4.70 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.86 | U | 0.86 | 4.70 | ug/Kg |
| 71-43-2 | Benzene | 0.75 | U | 0.75 | 4.70 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.75 | U | 0.75 | 4.70 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.77 | U | 0.77 | 4.70 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.86 | U | 0.86 | 4.70 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.74 | U | 0.74 | 4.70 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.40 | U | 3.40 | 23.7 | ug/Kg |
| 108-88-3 | Toluene | 0.74 | U | 0.74 | 4.70 | ug/Kg |

Raw Data: **VY022568.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-06 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85.4 |
| Sample Wt/Vol: | 6.18 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022568.D | 1 | | 06/05/25 12:45 | VY060525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.62 | U | 0.62 | 4.70 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.59 | U | 0.59 | 4.70 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.87 | U | 0.87 | 4.70 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.50 | U | 3.50 | 23.7 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.82 | U | 0.82 | 4.70 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.83 | U | 0.83 | 4.70 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.99 | U | 0.99 | 4.70 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.86 | U | 0.86 | 4.70 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.63 | U | 0.63 | 4.70 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.20 | U | 1.20 | 9.50 | ug/Kg |
| 95-47-6 | o-Xylene | 0.78 | U | 0.78 | 4.70 | ug/Kg |
| 100-42-5 | Styrene | 0.67 | U | 0.67 | 4.70 | ug/Kg |
| 75-25-2 | Bromoform | 0.81 | U | 0.81 | 4.70 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.74 | U | 0.74 | 4.70 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.10 | U | 1.10 | 4.70 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.60 | U | 1.60 | 4.70 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.50 | U | 1.50 | 4.70 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.40 | U | 1.40 | 4.70 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.70 | U | 1.70 | 4.70 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.80 | U | 2.80 | 4.70 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.00 | U | 3.00 | 4.70 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.9 | | 70 (63) - 130 (155) | 100% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.5 | | 70 (70) - 130 (134) | 99% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.8 | | 70 (74) - 130 (123) | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 41.7 | | 70 (17) - 130 (146) | 83% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 271000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 499000 | 8.609 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 399000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 145000 | 13.34 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-06 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85.4 |
| Sample Wt/Vol: | 6.18 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022568.D | 1 | | 06/05/25 12:45 | VY060525 |

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

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

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

Raw Data: **VX046454.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | EB05312025 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-08 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046454.D | 1 | | 06/02/25 19:06 | VX060225 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 21.4 | | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | UQ | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 2.40 | J | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

Raw Data: **VX046454.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | EB05312025 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-08 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046454.D | 1 | | 06/02/25 19:06 | VX060225 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 51.9 | | 70 (74) - 130 (125) | 104% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.1 | | 70 (75) - 130 (124) | 98% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.3 | | 70 (86) - 130 (113) | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 53.1 | | 70 (77) - 130 (121) | 106% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 65900 | 5.544 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 131000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 125000 | 10.055 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 55900 | 12.018 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |

Raw Data: **VX046454.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | EB05312025 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-08 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046454.D | 1 | | 06/02/25 19:06 | VX060225 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 000504-44-9 | Hexadecane, 2,6,11,15-tetramethyl- | 6.50 | J | | 13.5 | ug/L |

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

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

Raw Data: **VX046444.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | TB05312025 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-09 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046444.D | 1 | | 06/02/25 14:47 | VX060225 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | UQ | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

Raw Data: **VX046444.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | TB05312025 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-09 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046444.D | 1 | | 06/02/25 14:47 | VX060225 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.7 | | 70 (74) - 130 (125) | 111% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.7 | | 70 (75) - 130 (124) | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.1 | | 70 (86) - 130 (113) | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.4 | | 70 (77) - 130 (121) | 103% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 60000 | 5.544 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 122000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 117000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 49200 | 12.018 | | | |

Raw Data: **VX046444.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | TB05312025 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-09 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046444.D | 1 | | 06/02/25 14:47 | VX060225 |

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

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

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

# QC SUMMARY

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

# Surrogate Summary

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|
| Q2177-01 | B-187-SB00 | 1,2-Dichloroethane-d4 | 50 | 48.3 | 97 | | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 51.7 | 103 | | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 48.7 | 97 | | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 30.8 | 62 | * | 70 (17) | 130 (146) |
| Q2177-02 | B-187-SB01 | 1,2-Dichloroethane-d4 | 50 | 52.2 | 104 | | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 51.2 | 102 | | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 49.8 | 100 | | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 42.8 | 86 | | 70 (17) | 130 (146) |
| Q2177-04 | B-187-SB02 | 1,2-Dichloroethane-d4 | 50 | 52.0 | 104 | | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 52.1 | 104 | | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 49.7 | 99 | | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 33.1 | 66 | * | 70 (17) | 130 (146) |
| Q2177-06 | B-202-SB01 | 1,2-Dichloroethane-d4 | 50 | 49.9 | 100 | | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 49.5 | 99 | | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 49.8 | 100 | | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 41.7 | 83 | | 70 (17) | 130 (146) |
| VY0603SBL01 | VY0603SBL01 | 1,2-Dichloroethane-d4 | 50 | 53.5 | 107 | | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 50.9 | 102 | | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 49.9 | 100 | | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 42.0 | 84 | | 70 (17) | 130 (146) |
| VY0603SBS01 | VY0603SBS01 | 1,2-Dichloroethane-d4 | 50 | 50.0 | 100 | | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 51.0 | 102 | | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 51.5 | 103 | | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 49.0 | 98 | | 70 (17) | 130 (146) |
| VY0603SBSD01 | VY0603SBSD01 | 1,2-Dichloroethane-d4 | 50 | 50.7 | 101 | | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 51.5 | 103 | | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 52.6 | 105 | | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 50.1 | 100 | | 70 (17) | 130 (146) |
| VY0604SBL01 | VY0604SBL01 | 1,2-Dichloroethane-d4 | 50 | 52.7 | 105 | | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 50.7 | 101 | | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 49.3 | 99 | | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 41.7 | 83 | | 70 (17) | 130 (146) |
| VY0604SBS01 | VY0604SBS01 | 1,2-Dichloroethane-d4 | 50 | 53.9 | 108 | | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 53.3 | 107 | | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 53.4 | 107 | | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 52.0 | 104 | | 70 (17) | 130 (146) |
| VY0605SBL01 | VY0605SBL01 | 1,2-Dichloroethane-d4 | 50 | 51.7 | 103 | | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 50.3 | 101 | | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 49.6 | 99 | | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 40.7 | 81 | | 70 (17) | 130 (146) |
| VY0605SBS01 | VY0605SBS01 | 1,2-Dichloroethane-d4 | 50 | 49.6 | 99 | | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 50.3 | 101 | | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 50.5 | 101 | | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 48.3 | 97 | | 70 (17) | 130 (146) |

( ) = LABORATORY INHOUSE LIMIT

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

# Surrogate Summary

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| Q2177-08 | EB05312025 | 1,2-Dichloroethane-d4 | 50 | 51.9 | 104 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 49.1 | 98 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 50.3 | 101 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 53.1 | 106 | 70 (77) | 130 (121) |
| Q2177-09 | TB05312025 | 1,2-Dichloroethane-d4 | 50 | 55.7 | 111 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 51.7 | 103 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 50.1 | 100 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 51.4 | 103 | 70 (77) | 130 (121) |
| VX0602WBL01 | VX0602WBL01 | 1,2-Dichloroethane-d4 | 50 | 53.9 | 108 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 51.6 | 103 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 50.9 | 102 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 50.8 | 102 | 70 (77) | 130 (121) |
| VX0602WBS01 | VX0602WBS01 | 1,2-Dichloroethane-d4 | 50 | 49.5 | 99 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 51.6 | 103 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 49.2 | 98 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 49.8 | 100 | 70 (77) | 130 (121) |
| VX0602WBSD0 | VX0602WBSD01 | 1,2-Dichloroethane-d4 | 50 | 50.1 | 100 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 50.7 | 101 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 48.3 | 97 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 49.9 | 100 | 70 (77) | 130 (121) |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260-Low **Datafile :** VX046436.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VX0602WBS01 | Dichlorodifluoromethane | 20 | 17.3 | ug/L | 86 | | | 40 (69) | 160 (116) | |
| | Chloromethane | 20 | 16.8 | ug/L | 84 | | | 40 (65) | 160 (116) | |
| | Vinyl chloride | 20 | 16.8 | ug/L | 84 | | | 70 (65) | 130 (117) | |
| | Bromomethane | 20 | 17.0 | ug/L | 85 | | | 40 (58) | 160 (125) | |
| | Chloroethane | 20 | 18.7 | ug/L | 94 | | | 40 (56) | 160 (128) | |
| | Trichlorofluoromethane | 20 | 18.5 | ug/L | 93 | | | 40 (73) | 160 (115) | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 18.6 | ug/L | 93 | | | 70 (80) | 130 (112) | |
| | 1,1-Dichloroethene | 20 | 18.3 | ug/L | 92 | | | 70 (74) | 130 (110) | |
| | Acetone | 100 | 100 | ug/L | 100 | | | 40 (60) | 160 (125) | |
| | Carbon disulfide | 20 | 14.3 | ug/L | 72 | | | 40 (64) | 160 (112) | |
| | Methyl tert-butyl Ether | 20 | 20.2 | ug/L | 101 | | | 70 (78) | 130 (114) | |
| | Methyl Acetate | 20 | 26.5 | ug/L | 133 | | * | 70 (67) | 130 (125) | |
| | Methylene Chloride | 20 | 18.0 | ug/L | 90 | | | 70 (72) | 130 (114) | |
| | trans-1,2-Dichloroethene | 20 | 18.0 | ug/L | 90 | | | 70 (75) | 130 (108) | |
| | 1,1-Dichloroethane | 20 | 20.2 | ug/L | 101 | | | 70 (78) | 130 (112) | |
| | Cyclohexane | 20 | 17.6 | ug/L | 88 | | | 70 (75) | 130 (110) | |
| | 2-Butanone | 100 | 110 | ug/L | 110 | | | 40 (65) | 160 (122) | |
| | Carbon Tetrachloride | 20 | 19.6 | ug/L | 98 | | | 70 (77) | 130 (113) | |
| | cis-1,2-Dichloroethene | 20 | 19.6 | ug/L | 98 | | | 70 (77) | 130 (110) | |
| | Bromochloromethane | 20 | 23.3 | ug/L | 117 | | | 70 (70) | 130 (124) | |
| | Chloroform | 20 | 20.5 | ug/L | 103 | | | 70 (79) | 130 (113) | |
| | 1,1,1-Trichloroethane | 20 | 20.2 | ug/L | 101 | | | 70 (80) | 130 (108) | |
| | Methylcyclohexane | 20 | 17.3 | ug/L | 86 | | | 70 (72) | 130 (115) | |
| | Benzene | 20 | 19.8 | ug/L | 99 | | | 70 (82) | 130 (109) | |
| | 1,2-Dichloroethane | 20 | 20.7 | ug/L | 104 | | | 70 (80) | 130 (115) | |
| | Trichloroethene | 20 | 19.2 | ug/L | 96 | | | 70 (77) | 130 (113) | |
| | 1,2-Dichloropropane | 20 | 21.4 | ug/L | 107 | | | 70 (83) | 130 (111) | |
| | Bromodichloromethane | 20 | 21.5 | ug/L | 108 | | | 70 (83) | 130 (110) | |
| | 4-Methyl-2-Pentanone | 100 | 110 | ug/L | 110 | | | 40 (74) | 160 (118) | |
| | Toluene | 20 | 19.9 | ug/L | 100 | | | 70 (82) | 130 (110) | |
| | t-1,3-Dichloropropene | 20 | 19.8 | ug/L | 99 | | | 70 (79) | 130 (110) | |
| | cis-1,3-Dichloropropene | 20 | 20.2 | ug/L | 101 | | | 70 (82) | 130 (110) | |
| | 1,1,2-Trichloroethane | 20 | 21.3 | ug/L | 106 | | | 70 (83) | 130 (112) | |
| | 2-Hexanone | 100 | 110 | ug/L | 110 | | | 40 (73) | 160 (117) | |
| | Dibromochloromethane | 20 | 21.4 | ug/L | 107 | | | 70 (82) | 130 (110) | |
| | 1,2-Dibromoethane | 20 | 20.4 | ug/L | 102 | | | 70 (81) | 130 (110) | |
| | Tetrachloroethene | 20 | 19.3 | ug/L | 97 | | | 70 (67) | 130 (123) | |
| | Chlorobenzene | 20 | 19.6 | ug/L | 98 | | | 70 (82) | 130 (109) | |
| | Ethyl Benzene | 20 | 19.8 | ug/L | 99 | | | 70 (83) | 130 (109) | |
| | m/p-Xylenes | 40 | 39.6 | ug/L | 99 | | | 70 (82) | 130 (110) | |
| | o-Xylene | 20 | 20.3 | ug/L | 102 | | | 70 (83) | 130 (109) | |
| | Styrene | 20 | 21.0 | ug/L | 105 | | | 70 (80) | 130 (111) | |
| | Bromoform | 20 | 20.7 | ug/L | 104 | | | 70 (79) | 130 (109) | |
| | Isopropylbenzene | 20 | 20.6 | ug/L | 103 | | | 70 (83) | 130 (112) | |
| | 1,1,2,2-Tetrachloroethane | 20 | 20.5 | ug/L | 103 | | | 70 (76) | 130 (118) | |
| | 1,3-Dichlorobenzene | 20 | 20.0 | ug/L | 100 | | | 70 (82) | 130 (108) | |
| | 1,4-Dichlorobenzene | 20 | 19.8 | ug/L | 99 | | | 70 (82) | 130 (107) | |
| | 1,2-Dichlorobenzene | 20 | 20.4 | ug/L | 102 | | | 70 (82) | 130 (109) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260-Low **Datafile :** VX046436.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VX0602WBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 21.8 | ug/L | 109 | | | 40 (68) | 160 (112) | |
| | 1,2,4-Trichlorobenzene | 20 | 18.7 | ug/L | 94 | | | 70 (75) | 130 (113) | |
| | 1,2,3-Trichlorobenzene | 20 | 20.3 | ug/L | 102 | | | 70 (76) | 130 (114) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260-Low **Datafile :** VX046437.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VX0602WBSD01 | Dichlorodifluoromethane | 20 | 17.2 | ug/L | 86 | 0 | | 40 (69) | 160 (116) | 20 (20) |
| | Chloromethane | 20 | 16.9 | ug/L | 85 | 1 | | 40 (65) | 160 (116) | 20 (20) |
| | Vinyl chloride | 20 | 16.6 | ug/L | 83 | 1 | | 70 (65) | 130 (117) | 20 (20) |
| | Bromomethane | 20 | 17.2 | ug/L | 86 | 1 | | 40 (58) | 160 (125) | 20 (20) |
| | Chloroethane | 20 | 18.3 | ug/L | 92 | 2 | | 40 (56) | 160 (128) | 20 (20) |
| | Trichlorofluoromethane | 20 | 18.1 | ug/L | 91 | 2 | | 40 (73) | 160 (115) | 20 (20) |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 19.2 | ug/L | 96 | 3 | | 70 (80) | 130 (112) | 20 (20) |
| | 1,1-Dichloroethene | 20 | 18.0 | ug/L | 90 | 2 | | 70 (74) | 130 (110) | 20 (20) |
| | Acetone | 100 | 100 | ug/L | 100 | 0 | | 40 (60) | 160 (125) | 20 (20) |
| | Carbon disulfide | 20 | 14.0 | ug/L | 70 | 3 | | 40 (64) | 160 (112) | 20 (20) |
| | Methyl tert-butyl Ether | 20 | 20.9 | ug/L | 104 | 3 | | 70 (78) | 130 (114) | 20 (20) |
| | Methyl Acetate | 20 | 27.2 | ug/L | 136 | 2 | * | 70 (67) | 130 (125) | 20 (20) |
| | Methylene Chloride | 20 | 18.8 | ug/L | 94 | 4 | | 70 (72) | 130 (114) | 20 (20) |
| | trans-1,2-Dichloroethene | 20 | 18.4 | ug/L | 92 | 2 | | 70 (75) | 130 (108) | 20 (20) |
| | 1,1-Dichloroethane | 20 | 20.2 | ug/L | 101 | 0 | | 70 (78) | 130 (112) | 20 (20) |
| | Cyclohexane | 20 | 17.6 | ug/L | 88 | 0 | | 70 (75) | 130 (110) | 20 (20) |
| | 2-Butanone | 100 | 110 | ug/L | 110 | 0 | | 40 (65) | 160 (122) | 20 (20) |
| | Carbon Tetrachloride | 20 | 19.3 | ug/L | 97 | 1 | | 70 (77) | 130 (113) | 20 (20) |
| | cis-1,2-Dichloroethene | 20 | 19.9 | ug/L | 100 | 2 | | 70 (77) | 130 (110) | 20 (20) |
| | Bromochloromethane | 20 | 23.6 | ug/L | 118 | 1 | | 70 (70) | 130 (124) | 20 (20) |
| | Chloroform | 20 | 20.8 | ug/L | 104 | 1 | | 70 (79) | 130 (113) | 20 (20) |
| | 1,1,1-Trichloroethane | 20 | 19.7 | ug/L | 99 | 2 | | 70 (80) | 130 (108) | 20 (20) |
| | Methylcyclohexane | 20 | 17.2 | ug/L | 86 | 0 | | 70 (72) | 130 (115) | 20 (20) |
| | Benzene | 20 | 19.7 | ug/L | 99 | 0 | | 70 (82) | 130 (109) | 20 (20) |
| | 1,2-Dichloroethane | 20 | 20.8 | ug/L | 104 | 0 | | 70 (80) | 130 (115) | 20 (20) |
| | Trichloroethene | 20 | 19.3 | ug/L | 97 | 1 | | 70 (77) | 130 (113) | 20 (20) |
| | 1,2-Dichloropropane | 20 | 20.9 | ug/L | 104 | 3 | | 70 (83) | 130 (111) | 20 (20) |
| | Bromodichloromethane | 20 | 20.8 | ug/L | 104 | 4 | | 70 (83) | 130 (110) | 20 (20) |
| | 4-Methyl-2-Pentanone | 100 | 110 | ug/L | 110 | 0 | | 40 (74) | 160 (118) | 20 (20) |
| | Toluene | 20 | 19.9 | ug/L | 100 | 0 | | 70 (82) | 130 (110) | 20 (20) |
| | t-1,3-Dichloropropene | 20 | 19.9 | ug/L | 100 | 1 | | 70 (79) | 130 (110) | 20 (20) |
| | cis-1,3-Dichloropropene | 20 | 20.2 | ug/L | 101 | 0 | | 70 (82) | 130 (110) | 20 (20) |
| | 1,1,2-Trichloroethane | 20 | 21.6 | ug/L | 108 | 2 | | 70 (83) | 130 (112) | 20 (20) |
| | 2-Hexanone | 100 | 110 | ug/L | 110 | 0 | | 40 (73) | 160 (117) | 20 (20) |
| | Dibromochloromethane | 20 | 21.5 | ug/L | 108 | 1 | | 70 (82) | 130 (110) | 20 (20) |
| | 1,2-Dibromoethane | 20 | 20.8 | ug/L | 104 | 2 | | 70 (81) | 130 (110) | 20 (20) |
| | Tetrachloroethene | 20 | 18.4 | ug/L | 92 | 5 | | 70 (67) | 130 (123) | 20 (20) |
| | Chlorobenzene | 20 | 19.7 | ug/L | 99 | 1 | | 70 (82) | 130 (109) | 20 (20) |
| | Ethyl Benzene | 20 | 19.9 | ug/L | 100 | 1 | | 70 (83) | 130 (109) | 20 (20) |
| | m/p-Xylenes | 40 | 40.2 | ug/L | 101 | 2 | | 70 (82) | 130 (110) | 20 (20) |
| | o-Xylene | 20 | 20.6 | ug/L | 103 | 1 | | 70 (83) | 130 (109) | 20 (20) |
| | Styrene | 20 | 20.9 | ug/L | 104 | 1 | | 70 (80) | 130 (111) | 20 (20) |
| | Bromoform | 20 | 20.8 | ug/L | 104 | 0 | | 70 (79) | 130 (109) | 20 (20) |
| | Isopropylbenzene | 20 | 20.2 | ug/L | 101 | 2 | | 70 (83) | 130 (112) | 20 (20) |
| | 1,1,2,2-Tetrachloroethane | 20 | 21.5 | ug/L | 108 | 5 | | 70 (76) | 130 (118) | 20 (20) |
| | 1,3-Dichlorobenzene | 20 | 20.1 | ug/L | 101 | 1 | | 70 (82) | 130 (108) | 20 (20) |
| | 1,4-Dichlorobenzene | 20 | 19.9 | ug/L | 100 | 1 | | 70 (82) | 130 (107) | 20 (20) |
| | 1,2-Dichlorobenzene | 20 | 21.0 | ug/L | 105 | 3 | | 70 (82) | 130 (109) | 20 (20) |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260-Low **Datafile :** VX046437.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VX0602WBSD01 | 1,2-Dibromo-3-Chloropropane | 20 | 21.6 | ug/L | 108 | 1 | | 40 (68) | 160 (112) | 20 (20) |
| | 1,2,4-Trichlorobenzene | 20 | 19.6 | ug/L | 98 | 4 | | 70 (75) | 130 (113) | 20 (20) |
| | 1,2,3-Trichlorobenzene | 20 | 20.5 | ug/L | 103 | 1 | | 70 (76) | 130 (114) | 20 (20) |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260D **Datafile :** VY022513.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0603SBS01 | Dichlorodifluoromethane | 20 | 22.1 | ug/Kg | 111 | | | 40 (64) | 160 (136) | |
| | Chloromethane | 20 | 18.4 | ug/Kg | 92 | | | 40 (52) | 160 (151) | |
| | Vinyl chloride | 20 | 20.8 | ug/Kg | 104 | | | 70 (56) | 130 (148) | |
| | Bromomethane | 20 | 20.2 | ug/Kg | 101 | | | 40 (58) | 160 (141) | |
| | Chloroethane | 20 | 21.3 | ug/Kg | 106 | | | 40 (69) | 160 (130) | |
| | Trichlorofluoromethane | 20 | 22.2 | ug/Kg | 111 | | | 40 (69) | 160 (134) | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.2 | ug/Kg | 106 | | | 70 (81) | 130 (123) | |
| | 1,1-Dichloroethene | 20 | 21.2 | ug/Kg | 106 | | | 70 (79) | 130 (121) | |
| | Acetone | 100 | 140 | ug/Kg | 140 | | | 40 (40) | 160 (171) | |
| | Carbon disulfide | 20 | 20.8 | ug/Kg | 104 | | | 40 (59) | 160 (130) | |
| | Methyl tert-butyl Ether | 20 | 20.3 | ug/Kg | 102 | | | 70 (77) | 130 (129) | |
| | Methyl Acetate | 20 | 20.6 | ug/Kg | 103 | | | 70 (69) | 130 (149) | |
| | Methylene Chloride | 20 | 18.5 | ug/Kg | 93 | | | 70 (72) | 130 (131) | |
| | trans-1,2-Dichloroethene | 20 | 20.6 | ug/Kg | 103 | | | 70 (80) | 130 (123) | |
| | 1,1-Dichloroethane | 20 | 21.2 | ug/Kg | 106 | | | 70 (82) | 130 (123) | |
| | Cyclohexane | 20 | 20.2 | ug/Kg | 101 | | | 70 (76) | 130 (122) | |
| | 2-Butanone | 100 | 120 | ug/Kg | 120 | | | 40 (69) | 160 (131) | |
| | Carbon Tetrachloride | 20 | 20.2 | ug/Kg | 101 | | | 70 (76) | 130 (129) | |
| | cis-1,2-Dichloroethene | 20 | 20.5 | ug/Kg | 103 | | | 70 (82) | 130 (123) | |
| | Bromochloromethane | 20 | 21.3 | ug/Kg | 106 | | | 70 (80) | 130 (127) | |
| | Chloroform | 20 | 21.1 | ug/Kg | 106 | | | 70 (82) | 130 (125) | |
| | 1,1,1-Trichloroethane | 20 | 21.2 | ug/Kg | 106 | | | 70 (80) | 130 (126) | |
| | Methylcyclohexane | 20 | 19.8 | ug/Kg | 99 | | | 70 (77) | 130 (123) | |
| | Benzene | 20 | 20.7 | ug/Kg | 104 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichloroethane | 20 | 20.4 | ug/Kg | 102 | | | 70 (81) | 130 (126) | |
| | Trichloroethene | 20 | 21.3 | ug/Kg | 106 | | | 70 (83) | 130 (122) | |
| | 1,2-Dichloropropane | 20 | 20.9 | ug/Kg | 104 | | | 70 (83) | 130 (122) | |
| | Bromodichloromethane | 20 | 20.8 | ug/Kg | 104 | | | 70 (82) | 130 (123) | |
| | 4-Methyl-2-Pentanone | 100 | 96.0 | ug/Kg | 96 | | | 40 (70) | 160 (135) | |
| | Toluene | 20 | 20.1 | ug/Kg | 101 | | | 70 (83) | 130 (122) | |
| | t-1,3-Dichloropropene | 20 | 19.7 | ug/Kg | 99 | | | 70 (78) | 130 (124) | |
| | cis-1,3-Dichloropropene | 20 | 20.6 | ug/Kg | 103 | | | 70 (81) | 130 (122) | |
| | 1,1,2-Trichloroethane | 20 | 20.2 | ug/Kg | 101 | | | 70 (82) | 130 (125) | |
| | 2-Hexanone | 100 | 110 | ug/Kg | 110 | | | 40 (66) | 160 (138) | |
| | Dibromochloromethane | 20 | 19.8 | ug/Kg | 99 | | | 70 (79) | 130 (125) | |
| | 1,2-Dibromoethane | 20 | 20.1 | ug/Kg | 101 | | | 70 (80) | 130 (125) | |
| | Tetrachloroethene | 20 | 21.2 | ug/Kg | 106 | | | 70 (83) | 130 (125) | |
| | Chlorobenzene | 20 | 20.3 | ug/Kg | 102 | | | 70 (84) | 130 (122) | |
| | Ethyl Benzene | 20 | 20.3 | ug/Kg | 102 | | | 70 (82) | 130 (124) | |
| | m/p-Xylenes | 40 | 40.2 | ug/Kg | 101 | | | 70 (83) | 130 (124) | |
| | o-Xylene | 20 | 20.0 | ug/Kg | 100 | | | 70 (83) | 130 (123) | |
| | Styrene | 20 | 19.9 | ug/Kg | 100 | | | 70 (82) | 130 (124) | |
| | Bromoform | 20 | 18.6 | ug/Kg | 93 | | | 70 (75) | 130 (127) | |
| | Isopropylbenzene | 20 | 20.1 | ug/Kg | 101 | | | 70 (82) | 130 (124) | |
| | 1,1,2,2-Tetrachloroethane | 20 | 18.6 | ug/Kg | 93 | | | 70 (77) | 130 (127) | |
| | 1,3-Dichlorobenzene | 20 | 19.4 | ug/Kg | 97 | | | 70 (83) | 130 (122) | |
| | 1,4-Dichlorobenzene | 20 | 20.0 | ug/Kg | 100 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichlorobenzene | 20 | 19.8 | ug/Kg | 99 | | | 70 (83) | 130 (124) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260D **Datafile :** VY022513.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0603SBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 18.9 | ug/Kg | 95 | | | 40 (66) | 160 (134) | |
| | 1,2,4-Trichlorobenzene | 20 | 18.8 | ug/Kg | 94 | | | 70 (78) | 130 (127) | |
| | 1,2,3-Trichlorobenzene | 20 | 19.4 | ug/Kg | 97 | | | 70 (70) | 130 (137) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260D **Datafile :** VY022514.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0603SBSD01 | Dichlorodifluoromethane | 20 | 22.4 | ug/Kg | 112 | 1 | | 40 (64) | 160 (136) | 30 (20) |
| | Chloromethane | 20 | 22.2 | ug/Kg | 111 | 19 | | 40 (52) | 160 (151) | 30 (20) |
| | Vinyl chloride | 20 | 22.2 | ug/Kg | 111 | 7 | | 70 (56) | 130 (148) | 30 (20) |
| | Bromomethane | 20 | 21.2 | ug/Kg | 106 | 5 | | 40 (58) | 160 (141) | 30 (20) |
| | Chloroethane | 20 | 21.6 | ug/Kg | 108 | 2 | | 40 (69) | 160 (130) | 30 (20) |
| | Trichlorofluoromethane | 20 | 21.2 | ug/Kg | 106 | 5 | | 40 (69) | 160 (134) | 30 (20) |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 20.2 | ug/Kg | 101 | 5 | | 70 (81) | 130 (123) | 30 (20) |
| | 1,1-Dichloroethene | 20 | 21.7 | ug/Kg | 109 | 3 | | 70 (79) | 130 (121) | 30 (20) |
| | Acetone | 100 | 120 | ug/Kg | 120 | 15 | | 40 (40) | 160 (171) | 30 (20) |
| | Carbon disulfide | 20 | 21.3 | ug/Kg | 106 | 2 | | 40 (59) | 160 (130) | 30 (20) |
| | Methyl tert-butyl Ether | 20 | 20.5 | ug/Kg | 103 | 1 | | 70 (77) | 130 (129) | 30 (20) |
| | Methyl Acetate | 20 | 19.5 | ug/Kg | 98 | 5 | | 70 (69) | 130 (149) | 30 (20) |
| | Methylene Chloride | 20 | 19.3 | ug/Kg | 97 | 4 | | 70 (72) | 130 (131) | 30 (20) |
| | trans-1,2-Dichloroethene | 20 | 20.9 | ug/Kg | 104 | 1 | | 70 (80) | 130 (123) | 30 (20) |
| | 1,1-Dichloroethane | 20 | 21.1 | ug/Kg | 106 | 0 | | 70 (82) | 130 (123) | 30 (20) |
| | Cyclohexane | 20 | 19.7 | ug/Kg | 99 | 2 | | 70 (76) | 130 (122) | 30 (20) |
| | 2-Butanone | 100 | 110 | ug/Kg | 110 | 9 | | 40 (69) | 160 (131) | 30 (20) |
| | Carbon Tetrachloride | 20 | 20.9 | ug/Kg | 104 | 3 | | 70 (76) | 130 (129) | 30 (20) |
| | cis-1,2-Dichloroethene | 20 | 21.4 | ug/Kg | 107 | 4 | | 70 (82) | 130 (123) | 30 (20) |
| | Bromochloromethane | 20 | 20.8 | ug/Kg | 104 | 2 | | 70 (80) | 130 (127) | 30 (20) |
| | Chloroform | 20 | 21.6 | ug/Kg | 108 | 2 | | 70 (82) | 130 (125) | 30 (20) |
| | 1,1,1-Trichloroethane | 20 | 21.2 | ug/Kg | 106 | 0 | | 70 (80) | 130 (126) | 30 (20) |
| | Methylcyclohexane | 20 | 20.3 | ug/Kg | 102 | 3 | | 70 (77) | 130 (123) | 30 (20) |
| | Benzene | 20 | 21.0 | ug/Kg | 105 | 1 | | 70 (84) | 130 (121) | 30 (20) |
| | 1,2-Dichloroethane | 20 | 21.0 | ug/Kg | 105 | 3 | | 70 (81) | 130 (126) | 30 (20) |
| | Trichloroethene | 20 | 21.5 | ug/Kg | 108 | 2 | | 70 (83) | 130 (122) | 30 (20) |
| | 1,2-Dichloropropane | 20 | 20.7 | ug/Kg | 104 | 0 | | 70 (83) | 130 (122) | 30 (20) |
| | Bromodichloromethane | 20 | 21.0 | ug/Kg | 105 | 1 | | 70 (82) | 130 (123) | 30 (20) |
| | 4-Methyl-2-Pentanone | 100 | 96.9 | ug/Kg | 97 | 1 | | 40 (70) | 160 (135) | 30 (20) |
| | Toluene | 20 | 20.5 | ug/Kg | 103 | 2 | | 70 (83) | 130 (122) | 30 (20) |
| | t-1,3-Dichloropropene | 20 | 19.9 | ug/Kg | 100 | 1 | | 70 (78) | 130 (124) | 30 (20) |
| | cis-1,3-Dichloropropene | 20 | 20.5 | ug/Kg | 103 | 0 | | 70 (81) | 130 (122) | 30 (20) |
| | 1,1,2-Trichloroethane | 20 | 20.6 | ug/Kg | 103 | 2 | | 70 (82) | 130 (125) | 30 (20) |
| | 2-Hexanone | 100 | 98.4 | ug/Kg | 98 | 12 | | 40 (66) | 160 (138) | 30 (20) |
| | Dibromochloromethane | 20 | 20.2 | ug/Kg | 101 | 2 | | 70 (79) | 130 (125) | 30 (20) |
| | 1,2-Dibromoethane | 20 | 20.0 | ug/Kg | 100 | 1 | | 70 (80) | 130 (125) | 30 (20) |
| | Tetrachloroethene | 20 | 21.3 | ug/Kg | 106 | 0 | | 70 (83) | 130 (125) | 30 (20) |
| | Chlorobenzene | 20 | 21.1 | ug/Kg | 106 | 4 | | 70 (84) | 130 (122) | 30 (20) |
| | Ethyl Benzene | 20 | 20.8 | ug/Kg | 104 | 2 | | 70 (82) | 130 (124) | 30 (20) |
| | m/p-Xylenes | 40 | 41.3 | ug/Kg | 103 | 2 | | 70 (83) | 130 (124) | 30 (20) |
| | o-Xylene | 20 | 20.7 | ug/Kg | 104 | 4 | | 70 (83) | 130 (123) | 30 (20) |
| | Styrene | 20 | 20.6 | ug/Kg | 103 | 3 | | 70 (82) | 130 (124) | 30 (20) |
| | Bromoform | 20 | 19.9 | ug/Kg | 100 | 7 | | 70 (75) | 130 (127) | 30 (20) |
| | Isopropylbenzene | 20 | 21.1 | ug/Kg | 106 | 5 | | 70 (82) | 130 (124) | 30 (20) |
| | 1,1,2,2-Tetrachloroethane | 20 | 20.0 | ug/Kg | 100 | 7 | | 70 (77) | 130 (127) | 30 (20) |
| | 1,3-Dichlorobenzene | 20 | 20.5 | ug/Kg | 103 | 6 | | 70 (83) | 130 (122) | 30 (20) |
| | 1,4-Dichlorobenzene | 20 | 20.7 | ug/Kg | 104 | 4 | | 70 (84) | 130 (121) | 30 (20) |
| | 1,2-Dichlorobenzene | 20 | 20.9 | ug/Kg | 104 | 5 | | 70 (83) | 130 (124) | 30 (20) |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260D **Datafile :** VY022514.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0603SBSD01 | 1,2-Dibromo-3-Chloropropane | 20 | 19.4 | ug/Kg | 97 | 2 | | 40 (66) | 160 (134) | 30 (20) |
| | 1,2,4-Trichlorobenzene | 20 | 20.9 | ug/Kg | 104 | 10 | | 70 (78) | 130 (127) | 30 (20) |
| | 1,2,3-Trichlorobenzene | 20 | 20.3 | ug/Kg | 102 | 5 | | 70 (70) | 130 (137) | 30 (20) |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260D **Datafile :** VY022540.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0604SBS01 | Dichlorodifluoromethane | 20 | 22.1 | ug/Kg | 111 | | | 40 (64) | 160 (136) | |
| | Chloromethane | 20 | 18.8 | ug/Kg | 94 | | | 40 (52) | 160 (151) | |
| | Vinyl chloride | 20 | 22.0 | ug/Kg | 110 | | | 70 (56) | 130 (148) | |
| | Bromomethane | 20 | 21.2 | ug/Kg | 106 | | | 40 (58) | 160 (141) | |
| | Chloroethane | 20 | 22.5 | ug/Kg | 113 | | | 40 (69) | 160 (130) | |
| | Trichlorofluoromethane | 20 | 23.5 | ug/Kg | 117 | | | 40 (69) | 160 (134) | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 20.6 | ug/Kg | 103 | | | 70 (81) | 130 (123) | |
| | 1,1-Dichloroethene | 20 | 21.1 | ug/Kg | 106 | | | 70 (79) | 130 (121) | |
| | Acetone | 100 | 87.2 | ug/Kg | 87 | | | 40 (40) | 160 (171) | |
| | Carbon disulfide | 20 | 20.5 | ug/Kg | 103 | | | 40 (59) | 160 (130) | |
| | Methyl tert-butyl Ether | 20 | 20.2 | ug/Kg | 101 | | | 70 (77) | 130 (129) | |
| | Methyl Acetate | 20 | 20.0 | ug/Kg | 100 | | | 70 (69) | 130 (149) | |
| | Methylene Chloride | 20 | 19.1 | ug/Kg | 96 | | | 70 (72) | 130 (131) | |
| | trans-1,2-Dichloroethene | 20 | 20.7 | ug/Kg | 104 | | | 70 (80) | 130 (123) | |
| | 1,1-Dichloroethane | 20 | 21.2 | ug/Kg | 106 | | | 70 (82) | 130 (123) | |
| | Cyclohexane | 20 | 19.6 | ug/Kg | 98 | | | 70 (76) | 130 (122) | |
| | 2-Butanone | 100 | 93.6 | ug/Kg | 94 | | | 40 (69) | 160 (131) | |
| | Carbon Tetrachloride | 20 | 20.0 | ug/Kg | 100 | | | 70 (76) | 130 (129) | |
| | cis-1,2-Dichloroethene | 20 | 21.2 | ug/Kg | 106 | | | 70 (82) | 130 (123) | |
| | Bromochloromethane | 20 | 21.0 | ug/Kg | 105 | | | 70 (80) | 130 (127) | |
| | Chloroform | 20 | 21.1 | ug/Kg | 106 | | | 70 (82) | 130 (125) | |
| | 1,1,1-Trichloroethane | 20 | 21.2 | ug/Kg | 106 | | | 70 (80) | 130 (126) | |
| | Methylcyclohexane | 20 | 20.0 | ug/Kg | 100 | | | 70 (77) | 130 (123) | |
| | Benzene | 20 | 20.8 | ug/Kg | 104 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichloroethane | 20 | 20.1 | ug/Kg | 101 | | | 70 (81) | 130 (126) | |
| | Trichloroethene | 20 | 20.3 | ug/Kg | 102 | | | 70 (83) | 130 (122) | |
| | 1,2-Dichloropropane | 20 | 21.1 | ug/Kg | 106 | | | 70 (83) | 130 (122) | |
| | Bromodichloromethane | 20 | 20.9 | ug/Kg | 104 | | | 70 (82) | 130 (123) | |
| | 4-Methyl-2-Pentanone | 100 | 93.5 | ug/Kg | 94 | | | 40 (70) | 160 (135) | |
| | Toluene | 20 | 20.3 | ug/Kg | 102 | | | 70 (83) | 130 (122) | |
| | t-1,3-Dichloropropene | 20 | 19.6 | ug/Kg | 98 | | | 70 (78) | 130 (124) | |
| | cis-1,3-Dichloropropene | 20 | 20.3 | ug/Kg | 102 | | | 70 (81) | 130 (122) | |
| | 1,1,2-Trichloroethane | 20 | 19.3 | ug/Kg | 97 | | | 70 (82) | 130 (125) | |
| | 2-Hexanone | 100 | 91.6 | ug/Kg | 92 | | | 40 (66) | 160 (138) | |
| | Dibromochloromethane | 20 | 19.7 | ug/Kg | 99 | | | 70 (79) | 130 (125) | |
| | 1,2-Dibromoethane | 20 | 20.5 | ug/Kg | 103 | | | 70 (80) | 130 (125) | |
| | Tetrachloroethene | 20 | 20.9 | ug/Kg | 104 | | | 70 (83) | 130 (125) | |
| | Chlorobenzene | 20 | 20.4 | ug/Kg | 102 | | | 70 (84) | 130 (122) | |
| | Ethyl Benzene | 20 | 19.7 | ug/Kg | 99 | | | 70 (82) | 130 (124) | |
| | m/p-Xylenes | 40 | 38.9 | ug/Kg | 97 | | | 70 (83) | 130 (124) | |
| | o-Xylene | 20 | 19.8 | ug/Kg | 99 | | | 70 (83) | 130 (123) | |
| | Styrene | 20 | 19.4 | ug/Kg | 97 | | | 70 (82) | 130 (124) | |
| | Bromoform | 20 | 18.6 | ug/Kg | 93 | | | 70 (75) | 130 (127) | |
| | Isopropylbenzene | 20 | 19.8 | ug/Kg | 99 | | | 70 (82) | 130 (124) | |
| | 1,1,2,2-Tetrachloroethane | 20 | 18.6 | ug/Kg | 93 | | | 70 (77) | 130 (127) | |
| | 1,3-Dichlorobenzene | 20 | 19.9 | ug/Kg | 100 | | | 70 (83) | 130 (122) | |
| | 1,4-Dichlorobenzene | 20 | 20.0 | ug/Kg | 100 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichlorobenzene | 20 | 20.0 | ug/Kg | 100 | | | 70 (83) | 130 (124) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260D **Datafile :** VY022540.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0604SBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 19.5 | ug/Kg | 98 | | | 40 (66) | 160 (134) | |
| | 1,2,4-Trichlorobenzene | 20 | 21.1 | ug/Kg | 106 | | | 70 (78) | 130 (127) | |
| | 1,2,3-Trichlorobenzene | 20 | 20.5 | ug/Kg | 103 | | | 70 (70) | 130 (137) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260D **Datafile :** VY022562.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0605SBS01 | Dichlorodifluoromethane | 20 | 21.6 | ug/Kg | 108 | | | 40 (64) | 160 (136) | |
| | Chloromethane | 20 | 19.8 | ug/Kg | 99 | | | 40 (52) | 160 (151) | |
| | Vinyl chloride | 20 | 24.1 | ug/Kg | 121 | | | 70 (56) | 130 (148) | |
| | Bromomethane | 20 | 23.0 | ug/Kg | 115 | | | 40 (58) | 160 (141) | |
| | Chloroethane | 20 | 24.2 | ug/Kg | 121 | | | 40 (69) | 160 (130) | |
| | Trichlorofluoromethane | 20 | 25.7 | ug/Kg | 129 | | | 40 (69) | 160 (134) | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.0 | ug/Kg | 105 | | | 70 (81) | 130 (123) | |
| | 1,1-Dichloroethene | 20 | 21.2 | ug/Kg | 106 | | | 70 (79) | 130 (121) | |
| | Acetone | 100 | 94.2 | ug/Kg | 94 | | | 40 (40) | 160 (171) | |
| | Carbon disulfide | 20 | 20.7 | ug/Kg | 104 | | | 40 (59) | 160 (130) | |
| | Methyl tert-butyl Ether | 20 | 20.4 | ug/Kg | 102 | | | 70 (77) | 130 (129) | |
| | Methyl Acetate | 20 | 19.1 | ug/Kg | 96 | | | 70 (69) | 130 (149) | |
| | Methylene Chloride | 20 | 21.5 | ug/Kg | 108 | | | 70 (72) | 130 (131) | |
| | trans-1,2-Dichloroethene | 20 | 21.1 | ug/Kg | 106 | | | 70 (80) | 130 (123) | |
| | 1,1-Dichloroethane | 20 | 21.4 | ug/Kg | 107 | | | 70 (82) | 130 (123) | |
| | Cyclohexane | 20 | 20.0 | ug/Kg | 100 | | | 70 (76) | 130 (122) | |
| | 2-Butanone | 100 | 100 | ug/Kg | 100 | | | 40 (69) | 160 (131) | |
| | Carbon Tetrachloride | 20 | 20.7 | ug/Kg | 104 | | | 70 (76) | 130 (129) | |
| | cis-1,2-Dichloroethene | 20 | 21.2 | ug/Kg | 106 | | | 70 (82) | 130 (123) | |
| | Bromochloromethane | 20 | 20.0 | ug/Kg | 100 | | | 70 (80) | 130 (127) | |
| | Chloroform | 20 | 21.2 | ug/Kg | 106 | | | 70 (82) | 130 (125) | |
| | 1,1,1-Trichloroethane | 20 | 21.0 | ug/Kg | 105 | | | 70 (80) | 130 (126) | |
| | Methylcyclohexane | 20 | 20.0 | ug/Kg | 100 | | | 70 (77) | 130 (123) | |
| | Benzene | 20 | 20.9 | ug/Kg | 104 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichloroethane | 20 | 20.9 | ug/Kg | 104 | | | 70 (81) | 130 (126) | |
| | Trichloroethene | 20 | 20.6 | ug/Kg | 103 | | | 70 (83) | 130 (122) | |
| | 1,2-Dichloropropane | 20 | 20.9 | ug/Kg | 104 | | | 70 (83) | 130 (122) | |
| | Bromodichloromethane | 20 | 20.8 | ug/Kg | 104 | | | 70 (82) | 130 (123) | |
| | 4-Methyl-2-Pentanone | 100 | 97.2 | ug/Kg | 97 | | | 40 (70) | 160 (135) | |
| | Toluene | 20 | 20.5 | ug/Kg | 103 | | | 70 (83) | 130 (122) | |
| | t-1,3-Dichloropropene | 20 | 19.7 | ug/Kg | 99 | | | 70 (78) | 130 (124) | |
| | cis-1,3-Dichloropropene | 20 | 20.4 | ug/Kg | 102 | | | 70 (81) | 130 (122) | |
| | 1,1,2-Trichloroethane | 20 | 19.7 | ug/Kg | 99 | | | 70 (82) | 130 (125) | |
| | 2-Hexanone | 100 | 95.8 | ug/Kg | 96 | | | 40 (66) | 160 (138) | |
| | Dibromochloromethane | 20 | 20.1 | ug/Kg | 101 | | | 70 (79) | 130 (125) | |
| | 1,2-Dibromoethane | 20 | 20.1 | ug/Kg | 101 | | | 70 (80) | 130 (125) | |
| | Tetrachloroethene | 20 | 20.4 | ug/Kg | 102 | | | 70 (83) | 130 (125) | |
| | Chlorobenzene | 20 | 20.8 | ug/Kg | 104 | | | 70 (84) | 130 (122) | |
| | Ethyl Benzene | 20 | 20.2 | ug/Kg | 101 | | | 70 (82) | 130 (124) | |
| | m/p-Xylenes | 40 | 39.9 | ug/Kg | 100 | | | 70 (83) | 130 (124) | |
| | o-Xylene | 20 | 20.1 | ug/Kg | 101 | | | 70 (83) | 130 (123) | |
| | Styrene | 20 | 19.8 | ug/Kg | 99 | | | 70 (82) | 130 (124) | |
| | Bromoform | 20 | 19.9 | ug/Kg | 100 | | | 70 (75) | 130 (127) | |
| | Isopropylbenzene | 20 | 20.9 | ug/Kg | 104 | | | 70 (82) | 130 (124) | |
| | 1,1,2,2-Tetrachloroethane | 20 | 20.6 | ug/Kg | 103 | | | 70 (77) | 130 (127) | |
| | 1,3-Dichlorobenzene | 20 | 20.3 | ug/Kg | 102 | | | 70 (83) | 130 (122) | |
| | 1,4-Dichlorobenzene | 20 | 20.2 | ug/Kg | 101 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichlorobenzene | 20 | 19.7 | ug/Kg | 99 | | | 70 (83) | 130 (124) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260D **Datafile :** VY022562.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0605SBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 18.2 | ug/Kg | 91 | | | 40 (66) | 160 (134) | |
| | 1,2,4-Trichlorobenzene | 20 | 19.4 | ug/Kg | 97 | | | 70 (78) | 130 (127) | |
| | 1,2,3-Trichlorobenzene | 20 | 19.0 | ug/Kg | 95 | | | 70 (70) | 130 (137) | |

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0602WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VX046435.D Lab Sample ID: VX0602WBL01

Date Analyzed: 06/02/2025 Time Analyzed: 11:14

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

Instrument ID: MSVOA_X

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VX0602WBS01 | VX0602WBS01 | VX046436.D | 06/02/2025 |
| VX0602WBSD01 | VX0602WBSD01 | VX046437.D | 06/02/2025 |
| TB05312025 | Q2177-09 | VX046444.D | 06/02/2025 |
| EB05312025 | Q2177-08 | VX046454.D | 06/02/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0603SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VY022512.D Lab Sample ID: VY0603SBL01

Date Analyzed: 06/03/2025 Time Analyzed: 10:40

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

Instrument ID: MSVOA_Y

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VY0603SBS01 | VY0603SBS01 | VY022513.D | 06/03/2025 |
| VY0603SBSD01 | VY0603SBSD01 | VY022514.D | 06/03/2025 |
| B-187-SB00 | Q2177-01 | VY022534.D | 06/03/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0604SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VY022539.D Lab Sample ID: VY0604SBL01

Date Analyzed: 06/04/2025 Time Analyzed: 10:24

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

Instrument ID: MSVOA_Y

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VY0604SBS01 | VY0604SBS01 | VY022540.D | 06/04/2025 |
| B-187-SB01 | Q2177-02 | VY022554.D | 06/04/2025 |
| B-187-SB02 | Q2177-04 | VY022555.D | 06/04/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0605SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VY022561.D Lab Sample ID: VY0605SBL01

Date Analyzed: 06/05/2025 Time Analyzed: 09:11

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

Instrument ID: MSVOA_Y

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VY0605SBS01 | VY0605SBS01 | VY022562.D | 06/05/2025 |
| B-202-SB01 | Q2177-06 | VY022568.D | 06/05/2025 |

COMMENTS:

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

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VX046038.D BFB Injection Date: 05/05/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:37

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 22.1 |
| 75 | 30.0 - 60.0% of mass 95 | 56.2 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.4 |
| 173 | Less than 2.0% of mass 174 | 0.5 ( 0.7 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 68.8 |
| 175 | 5.0 - 9.0% of mass 174 | 5 ( 7.3 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 66.7 ( 97 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.6 ( 6.9 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC020 | VSTDICC020 | VX046041.D | 05/05/2025 | 11:35 |
| VSTDICCC050 | VSTDICCC050 | VX046042.D | 05/05/2025 | 11:58 |
| VSTDICC100 | VSTDICC100 | VX046043.D | 05/05/2025 | 12:21 |
| VSTDICC150 | VSTDICC150 | VX046044.D | 05/05/2025 | 12:45 |
| VSTDICC005 | VSTDICC005 | VX046046.D | 05/05/2025 | 16:04 |
| VSTDICC001 | VSTDICC001 | VX046047.D | 05/05/2025 | 16:27 |

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

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VX046432.D BFB Injection Date: 06/02/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:42

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 22.1 |
| 75 | 30.0 - 60.0% of mass 95 | 55.8 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.4 |
| 173 | Less than 2.0% of mass 174 | 0.6 ( 0.9 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 67.7 |
| 175 | 5.0 - 9.0% of mass 174 | 5.5 ( 8.1 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 66.8 ( 98.6 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.2 ( 6.3 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VX046433.D | 06/02/2025 | 10:21 |
| VX0602WBL01 | VX0602WBL01 | VX046435.D | 06/02/2025 | 11:14 |
| VX0602WBS01 | VX0602WBS01 | VX046436.D | 06/02/2025 | 11:37 |
| VX0602WBSD01 | VX0602WBSD01 | VX046437.D | 06/02/2025 | 12:04 |
| TB05312025 | Q2177-09 | VX046444.D | 06/02/2025 | 14:47 |
| EB05312025 | Q2177-08 | VX046454.D | 06/02/2025 | 19:06 |

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

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VY022488.D BFB Injection Date: 06/02/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:31

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 | 25.6 |
| 75 | 30.0 - 60.0% of mass 95 | 58.9 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.9 |
| 173 | Less than 2.0% of mass 174 | 0.5 ( 0.6 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 86.2 |
| 175 | 5.0 - 9.0% of mass 174 | 6.6 ( 7.6 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 82.5 ( 95.6 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.4 ( 6.6 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC005 | VSTDICC005 | VY022491.D | 06/02/2025 | 11:46 |
| VSTDICC010 | VSTDICC010 | VY022492.D | 06/02/2025 | 12:09 |
| VSTDICC020 | VSTDICC020 | VY022493.D | 06/02/2025 | 12:32 |
| VSTDICCC050 | VSTDICCC050 | VY022494.D | 06/02/2025 | 12:54 |
| VSTDICC100 | VSTDICC100 | VY022495.D | 06/02/2025 | 13:17 |
| VSTDICC150 | VSTDICC150 | VY022496.D | 06/02/2025 | 13:39 |

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

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VY022510.D BFB Injection Date: 06/03/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:03

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 | 26 |
| 75 | 30.0 - 60.0% of mass 95 | 59.1 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.5 |
| 173 | Less than 2.0% of mass 174 | 1.1 ( 1.4 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 82.6 |
| 175 | 5.0 - 9.0% of mass 174 | 6.2 ( 7.6 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 79.5 ( 96.3 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5 ( 6.3 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY022511.D | 06/03/2025 | 10:03 |
| VY0603SBL01 | VY0603SBL01 | VY022512.D | 06/03/2025 | 10:40 |
| VY0603SBS01 | VY0603SBS01 | VY022513.D | 06/03/2025 | 11:15 |
| VY0603SBSD01 | VY0603SBSD01 | VY022514.D | 06/03/2025 | 11:38 |
| B-187-SB00 | Q2177-01 | VY022534.D | 06/03/2025 | 19:42 |

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

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VY022537.D BFB Injection Date: 06/04/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:48

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 | 25.3 |
| 75 | 30.0 - 60.0% of mass 95 | 58.4 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.5 |
| 173 | Less than 2.0% of mass 174 | 1.1 ( 1.2 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 85.4 |
| 175 | 5.0 - 9.0% of mass 174 | 6.4 ( 7.5 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 83.3 ( 97.6 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.3 ( 6.3 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY022538.D | 06/04/2025 | 09:54 |
| VY0604SBL01 | VY0604SBL01 | VY022539.D | 06/04/2025 | 10:24 |
| VY0604SBS01 | VY0604SBS01 | VY022540.D | 06/04/2025 | 10:54 |
| B-187-SB01 | Q2177-02 | VY022554.D | 06/04/2025 | 16:34 |
| B-187-SB02 | Q2177-04 | VY022555.D | 06/04/2025 | 16:58 |

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

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VY022559.D BFB Injection Date: 06/05/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:08

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 | 25.2 |
| 75 | 30.0 - 60.0% of mass 95 | 58.6 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 |
| 173 | Less than 2.0% of mass 174 | 0.7 ( 0.9 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 83.3 |
| 175 | 5.0 - 9.0% of mass 174 | 6.5 ( 7.9 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 80.9 ( 97.1 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.2 ( 6.4 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY022560.D | 06/05/2025 | 08:40 |
| VY0605SBL01 | VY0605SBL01 | VY022561.D | 06/05/2025 | 09:11 |
| VY0605SBS01 | VY0605SBS01 | VY022562.D | 06/05/2025 | 09:41 |
| B-202-SB01 | Q2177-06 | VY022568.D | 06/05/2025 | 12:45 |

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VX046433.D Date Analyzed: 06/02/2025

Instrument ID: MSVOA_X Time Analyzed: 10:21

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

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 91247 | 5.54 | 155497 | 6.75 | 135003 | 10.05 |
| UPPER LIMIT | 182494 | 6.038 | 310994 | 7.251 | 270006 | 10.549 |
| LOWER LIMIT | 45623.5 | 5.038 | 77748.5 | 6.251 | 67501.5 | 9.549 |
| EPA SAMPLE NO. | | | | | | |
| EB05312025 | 65892 | 5.54 | 131320 | 6.76 | 124794 | 10.06 |
| TB05312025 | 60024 | 5.54 | 122332 | 6.76 | 117285 | 10.05 |
| VX0602WBL01 | 66983 | 5.54 | 131566 | 6.76 | 125222 | 10.05 |
| VX0602WBS01 | 88536 | 5.54 | 152496 | 6.76 | 133074 | 10.05 |
| VX0602WBSD01 | 82810 | 5.54 | 146139 | 6.76 | 127160 | 10.05 |

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VX046433.D Date Analyzed: 06/02/2025

Instrument ID: MSVOA_X Time Analyzed: 10:21

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 65264 | 12.018 | | | | |
| UPPER LIMIT | 130528 | 12.518 | | | | |
| LOWER LIMIT | 32632 | 11.518 | | | | |
| EPA SAMPLE NO. | | | | | | |
| EB05312025 | 55855 | 12.02 | | | | |
| TB05312025 | 49224 | 12.02 | | | | |
| VX0602WBL01 | 51823 | 12.02 | | | | |
| VX0602WBS01 | 62985 | 12.02 | | | | |
| VX0602WBSD01 | 61222 | 12.02 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VY022511.D Date Analyzed: 06/03/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:03

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 | 187797 | 7.71 | 325302 | 8.62 | 276655 | 11.42 |
| UPPER LIMIT | 375594 | 8.213 | 650604 | 9.115 | 553310 | 11.92 |
| LOWER LIMIT | 93898.5 | 7.213 | 162651 | 8.115 | 138328 | 10.92 |
| EPA SAMPLE NO. | | | | | | |
| B-187-SB00 | 249503 | 7.71 | 446768 | 8.62 | 313918 | 11.41 |
| VY0603SBL01 | 287398 | 7.71 | 534399 | 8.62 | 428748 | 11.42 |
| VY0603SBS01 | 197612 | 7.71 | 337632 | 8.62 | 284268 | 11.42 |
| VY0603SBSD01 | 196295 | 7.71 | 333757 | 8.62 | 277257 | 11.41 |

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VY022511.D Date Analyzed: 06/03/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:03

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 130385 | 13.346 | | | | |
| UPPER LIMIT | 260770 | 13.846 | | | | |
| LOWER LIMIT | 65192.5 | 12.846 | | | | |
| EPA SAMPLE NO. | | | | | | |
| B-187-SB00 | 80935 | 13.35 | | | | |
| VY0603SBL01 | 155262 | 13.35 | | | | |
| VY0603SBS01 | 131961 | 13.35 | | | | |
| VY0603SBSD01 | 127082 | 13.35 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VY022538.D Date Analyzed: 06/04/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:54

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 | 186956 | 7.71 | 316261 | 8.62 | 266067 | 11.42 |
| UPPER LIMIT | 373912 | 8.213 | 632522 | 9.116 | 532134 | 11.92 |
| LOWER LIMIT | 93478 | 7.213 | 158131 | 8.116 | 133034 | 10.92 |
| EPA SAMPLE NO. | | | | | | |
| B-187-SB01 | 261314 | 7.71 | 474753 | 8.61 | 386745 | 11.41 |
| B-187-SB02 | 280753 | 7.71 | 497958 | 8.61 | 360175 | 11.41 |
| VY0604SBL01 | 271205 | 7.71 | 498185 | 8.62 | 390593 | 11.41 |
| VY0604SBS01 | 177182 | 7.71 | 307142 | 8.62 | 260223 | 11.41 |

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VY022538.D Date Analyzed: 06/04/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:54

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 125910 | 13.346 | | | | |
| UPPER LIMIT | 251820 | 13.846 | | | | |
| LOWER LIMIT | 62955 | 12.846 | | | | |
| EPA SAMPLE NO. | | | | | | |
| B-187-SB01 | 144573 | 13.35 | | | | |
| B-187-SB02 | 103121 | 13.34 | | | | |
| VY0604SBL01 | 137326 | 13.35 | | | | |
| VY0604SBS01 | 119650 | 13.35 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VY022560.D Date Analyzed: 06/05/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:40

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

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 179733 | 7.71 | 304462 | 8.62 | 260955 | 11.41 |
| UPPER LIMIT | 359466 | 8.207 | 608924 | 9.116 | 521910 | 11.914 |
| LOWER LIMIT | 89866.5 | 7.207 | 152231 | 8.116 | 130478 | 10.914 |
| EPA SAMPLE NO. | | | | | | |
| B-202-SB01 | 270828 | 7.71 | 498576 | 8.61 | 399252 | 11.41 |
| VY0605SBL01 | 260317 | 7.71 | 481555 | 8.61 | 383268 | 11.41 |
| VY0605SBS01 | 185960 | 7.71 | 319893 | 8.62 | 265176 | 11.41 |

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VY022560.D Date Analyzed: 06/05/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:40

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 122317 | 13.346 | | | | |
| UPPER LIMIT | 244634 | 13.846 | | | | |
| LOWER LIMIT | 61158.5 | 12.846 | | | | |
| EPA SAMPLE NO. | | | | | | |
| B-202-SB01 | 144715 | 13.34 | | | | |
| VY0605SBL01 | 134444 | 13.35 | | | | |
| VY0605SBS01 | 121174 | 13.35 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

# QC SAMPLE DATA

Raw Data: **VX046435.D**

Alliance TECHNICAL GROUP
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VX0602WBL01 | SDG No.: | Q2177 |
| Lab Sample ID: | VX0602WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046435.D | 1 | | 06/02/25 11:14 | VX060225 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

Raw Data: **VX046435.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VX0602WBL01 | SDG No.: | Q2177 |
| Lab Sample ID: | VX0602WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046435.D | 1 | | 06/02/25 11:14 | VX060225 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.9 | | 70 (74) - 130 (125) | 108% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.6 | | 70 (75) - 130 (124) | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.9 | | 70 (86) - 130 (113) | 102% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.8 | | 70 (77) - 130 (121) | 102% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 67000 | 5.544 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 132000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 125000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 51800 | 12.018 | | | |

Raw Data: **VX046435.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VX0602WBL01 | SDG No.: | Q2177 |
| Lab Sample ID: | VX0602WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046435.D | 1 | | 06/02/25 11:14 | VX060225 |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0603SBL01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0603SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022512.D | 1 | | 06/03/25 10:40 | VY060325 |

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0603SBL01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0603SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022512.D | 1 | | 06/03/25 10:40 | VY060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.65 | U | 0.65 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.62 | U | 0.62 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.92 | U | 0.92 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.70 | U | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.87 | U | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.88 | U | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.91 | U | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.20 | U | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 0.82 | U | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 0.71 | U | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.86 | U | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.20 | U | 1.20 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.70 | U | 1.70 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.60 | U | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.50 | U | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.80 | U | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.00 | U | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.20 | U | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.5 | | 70 (63) - 130 (155) | 107% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.9 | | 70 (70) - 130 (134) | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.9 | | 70 (74) - 130 (123) | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 42.0 | | 70 (17) - 130 (146) | 84% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 287000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 534000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 429000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 155000 | 13.346 | | | |

Raw Data: **VY022512.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0603SBL01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0603SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022512.D | 1 | | 06/03/25 10:40 | VY060325 |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0604SBL01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0604SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022539.D | 1 | | 06/04/25 10:24 | VY060425 |

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0604SBL01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0604SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022539.D | 1 | | 06/04/25 10:24 | VY060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.65 | U | 0.65 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.62 | U | 0.62 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.92 | U | 0.92 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.70 | U | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.87 | U | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.88 | U | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.91 | U | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.20 | U | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 0.82 | U | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 0.71 | U | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.86 | U | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.20 | U | 1.20 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.70 | U | 1.70 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.60 | U | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.50 | U | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.80 | U | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.00 | U | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.20 | U | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.7 | | 70 (63) - 130 (155) | 105% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.7 | | 70 (70) - 130 (134) | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.3 | | 70 (74) - 130 (123) | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 41.7 | | 70 (17) - 130 (146) | 83% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 271000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 498000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 391000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 137000 | 13.346 | | | |

Raw Data: **VY022539.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0604SBL01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0604SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022539.D | 1 | | 06/04/25 10:24 | VY060425 |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0605SBL01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0605SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022561.D | 1 | | 06/05/25 09:11 | VY060525 |

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0605SBL01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0605SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022561.D | 1 | | 06/05/25 09:11 | VY060525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.65 | U | 0.65 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.62 | U | 0.62 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.92 | U | 0.92 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.70 | U | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.87 | U | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.88 | U | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.91 | U | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.20 | U | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 0.82 | U | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 0.71 | U | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.86 | U | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.20 | U | 1.20 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.70 | U | 1.70 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.60 | U | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.50 | U | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.80 | U | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.00 | U | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.20 | U | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 51.7 | | 70 (63) - 130 (155) | 103% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.3 | | 70 (70) - 130 (134) | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.6 | | 70 (74) - 130 (123) | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 40.7 | | 70 (17) - 130 (146) | 81% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 260000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 482000 | 8.609 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 383000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 134000 | 13.346 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0605SBL01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0605SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022561.D | 1 | | 06/05/25 09:11 | VY060525 |

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

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

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

Raw Data: **VX046436.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VX0602WBS01 | SDG No.: | Q2177 |
| Lab Sample ID: | VX0602WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046436.D | 1 | | 06/02/25 11:37 | VX060225 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 17.3 | | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 16.8 | | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 16.8 | | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 17.0 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 18.7 | | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 18.5 | | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 18.6 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 18.3 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 100 | | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 14.3 | | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 20.2 | | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 26.5 | | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 18.0 | | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 18.0 | | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 20.2 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 17.6 | | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 110 | | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 19.6 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 19.6 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 23.3 | | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 20.5 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 20.2 | | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 17.3 | | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 19.8 | | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 20.7 | | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 19.2 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 21.4 | | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 21.5 | | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 19.9 | | 0.14 | 1.00 | ug/L |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VX0602WBS01 | SDG No.: | Q2177 |
| Lab Sample ID: | VX0602WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046436.D | 1 | | 06/02/25 11:37 | VX060225 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 19.8 | | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.2 | | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 21.3 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 110 | | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 21.4 | | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 20.4 | | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 19.3 | | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 19.6 | | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 19.8 | | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 39.6 | | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 20.3 | | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 21.0 | | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 20.7 | | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 20.6 | | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 20.5 | | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 20.0 | | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 19.8 | | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 20.4 | | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 21.8 | | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 18.7 | | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.3 | | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.5 | | 70 (74) - 130 (125) | 99% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.6 | | 70 (75) - 130 (124) | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.2 | | 70 (86) - 130 (113) | 98% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.8 | | 70 (77) - 130 (121) | 100% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 88500 | 5.544 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 152000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 133000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 63000 | 12.018 | | | |

Raw Data: **VX046436.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VX0602WBS01 | SDG No.: | Q2177 |
| Lab Sample ID: | VX0602WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046436.D | 1 | | 06/02/25 11:37 | VX060225 |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0603SBS01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0603SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022513.D | 1 | | 06/03/25 11:15 | VY060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 22.1 | | 1.10 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 18.4 | | 1.10 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 20.8 | | 0.79 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 20.2 | | 1.10 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 21.3 | | 1.30 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 22.2 | | 1.20 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 21.2 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 21.2 | | 1.00 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 140 | | 4.70 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 20.8 | | 1.10 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 20.3 | | 0.73 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 20.6 | | 1.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 18.5 | | 3.50 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 20.6 | | 0.86 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 21.2 | | 0.80 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 20.2 | | 0.79 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 120 | | 6.50 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 20.2 | | 0.97 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 20.5 | | 0.75 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 21.3 | | 1.20 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 21.1 | | 0.84 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 21.2 | | 0.93 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 19.8 | | 0.91 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 20.7 | | 0.79 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 20.4 | | 0.79 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 21.3 | | 0.81 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 20.9 | | 0.91 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.8 | | 0.78 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 96.0 | | 3.60 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 20.1 | | 0.78 | 5.00 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0603SBS01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0603SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022513.D | 1 | | 06/03/25 11:15 | VY060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 19.7 | | 0.65 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.6 | | 0.62 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 20.2 | | 0.92 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 110 | | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 19.8 | | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 20.1 | | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 21.2 | | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 20.3 | | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 20.3 | | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 40.2 | | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 20.0 | | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 19.9 | | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 18.6 | | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 20.1 | | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 18.6 | | 1.20 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 19.4 | | 1.70 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 20.0 | | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 19.8 | | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 18.9 | | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 18.8 | | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 19.4 | | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.0 | | 70 (63) - 130 (155) | 100% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.0 | | 70 (70) - 130 (134) | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.5 | | 70 (74) - 130 (123) | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.0 | | 70 (17) - 130 (146) | 98% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 198000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 338000 | 8.615 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 284000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 132000 | 13.346 | | | |

Raw Data: **VY022513.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0603SBS01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0603SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022513.D | 1 | | 06/03/25 11:15 | VY060325 |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0604SBS01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0604SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022540.D | 1 | | 06/04/25 10:54 | VY060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 22.1 | | 1.10 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 18.8 | | 1.10 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 22.0 | | 0.79 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 21.2 | | 1.10 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 22.5 | | 1.30 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 23.5 | | 1.20 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 20.6 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 21.1 | | 1.00 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 87.2 | | 4.70 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 20.5 | | 1.10 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 20.2 | | 0.73 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 20.0 | | 1.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 19.1 | | 3.50 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 20.7 | | 0.86 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 21.2 | | 0.80 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 19.6 | | 0.79 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 93.6 | | 6.50 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 20.0 | | 0.97 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 21.2 | | 0.75 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 21.0 | | 1.20 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 21.1 | | 0.84 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 21.2 | | 0.93 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 20.0 | | 0.91 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 20.8 | | 0.79 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 20.1 | | 0.79 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 20.3 | | 0.81 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 21.1 | | 0.91 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.9 | | 0.78 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 93.5 | | 3.60 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 20.3 | | 0.78 | 5.00 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0604SBS01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0604SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022540.D | 1 | | 06/04/25 10:54 | VY060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 19.6 | | 0.65 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.3 | | 0.62 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 19.3 | | 0.92 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 91.6 | | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 19.7 | | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 20.5 | | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 20.9 | | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 20.4 | | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 19.7 | | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 38.9 | | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 19.8 | | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 19.4 | | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 18.6 | | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 19.8 | | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 18.6 | | 1.20 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 19.9 | | 1.70 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 20.0 | | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 20.0 | | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 19.5 | | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 21.1 | | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.5 | | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.9 | | 70 (63) - 130 (155) | 108% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.3 | | 70 (70) - 130 (134) | 107% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 53.4 | | 70 (74) - 130 (123) | 107% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.0 | | 70 (17) - 130 (146) | 104% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 177000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 307000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 260000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 120000 | 13.347 | | | |

Raw Data: **VY022540.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0604SBS01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0604SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022540.D | 1 | | 06/04/25 10:54 | VY060425 |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0605SBS01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0605SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022562.D | 1 | | 06/05/25 09:41 | VY060525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 21.6 | | 1.10 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 19.8 | | 1.10 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 24.1 | | 0.79 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 23.0 | | 1.10 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 24.2 | | 1.30 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 25.7 | | 1.20 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 21.0 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 21.2 | | 1.00 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 94.2 | | 4.70 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 20.7 | | 1.10 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 20.4 | | 0.73 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 19.1 | | 1.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 21.5 | | 3.50 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 21.1 | | 0.86 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 21.4 | | 0.80 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 20.0 | | 0.79 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 100 | | 6.50 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 20.7 | | 0.97 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 21.2 | | 0.75 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 20.0 | | 1.20 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 21.2 | | 0.84 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 21.0 | | 0.93 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 20.0 | | 0.91 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 20.9 | | 0.79 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 20.9 | | 0.79 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 20.6 | | 0.81 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 20.9 | | 0.91 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.8 | | 0.78 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 97.2 | | 3.60 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 20.5 | | 0.78 | 5.00 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0605SBS01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0605SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022562.D | 1 | | 06/05/25 09:41 | VY060525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 19.7 | | 0.65 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.4 | | 0.62 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 19.7 | | 0.92 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 95.8 | | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 20.1 | | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 20.1 | | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 20.4 | | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 20.8 | | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 20.2 | | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 39.9 | | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 20.1 | | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 19.8 | | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 19.9 | | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 20.9 | | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 20.6 | | 1.20 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 20.3 | | 1.70 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 20.2 | | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 19.7 | | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 18.2 | | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 19.4 | | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 19.0 | | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.7 | | 70 (63) - 130 (155) | 99% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.3 | | 70 (70) - 130 (134) | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.5 | | 70 (74) - 130 (123) | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 48.3 | | 70 (17) - 130 (146) | 97% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 186000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 320000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 265000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 121000 | 13.346 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0605SBS01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0605SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022562.D | 1 | | 06/05/25 09:41 | VY060525 |

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

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

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

Raw Data: **VX046437.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VX0602WBSD01 | SDG No.: | Q2177 |
| Lab Sample ID: | VX0602WBSD01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046437.D | 1 | | 06/02/25 12:04 | VX060225 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 17.2 | | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 16.9 | | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 16.6 | | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 17.2 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 18.3 | | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 18.1 | | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 19.2 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 18.0 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 100 | | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 14.0 | | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 20.9 | | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 27.2 | | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 18.8 | | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 18.4 | | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 20.2 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 17.6 | | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 110 | | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 19.3 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 19.9 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 23.6 | | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 20.8 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 19.7 | | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 17.2 | | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 19.7 | | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 20.8 | | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 19.3 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 20.9 | | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 20.8 | | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 19.9 | | 0.14 | 1.00 | ug/L |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VX0602WBSD01 | SDG No.: | Q2177 |
| Lab Sample ID: | VX0602WBSD01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046437.D | 1 | | 06/02/25 12:04 | VX060225 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 19.9 | | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.2 | | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 21.6 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 110 | | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 21.5 | | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 20.8 | | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 18.4 | | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 19.7 | | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 19.9 | | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 40.2 | | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 20.6 | | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 20.9 | | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 20.8 | | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 20.2 | | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 21.5 | | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 20.1 | | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 19.9 | | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 21.0 | | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 21.6 | | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 19.6 | | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.5 | | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.1 | | 70 (74) - 130 (125) | 100% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.7 | | 70 (75) - 130 (124) | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.3 | | 70 (86) - 130 (113) | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.9 | | 70 (77) - 130 (121) | 100% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 82800 | 5.544 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 146000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 127000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 61200 | 12.018 | | | |

Raw Data: **VX046437.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VX0602WBSD01 | SDG No.: | Q2177 |
| Lab Sample ID: | VX0602WBSD01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046437.D | 1 | | 06/02/25 12:04 | VX060225 |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0603SBSD01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0603SBSD01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022514.D | 1 | | 06/03/25 11:38 | VY060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 22.4 | | 1.10 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 22.2 | | 1.10 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 22.2 | | 0.79 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 21.2 | | 1.10 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 21.6 | | 1.30 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 21.2 | | 1.20 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 20.2 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 21.7 | | 1.00 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 120 | | 4.70 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 21.3 | | 1.10 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 20.5 | | 0.73 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 19.5 | | 1.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 19.3 | | 3.50 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 20.9 | | 0.86 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 21.1 | | 0.80 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 19.7 | | 0.79 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 110 | | 6.50 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 20.9 | | 0.97 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 21.4 | | 0.75 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 20.8 | | 1.20 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 21.6 | | 0.84 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 21.2 | | 0.93 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 20.3 | | 0.91 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 21.0 | | 0.79 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 21.0 | | 0.79 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 21.5 | | 0.81 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 20.7 | | 0.91 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 21.0 | | 0.78 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 96.9 | | 3.60 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 20.5 | | 0.78 | 5.00 | ug/Kg |

Raw Data: **VY022514.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0603SBSD01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0603SBSD01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022514.D | 1 | | 06/03/25 11:38 | VY060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 19.9 | | 0.65 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.5 | | 0.62 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 20.6 | | 0.92 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 98.4 | | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 20.2 | | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 20.0 | | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 21.3 | | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 21.1 | | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 20.8 | | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 41.3 | | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 20.7 | | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 20.6 | | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 19.9 | | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 21.1 | | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 20.0 | | 1.20 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 20.5 | | 1.70 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 20.7 | | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 20.9 | | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 19.4 | | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20.9 | | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.3 | | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.7 | | 70 (63) - 130 (155) | 101% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.5 | | 70 (70) - 130 (134) | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.6 | | 70 (74) - 130 (123) | 105% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.1 | | 70 (17) - 130 (146) | 100% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 196000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 334000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 277000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 127000 | 13.346 | | | |

Raw Data: **VY022514.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VY0603SBSD01 | SDG No.: | Q2177 |
| Lab Sample ID: | VY0603SBSD01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY022514.D | 1 | | 06/03/25 11:38 | VY060325 |

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

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

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

# CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

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

LAB FILE ID: RRF020 = VX046041.D RRF050 = VX046042.D RRF100 = VX046043.D
RRF150 = VX046044.D RRF005 = VX046046.D RRF001 = VX046047.D

| COMPOUND | RRF020 | RRF050 | RRF100 | RRF150 | RRF005 | RRF001 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.697 | 0.864 | 0.859 | 0.875 | 0.639 | 0.658 | 0.765 | 14.6 |
| Chloromethane | 0.727 | 0.775 | 0.787 | 0.791 | 0.679 | 0.694 | 0.742 | 6.6 |
| Vinyl Chloride | 0.660 | 0.710 | 0.727 | 0.755 | 0.619 | 0.673 | 0.691 | 7.2 |
| Bromomethane | 0.296 | 0.326 | 0.340 | 0.334 | 0.305 | | 0.320 | 5.8 |
| Chloroethane | 0.354 | 0.378 | 0.329 | 0.317 | 0.368 | 0.467 | 0.369 | 14.4 |
| Trichlorofluoromethane | 1.035 | 1.068 | 0.983 | 0.985 | 0.990 | 1.064 | 1.021 | 3.9 |
| 1,1,2-Trichlorotrifluoroethane | 0.628 | 0.641 | 0.629 | 0.648 | 0.610 | 0.633 | 0.632 | 2.1 |
| 1,1-Dichloroethene | 0.565 | 0.601 | 0.607 | 0.625 | 0.567 | 0.594 | 0.593 | 3.9 |
| Acetone | 0.361 | 0.362 | 0.361 | 0.370 | 0.408 | 0.380 | 0.374 | 4.9 |
| Carbon Disulfide | 1.295 | 1.455 | 1.522 | 1.597 | 1.141 | 1.423 | 1.406 | 11.7 |
| Methyl tert-butyl Ether | 2.044 | 2.160 | 2.172 | 2.239 | 1.908 | 1.949 | 2.079 | 6.4 |
| Methyl Acetate | 0.814 | 0.848 | 0.845 | 0.875 | 0.816 | 1.006 | 0.867 | 8.3 |
| Methylene Chloride | 0.689 | 0.684 | 0.691 | 0.691 | 0.689 | 0.853 | 0.716 | 9.4 |
| trans-1,2-Dichloroethene | 0.573 | 0.610 | 0.612 | 0.622 | 0.557 | 0.604 | 0.596 | 4.3 |
| 1,1-Dichloroethane | 1.233 | 1.263 | 1.263 | 1.286 | 1.154 | 1.116 | 1.219 | 5.6 |
| Cyclohexane | 1.090 | 1.128 | 1.128 | 1.150 | 1.059 | | 1.111 | 3.3 |
| 2-Butanone | 0.540 | 0.555 | 0.558 | 0.569 | 0.539 | 0.495 | 0.543 | 4.8 |
| Carbon Tetrachloride | 0.528 | 0.558 | 0.552 | 0.577 | 0.505 | 0.541 | 0.544 | 4.6 |
| cis-1,2-Dichloroethene | 0.716 | 0.737 | 0.738 | 0.755 | 0.642 | 0.719 | 0.718 | 5.5 |
| Bromochloromethane | 0.628 | 0.578 | 0.595 | 0.590 | 0.553 | 0.576 | 0.587 | 4.3 |
| Chloroform | 1.287 | 1.296 | 1.277 | 1.300 | 1.199 | 1.265 | 1.271 | 3 |
| 1,1,1-Trichloroethane | 1.106 | 1.131 | 1.155 | 1.188 | 1.013 | 1.015 | 1.101 | 6.6 |
| Methylcyclohexane | 0.596 | 0.641 | 0.627 | 0.658 | 0.587 | 0.627 | 0.623 | 4.3 |
| Benzene | 1.426 | 1.474 | 1.441 | 1.477 | 1.337 | 1.348 | 1.417 | 4.3 |
| 1,2-Dichloroethane | 0.632 | 0.627 | 0.611 | 0.625 | 0.594 | 0.579 | 0.612 | 3.5 |
| Trichloroethene | 0.344 | 0.355 | 0.345 | 0.362 | 0.315 | 0.324 | 0.341 | 5.3 |
| 1,2-Dichloropropane | 0.356 | 0.371 | 0.368 | 0.378 | 0.324 | 0.317 | 0.352 | 7.4 |
| Bromodichloromethane | 0.557 | 0.577 | 0.573 | 0.594 | 0.498 | 0.485 | 0.547 | 8.2 |
| 4-Methyl-2-Pentanone | 0.620 | 0.634 | 0.630 | 0.631 | 0.555 | 0.561 | 0.605 | 6 |
| Toluene | 0.884 | 0.898 | 0.885 | 0.904 | 0.838 | 0.803 | 0.869 | 4.5 |

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

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# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

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

LAB FILE ID: RRF020 = VX046041.D RRF050 = VX046042.D RRF100 = VX046043.D
RRF150 = VX046044.D RRF005 = VX046046.D RRF001 = VX046047.D

| COMPOUND | RRF020 | RRF050 | RRF100 | RRF150 | RRF005 | RRF001 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.468 | 0.528 | 0.555 | 0.591 | 0.406 | 0.371 | 0.487 | 17.9 |
| cis-1,3-Dichloropropene | 0.531 | 0.578 | 0.602 | 0.623 | 0.469 | 0.423 | 0.538 | 14.6 |
| 1,1,2-Trichloroethane | 0.349 | 0.354 | 0.351 | 0.356 | 0.337 | 0.308 | 0.343 | 5.3 |
| 2-Hexanone | 0.466 | 0.473 | 0.477 | 0.473 | 0.414 | 0.385 | 0.448 | 8.7 |
| Dibromochloromethane | 0.378 | 0.400 | 0.415 | 0.431 | 0.326 | 0.306 | 0.376 | 13.3 |
| 1,2-Dibromoethane | 0.359 | 0.373 | 0.368 | 0.381 | 0.333 | 0.322 | 0.356 | 6.5 |
| Tetrachloroethene | 0.390 | 0.375 | 0.345 | 0.344 | 0.323 | 0.347 | 0.354 | 6.8 |
| Chlorobenzene | 1.093 | 1.098 | 1.085 | 1.114 | 1.046 | 1.131 | 1.094 | 2.7 |
| Ethyl Benzene | 1.919 | 2.022 | 1.979 | 2.036 | 1.816 | 1.803 | 1.929 | 5.2 |
| m/p-Xylenes | 0.706 | 0.740 | 0.721 | 0.740 | 0.678 | 0.648 | 0.706 | 5.2 |
| o-Xylene | 0.688 | 0.727 | 0.706 | 0.726 | 0.639 | 0.642 | 0.688 | 5.7 |
| Styrene | 1.135 | 1.219 | 1.214 | 1.230 | 1.012 | 0.951 | 1.127 | 10.6 |
| Bromoform | 0.270 | 0.304 | 0.312 | 0.327 | 0.236 | 0.234 | 0.281 | 14.2 |
| Isopropylbenzene | 3.843 | 4.130 | 3.876 | 4.156 | 3.562 | 3.789 | 3.893 | 5.7 |
| 1,1,2,2-Tetrachloroethane | 1.315 | 1.338 | 1.284 | 1.345 | 1.350 | 1.552 | 1.364 | 7 |
| 1,3-Dichlorobenzene | 1.633 | 1.701 | 1.656 | 1.730 | 1.558 | 1.619 | 1.649 | 3.7 |
| 1,4-Dichlorobenzene | 1.629 | 1.693 | 1.639 | 1.722 | 1.606 | 1.817 | 1.684 | 4.6 |
| 1,2-Dichlorobenzene | 1.613 | 1.696 | 1.634 | 1.702 | 1.577 | 1.710 | 1.655 | 3.3 |
| 1,2-Dibromo-3-Chloropropane | 0.299 | 0.322 | 0.329 | 0.356 | 0.248 | 0.259 | 0.302 | 13.9 |
| 1,2,4-Trichlorobenzene | 0.861 | 0.981 | 1.035 | 1.123 | 0.842 | 0.862 | 0.951 | 12 |
| 1,2,3-Trichlorobenzene | 0.921 | 1.019 | 1.051 | 1.107 | 0.846 | 0.941 | 0.981 | 9.7 |
| 1,2-Dichloroethane-d4 | 0.953 | 0.910 | 0.930 | 0.932 | 0.935 | | 0.932 | 1.6 |
| Dibromofluoromethane | 0.359 | 0.355 | 0.364 | 0.368 | 0.354 | | 0.360 | 1.7 |
| Toluene-d8 | 1.246 | 1.223 | 1.266 | 1.275 | 1.221 | | 1.246 | 2 |
| 4-Bromofluorobenzene | 0.455 | 0.470 | 0.500 | 0.500 | 0.464 | | 0.478 | 4.4 |

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

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# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: MSVOA_Y Calibration Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Calibration Time(s): 11:46 13:39

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

LAB FILE ID: RRF005 = VY022491.D RRF010 = VY022492.D RRF020 = VY022493.D
RRF050 = VY022494.D RRF100 = VY022495.D RRF150 = VY022496.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.433 | 0.542 | 0.495 | 0.413 | 0.397 | 0.405 | 0.448 | 13 |
| Chloromethane | 1.320 | 1.590 | 1.431 | 1.230 | 1.178 | 1.185 | 1.322 | 12.3 |
| Vinyl Chloride | 1.371 | 1.814 | 1.647 | 1.497 | 1.444 | 1.432 | 1.534 | 10.8 |
| Bromomethane | 1.365 | 1.735 | 1.705 | 1.240 | 1.341 | 1.436 | 1.470 | 13.8 |
| Chloroethane | 0.973 | 1.278 | 1.198 | 0.965 | 0.941 | 0.964 | 1.053 | 13.8 |
| Trichlorofluoromethane | 1.135 | 1.492 | 1.430 | 1.224 | 1.223 | 1.310 | 1.302 | 10.5 |
| 1,1,2-Trichlorotrifluoroethane | 0.510 | 0.615 | 0.572 | 0.538 | 0.522 | 0.534 | 0.549 | 7.1 |
| 1,1-Dichloroethene | 0.469 | 0.577 | 0.549 | 0.518 | 0.510 | 0.523 | 0.524 | 7 |
| Acetone | 0.130 | 0.119 | 0.120 | 0.116 | 0.105 | 0.092 | 0.114 | 11.6 |
| Carbon Disulfide | 1.503 | 1.870 | 1.731 | 1.664 | 1.638 | 1.666 | 1.679 | 7.2 |
| Methyl tert-butyl Ether | 1.307 | 1.618 | 1.571 | 1.470 | 1.435 | 1.462 | 1.477 | 7.4 |
| Methyl Acetate | 0.280 | 0.408 | 0.396 | 0.333 | 0.301 | 0.301 | 0.336 | 15.9 |
| Methylene Chloride | 0.861 | 0.700 | 0.637 | 0.574 | 0.548 | 0.550 | 0.645 | 18.7 |
| trans-1,2-Dichloroethene | 0.522 | 0.651 | 0.612 | 0.571 | 0.574 | 0.592 | 0.587 | 7.4 |
| 1,1-Dichloroethane | 0.968 | 1.193 | 1.124 | 1.060 | 1.051 | 1.080 | 1.079 | 7 |
| Cyclohexane | 1.168 | 1.208 | 1.098 | 1.015 | 0.970 | 0.988 | 1.075 | 9.2 |
| 2-Butanone | 0.143 | 0.174 | 0.178 | 0.168 | 0.163 | 0.157 | 0.164 | 7.6 |
| Carbon Tetrachloride | 0.415 | 0.516 | 0.497 | 0.508 | 0.508 | 0.537 | 0.497 | 8.5 |
| cis-1,2-Dichloroethene | 0.592 | 0.731 | 0.706 | 0.682 | 0.668 | 0.691 | 0.678 | 7 |
| Bromochloromethane | 0.470 | 0.477 | 0.479 | 0.454 | 0.469 | 0.474 | 0.471 | 1.9 |
| Chloroform | 0.960 | 1.183 | 1.109 | 1.058 | 1.043 | 1.062 | 1.069 | 6.9 |
| 1,1,1-Trichloroethane | 0.819 | 1.029 | 0.970 | 0.948 | 0.951 | 0.977 | 0.949 | 7.4 |
| Methylcyclohexane | 0.568 | 0.674 | 0.645 | 0.657 | 0.664 | 0.698 | 0.651 | 6.9 |
| Benzene | 1.213 | 1.487 | 1.473 | 1.441 | 1.452 | 1.518 | 1.431 | 7.7 |
| 1,2-Dichloroethane | 0.320 | 0.424 | 0.413 | 0.390 | 0.395 | 0.401 | 0.391 | 9.4 |
| Trichloroethene | 0.294 | 0.388 | 0.353 | 0.355 | 0.350 | 0.358 | 0.350 | 8.7 |
| 1,2-Dichloropropane | 0.274 | 0.364 | 0.354 | 0.344 | 0.344 | 0.349 | 0.338 | 9.6 |
| Bromodichloromethane | 0.380 | 0.525 | 0.499 | 0.491 | 0.491 | 0.508 | 0.482 | 10.7 |
| 4-Methyl-2-Pentanone | 0.175 | 0.242 | 0.246 | 0.243 | 0.244 | 0.246 | 0.233 | 12.1 |
| Toluene | 0.732 | 0.932 | 0.904 | 0.903 | 0.933 | 0.990 | 0.899 | 9.8 |

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

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# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: MSVOA_Y Calibration Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Calibration Time(s): 11:46 13:39

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

LAB FILE ID: RRF005 = VY022491.D RRF010 = VY022492.D RRF020 = VY022493.D
RRF050 = VY022494.D RRF100 = VY022495.D RRF150 = VY022496.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.350 | 0.468 | 0.476 | 0.461 | 0.468 | 0.487 | 0.452 | 11.2 |
| cis-1,3-Dichloropropene | 0.423 | 0.549 | 0.545 | 0.537 | 0.544 | 0.558 | 0.526 | 9.7 |
| 1,1,2-Trichloroethane | 0.207 | 0.257 | 0.258 | 0.242 | 0.243 | 0.249 | 0.243 | 7.7 |
| 2-Hexanone | 0.120 | 0.158 | 0.166 | 0.162 | 0.165 | 0.162 | 0.156 | 11.3 |
| Dibromochloromethane | 0.248 | 0.320 | 0.325 | 0.314 | 0.319 | 0.323 | 0.308 | 9.6 |
| 1,2-Dibromoethane | 0.174 | 0.236 | 0.239 | 0.223 | 0.225 | 0.230 | 0.221 | 10.9 |
| Tetrachloroethene | 0.375 | 0.474 | 0.448 | 0.437 | 0.416 | 0.432 | 0.430 | 7.7 |
| Chlorobenzene | 0.949 | 1.170 | 1.102 | 1.116 | 1.120 | 1.182 | 1.106 | 7.5 |
| Ethyl Benzene | 1.655 | 2.090 | 2.006 | 2.083 | 2.148 | 2.332 | 2.052 | 10.9 |
| m/p-Xylenes | 0.616 | 0.780 | 0.765 | 0.785 | 0.822 | 0.899 | 0.778 | 11.9 |
| o-Xylene | 0.583 | 0.749 | 0.721 | 0.734 | 0.764 | 0.826 | 0.729 | 11 |
| Styrene | 0.909 | 1.195 | 1.189 | 1.233 | 1.291 | 1.417 | 1.206 | 13.9 |
| Bromoform | 0.161 | 0.209 | 0.200 | 0.201 | 0.206 | 0.214 | 0.198 | 9.7 |
| Isopropylbenzene | 3.470 | 4.308 | 4.090 | 4.136 | 4.167 | 4.460 | 4.105 | 8.3 |
| 1,1,2,2-Tetrachloroethane | 0.570 | 0.738 | 0.692 | 0.682 | 0.671 | 0.689 | 0.674 | 8.3 |
| 1,3-Dichlorobenzene | 1.514 | 1.783 | 1.730 | 1.733 | 1.809 | 1.963 | 1.755 | 8.3 |
| 1,4-Dichlorobenzene | 1.508 | 1.814 | 1.733 | 1.701 | 1.677 | 1.781 | 1.702 | 6.3 |
| 1,2-Dichlorobenzene | 1.246 | 1.582 | 1.547 | 1.512 | 1.490 | 1.564 | 1.490 | 8.3 |
| 1,2-Dibromo-3-Chloropropane | 0.074 | 0.110 | 0.103 | 0.105 | 0.098 | 0.099 | 0.098 | 12.7 |
| 1,2,4-Trichlorobenzene | 0.667 | 0.863 | 0.812 | 0.817 | 0.851 | 0.865 | 0.813 | 9.2 |
| 1,2,3-Trichlorobenzene | 0.622 | 0.721 | 0.712 | 0.699 | 0.710 | 0.714 | 0.697 | 5.3 |
| 1,2-Dichloroethane-d4 | 0.523 | 0.574 | 0.556 | 0.591 | 0.552 | 0.559 | 0.559 | 4.1 |
| Dibromofluoromethane | 0.264 | 0.283 | 0.301 | 0.321 | 0.307 | 0.315 | 0.298 | 7.2 |
| Toluene-d8 | 1.067 | 1.181 | 1.158 | 1.279 | 1.253 | 1.298 | 1.206 | 7.2 |
| 4-Bromofluorobenzene | 0.339 | 0.339 | 0.347 | 0.372 | 0.373 | 0.386 | 0.359 | 5.6 |

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

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# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: MSVOA_X Calibration Date/Time: 06/02/2025 10:21

Lab File ID: VX046433.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.765 | 0.849 | | 10.98 | 20 |
| Chloromethane | 0.742 | 0.817 | 0.1 | 10.11 | 20 |
| Vinyl Chloride | 0.691 | 0.734 | | 6.22 | 20 |
| Bromomethane | 0.320 | 0.335 | | 4.69 | 20 |
| Chloroethane | 0.369 | 0.412 | | 11.65 | 20 |
| Trichlorofluoromethane | 1.021 | 1.136 | | 11.26 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.632 | 0.722 | | 14.24 | 20 |
| 1,1-Dichloroethene | 0.593 | 0.650 | | 9.61 | 20 |
| Acetone | 0.374 | 0.439 | | 17.38 | 20 |
| Carbon Disulfide | 1.406 | 1.520 | | 8.11 | 20 |
| Methyl tert-butyl Ether | 2.079 | 2.353 | | 13.18 | 20 |
| Methyl Acetate | 0.867 | 1.189 | | 37.14 | 20 |
| Methylene Chloride | 0.716 | 0.757 | | 5.73 | 20 |
| trans-1,2-Dichloroethene | 0.596 | 0.645 | | 8.22 | 20 |
| 1,1-Dichloroethane | 1.219 | 1.379 | 0.1 | 13.13 | 20 |
| Cyclohexane | 1.111 | 1.177 | | 5.94 | 20 |
| 2-Butanone | 0.543 | 0.604 | | 11.23 | 20 |
| Carbon Tetrachloride | 0.544 | 0.625 | | 14.89 | 20 |
| cis-1,2-Dichloroethene | 0.718 | 0.805 | | 12.12 | 20 |
| Bromochloromethane | 0.587 | 0.610 | | 3.92 | 20 |
| Chloroform | 1.271 | 1.419 | | 11.64 | 20 |
| 1,1,1-Trichloroethane | 1.101 | 1.237 | | 12.35 | 20 |
| Methylcyclohexane | 0.623 | 0.681 | | 9.31 | 20 |
| Benzene | 1.417 | 1.575 | | 11.15 | 20 |
| 1,2-Dichloroethane | 0.612 | 0.699 | | 14.22 | 20 |
| Trichloroethene | 0.341 | 0.385 | | 12.9 | 20 |
| 1,2-Dichloropropane | 0.352 | 0.411 | | 16.76 | 20 |
| Bromodichloromethane | 0.547 | 0.648 | | 18.46 | 20 |
| 4-Methyl-2-Pentanone | 0.605 | 0.682 | | 12.73 | 20 |
| Toluene | 0.869 | 0.958 | | 10.24 | 20 |
| t-1,3-Dichloropropene | 0.487 | 0.591 | | 21.35 | 20 |
| cis-1,3-Dichloropropene | 0.538 | 0.646 | | 20.07 | 20 |
| 1,1,2-Trichloroethane | 0.343 | 0.382 | | 11.37 | 20 |
| 2-Hexanone | 0.448 | 0.509 | | 13.62 | 20 |
| Dibromochloromethane | 0.376 | 0.460 | | 22.34 | 20 |
| 1,2-Dibromoethane | 0.356 | 0.395 | | 10.95 | 20 |
| Tetrachloroethene | 0.354 | 0.389 | | 9.89 | 20 |
| Chlorobenzene | 1.094 | 1.197 | 0.3 | 9.41 | 20 |

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

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: MSVOA_X Calibration Date/Time: 06/02/2025 10:21

Lab File ID: VX046433.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.929 | 2.190 | | 13.53 | 20 |
| m/p-Xylenes | 0.706 | 0.792 | | 12.18 | 20 |
| o-Xylene | 0.688 | 0.779 | | 13.23 | 20 |
| Styrene | 1.127 | 1.328 | | 17.83 | 20 |
| Bromoform | 0.281 | 0.340 | 0.1 | 21 | 20 |
| Isopropylbenzene | 3.893 | 4.366 | | 12.15 | 20 |
| 1,1,2,2-Tetrachloroethane | 1.364 | 1.417 | 0.3 | 3.89 | 20 |
| 1,3-Dichlorobenzene | 1.649 | 1.823 | | 10.55 | 20 |
| 1,4-Dichlorobenzene | 1.684 | 1.827 | | 8.49 | 20 |
| 1,2-Dichlorobenzene | 1.655 | 1.818 | | 9.85 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.302 | 0.337 | | 11.59 | 20 |
| 1,2,4-Trichlorobenzene | 0.951 | 1.078 | | 13.35 | 20 |
| 1,2,3-Trichlorobenzene | 0.981 | 1.103 | | 12.44 | 20 |
| 1,2-Dichloroethane-d4 | 0.932 | 0.936 | | 0.43 | 20 |
| Dibromofluoromethane | 0.360 | 0.394 | | 9.44 | 20 |
| Toluene-d8 | 1.246 | 1.254 | | 0.64 | 20 |
| 4-Bromofluorobenzene | 0.478 | 0.507 | | 6.07 | 20 |

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

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# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

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

Lab File ID: VY022511.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.448 | 0.404 | | -9.82 | 20 |
| Chloromethane | 1.322 | 1.316 | 0.1 | -0.45 | 20 |
| Vinyl Chloride | 1.534 | 1.560 | | 1.7 | 20 |
| Bromomethane | 1.470 | 1.393 | | -5.24 | 20 |
| Chloroethane | 1.053 | 1.102 | | 4.65 | 20 |
| Trichlorofluoromethane | 1.302 | 1.272 | | -2.3 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.549 | 0.523 | | -4.74 | 20 |
| 1,1-Dichloroethene | 0.524 | 0.513 | | -2.1 | 20 |
| Acetone | 0.114 | 0.097 | | -14.91 | 20 |
| Carbon Disulfide | 1.679 | 1.680 | | 0.06 | 20 |
| Methyl tert-butyl Ether | 1.477 | 1.494 | | 1.15 | 20 |
| Methyl Acetate | 0.336 | 0.372 | | 10.71 | 20 |
| Methylene Chloride | 0.645 | 0.579 | | -10.23 | 20 |
| trans-1,2-Dichloroethene | 0.587 | 0.598 | | 1.87 | 20 |
| 1,1-Dichloroethane | 1.079 | 1.105 | 0.1 | 2.41 | 20 |
| Cyclohexane | 1.075 | 0.985 | | -8.37 | 20 |
| 2-Butanone | 0.164 | 0.160 | | -2.44 | 20 |
| Carbon Tetrachloride | 0.497 | 0.487 | | -2.01 | 20 |
| cis-1,2-Dichloroethene | 0.678 | 0.701 | | 3.39 | 20 |
| Bromochloromethane | 0.471 | 0.559 | | 18.68 | 20 |
| Chloroform | 1.069 | 1.105 | | 3.37 | 20 |
| 1,1,1-Trichloroethane | 0.949 | 0.968 | | 2 | 20 |
| Methylcyclohexane | 0.651 | 0.616 | | -5.38 | 20 |
| Benzene | 1.431 | 1.436 | | 0.35 | 20 |
| 1,2-Dichloroethane | 0.391 | 0.395 | | 1.02 | 20 |
| Trichloroethene | 0.350 | 0.343 | | -2 | 20 |
| 1,2-Dichloropropane | 0.338 | 0.343 | | 1.48 | 20 |
| Bromodichloromethane | 0.482 | 0.494 | | 2.49 | 20 |
| 4-Methyl-2-Pentanone | 0.233 | 0.236 | | 1.29 | 20 |
| Toluene | 0.899 | 0.901 | | 0.22 | 20 |
| t-1,3-Dichloropropene | 0.452 | 0.460 | | 1.77 | 20 |
| cis-1,3-Dichloropropene | 0.526 | 0.531 | | 0.95 | 20 |
| 1,1,2-Trichloroethane | 0.243 | 0.243 | | 0 | 20 |
| 2-Hexanone | 0.156 | 0.155 | | -0.64 | 20 |
| Dibromochloromethane | 0.308 | 0.312 | | 1.3 | 20 |
| 1,2-Dibromoethane | 0.221 | 0.225 | | 1.81 | 20 |
| Tetrachloroethene | 0.430 | 0.422 | | -1.86 | 20 |
| Chlorobenzene | 1.106 | 1.118 | 0.3 | 1.09 | 20 |

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

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Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

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

Lab File ID: VY022511.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 2.052 | 2.059 | | 0.34 | 20 |
| m/p-Xylenes | 0.778 | 0.765 | | -1.67 | 20 |
| o-Xylene | 0.729 | 0.713 | | -2.19 | 20 |
| Styrene | 1.206 | 1.220 | | 1.16 | 20 |
| Bromoform | 0.198 | 0.195 | 0.1 | -1.51 | 20 |
| Isopropylbenzene | 4.105 | 4.015 | | -2.19 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.674 | 0.669 | 0.3 | -0.74 | 20 |
| 1,3-Dichlorobenzene | 1.755 | 1.733 | | -1.25 | 20 |
| 1,4-Dichlorobenzene | 1.702 | 1.659 | | -2.53 | 20 |
| 1,2-Dichlorobenzene | 1.490 | 1.467 | | -1.54 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.098 | 0.103 | | 5.1 | 20 |
| 1,2,4-Trichlorobenzene | 0.813 | 0.835 | | 2.71 | 20 |
| 1,2,3-Trichlorobenzene | 0.697 | 0.701 | | 0.57 | 20 |
| 1,2-Dichloroethane-d4 | 0.559 | 0.576 | | 3.04 | 20 |
| Dibromofluoromethane | 0.298 | 0.300 | | 0.67 | 20 |
| Toluene-d8 | 1.206 | 1.224 | | 1.49 | 20 |
| 4-Bromofluorobenzene | 0.359 | 0.354 | | -1.39 | 20 |

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

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# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: MSVOA_Y Calibration Date/Time: 06/04/2025 09:54

Lab File ID: VY022538.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.448 | 0.401 | | -10.49 | 20 |
| Chloromethane | 1.322 | 1.094 | 0.1 | -17.25 | 20 |
| Vinyl Chloride | 1.534 | 1.535 | | 0.06 | 20 |
| Bromomethane | 1.470 | 1.232 | | -16.19 | 20 |
| Chloroethane | 1.053 | 1.084 | | 2.94 | 20 |
| Trichlorofluoromethane | 1.302 | 1.341 | | 2.99 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.549 | 0.534 | | -2.73 | 20 |
| 1,1-Dichloroethene | 0.524 | 0.523 | | -0.19 | 20 |
| Acetone | 0.114 | 0.125 | | 9.65 | 20 |
| Carbon Disulfide | 1.679 | 1.625 | | -3.22 | 20 |
| Methyl tert-butyl Ether | 1.477 | 1.427 | | -3.38 | 20 |
| Methyl Acetate | 0.336 | 0.345 | | 2.68 | 20 |
| Methylene Chloride | 0.645 | 0.567 | | -12.09 | 20 |
| trans-1,2-Dichloroethene | 0.587 | 0.588 | | 0.17 | 20 |
| 1,1-Dichloroethane | 1.079 | 1.106 | 0.1 | 2.5 | 20 |
| Cyclohexane | 1.075 | 0.988 | | -8.09 | 20 |
| 2-Butanone | 0.164 | 0.164 | | 0 | 20 |
| Carbon Tetrachloride | 0.497 | 0.494 | | -0.6 | 20 |
| cis-1,2-Dichloroethene | 0.678 | 0.692 | | 2.07 | 20 |
| Bromochloromethane | 0.471 | 0.467 | | -0.85 | 20 |
| Chloroform | 1.069 | 1.094 | | 2.34 | 20 |
| 1,1,1-Trichloroethane | 0.949 | 0.960 | | 1.16 | 20 |
| Methylcyclohexane | 0.651 | 0.621 | | -4.61 | 20 |
| Benzene | 1.431 | 1.453 | | 1.54 | 20 |
| 1,2-Dichloroethane | 0.391 | 0.386 | | -1.28 | 20 |
| Trichloroethene | 0.350 | 0.358 | | 2.29 | 20 |
| 1,2-Dichloropropane | 0.338 | 0.339 | | 0.3 | 20 |
| Bromodichloromethane | 0.482 | 0.487 | | 1.04 | 20 |
| 4-Methyl-2-Pentanone | 0.233 | 0.221 | | -5.15 | 20 |
| Toluene | 0.899 | 0.907 | | 0.89 | 20 |
| t-1,3-Dichloropropene | 0.452 | 0.445 | | -1.55 | 20 |
| cis-1,3-Dichloropropene | 0.526 | 0.527 | | 0.19 | 20 |
| 1,1,2-Trichloroethane | 0.243 | 0.235 | | -3.29 | 20 |
| 2-Hexanone | 0.156 | 0.154 | | -1.28 | 20 |
| Dibromochloromethane | 0.308 | 0.299 | | -2.92 | 20 |
| 1,2-Dibromoethane | 0.221 | 0.214 | | -3.17 | 20 |
| Tetrachloroethene | 0.430 | 0.438 | | 1.86 | 20 |
| Chlorobenzene | 1.106 | 1.123 | 0.3 | 1.54 | 20 |

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

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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: MSVOA_Y Calibration Date/Time: 06/04/2025 09:54

Lab File ID: VY022538.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 2.052 | 2.102 | | 2.44 | 20 |
| m/p-Xylenes | 0.778 | 0.788 | | 1.28 | 20 |
| o-Xylene | 0.729 | 0.739 | | 1.37 | 20 |
| Styrene | 1.206 | 1.238 | | 2.65 | 20 |
| Bromoform | 0.198 | 0.190 | 0.1 | -4.04 | 20 |
| Isopropylbenzene | 4.105 | 4.139 | | 0.83 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.674 | 0.637 | 0.3 | -5.49 | 20 |
| 1,3-Dichlorobenzene | 1.755 | 1.760 | | 0.28 | 20 |
| 1,4-Dichlorobenzene | 1.702 | 1.707 | | 0.29 | 20 |
| 1,2-Dichlorobenzene | 1.490 | 1.481 | | -0.6 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.098 | 0.092 | | -6.12 | 20 |
| 1,2,4-Trichlorobenzene | 0.813 | 0.814 | | 0.12 | 20 |
| 1,2,3-Trichlorobenzene | 0.697 | 0.680 | | -2.44 | 20 |
| 1,2-Dichloroethane-d4 | 0.559 | 0.563 | | 0.72 | 20 |
| Dibromofluoromethane | 0.298 | 0.309 | | 3.69 | 20 |
| Toluene-d8 | 1.206 | 1.268 | | 5.14 | 20 |
| 4-Bromofluorobenzene | 0.359 | 0.368 | | 2.51 | 20 |

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

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# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: MSVOA_Y Calibration Date/Time: 06/05/2025 08:40

Lab File ID: VY022560.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.448 | 0.407 | | -9.15 | 20 |
| Chloromethane | 1.322 | 1.167 | 0.1 | -11.73 | 20 |
| Vinyl Chloride | 1.534 | 1.704 | | 11.08 | 20 |
| Bromomethane | 1.470 | 1.259 | | -14.35 | 20 |
| Chloroethane | 1.053 | 1.178 | | 11.87 | 20 |
| Trichlorofluoromethane | 1.302 | 1.466 | | 12.6 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.549 | 0.546 | | -0.55 | 20 |
| 1,1-Dichloroethene | 0.524 | 0.529 | | 0.95 | 20 |
| Acetone | 0.114 | 0.119 | | 4.39 | 20 |
| Carbon Disulfide | 1.679 | 1.678 | | -0.06 | 20 |
| Methyl tert-butyl Ether | 1.477 | 1.489 | | 0.81 | 20 |
| Methyl Acetate | 0.336 | 0.321 | | -4.46 | 20 |
| Methylene Chloride | 0.645 | 0.623 | | -3.41 | 20 |
| trans-1,2-Dichloroethene | 0.587 | 0.597 | | 1.7 | 20 |
| 1,1-Dichloroethane | 1.079 | 1.131 | 0.1 | 4.82 | 20 |
| Cyclohexane | 1.075 | 1.015 | | -5.58 | 20 |
| 2-Butanone | 0.164 | 0.168 | | 2.44 | 20 |
| Carbon Tetrachloride | 0.497 | 0.510 | | 2.62 | 20 |
| cis-1,2-Dichloroethene | 0.678 | 0.708 | | 4.43 | 20 |
| Bromochloromethane | 0.471 | 0.484 | | 2.76 | 20 |
| Chloroform | 1.069 | 1.129 | | 5.61 | 20 |
| 1,1,1-Trichloroethane | 0.949 | 1.003 | | 5.69 | 20 |
| Methylcyclohexane | 0.651 | 0.658 | | 1.08 | 20 |
| Benzene | 1.431 | 1.500 | | 4.82 | 20 |
| 1,2-Dichloroethane | 0.391 | 0.402 | | 2.81 | 20 |
| Trichloroethene | 0.350 | 0.367 | | 4.86 | 20 |
| 1,2-Dichloropropane | 0.338 | 0.353 | | 4.44 | 20 |
| Bromodichloromethane | 0.482 | 0.512 | | 6.22 | 20 |
| 4-Methyl-2-Pentanone | 0.233 | 0.240 | | 3 | 20 |
| Toluene | 0.899 | 0.944 | | 5.01 | 20 |
| t-1,3-Dichloropropene | 0.452 | 0.472 | | 4.43 | 20 |
| cis-1,3-Dichloropropene | 0.526 | 0.554 | | 5.32 | 20 |
| 1,1,2-Trichloroethane | 0.243 | 0.250 | | 2.88 | 20 |
| 2-Hexanone | 0.156 | 0.159 | | 1.92 | 20 |
| Dibromochloromethane | 0.308 | 0.322 | | 4.55 | 20 |
| 1,2-Dibromoethane | 0.221 | 0.225 | | 1.81 | 20 |
| Tetrachloroethene | 0.430 | 0.480 | | 11.63 | 20 |
| Chlorobenzene | 1.106 | 1.148 | 0.3 | 3.8 | 20 |

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

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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: MSVOA_Y Calibration Date/Time: 06/05/2025 08:40

Lab File ID: VY022560.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 2.052 | 2.148 | | 4.68 | 20 |
| m/p-Xylenes | 0.778 | 0.814 | | 4.63 | 20 |
| o-Xylene | 0.729 | 0.760 | | 4.25 | 20 |
| Styrene | 1.206 | 1.279 | | 6.05 | 20 |
| Bromoform | 0.198 | 0.198 | 0.1 | 0 | 20 |
| Isopropylbenzene | 4.105 | 4.258 | | 3.73 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.674 | 0.657 | 0.3 | -2.52 | 20 |
| 1,3-Dichlorobenzene | 1.755 | 1.819 | | 3.65 | 20 |
| 1,4-Dichlorobenzene | 1.702 | 1.768 | | 3.88 | 20 |
| 1,2-Dichlorobenzene | 1.490 | 1.543 | | 3.56 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.098 | 0.104 | | 6.12 | 20 |
| 1,2,4-Trichlorobenzene | 0.813 | 0.903 | | 11.07 | 20 |
| 1,2,3-Trichlorobenzene | 0.697 | 0.752 | | 7.89 | 20 |
| 1,2-Dichloroethane-d4 | 0.559 | 0.564 | | 0.89 | 20 |
| Dibromofluoromethane | 0.298 | 0.302 | | 1.34 | 20 |
| Toluene-d8 | 1.206 | 1.228 | | 1.82 | 20 |
| 4-Bromofluorobenzene | 0.359 | 0.364 | | 1.39 | 20 |

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

# SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022534.D
Acq On : 03 Jun 2025 19:42
Operator : SY/MD
Sample : Q2177-01
Misc : 2.56g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB00

Quant Time: Jun 04 04:18:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 249503 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 446768 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 313918 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 80935 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 134811 | 48.310 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 96.620% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 137946 | 51.730 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 103.460% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 524997 | 48.723 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 97.440% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 98946 | 30.820 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 61.640% | | | |

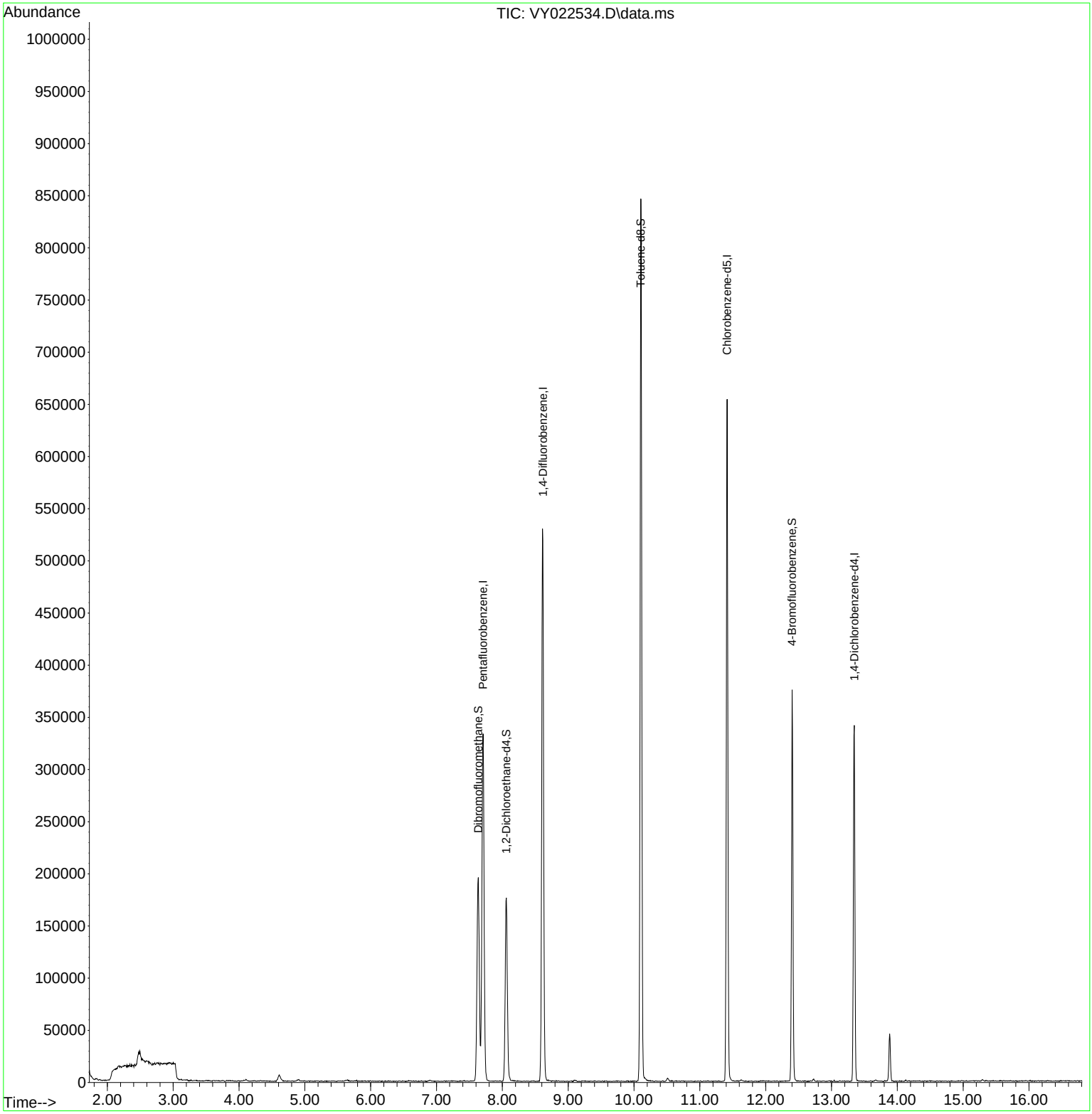
Target Compounds Qvalue

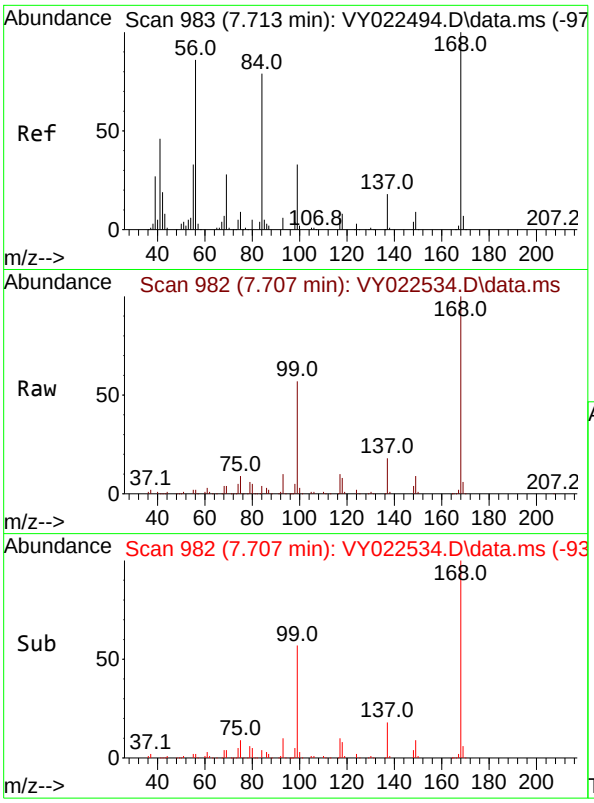
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022534.D
Acq On : 03 Jun 2025 19:42
Operator : SY/MD
Sample : Q2177-01
Misc : 2.56g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB00

Quant Time: Jun 04 04:18:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration



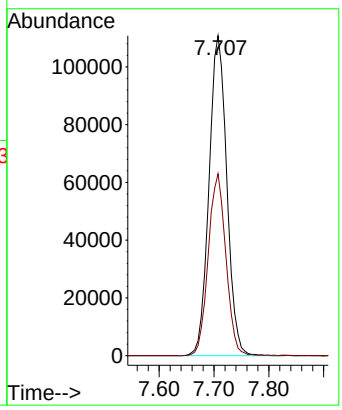


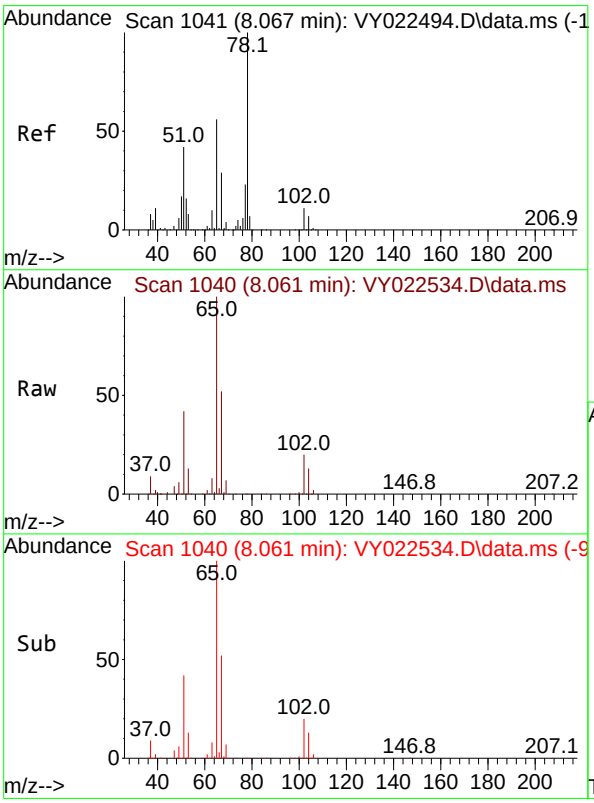

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022534.D
Acq: 03 Jun 2025 19:42

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB00

Tgt Ion:168 Resp: 249503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.9 | 44.3 | 66.5 |

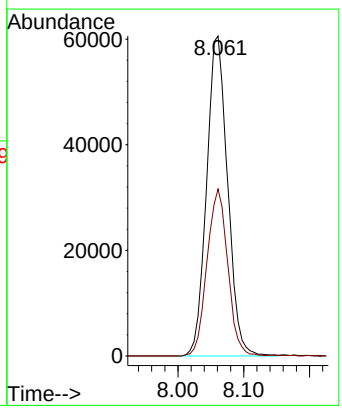


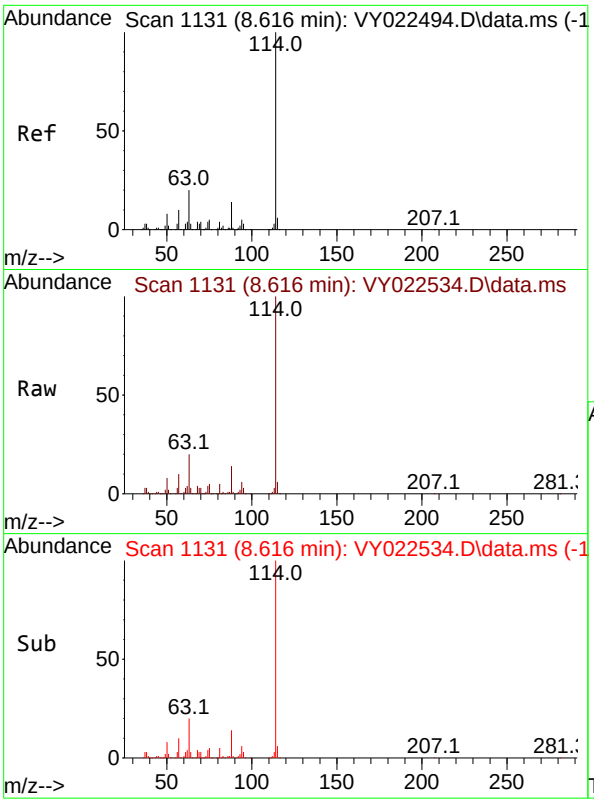




#33
1,2-Dichloroethane-d4
Concen: 48.310 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022534.D
Acq: 03 Jun 2025 19:42

Tgt Ion: 65 Resp: 134811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.4 | 0.0 | 103.4 |



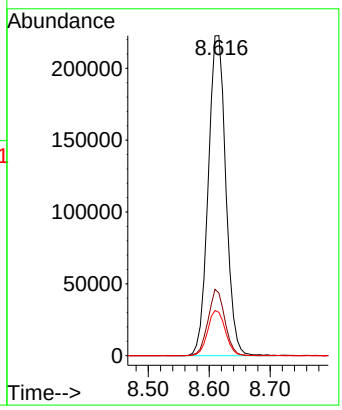


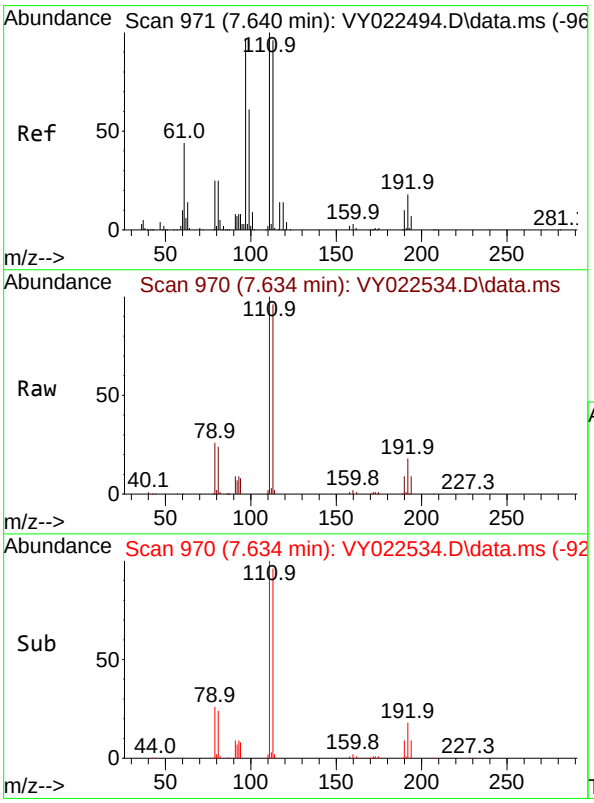

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022534.D
Acq: 03 Jun 2025 19:42

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB00

Tgt Ion:114 Resp: 446768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.6 | 0.0 | 40.8 |
| 88 | 13.6 | 0.0 | 27.8 |

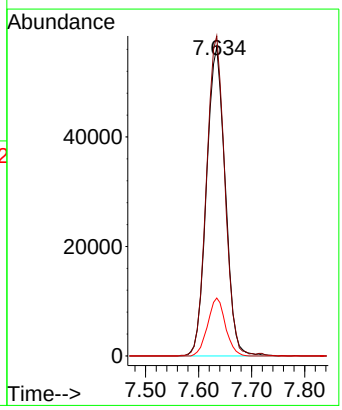


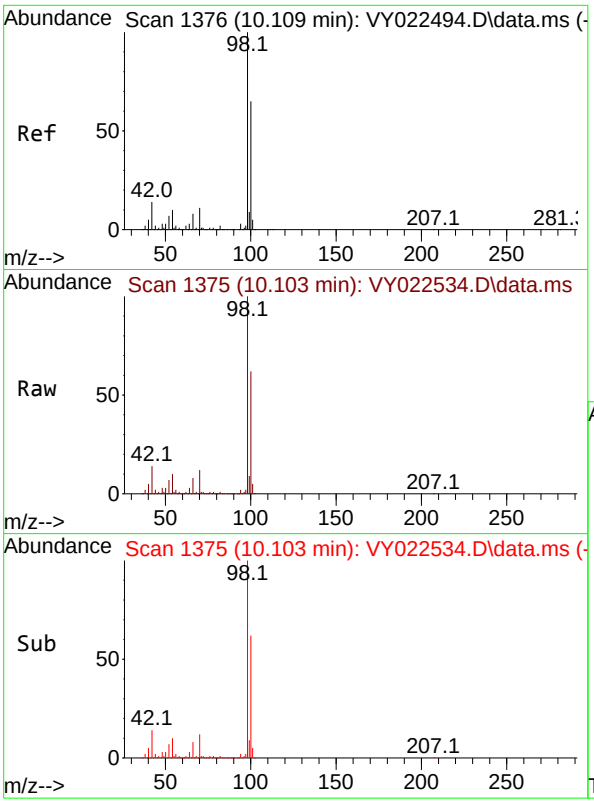




#35
Dibromofluoromethane
Concen: 51.730 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022534.D
Acq: 03 Jun 2025 19:42

Tgt Ion:113 Resp: 137946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.7 | 81.1 | 121.7 |
| 192 | 17.9 | 14.2 | 21.2 |



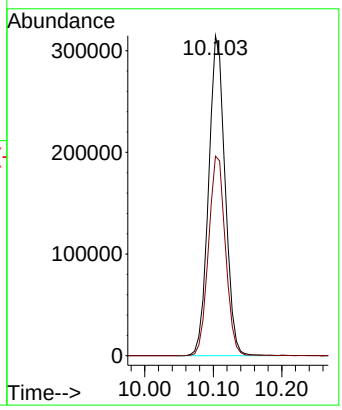


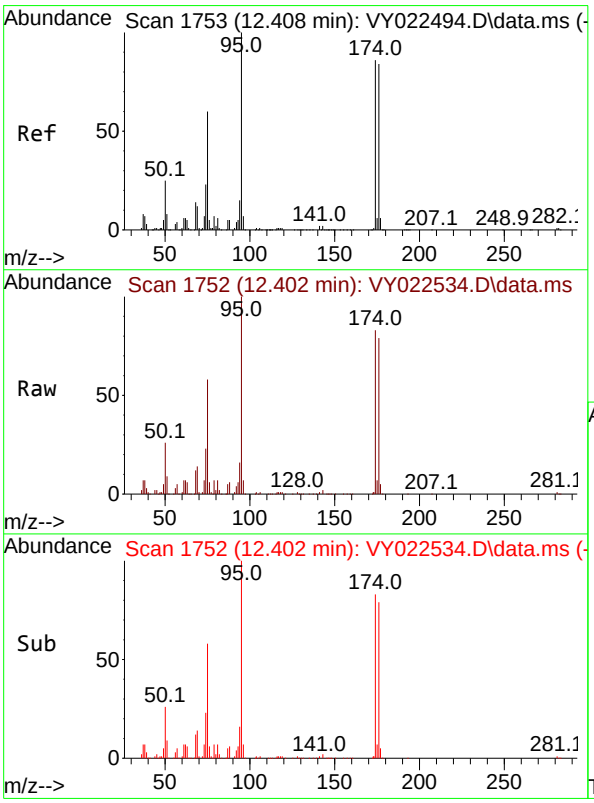

#50
Toluene-d8
Concen: 48.723 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022534.D
Acq: 03 Jun 2025 19:42

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB00

Tgt Ion: 98 Resp: 524997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.1 | 51.4 | 77.0 |

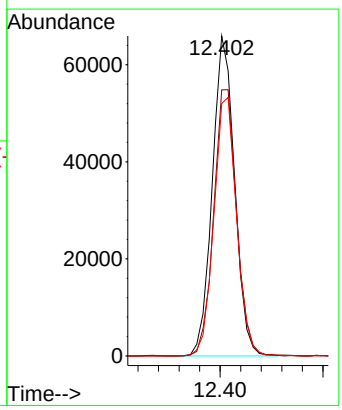


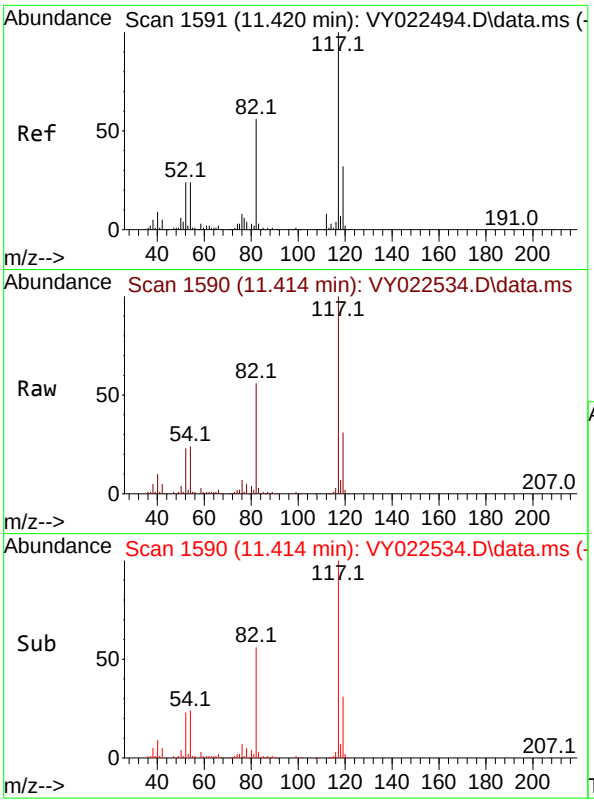




#62
4-Bromofluorobenzene
Concen: 30.820 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022534.D
Acq: 03 Jun 2025 19:42

Tgt Ion: 95 Resp: 98946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.6 | 0.0 | 170.0 |
| 176 | 82.5 | 0.0 | 166.2 |



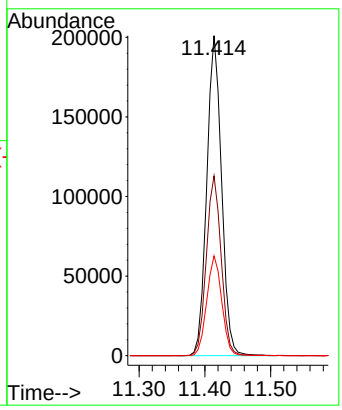


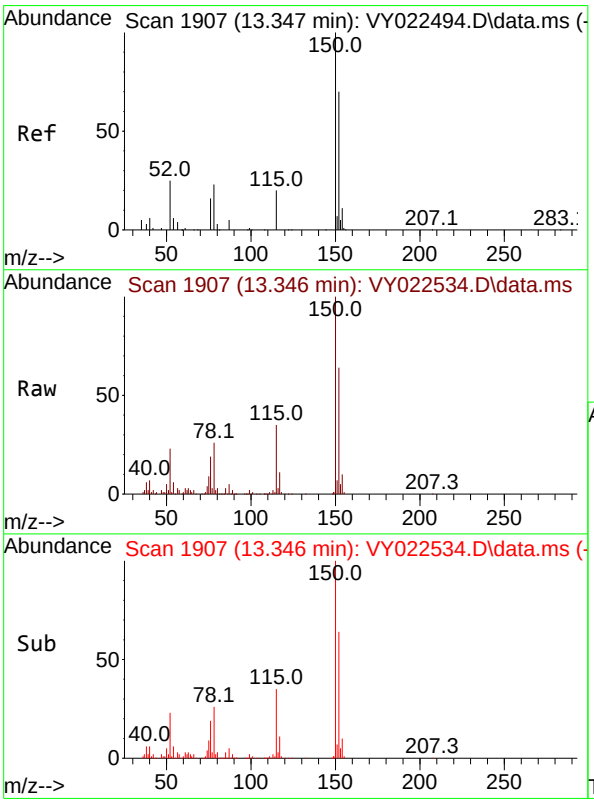

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022534.D
Acq: 03 Jun 2025 19:42

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB00

Tgt Ion:117 Resp: 313918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.2 | 44.6 | 66.8 |
| 119 | 31.2 | 25.4 | 38.0 |

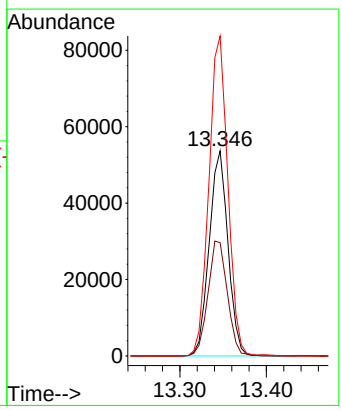



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022534.D
Acq: 03 Jun 2025 19:42

Tgt Ion:152 Resp: 80935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.7 | 28.9 | 86.7 |
| 150 | 157.2 | 0.0 | 349.6 |



Sample Results: **VY022534.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022534.D
Acq On : 03 Jun 2025 19:42
Operator : SY/MD
Sample : Q2177-01
Misc : 2.56g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB00

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Title : SW846 8260

Signal : TIC: VY022534.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.123 | 51 | 66 | 67 | rBV4 | 10980 | 43389 | 3.03% | 0.676% |
| 2 | 2.477 | 119 | 124 | 125 | rBV3 | 11864 | 18153 | 1.27% | 0.283% |
| 3 | 4.610 | 466 | 474 | 484 | rBV5 | 6431 | 19534 | 1.36% | 0.304% |
| 4 | 7.634 | 959 | 970 | 976 | rBV | 195026 | 479471 | 33.46% | 7.471% |
| 5 | 7.707 | 976 | 982 | 993 | rVB | 332337 | 753188 | 52.57% | 11.737% |
| 6 | 8.061 | 1031 | 1040 | 1052 | rBV | 175823 | 397045 | 27.71% | 6.187% |
| 7 | 8.610 | 1122 | 1130 | 1141 | rBV | 529629 | 1058403 | 73.87% | 16.493% |
| 8 | 10.103 | 1368 | 1375 | 1390 | rBV | 845479 | 1432795 | 100.00% | 22.327% |
| 9 | 11.414 | 1583 | 1590 | 1605 | rVB | 653434 | 1031616 | 72.00% | 16.075% |
| 10 | 12.402 | 1745 | 1752 | 1764 | rVB | 375110 | 573480 | 40.03% | 8.936% |
| 11 | 13.346 | 1900 | 1907 | 1914 | rBV | 341030 | 537377 | 37.51% | 8.374% |
| 12 | 13.883 | 1988 | 1995 | 2001 | rVB2 | 45332 | 73002 | 5.10% | 1.138% |

Sum of corrected areas: 6417453

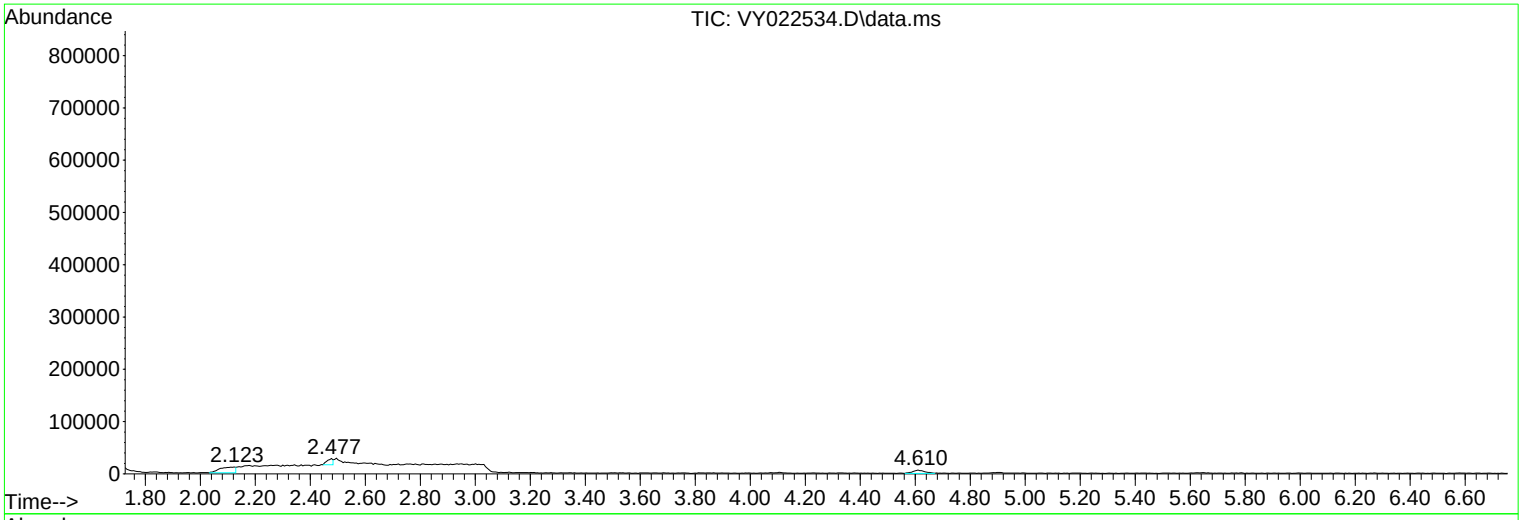
Sample Results: **VY022534.D**

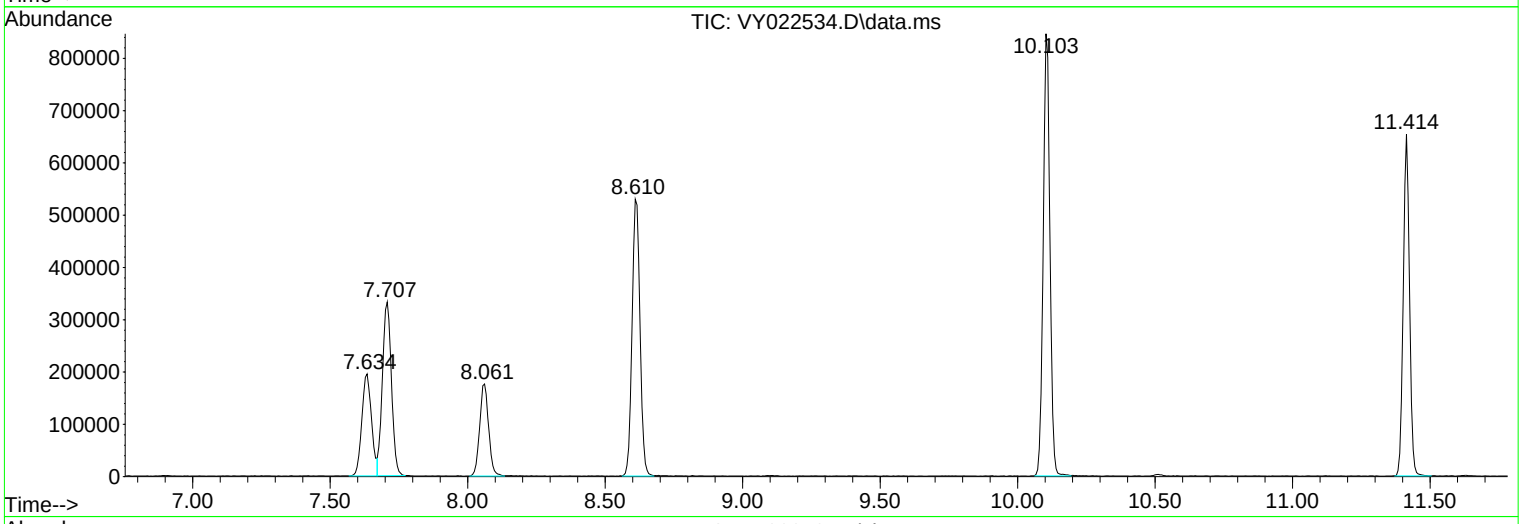
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022534.D
Acq On : 03 Jun 2025 19:42
Operator : SY/MD
Sample : Q2177-01
Misc : 2.56g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

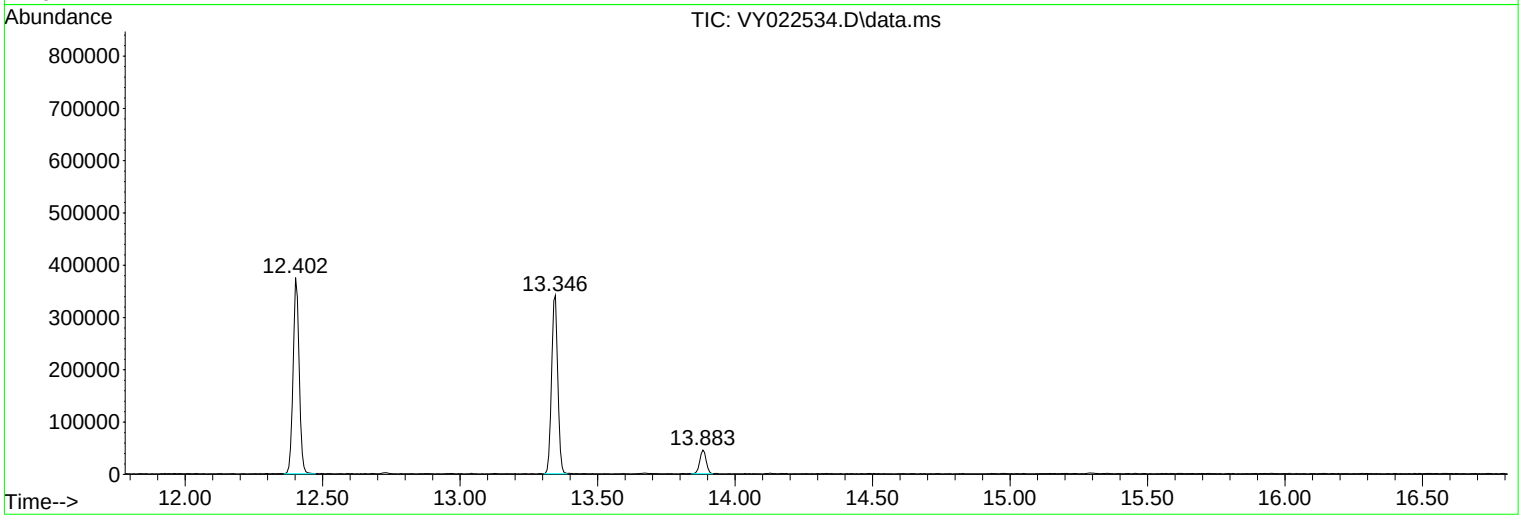
**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB00

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022534.D
Acq On : 03 Jun 2025 19:42
Operator : SY/MD
Sample : Q2177-01
Misc : 2.56g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB00

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022534.D
Acq On : 03 Jun 2025 19:42
Operator : SY/MD
Sample : Q2177-01
Misc : 2.56g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB00

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022554.D
Acq On : 04 Jun 2025 16:34
Operator : SY/MD
Sample : Q2177-02
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

Quant Time: Jun 05 04:18:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 261314 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 474753 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 386745 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 144573 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 152512 | 52.183 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 104.360% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 144981 | 51.163 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 102.320% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 570663 | 49.840 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 99.680% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 146159 | 42.843 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 85.680% | | | |

Target Compounds Qvalue

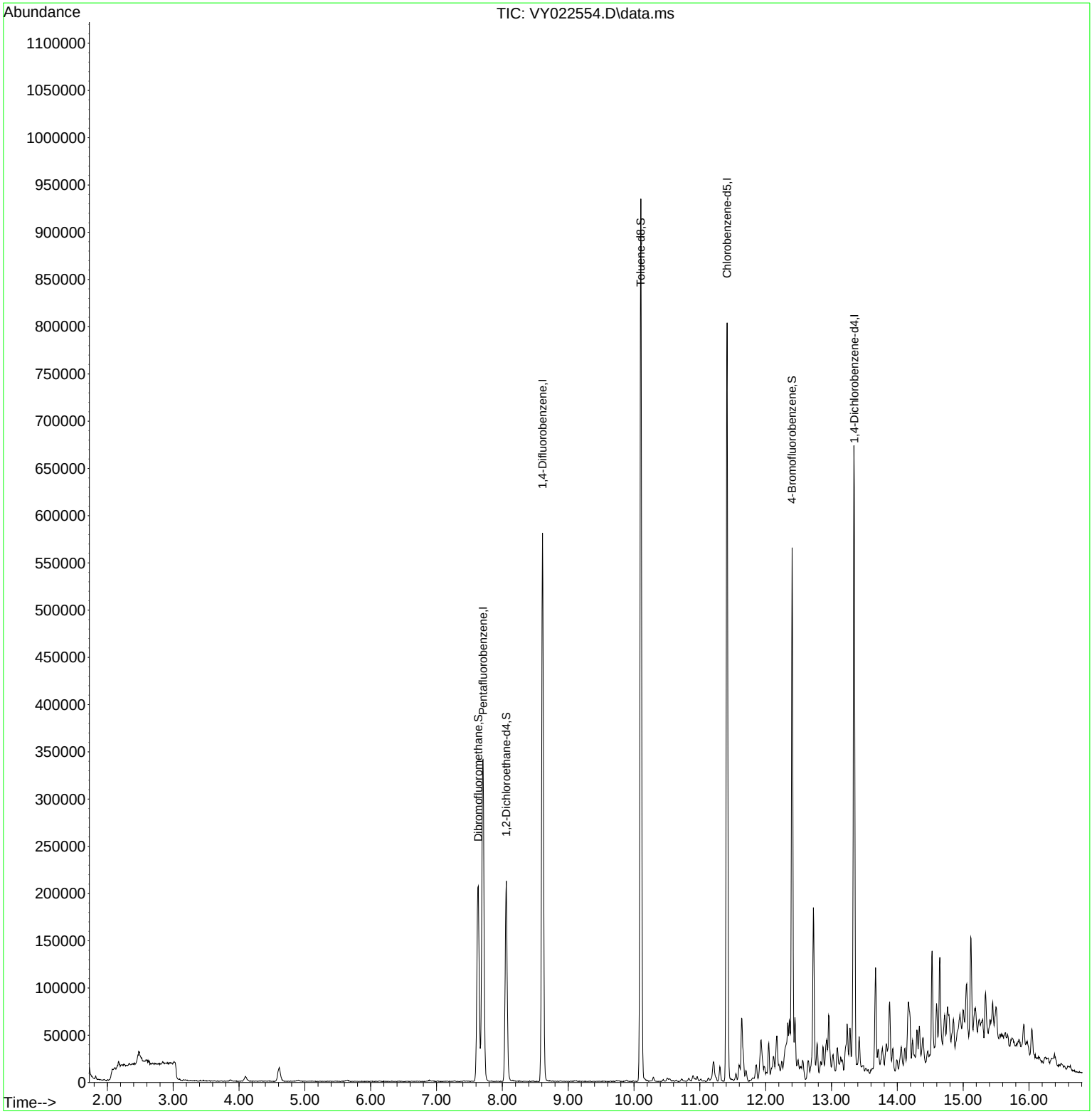
(#) = qualifier out of range (m) = manual integration (+) = signals summed

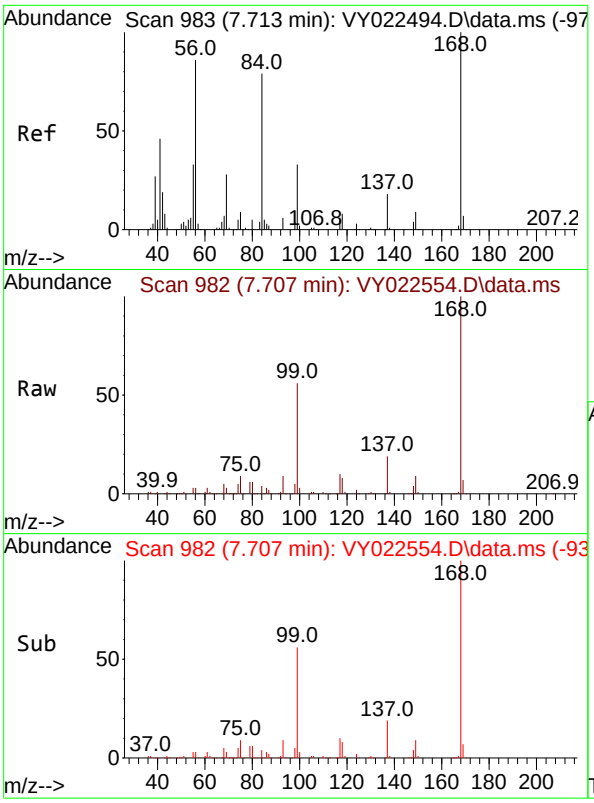
Sample Results: **VY022554.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022554.D
Acq On : 04 Jun 2025 16:34
Operator : SY/MD
Sample : Q2177-02
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

Quant Time: Jun 05 04:18:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration



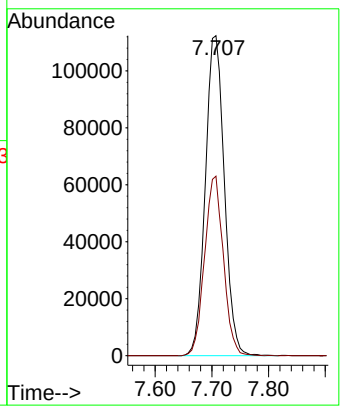


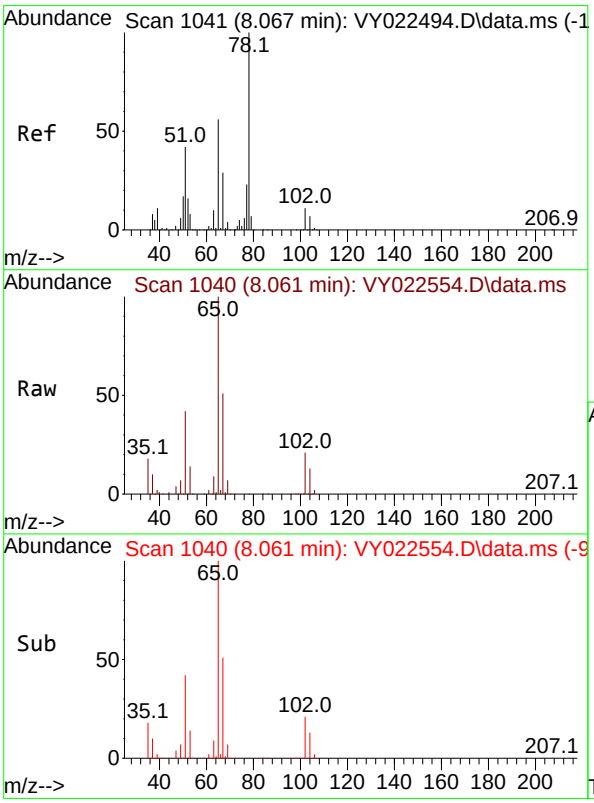

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022554.D
Acq: 04 Jun 2025 16:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

Tgt Ion:168 Resp: 261314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.1 | 44.3 | 66.5 |

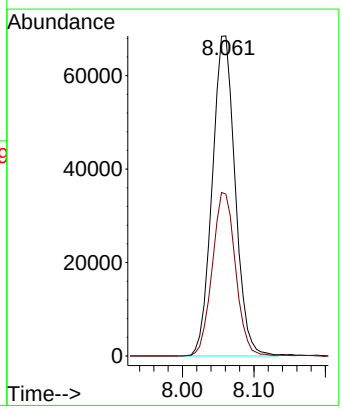


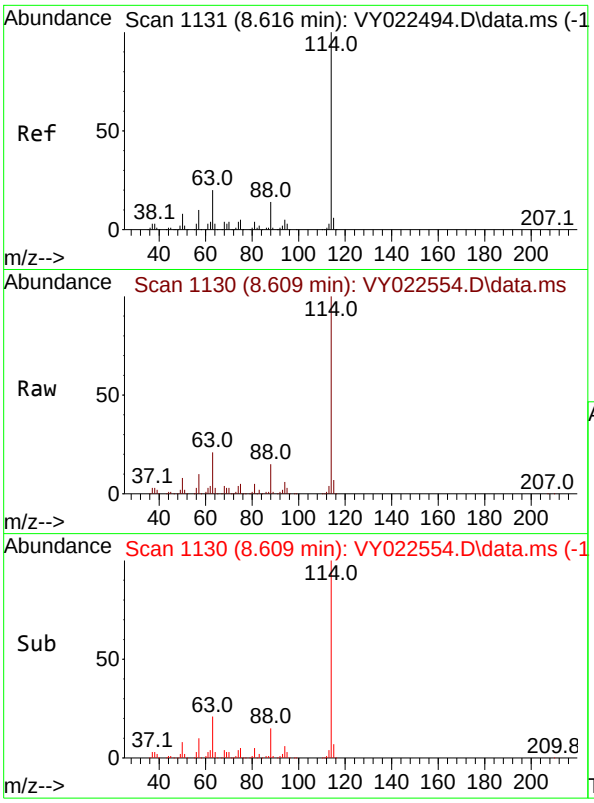




#33
1,2-Dichloroethane-d4
Concen: 52.183 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022554.D
Acq: 04 Jun 2025 16:34

Tgt Ion: 65 Resp: 152512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.9 | 0.0 | 103.4 |



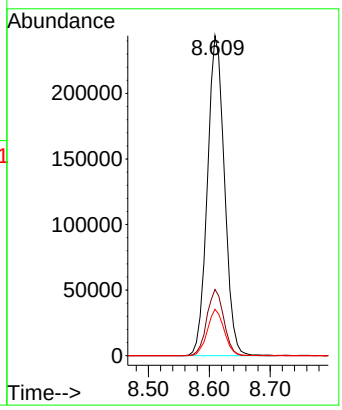


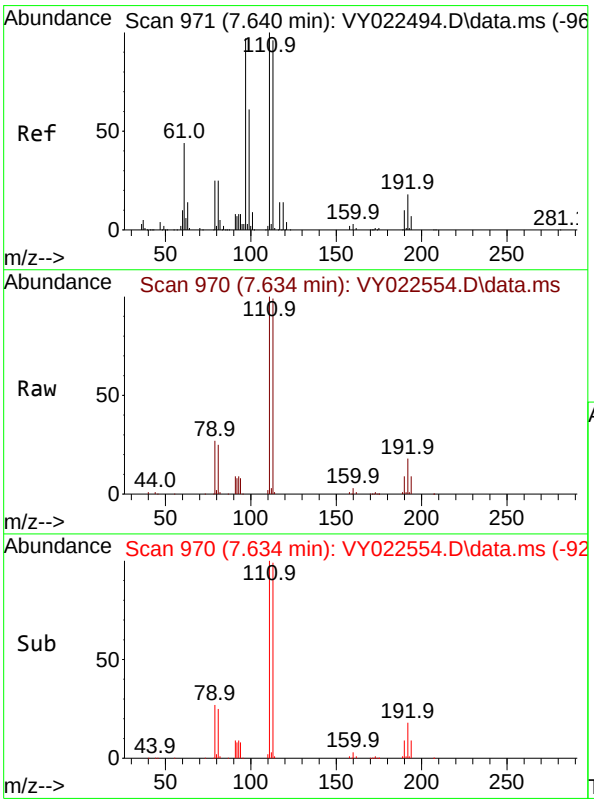

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022554.D
Acq: 04 Jun 2025 16:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

Tgt Ion:114 Resp: 474753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.7 | 0.0 | 40.8 |
| 88 | 14.5 | 0.0 | 27.8 |

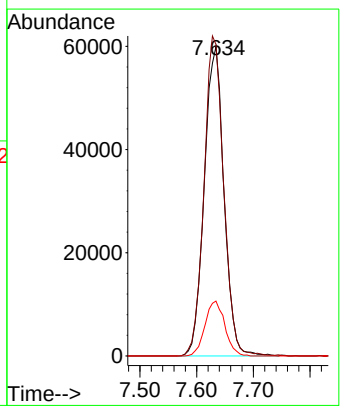


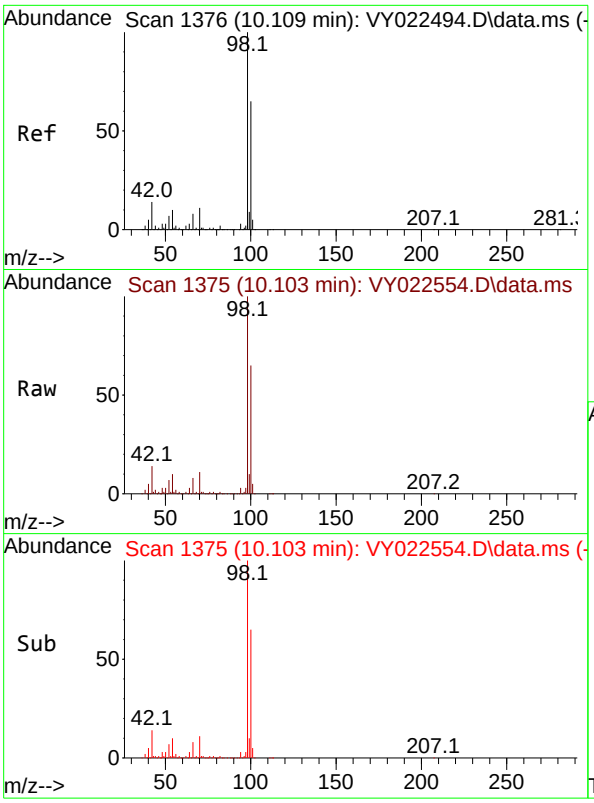




#35
Dibromofluoromethane
Concen: 51.163 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022554.D
Acq: 04 Jun 2025 16:34

Tgt Ion:113 Resp: 144981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.7 | 81.1 | 121.7 |
| 192 | 17.9 | 14.2 | 21.2 |



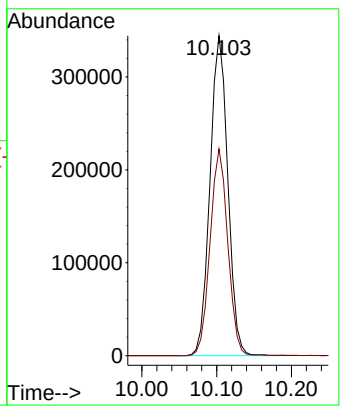


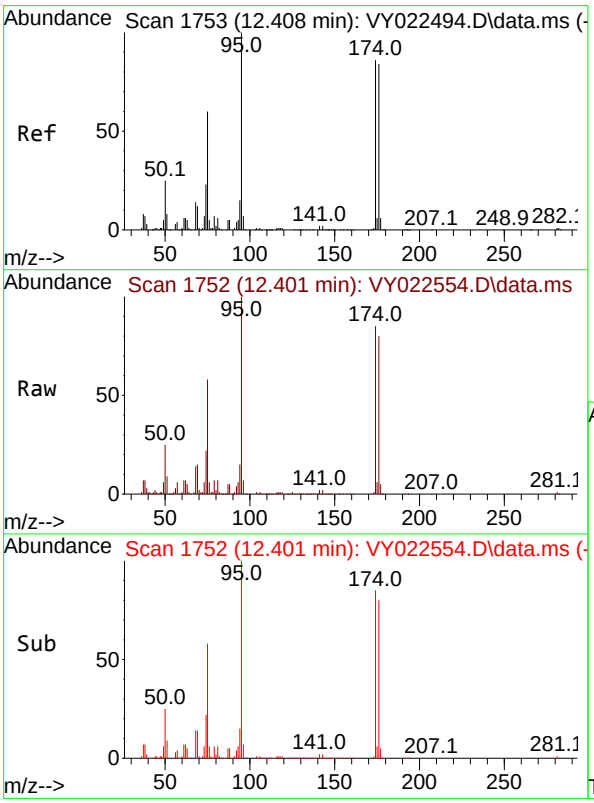

#50
Toluene-d8
Concen: 49.840 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022554.D
Acq: 04 Jun 2025 16:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

Tgt Ion: 98 Resp: 570663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.2 | 51.4 | 77.0 |

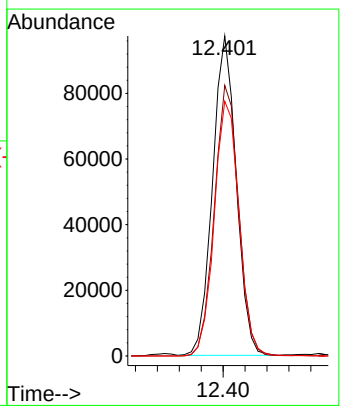


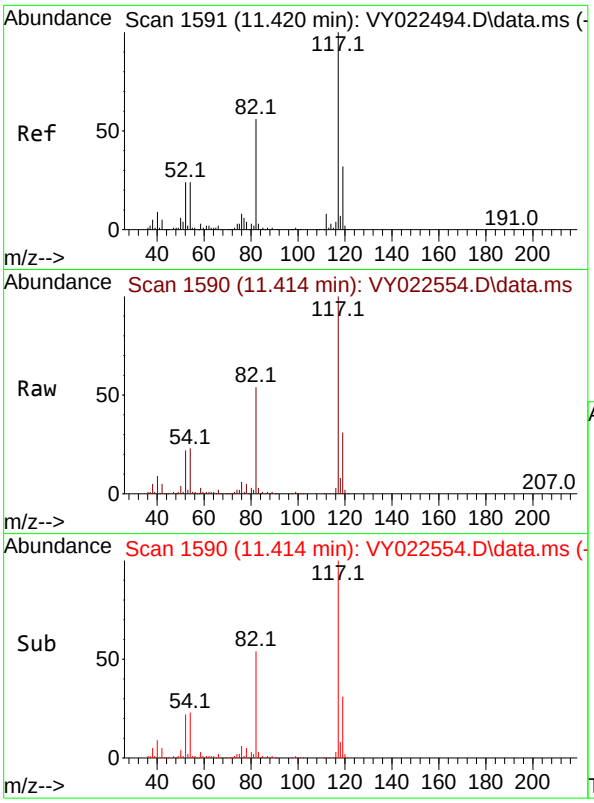




#62
4-Bromofluorobenzene
Concen: 42.843 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022554.D
Acq: 04 Jun 2025 16:34

Tgt Ion: 95 Resp: 146159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.7 | 0.0 | 170.0 |
| 176 | 83.4 | 0.0 | 166.2 |



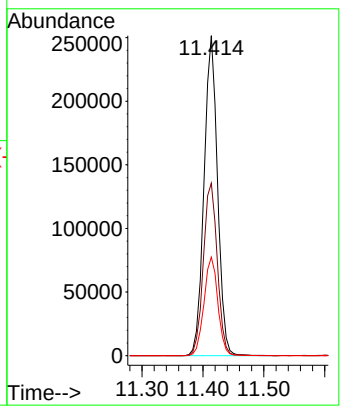


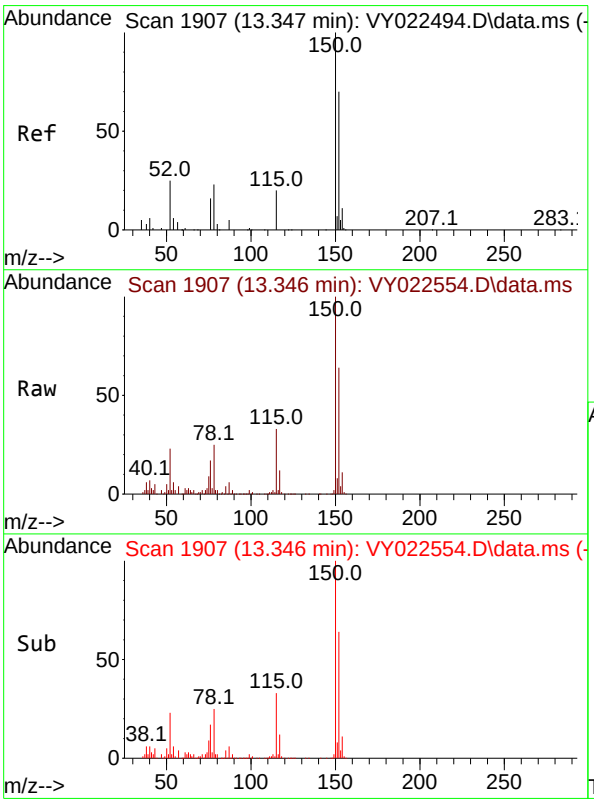

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022554.D
Acq: 04 Jun 2025 16:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

Tgt Ion:117 Resp: 386745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.9 | 44.6 | 66.8 |
| 119 | 30.8 | 25.4 | 38.0 |

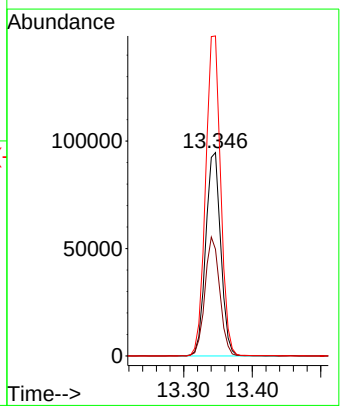



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022554.D
Acq: 04 Jun 2025 16:34

Tgt Ion:152 Resp: 144573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.8 | 28.9 | 86.7 |
| 150 | 157.4 | 0.0 | 349.6 |



Sample Results: **VY022554.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022554.D
Acq On : 04 Jun 2025 16:34
Operator : SY/MD
Sample : Q2177-02
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Title : SW846 8260

Signal : TIC: VY022554.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.074 | 51 | 58 | 61 | rBV5 | 11140 | 24531 | 1.57% | 0.211% |
| 2 | 4.610 | 464 | 474 | 488 | rVB3 | 14744 | 44240 | 2.84% | 0.380% |
| 3 | 7.634 | 959 | 970 | 975 | rBV | 206595 | 498552 | 31.98% | 4.285% |
| 4 | 7.707 | 975 | 982 | 997 | rVB | 340662 | 801743 | 51.43% | 6.891% |
| 5 | 8.061 | 1031 | 1040 | 1052 | rBV | 212029 | 455536 | 29.22% | 3.915% |
| 6 | 8.609 | 1121 | 1130 | 1140 | rBV | 580880 | 1130879 | 72.55% | 9.720% |
| 7 | 10.103 | 1364 | 1375 | 1383 | rBV | 934383 | 1558851 | 100.00% | 13.398% |
| 8 | 11.206 | 1546 | 1556 | 1567 | rVB4 | 20396 | 52024 | 3.34% | 0.447% |
| 9 | 11.304 | 1567 | 1572 | 1577 | rBV2 | 15091 | 23227 | 1.49% | 0.200% |
| 10 | 11.414 | 1582 | 1590 | 1599 | rBV | 802989 | 1273247 | 81.68% | 10.943% |
| 11 | 11.597 | 1615 | 1620 | 1623 | rVV2 | 16736 | 30137 | 1.93% | 0.259% |
| 12 | 11.633 | 1623 | 1626 | 1634 | rVV2 | 66387 | 137883 | 8.85% | 1.185% |
| 13 | 11.700 | 1634 | 1637 | 1643 | rVB3 | 11495 | 19584 | 1.26% | 0.168% |
| 14 | 11.859 | 1658 | 1663 | 1667 | rVB2 | 14577 | 24107 | 1.55% | 0.207% |
| 15 | 11.932 | 1667 | 1675 | 1681 | rBV4 | 40994 | 106263 | 6.82% | 0.913% |
| 16 | 12.048 | 1690 | 1694 | 1697 | rVV | 34356 | 47408 | 3.04% | 0.407% |
| 17 | 12.121 | 1697 | 1706 | 1709 | rVV6 | 19439 | 44909 | 2.88% | 0.386% |
| 18 | 12.170 | 1709 | 1714 | 1718 | rVV3 | 40281 | 77228 | 4.95% | 0.664% |
| 19 | 12.243 | 1722 | 1726 | 1729 | rVV4 | 11936 | 18431 | 1.18% | 0.158% |
| 20 | 12.334 | 1729 | 1741 | 1743 | rVV4 | 51577 | 144724 | 9.28% | 1.244% |
| 21 | 12.359 | 1743 | 1745 | 1748 | rVV | 53733 | 83205 | 5.34% | 0.715% |
| 22 | 12.401 | 1748 | 1752 | 1757 | rVV | 552978 | 849260 | 54.48% | 7.299% |
| 23 | 12.444 | 1757 | 1759 | 1763 | rVV3 | 54923 | 69546 | 4.46% | 0.598% |
| 24 | 12.560 | 1776 | 1778 | 1785 | rVB4 | 20163 | 35171 | 2.26% | 0.302% |
| 25 | 12.645 | 1785 | 1792 | 1796 | rBV4 | 19797 | 39997 | 2.57% | 0.344% |
| 26 | 12.724 | 1796 | 1805 | 1811 | rVV2 | 177738 | 298837 | 19.17% | 2.568% |
| 27 | 12.779 | 1811 | 1814 | 1819 | rVB2 | 31705 | 47907 | 3.07% | 0.412% |
| 28 | 12.834 | 1819 | 1823 | 1825 | rBV4 | 11662 | 16660 | 1.07% | 0.143% |
| 29 | 12.871 | 1825 | 1829 | 1832 | rVV3 | 25597 | 40010 | 2.57% | 0.344% |
| 30 | 12.926 | 1832 | 1838 | 1840 | rVV5 | 31415 | 62610 | 4.02% | 0.538% |
| 31 | 12.956 | 1840 | 1843 | 1850 | rVV2 | 55717 | 94055 | 6.03% | 0.808% |
| 32 | 13.023 | 1850 | 1854 | 1860 | rVB4 | 17368 | 29632 | 1.90% | 0.255% |
| 33 | 13.090 | 1860 | 1865 | 1870 | rBV2 | 24635 | 46354 | 2.97% | 0.398% |
| 34 | 13.237 | 1880 | 1889 | 1893 | rBV3 | 48915 | 113643 | 7.29% | 0.977% |
| 35 | 13.279 | 1893 | 1896 | 1899 | rVV2 | 43580 | 65175 | 4.18% | 0.560% |
| 36 | 13.340 | 1899 | 1906 | 1913 | rVV | 659055 | 1039417 | 66.68% | 8.934% |

Sample Results: **VY022554.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022554.D
Acq On : 04 Jun 2025 16:34
Operator : SY/MD
Sample : Q2177-02
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 13.419 | 1915 | 1919 | 1926 | rVB4 | 32135 | 46963 | 3.01% | 0.404% |
| 38 | 13.669 | 1954 | 1960 | 1964 | rVV3 | 109043 | 172783 | 11.08% | 1.485% |
| 39 | 13.712 | 1964 | 1967 | 1971 | rVV3 | 19330 | 28787 | 1.85% | 0.247% |
| 40 | 13.773 | 1971 | 1977 | 1982 | rVB5 | 18984 | 33753 | 2.17% | 0.290% |
| 41 | 13.834 | 1982 | 1987 | 1989 | rBV3 | 21933 | 38865 | 2.49% | 0.334% |
| 42 | 13.883 | 1990 | 1995 | 2000 | rVB2 | 62906 | 102498 | 6.58% | 0.881% |
| 43 | 13.932 | 2000 | 2003 | 2009 | rVB3 | 23841 | 34981 | 2.24% | 0.301% |
| 44 | 13.993 | 2009 | 2013 | 2017 | rBV3 | 11949 | 20100 | 1.29% | 0.173% |
| 45 | 14.060 | 2017 | 2024 | 2029 | rBV7 | 23448 | 51061 | 3.28% | 0.439% |
| 46 | 14.114 | 2029 | 2033 | 2036 | rBV5 | 18100 | 26573 | 1.70% | 0.228% |
| 47 | 14.169 | 2036 | 2042 | 2049 | rBV7 | 62400 | 168087 | 10.78% | 1.445% |
| 48 | 14.230 | 2049 | 2052 | 2059 | rBV5 | 19264 | 28086 | 1.80% | 0.241% |
| 49 | 14.297 | 2059 | 2063 | 2066 | rBV4 | 29262 | 39486 | 2.53% | 0.339% |
| 50 | 14.334 | 2066 | 2069 | 2073 | rVB3 | 31688 | 41695 | 2.67% | 0.358% |
| 51 | 14.389 | 2073 | 2078 | 2084 | rVB6 | 26367 | 54926 | 3.52% | 0.472% |
| 52 | 14.462 | 2086 | 2090 | 2093 | rBV6 | 11209 | 19240 | 1.23% | 0.165% |
| 53 | 14.529 | 2096 | 2101 | 2107 | rBV2 | 110184 | 167222 | 10.73% | 1.437% |
| 54 | 14.596 | 2107 | 2112 | 2115 | rBV3 | 46165 | 68573 | 4.40% | 0.589% |
| 55 | 14.645 | 2115 | 2120 | 2127 | rVB2 | 92167 | 147770 | 9.48% | 1.270% |
| 56 | 14.718 | 2127 | 2132 | 2135 | rBV5 | 30858 | 55734 | 3.58% | 0.479% |
| 57 | 14.761 | 2135 | 2139 | 2142 | rBV5 | 30310 | 48718 | 3.13% | 0.419% |
| 58 | 14.852 | 2151 | 2154 | 2158 | rVB6 | 30620 | 45754 | 2.94% | 0.393% |
| 59 | 14.950 | 2158 | 2170 | 2174 | rBV9 | 35666 | 122046 | 7.83% | 1.049% |
| 60 | 14.998 | 2175 | 2178 | 2182 | rVV5 | 33250 | 65105 | 4.18% | 0.560% |
| 61 | 15.053 | 2182 | 2187 | 2192 | rVV3 | 58248 | 113337 | 7.27% | 0.974% |
| 62 | 15.114 | 2192 | 2197 | 2203 | rVV2 | 105952 | 175391 | 11.25% | 1.507% |
| 63 | 15.187 | 2203 | 2209 | 2214 | rVB8 | 25654 | 64366 | 4.13% | 0.553% |
| 64 | 15.340 | 2230 | 2234 | 2241 | rBV3 | 47937 | 86273 | 5.53% | 0.741% |
| 65 | 15.450 | 2249 | 2252 | 2255 | rVB3 | 24812 | 28555 | 1.83% | 0.245% |
| 66 | 15.919 | 2325 | 2329 | 2334 | rVB2 | 21239 | 34219 | 2.20% | 0.294% |
| 67 | 16.041 | 2345 | 2349 | 2357 | rVB2 | 30379 | 59074 | 3.79% | 0.508% |

Sum of corrected areas: 11635004

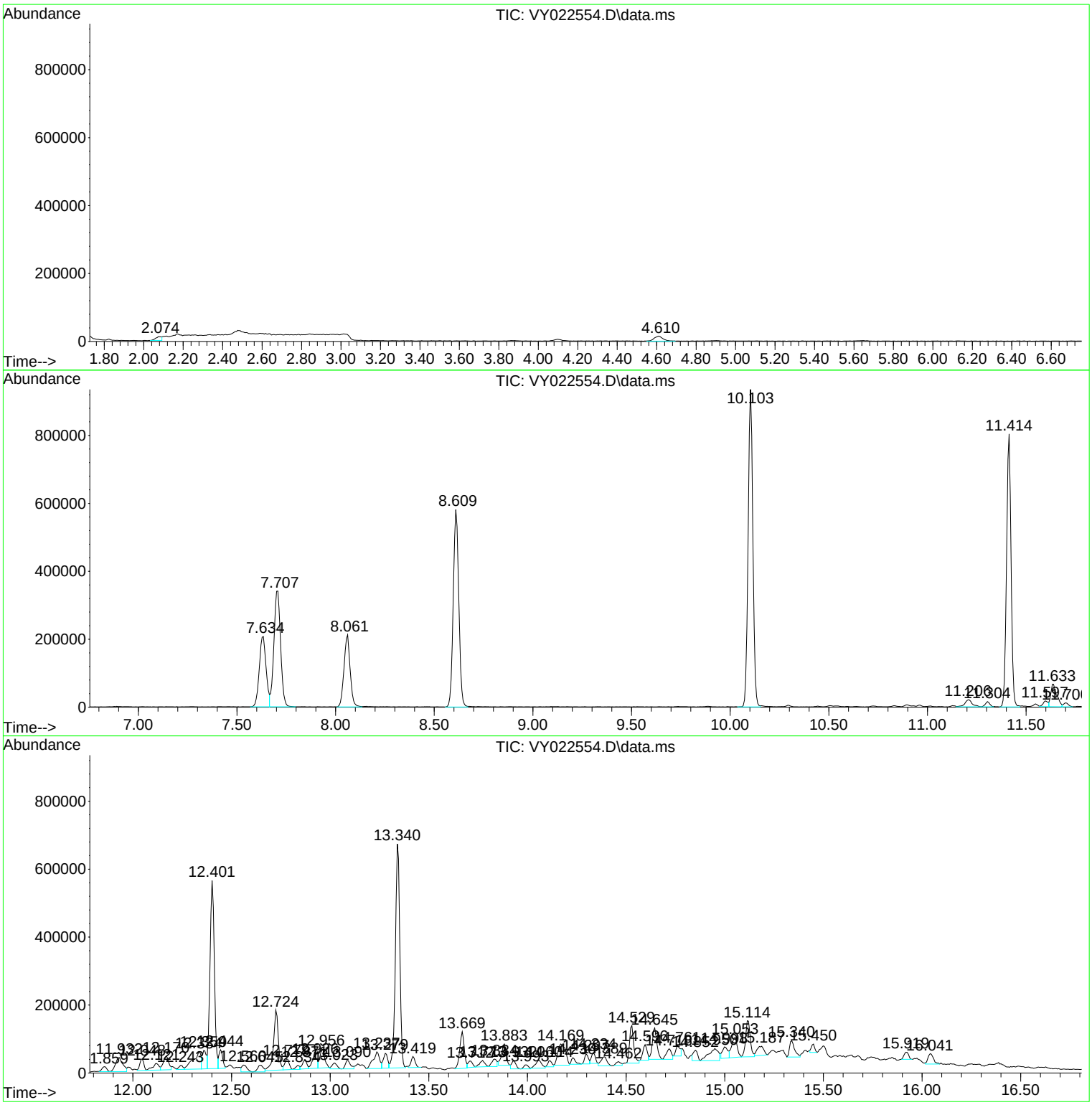
Sample Results: **VY022554.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022554.D
Acq On : 04 Jun 2025 16:34
Operator : SY/MD
Sample : Q2177-02
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022554.D
Acq On : 04 Jun 2025 16:34
Operator : SY/MD
Sample : Q2177-02
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

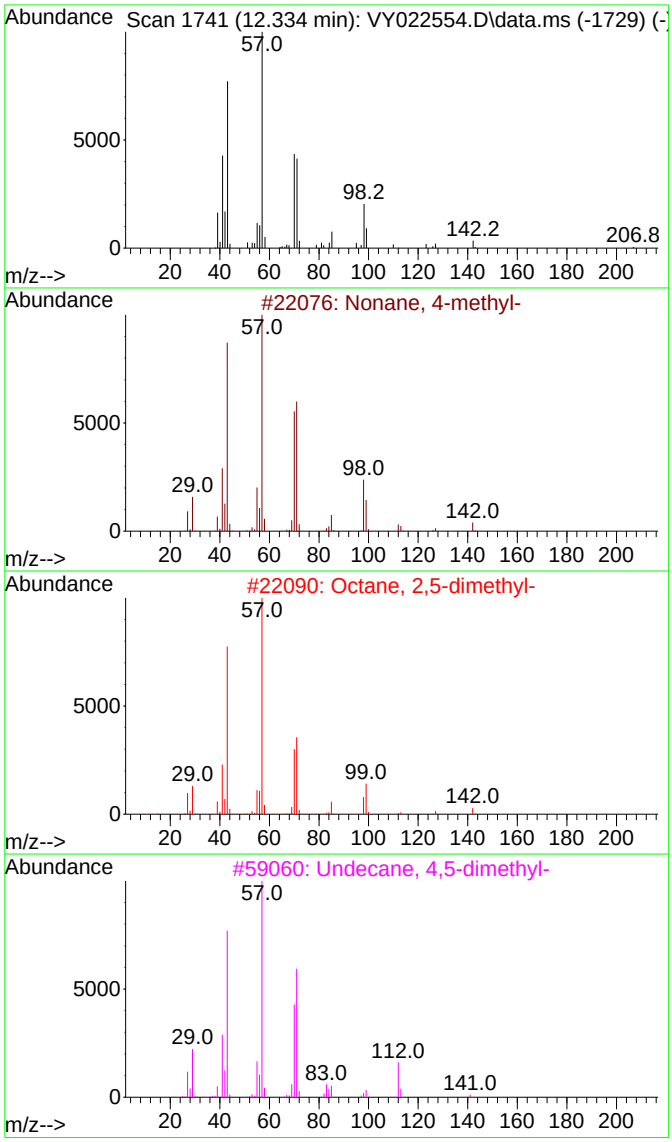
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TIC Integration Parameters: LSCINT.P

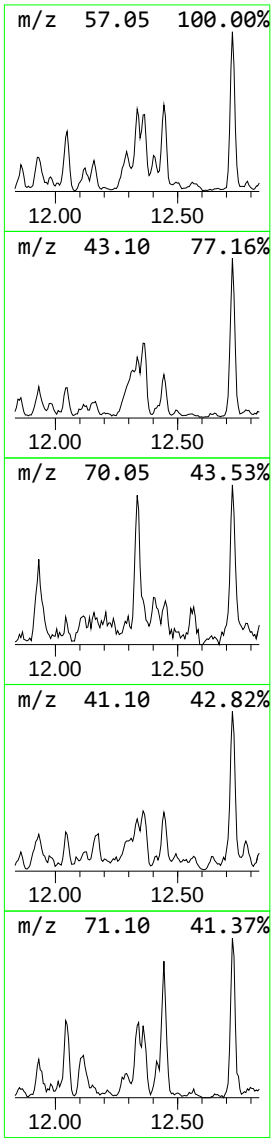
**********

Peak Number 1 Nonane, 4-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.334 | 5.68 ug/l | 144724 | Chlorobenzene-d5 | 11.414 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 4-methyl- | 142 | C10H22 | 017301-94-9 | 91 |
| 2 | Octane, 2,5-dimethyl- | 142 | C10H22 | 015869-89-3 | 74 |
| 3 | Undecane, 4,5-dimethyl- | 184 | C13H28 | 017312-79-7 | 64 |
| 4 | Pentane, 2,2,3,3-tetramethyl- | 128 | C9H20 | 007154-79-2 | 53 |
| 5 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022554.D
Acq On : 04 Jun 2025 16:34
Operator : SY/MD
Sample : Q2177-02
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

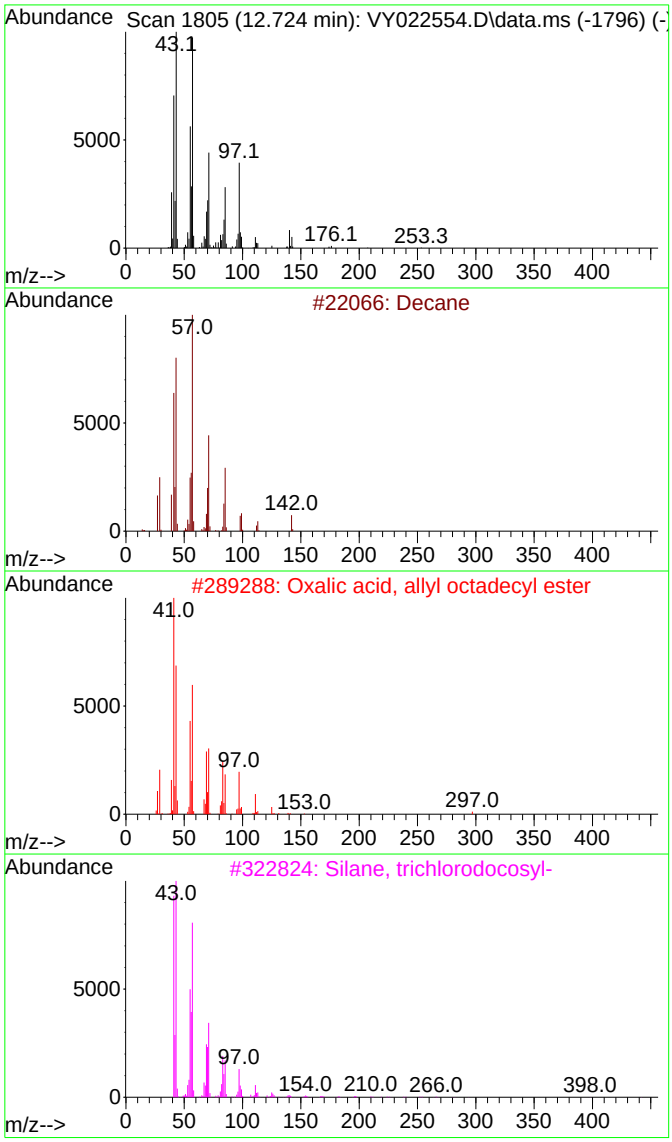
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

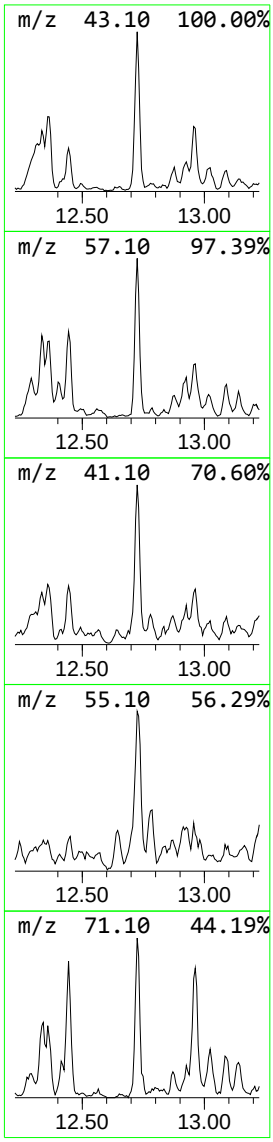
**********

Peak Number 2 Decane Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.725 | 14.38 ug/l | 298837 | 1,4-Dichlorobenzene-d4 | 13.346 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane | 142 | C10H22 | 000124-18-5 | 89 |
| 2 | Oxalic acid, allyl octadecyl ester | 382 | C23H42O4 | 1000309-24-5 | 59 |
| 3 | Silane, trichlorodocosyl- | 442 | C22H45Cl3Si | 007325-84-0 | 47 |
| 4 | Decane, 2,5,6-trimethyl- | 184 | C13H28 | 062108-23-0 | 38 |
| 5 | Oxalic acid, heptyl isohexyl ester | 272 | C15H28O4 | 1000309-33-1 | 35 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022554.D
Acq On : 04 Jun 2025 16:34
Operator : SY/MD
Sample : Q2177-02
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

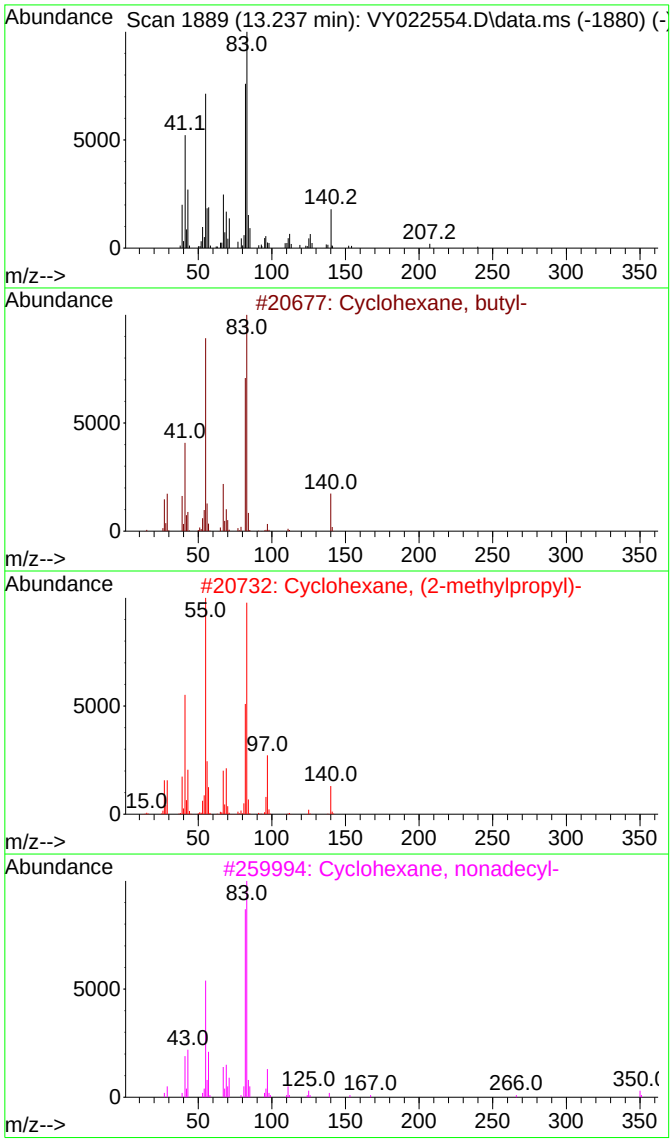
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

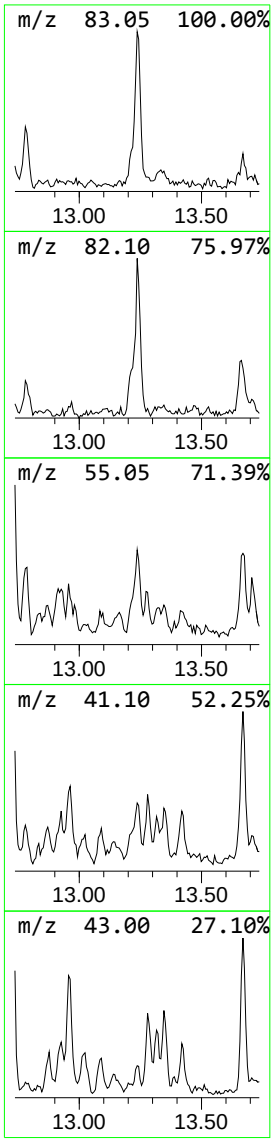
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Cyclohexane, butyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.237 | 5.47 ug/l | 113643 | 1,4-Dichlorobenzene-d4 | 13.346 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, butyl- | 140 | C10H20 | 001678-93-9 | 87 |
| 2 | Cyclohexane, (2-methylpropyl)- | 140 | C10H20 | 001678-98-4 | 80 |
| 3 | Cyclohexane, nonadecyl- | 350 | C25H50 | 022349-03-7 | 80 |
| 4 | Cyclohexane, undecyl- | 238 | C17H34 | 054105-66-7 | 80 |
| 5 | Cyclohexane, (4-methylpentyl)- | 168 | C12H24 | 061142-20-9 | 72 |



```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022554.D
Acq On    : 04 Jun 2025  16:34
Operator  : SY/MD
Sample    : Q2177-02
Misc      : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title  : SW846 8260

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
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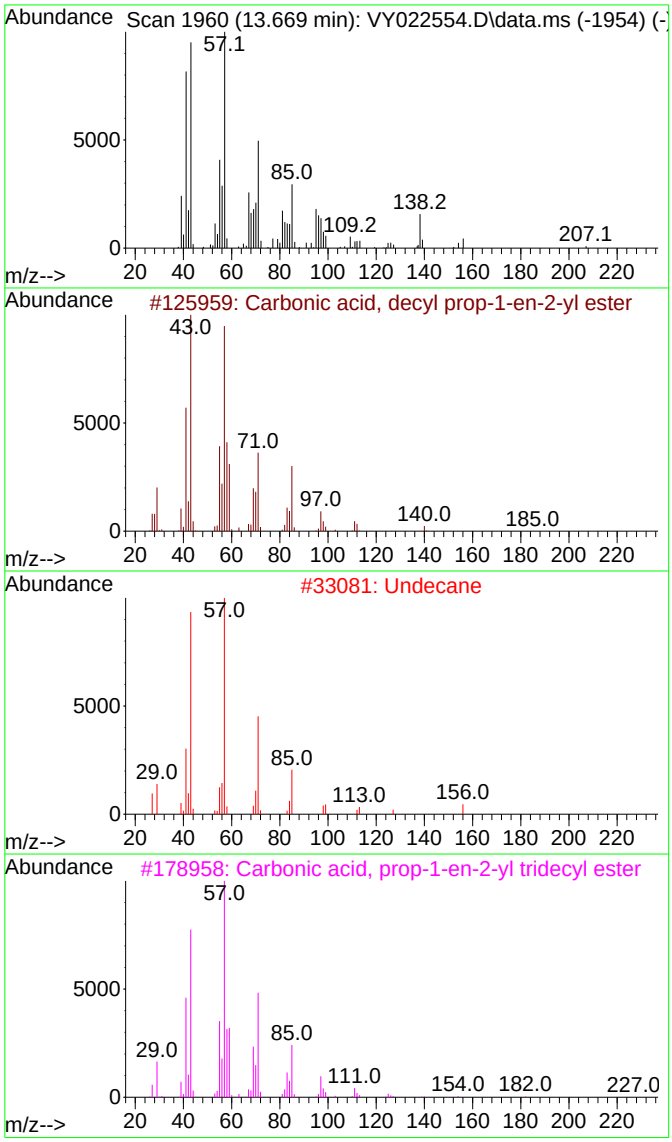
**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

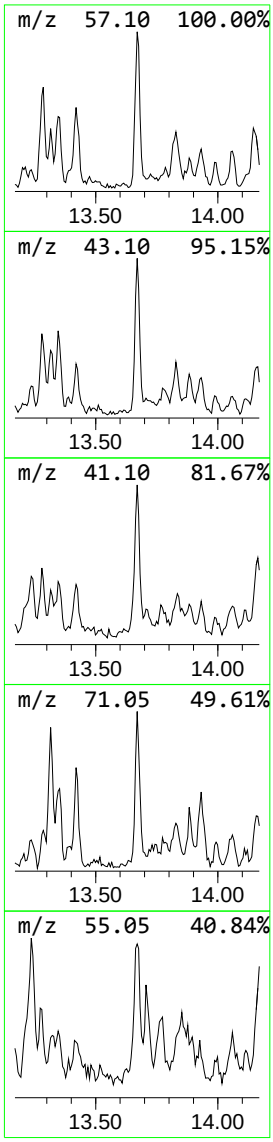
**********

Peak Number 4 Carbonic acid, decyl prop-1... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.669 | 8.31 ug/l | 172783 | 1,4-Dichlorobenzene-d4 | 13.346 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Carbonic acid, decyl prop-1-en-2... | 242 | C14H26O3 | 1000382-90-5 | 58 |
| 2 | Undecane | 156 | C11H24 | 001120-21-4 | 55 |
| 3 | Carbonic acid, prop-1-en-2-yl tr... | 284 | C17H32O3 | 1000382-90-8 | 52 |
| 4 | Carbonic acid, nonyl prop-1-en-2... | 228 | C13H24O3 | 1000382-53-9 | 52 |
| 5 | Carbonic acid, prop-1-en-2-yl te... | 298 | C18H34O3 | 1000382-90-9 | 52 |



Sample Results: **VY022554.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022554.D
Acq On : 04 Jun 2025 16:34
Operator : SY/MD
Sample : Q2177-02
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

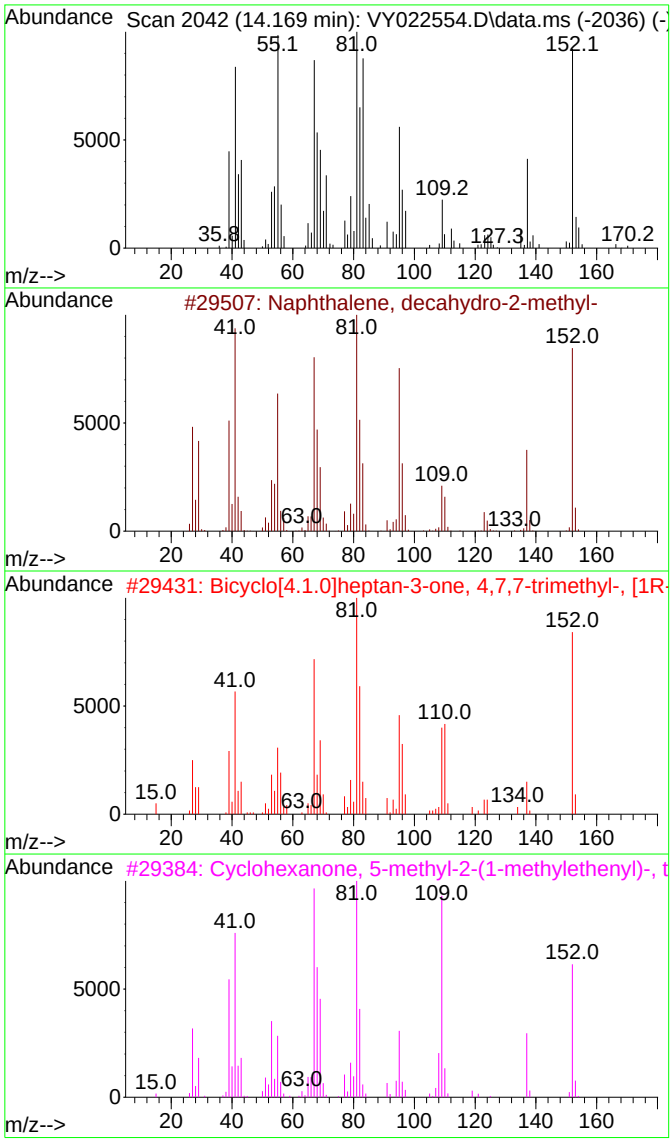
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

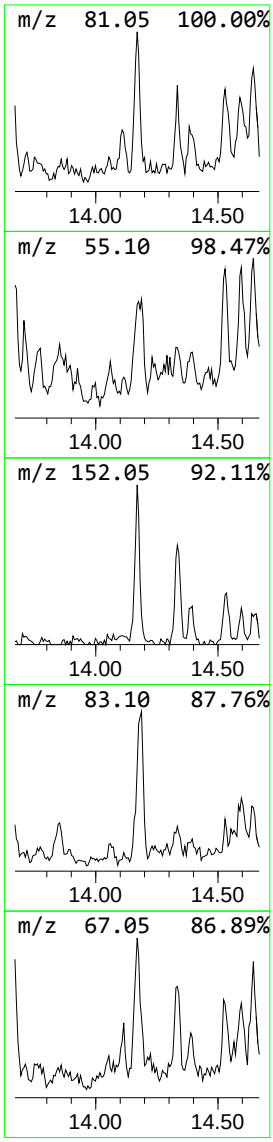
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 Naphthalene, decahydro-2-me... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.169 | 8.09 ug/l | 168087 | 1,4-Dichlorobenzene-d4 | 13.346 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 90 |
| 2 | Bicyclo[4.1.0]heptan-3-one, 4,7,... | 152 | C10H16O | 004176-04-9 | 83 |
| 3 | Cyclohexanone, 5-methyl-2-(1-met... | 152 | C10H16O | 029606-79-9 | 60 |
| 4 | Bicyclo[4.1.0]heptan-3-one, 4,7,... | 152 | C10H16O | 004176-01-6 | 58 |
| 5 | Cyclohexanone, 5-methyl-2-(1-met... | 152 | C10H16O | 015932-80-6 | 52 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022554.D
Acq On : 04 Jun 2025 16:34
Operator : SY/MD
Sample : Q2177-02
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

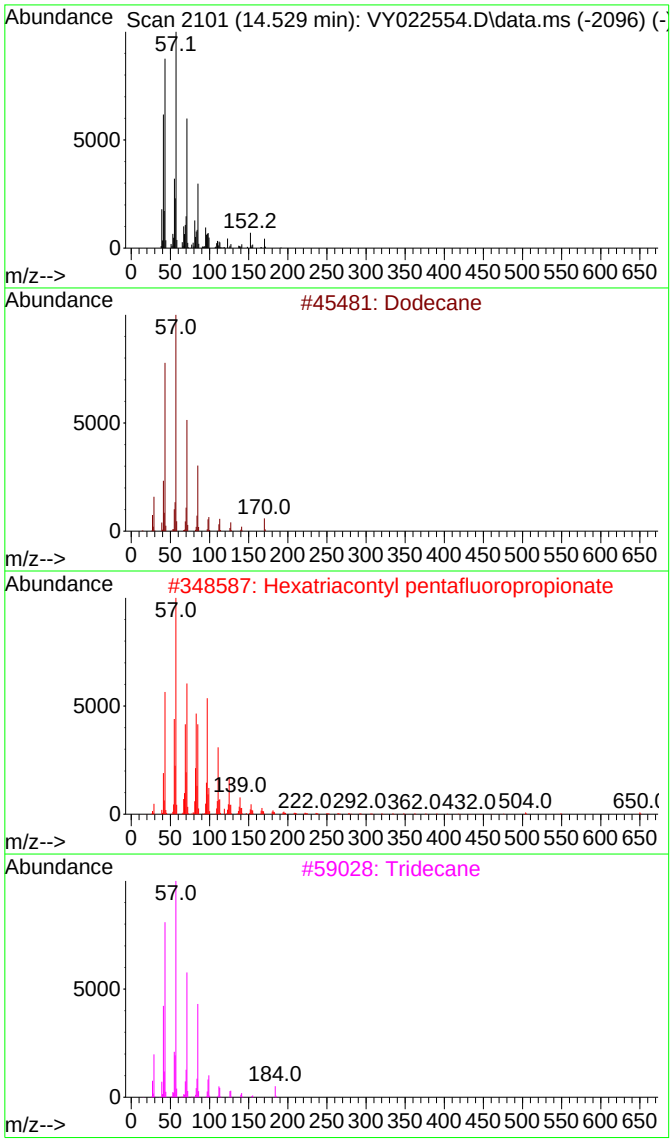
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

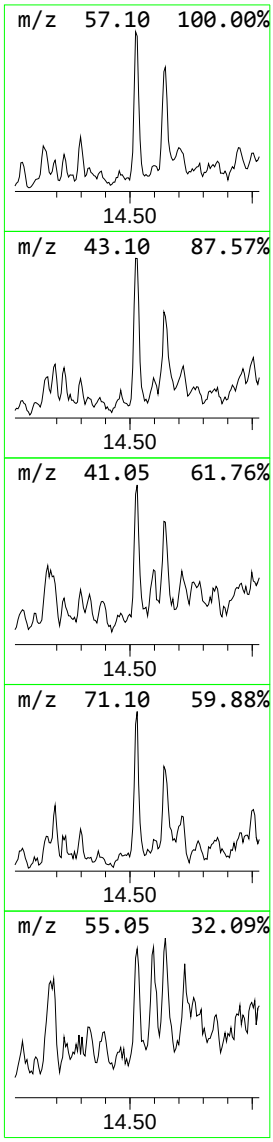
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Peak Number 6 Dodecane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.529 | 8.04 ug/l | 167222 | 1,4-Dichlorobenzene-d4 | 13.346 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane | 170 | C12H26 | 000112-40-3 | 76 |
| 2 | Hexatriacontyl pentafluoropropio... | 669 | C39H73F5O2 | 1000351-89-0 | 64 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 59 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 58 |
| 5 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 58 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022554.D
Acq On : 04 Jun 2025 16:34
Operator : SY/MD
Sample : Q2177-02
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

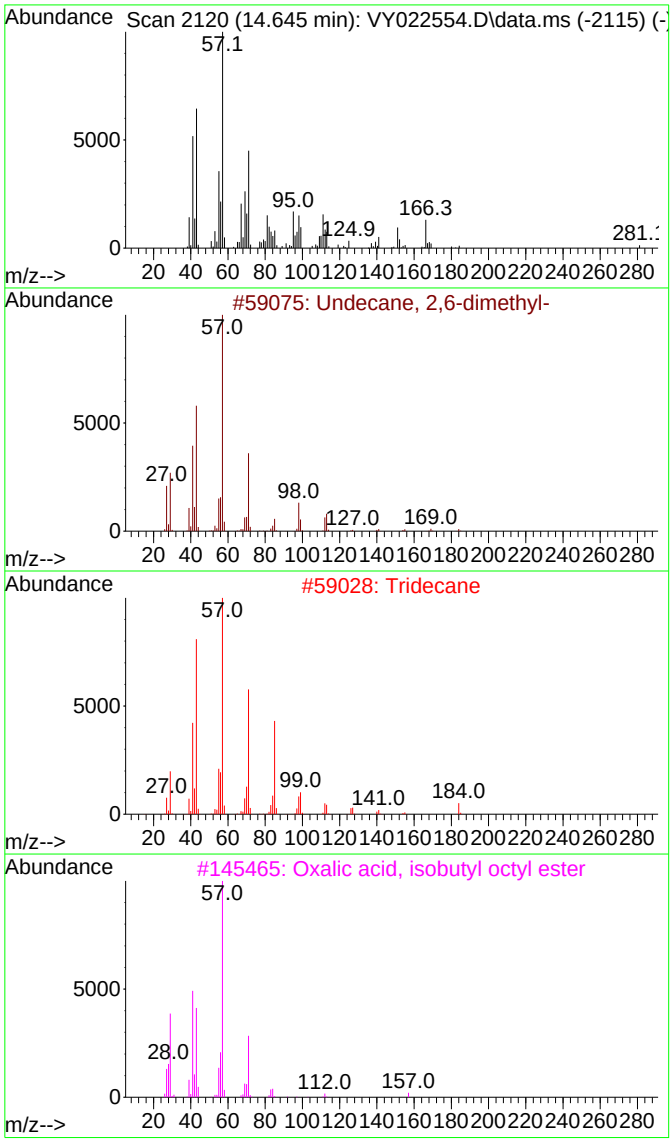
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

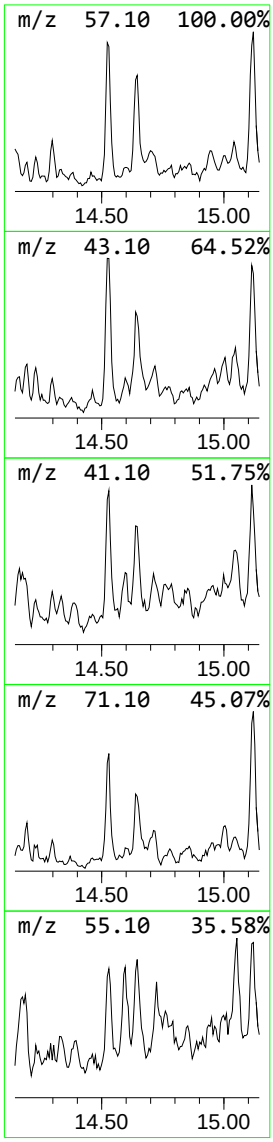
**********

Peak Number 7 Undecane, 2,6-dimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.645 | 7.11 ug/l | 147770 | 1,4-Dichlorobenzene-d4 | 13.346 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane, 2,6-dimethyl- | 184 | C13H28 | 017301-23-4 | 60 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 47 |
| 3 | Oxalic acid, isobutyl octyl ester | 258 | C14H26O4 | 1000309-37-3 | 38 |
| 4 | Heptadecane | 240 | C17H36 | 000629-78-7 | 38 |
| 5 | Eicosane, 10-methyl- | 296 | C21H44 | 054833-23-7 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022554.D
Acq On : 04 Jun 2025 16:34
Operator : SY/MD
Sample : Q2177-02
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

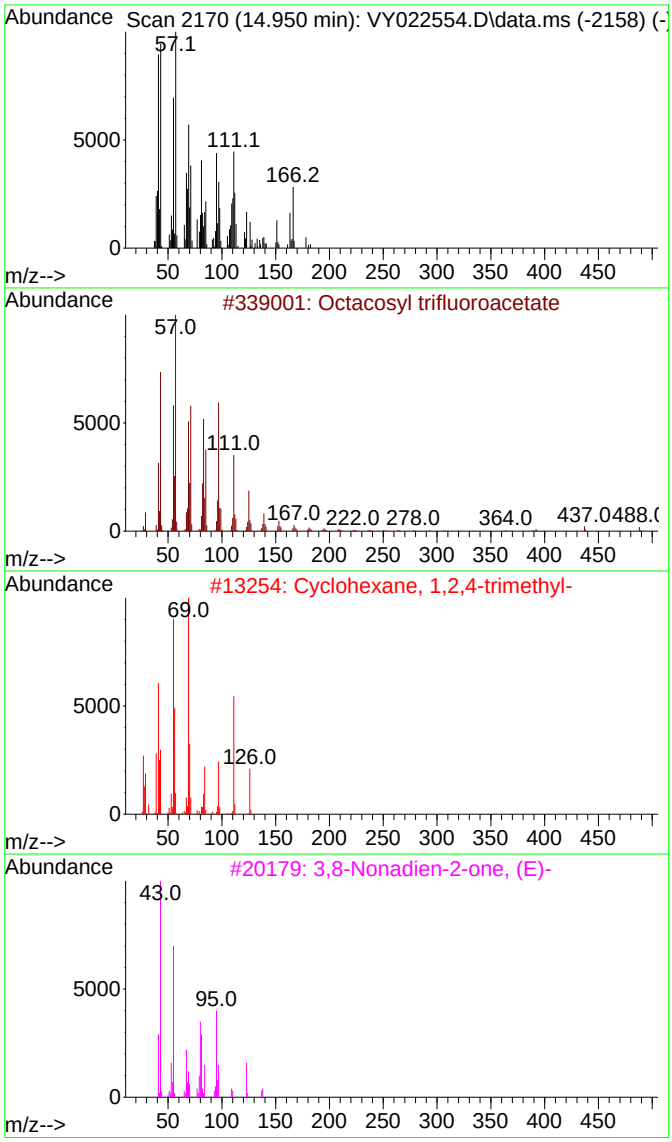
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

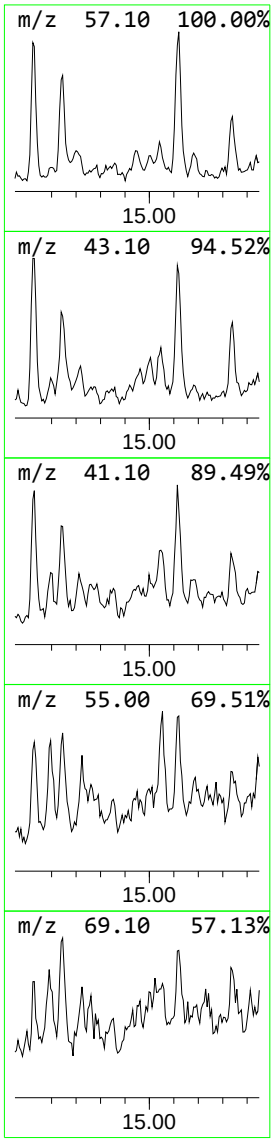
**********

Peak Number 8 unknown14.950 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.950 | 5.87 ug/l | 122046 | 1,4-Dichlorobenzene-d4 | 13.346 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octacosyl trifluoroacetate | 506 | C30H57F3O2 | 1000351-74-9 | 27 |
| 2 | Cyclohexane, 1,2,4-trimethyl- | 126 | C9H18 | 002234-75-5 | 25 |
| 3 | 3,8-Nonadien-2-one, (E)- | 138 | C9H14O | 055282-90-1 | 25 |
| 4 | 1-Hexene-3,5-dione | 112 | C6H8O2 | 052204-69-0 | 18 |
| 5 | Cyclohexane, (1,2-dimethylbutyl)- | 168 | C12H24 | 061142-37-8 | 14 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022554.D
Acq On : 04 Jun 2025 16:34
Operator : SY/MD
Sample : Q2177-02
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

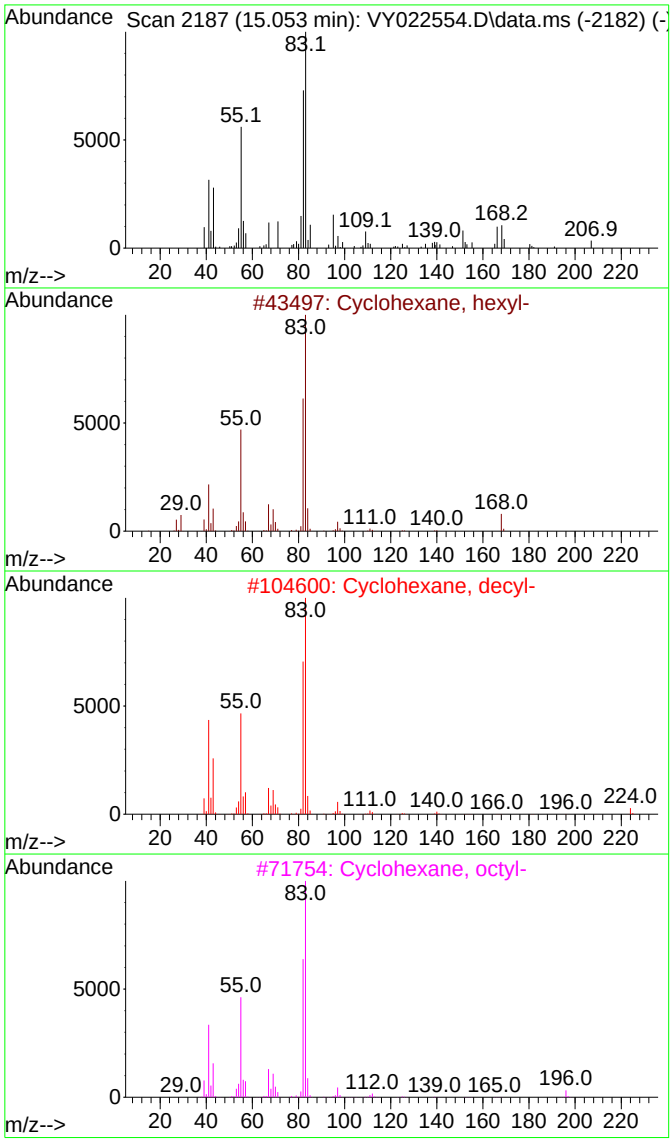
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TIC Integration Parameters: LSCINT.P

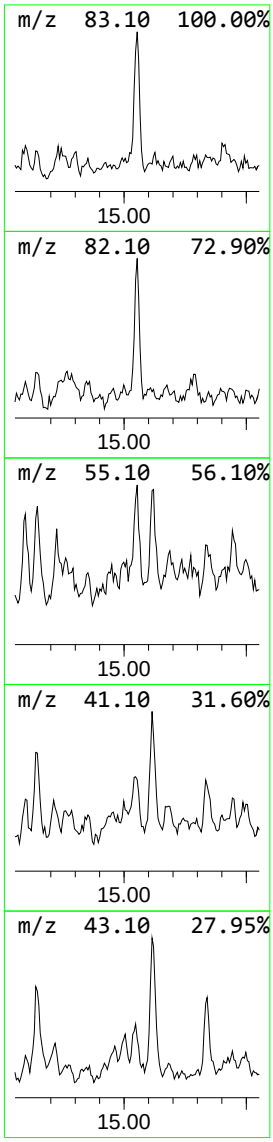
**********

Peak Number 9 Cyclohexane, hexyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.053 | 5.45 ug/l | 113337 | 1,4-Dichlorobenzene-d4 | 13.346 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, hexyl- | 168 | C12H24 | 004292-75-5 | 64 |
| 2 | Cyclohexane, decyl- | 224 | C16H32 | 001795-16-0 | 50 |
| 3 | Cyclohexane, octyl- | 196 | C14H28 | 001795-15-9 | 50 |
| 4 | Acetamide, n-propyl-2-(4H-[1,2,4... | 168 | C7H12N4O | 1000302-15-8 | 47 |
| 5 | 2H-Quinolizine-1-methanol, octah... | 169 | C10H19NO | 000486-70-4 | 43 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022554.D
Acq On : 04 Jun 2025 16:34
Operator : SY/MD
Sample : Q2177-02
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

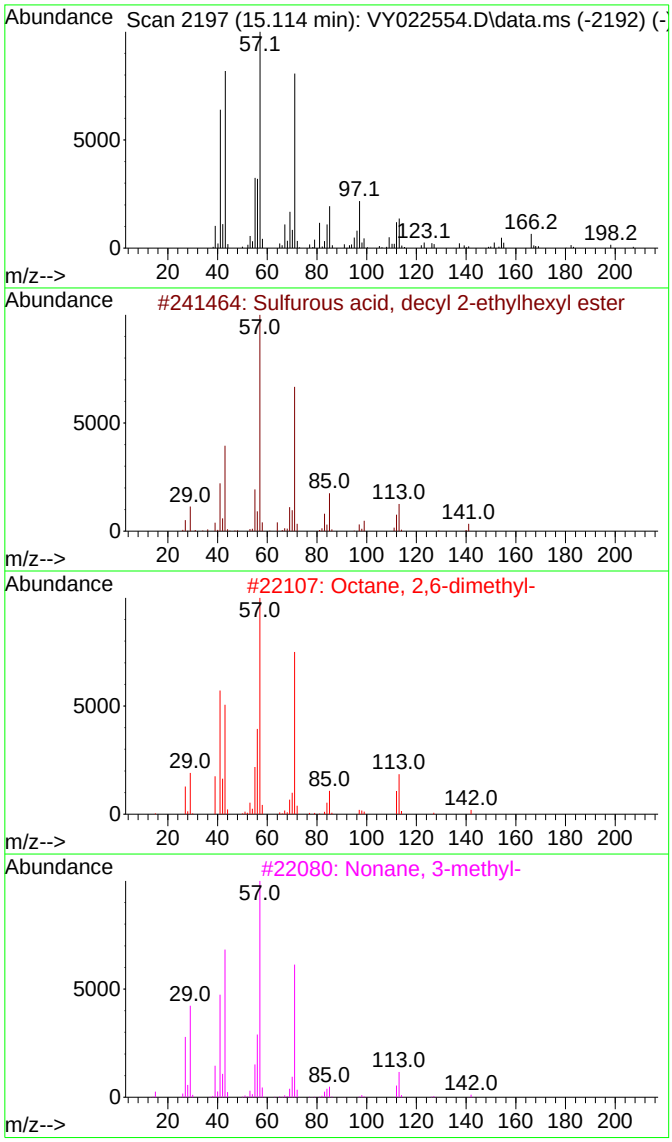
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

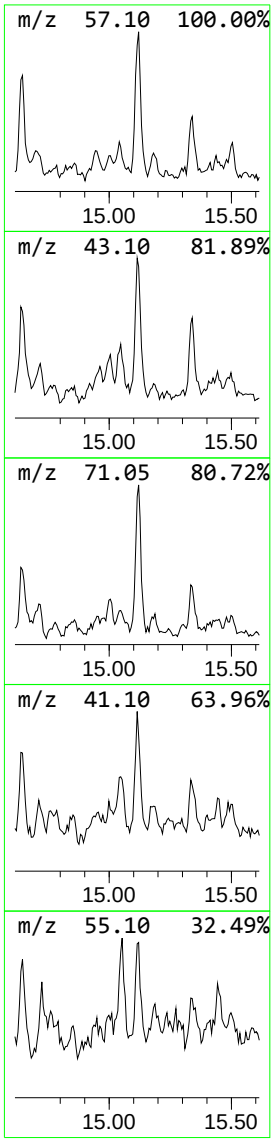
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 10 Sulfurous acid, decyl 2-eth... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.114 | 8.44 ug/l | 175391 | 1,4-Dichlorobenzene-d4 | 13.346 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Sulfurous acid, decyl 2-ethylhex... | 334 | C18H38O3S | 1000309-19-3 | 59 |
| 2 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 59 |
| 3 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 53 |
| 4 | 3-Bromooctane | 192 | C8H17Br | 000999-64-4 | 49 |
| 5 | Octane, 2-bromo- | 192 | C8H17Br | 000557-35-7 | 43 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022554.D
Acq On : 04 Jun 2025 16:34
Operator : SY/MD
Sample : Q2177-02
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.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 |
| Nonane, 4-methyl- | 12.334 | 5.7 | ug/l | 144724 | 3 | 11.414 | 1273250 | 50.0 |
| Decane | 12.725 | 14.4 | ug/l | 298837 | 4 | 13.346 | 1039420 | 50.0 |
| Cyclohexane, bu... | 13.237 | 5.5 | ug/l | 113643 | 4 | 13.346 | 1039420 | 50.0 |
| Carbonic acid, ... | 13.669 | 8.3 | ug/l | 172783 | 4 | 13.346 | 1039420 | 50.0 |
| Naphthalene, de... | 14.169 | 8.1 | ug/l | 168087 | 4 | 13.346 | 1039420 | 50.0 |
| Dodecane | 14.529 | 8.0 | ug/l | 167222 | 4 | 13.346 | 1039420 | 50.0 |
| Undecane, 2,6-d... | 14.645 | 7.1 | ug/l | 147770 | 4 | 13.346 | 1039420 | 50.0 |
| unknown14.950 | 14.950 | 5.9 | ug/l | 122046 | 4 | 13.346 | 1039420 | 50.0 |
| Cyclohexane, he... | 15.053 | 5.5 | ug/l | 113337 | 4 | 13.346 | 1039420 | 50.0 |
| Sulfurous acid,... | 15.114 | 8.4 | ug/l | 175391 | 4 | 13.346 | 1039420 | 50.0 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022555.D
Acq On : 04 Jun 2025 16:58
Operator : SY/MD
Sample : Q2177-04
Misc : 6.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB02

Quant Time: Jun 05 04:18:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

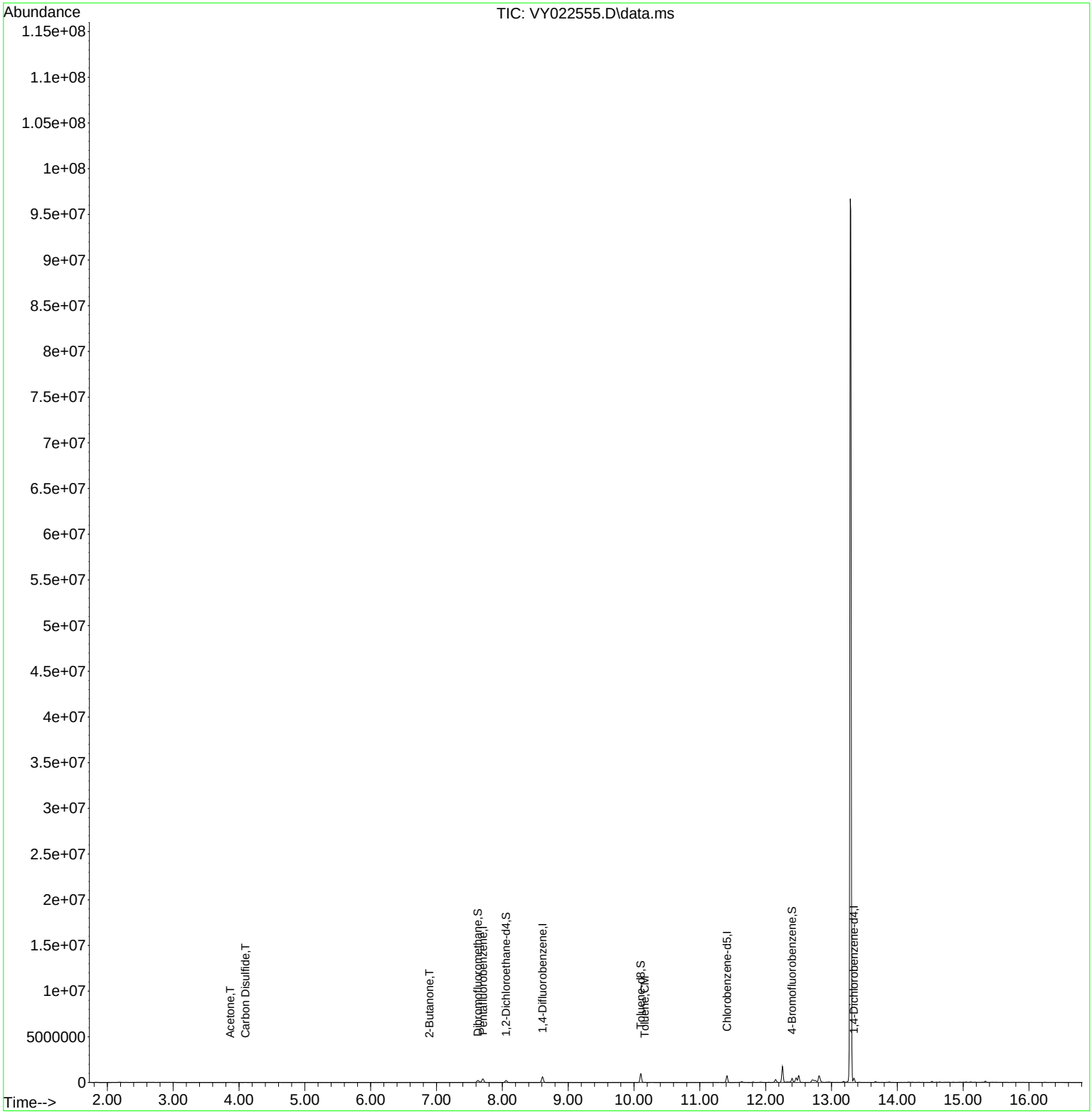
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 280753 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 497958 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 360175 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 103121 | 50.000 | ug/l | # | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 163448 | 52.052 | ug/l | | -0.01 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 104.100% | | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 154902 | 52.117 | ug/l | | -0.01 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 104.240% | | | | |
| 50) Toluene-d8 | 10.103 | 98 | 596438 | 49.663 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 99.320% | | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 118458 | 33.105 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 66.200% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 16) Acetone | 3.866 | 43 | 33897 | 53.155 | ug/l | | 97 |
| 17) Carbon Disulfide | 4.098 | 76 | 24493 | 2.598 | ug/l | | 98 |
| 25) 2-Butanone | 6.890 | 43 | 8145 | 8.855 | ug/l | # | 82 |
| 52) Toluene | 10.164 | 92 | 10437 | 1.166 | ug/l | | 99 |

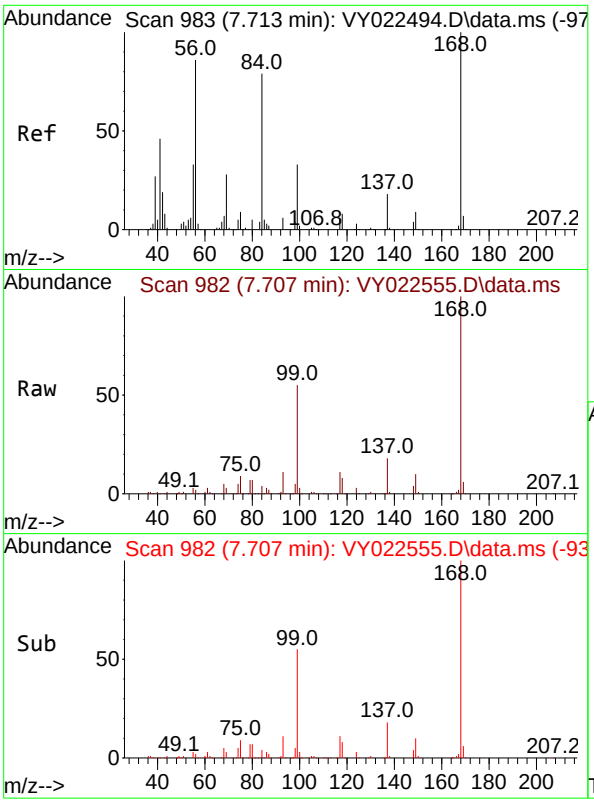
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022555.D
Acq On : 04 Jun 2025 16:58
Operator : SY/MD
Sample : Q2177-04
Misc : 6.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB02

Quant Time: Jun 05 04:18:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration



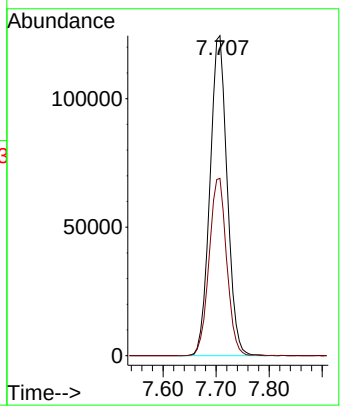


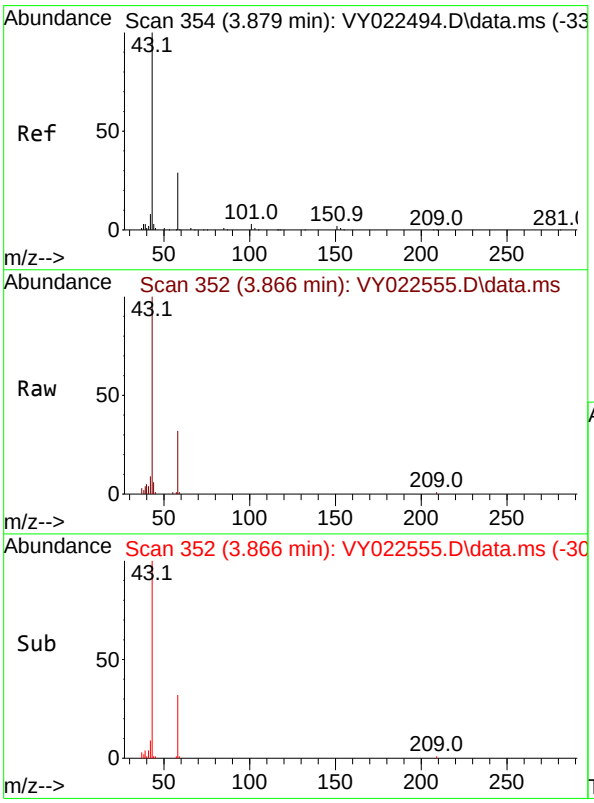

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB02

Tgt Ion:168 Resp: 280753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.4 | 44.3 | 66.5 |

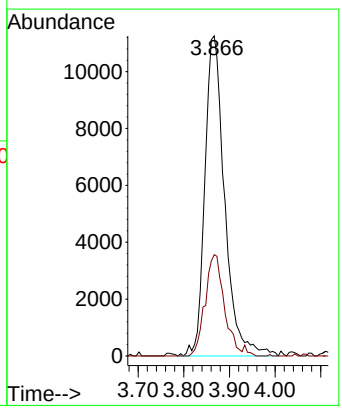


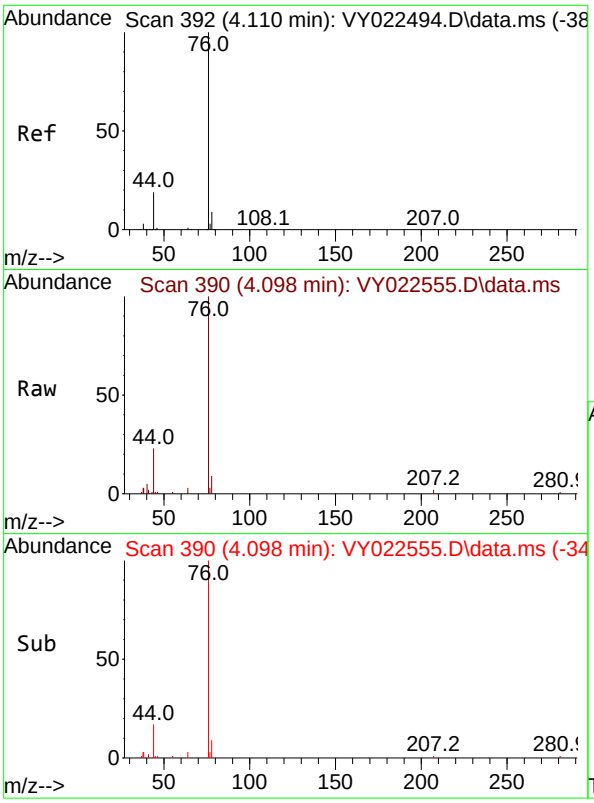




#16
Acetone
Concen: 53.155 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.012 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

Tgt Ion: 43 Resp: 33897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.6 | 24.0 | 36.0 |



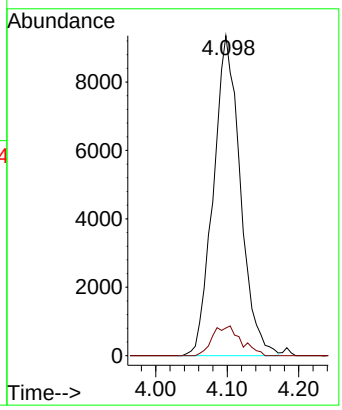


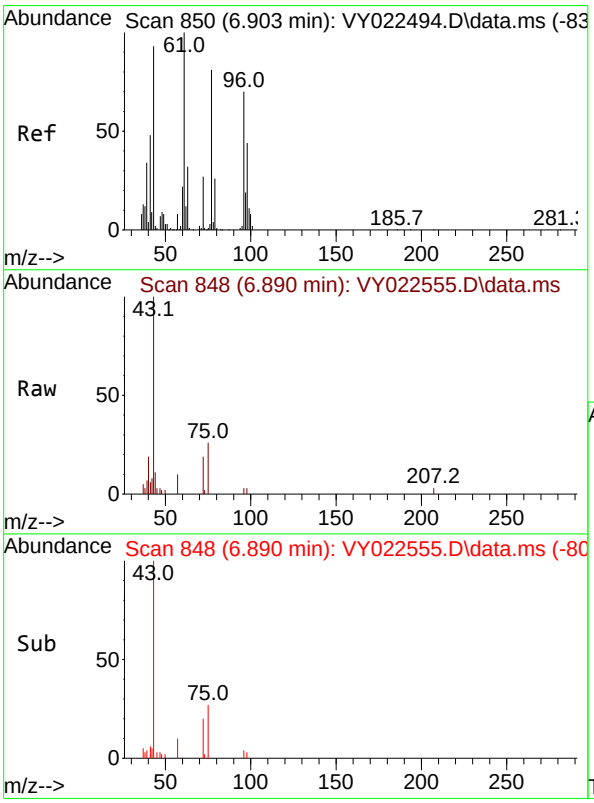

#17
Carbon Disulfide
Concen: 2.598 ug/l
RT: 4.098 min Scan# 3
Delta R.T. -0.012 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB02

Tgt Ion: 76 Resp: 24493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.7 | 7.4 | 11.2 |

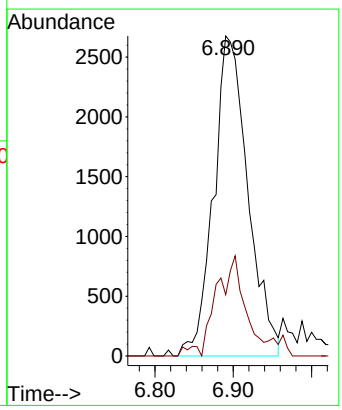


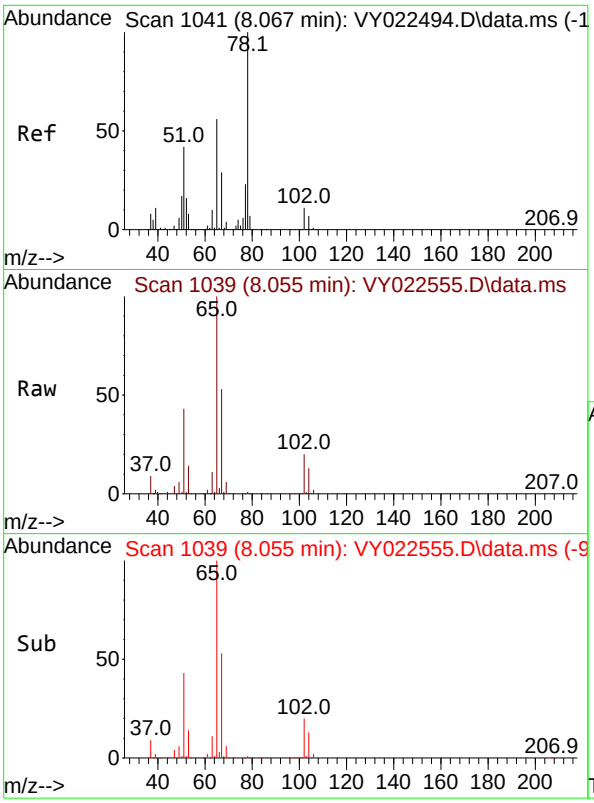




#25
2-Butanone
Concen: 8.855 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.012 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

Tgt Ion: 43 Resp: 8145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 19.2 | 22.9 | 34.3# |



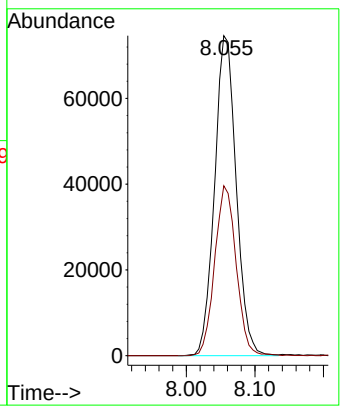


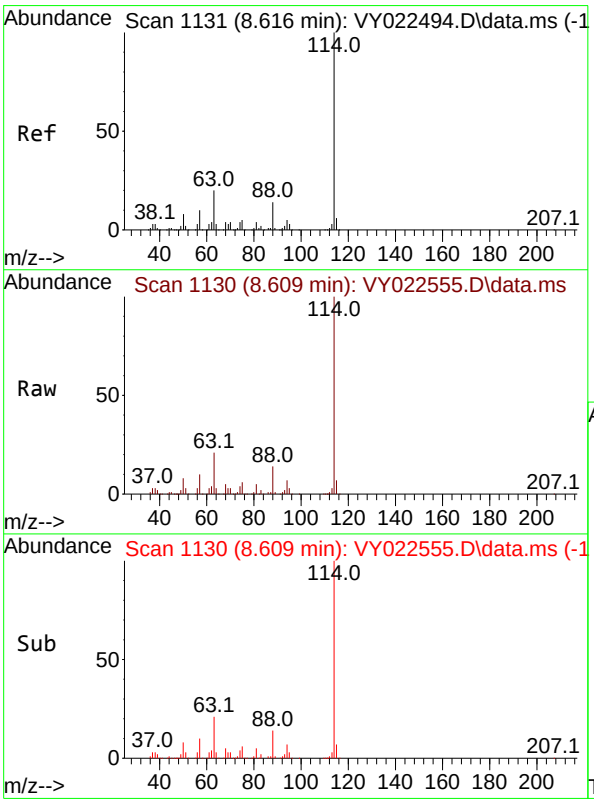

#33
1,2-Dichloroethane-d4
Concen: 52.052 ug/l
RT: 8.055 min Scan# 1
Delta R.T. -0.012 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB02

Tgt Ion: 65 Resp: 163448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.6 | 0.0 | 103.4 |

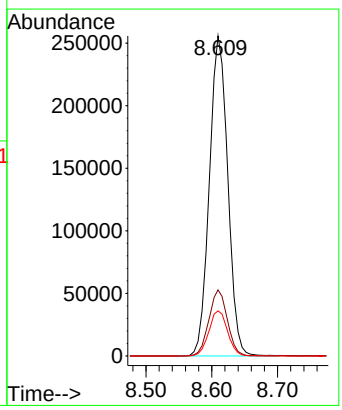


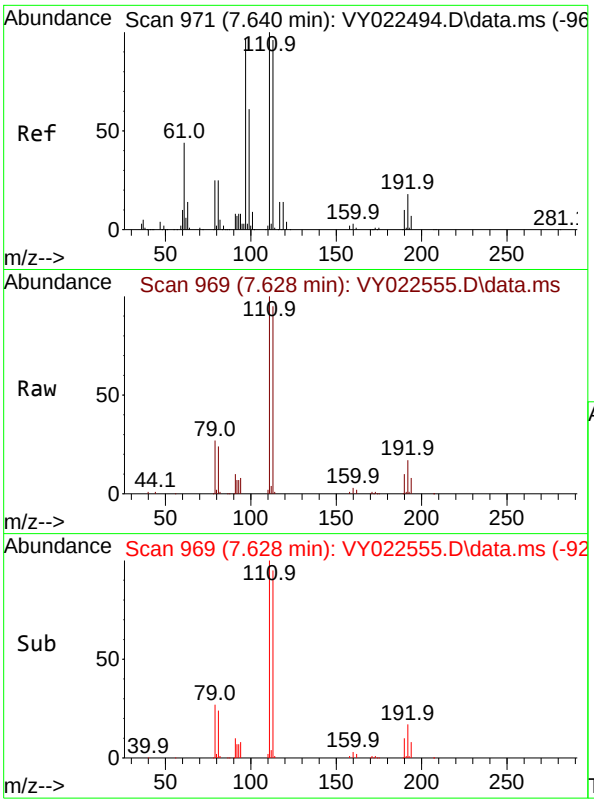




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

Tgt Ion:114 Resp: 497958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.7 | 0.0 | 40.8 |
| 88 | 14.1 | 0.0 | 27.8 |



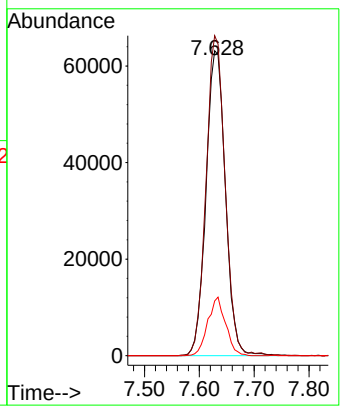


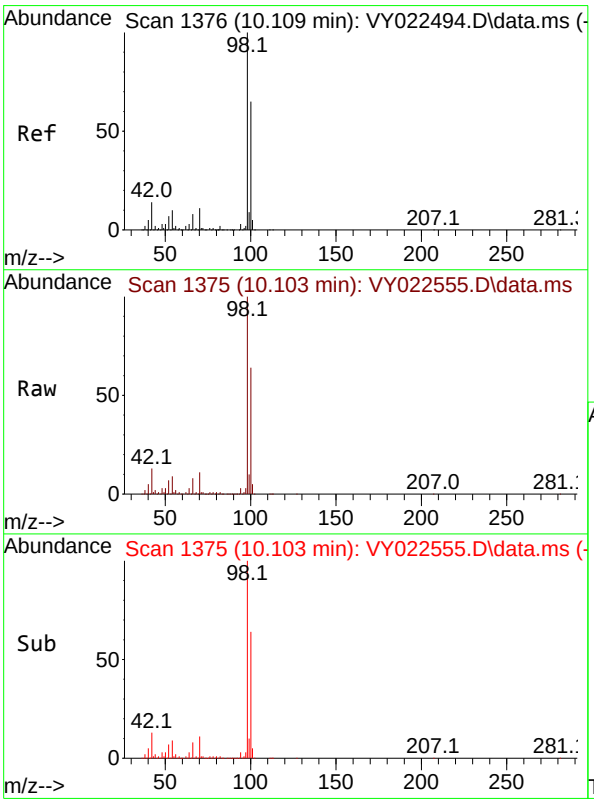

#35
Dibromofluoromethane
Concen: 52.117 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB02

Tgt Ion:113 Resp: 154902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.3 | 81.1 | 121.7 |
| 192 | 17.7 | 14.2 | 21.2 |

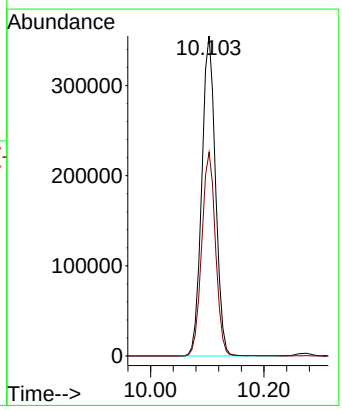


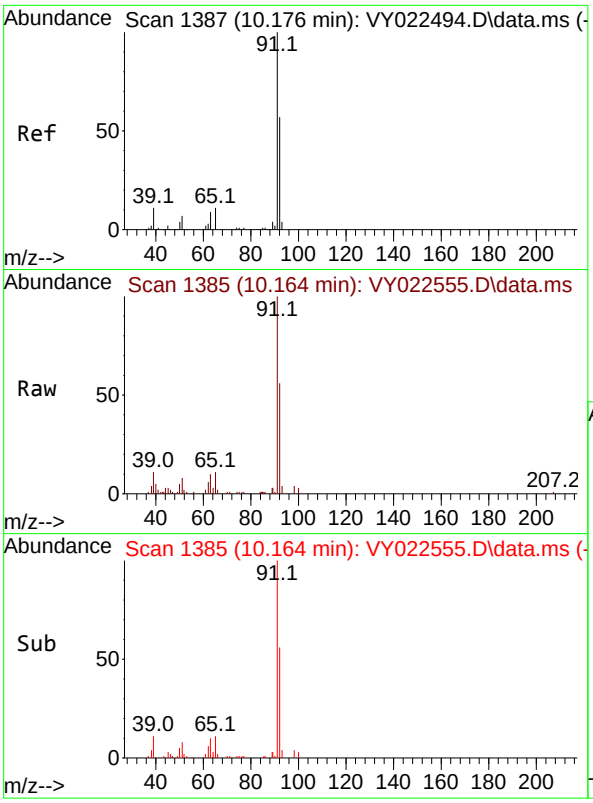




#50
Toluene-d8
Concen: 49.663 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

Tgt Ion: 98 Resp: 596438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.9 | 51.4 | 77.0 |



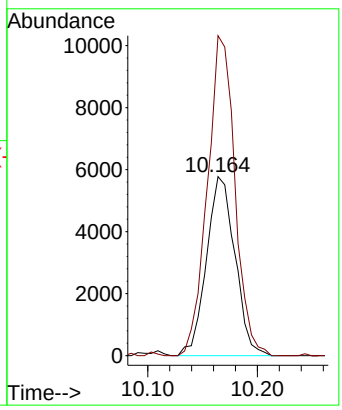


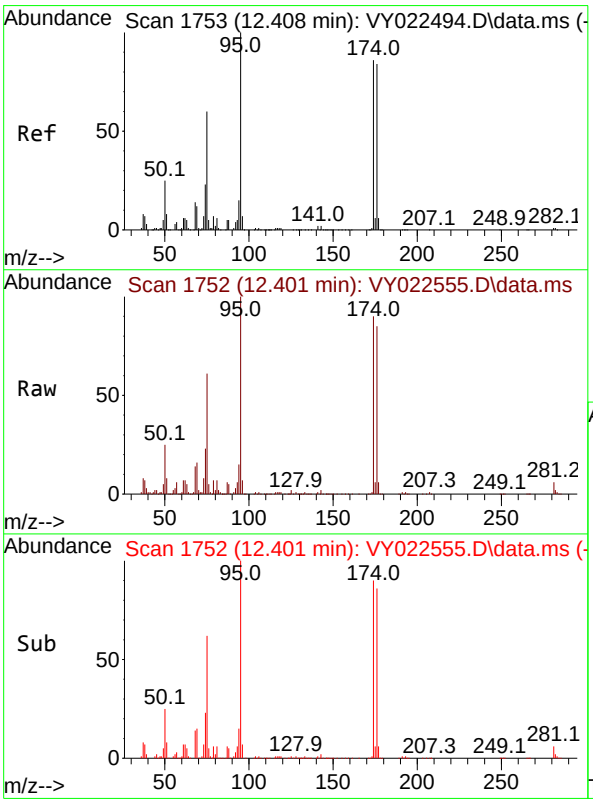

#52
Toluene
Concen: 1.166 ug/l
RT: 10.164 min Scan# 1
Delta R.T. -0.012 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB02

Tgt Ion: 92 Resp: 10437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.7 | 139.0 | 208.4 |

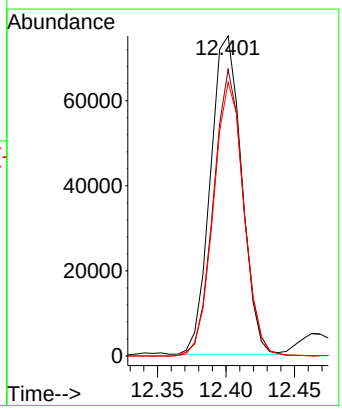


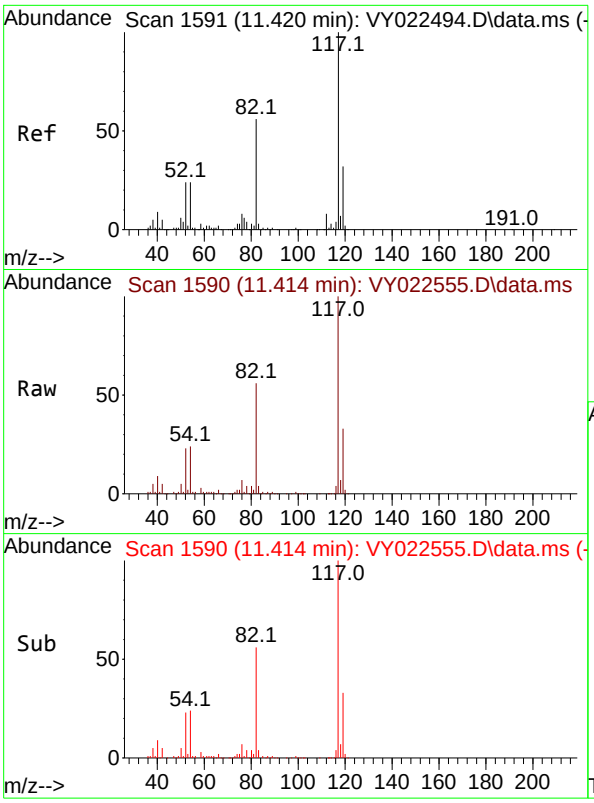




#62
4-Bromofluorobenzene
Concen: 33.105 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

Tgt Ion: 95 Resp: 118458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.3 | 0.0 | 170.0 |
| 176 | 83.9 | 0.0 | 166.2 |



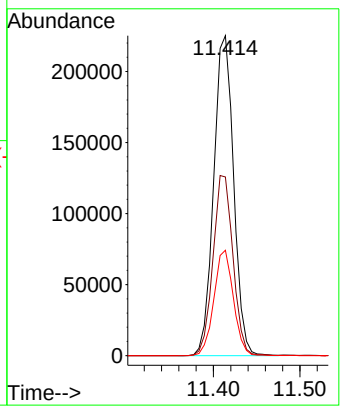


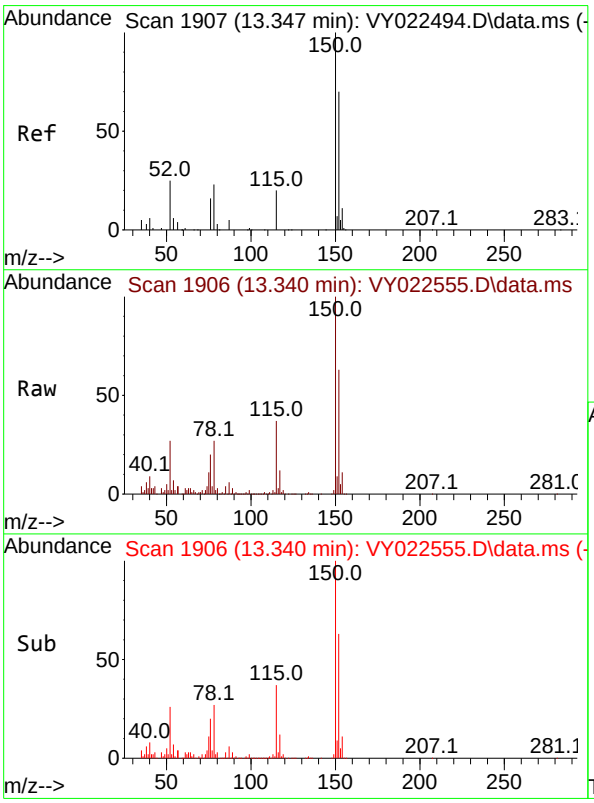

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB02

Tgt Ion:117 Resp: 360175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.9 | 44.6 | 66.8 |
| 119 | 33.0 | 25.4 | 38.0 |

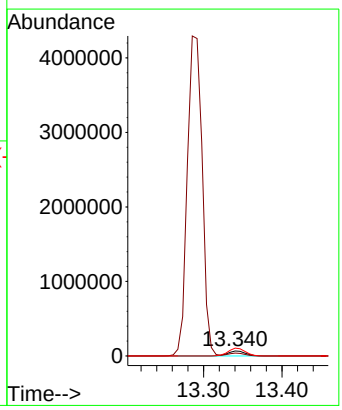



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.006 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

Tgt Ion:152 Resp: 103121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 0.0 | 28.9 | 86.7# |
| 150 | 154.6 | 0.0 | 349.6 |



Sample Results: **VY022555.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022555.D
Acq On : 04 Jun 2025 16:58
Operator : SY/MD
Sample : Q2177-04
Misc : 6.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB02

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Title : SW846 8260

Signal : TIC: VY022555.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 10.103 | 1367 | 1375 | 1382 | rBV | 956430 | 1628455 | 1.17% | 1.133% |
| 2 | 12.255 | 1721 | 1728 | 1734 | rBV | 1744031 | 2666821 | 1.91% | 1.855% |
| 3 | 13.285 | 1885 | 1897 | 1903 | rBV | 96671722 | 139482274 | 100.00% | 97.013% |

Sum of corrected areas: 143777550

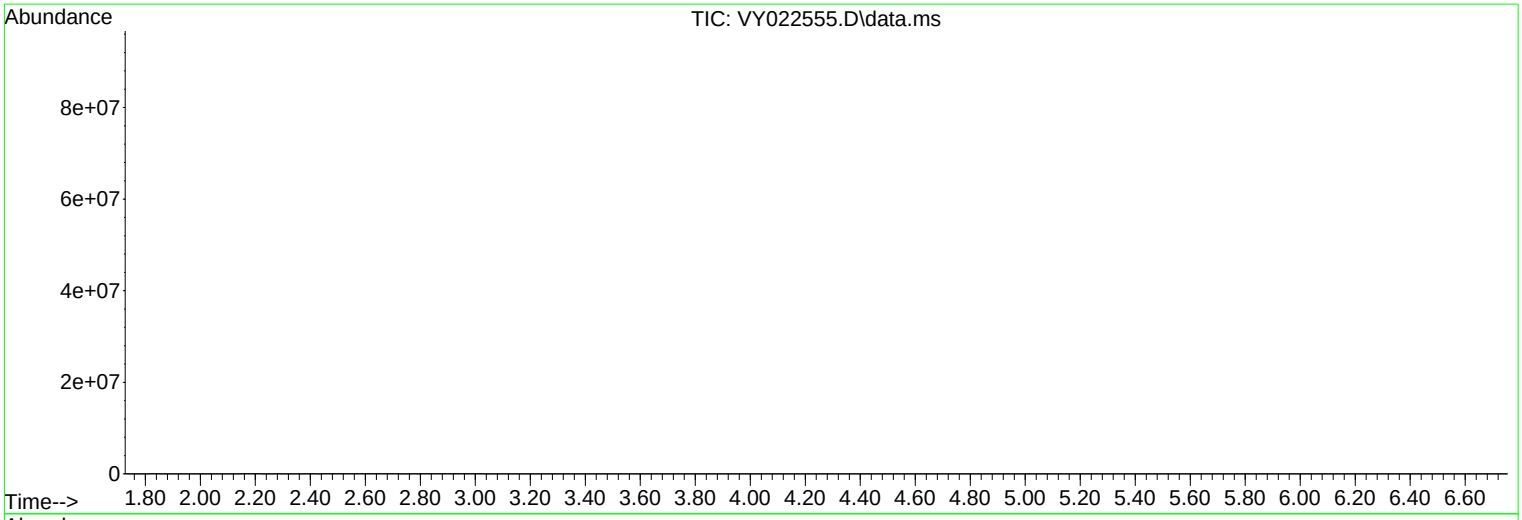
Sample Results: **VY022555.D**

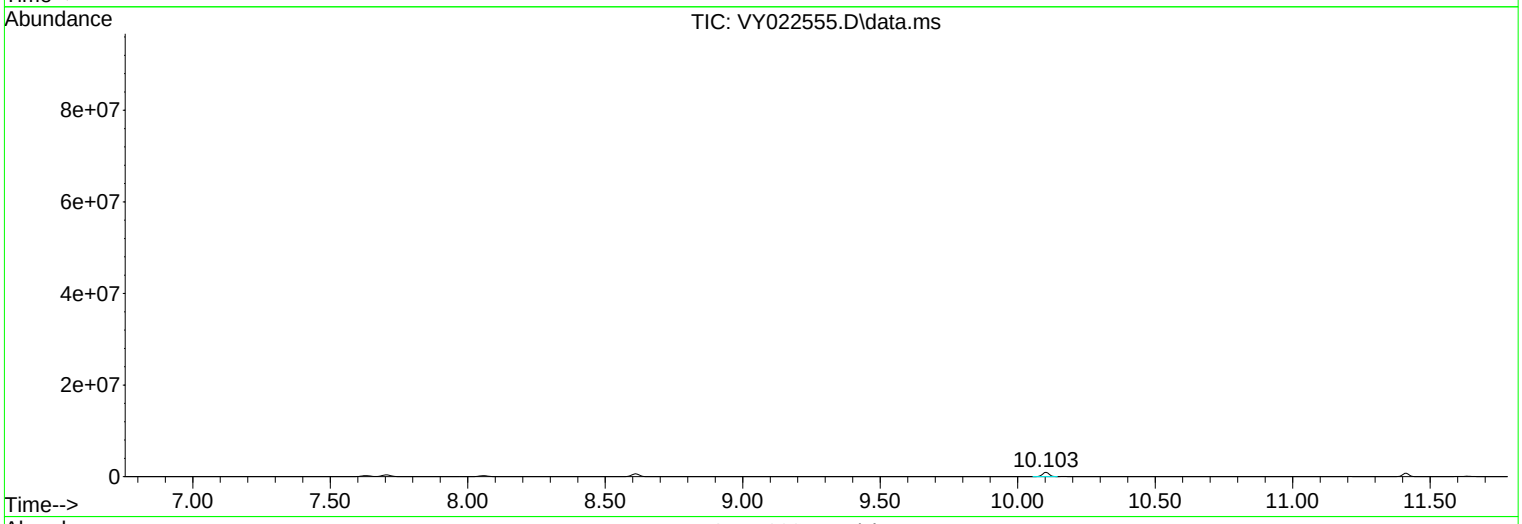
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022555.D
Acq On : 04 Jun 2025 16:58
Operator : SY/MD
Sample : Q2177-04
Misc : 6.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

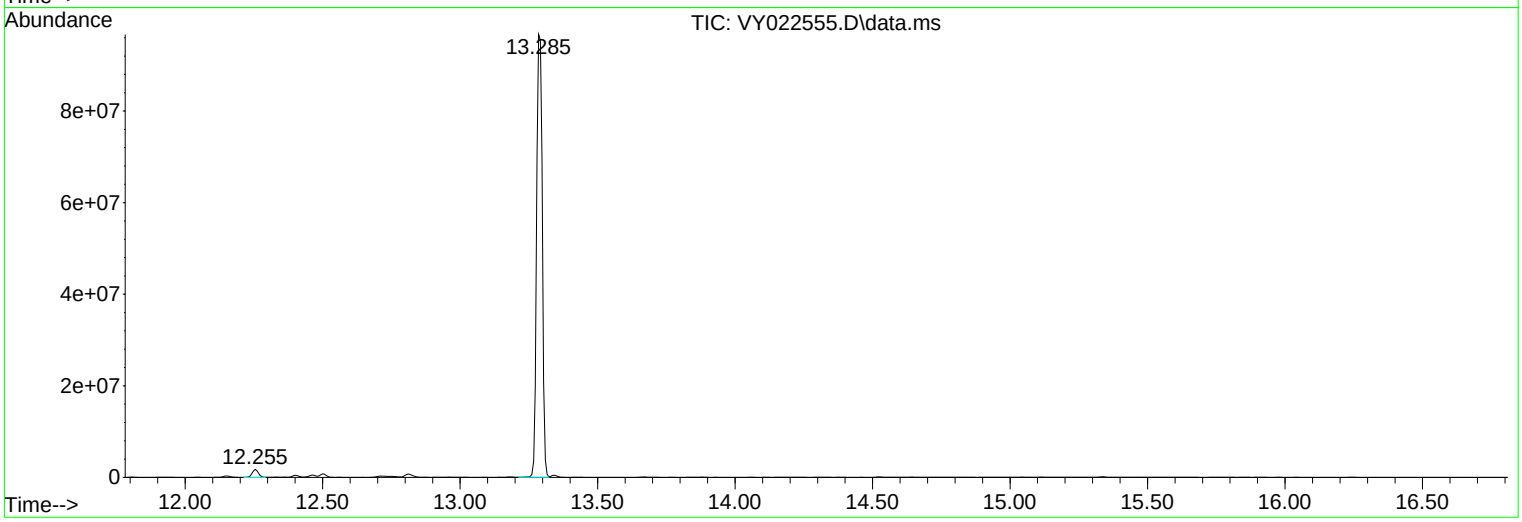
**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022555.D
Acq On : 04 Jun 2025 16:58
Operator : SY/MD
Sample : Q2177-04
Misc : 6.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

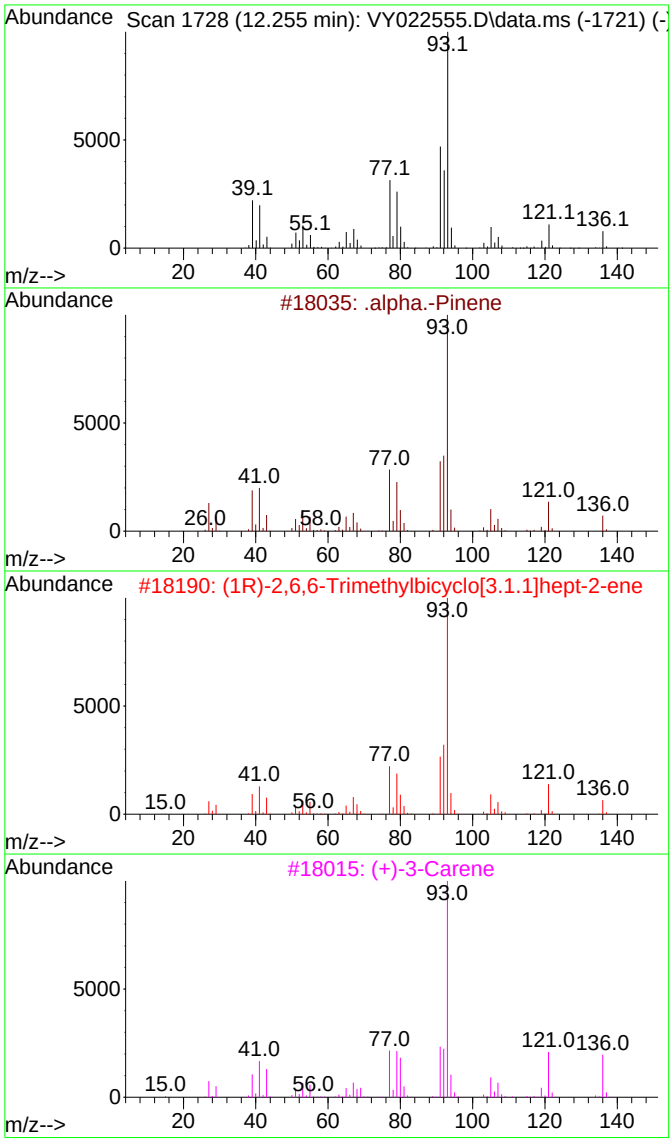
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

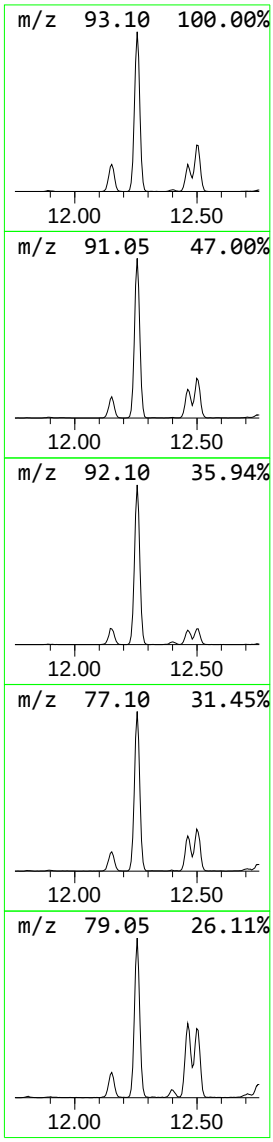
**********

Peak Number 1 .alpha.-Pinene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.255 | 50.00 ug/l | 2666820 | Chlorobenzene-d5 | 11.414 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .alpha.-Pinene | 136 | C10H16 | 000080-56-8 | 97 |
| 2 | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16 | 007785-70-8 | 94 |
| 3 | (+)-3-Carene | 136 | C10H16 | 000498-15-7 | 91 |
| 4 | Bicyclo[3.1.1]hept-2-ene, 3,6,6-... | 136 | C10H16 | 004889-83-2 | 91 |
| 5 | (1S)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16 | 007785-26-4 | 90 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022555.D
Acq On : 04 Jun 2025 16:58
Operator : SY/MD
Sample : Q2177-04
Misc : 6.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB02

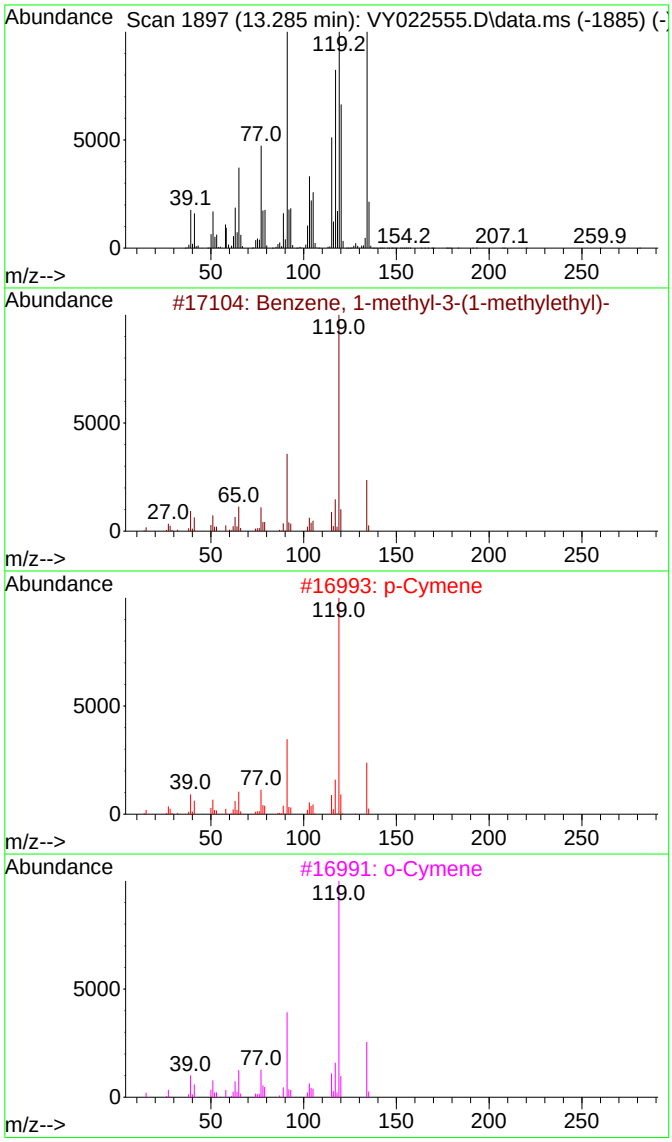
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

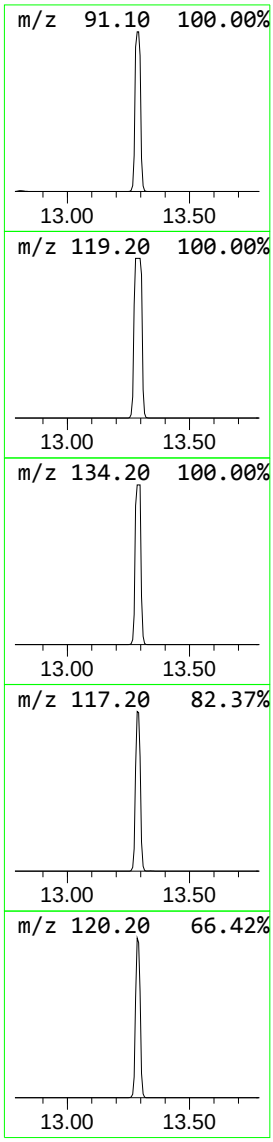
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 Benzene, 1-methyl-3-(1-meth... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.285 | 50.00 ug/l | 139482000 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 81 |
| 2 | p-Cymene | 134 | C10H14 | 000099-87-6 | 76 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 62 |
| 4 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 46 |
| 5 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 46 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022555.D
Acq On : 04 Jun 2025 16:58
Operator : SY/MD
Sample : Q2177-04
Misc : 6.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.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 |
| .alpha.-Pinene | 12.255 | 50.0 | ug/l | 2666820 | 3 | 11.414 | 2666820 | 50.0 |
| Benzene, 1-meth... | 13.285 | 50.0 | ug/l | 139482000 | 4 | 13.340 | 139482000 | 50.0 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
Data File : VY022568.D
Acq On : 05 Jun 2025 12:45
Operator : SY/MD
Sample : Q2177-06
Misc : 6.18g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-202-SB01

Quant Time: Jun 06 01:23:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

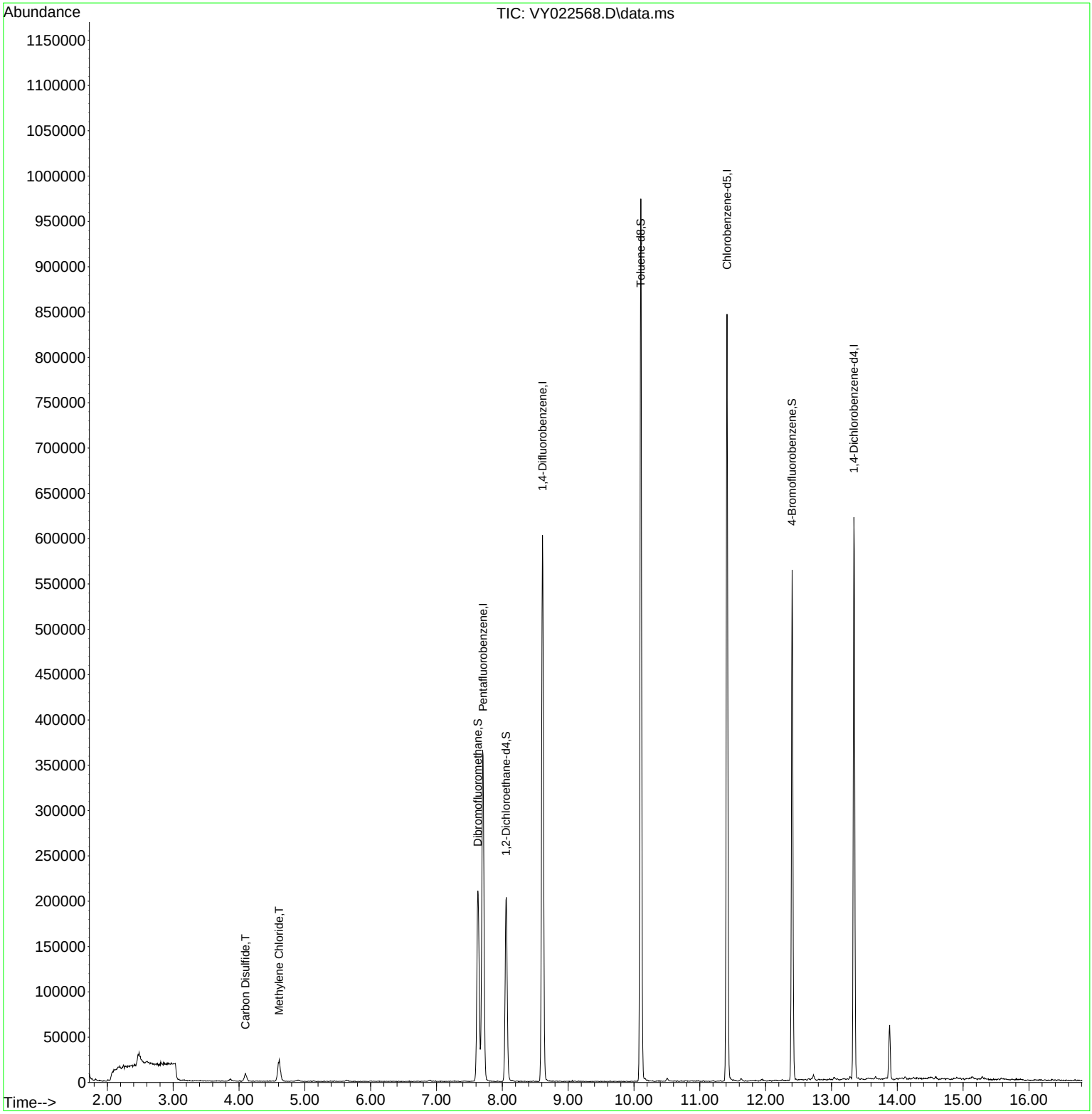
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 270828 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 498576 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 399252 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 144715 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 151083 | 49.878 | ug/l | -0.01 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 99.760% | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 147294 | 49.496 | ug/l | -0.01 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 99.000% | | |
| 50) Toluene-d8 | 10.103 | 98 | 599125 | 49.825 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 99.660% | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 149446 | 41.713 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 83.420% | | |
| Target Compounds | | | | | | Qvalue |
| 17) Carbon Disulfide | 4.098 | 76 | 14692 | 1.616 | ug/l | 99 |
| 20) Methylene Chloride | 4.610 | 84 | 15819 | 4.527 | ug/l | 95 |

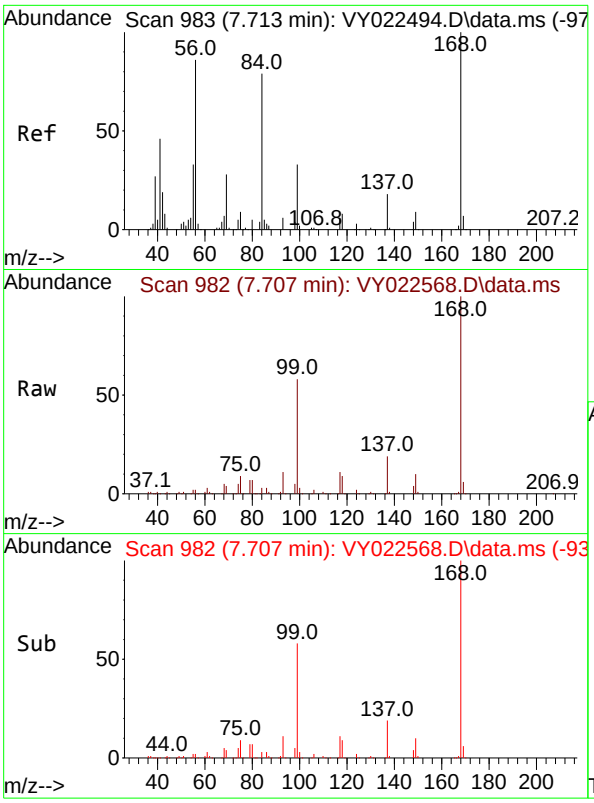
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
Data File : VY022568.D
Acq On : 05 Jun 2025 12:45
Operator : SY/MD
Sample : Q2177-06
Misc : 6.18g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-202-SB01

Quant Time: Jun 06 01:23:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration



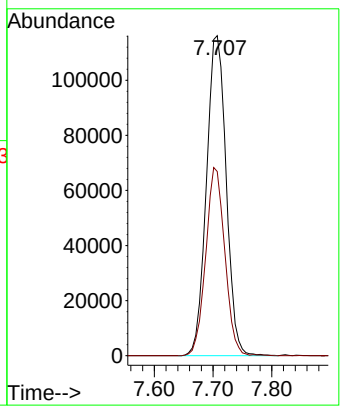


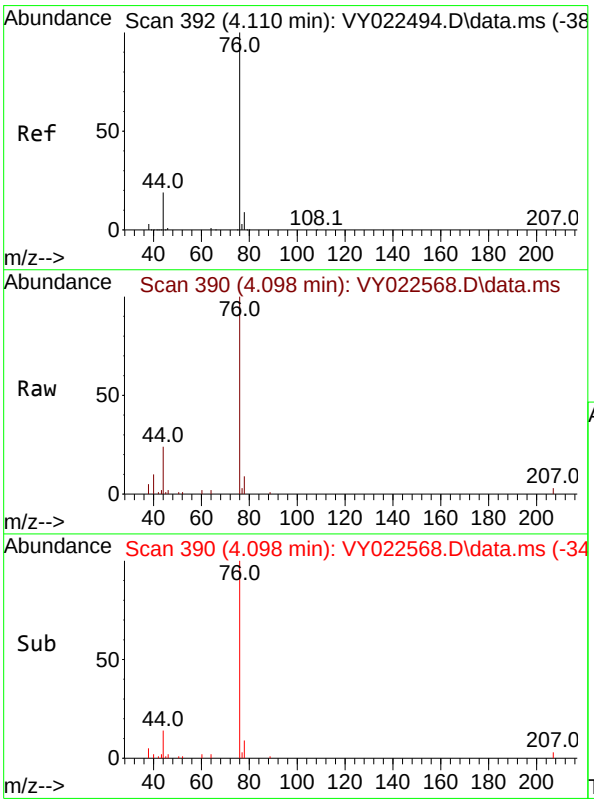

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022568.D
Acq: 05 Jun 2025 12:45

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-202-SB01

Tgt Ion:168 Resp: 270828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.5 | 44.3 | 66.5 |

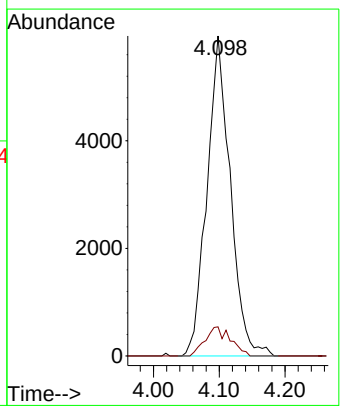


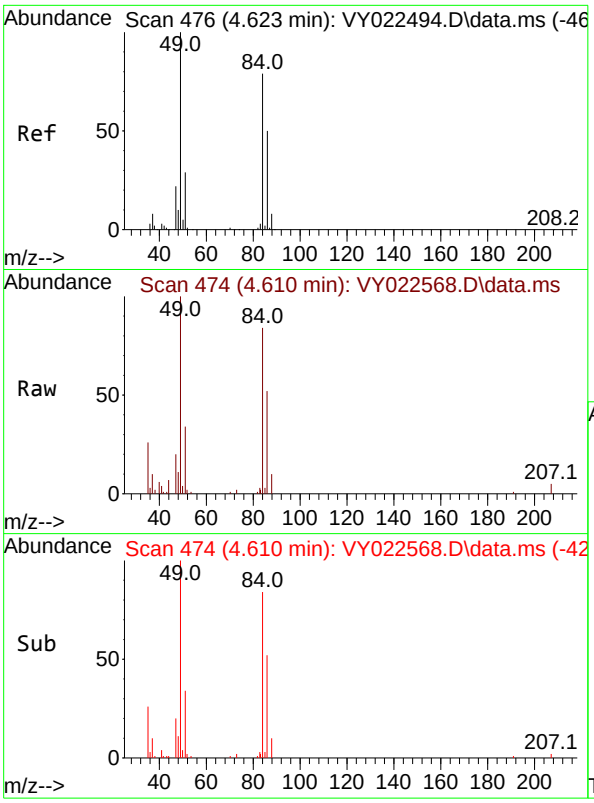




#17
Carbon Disulfide
Concen: 1.616 ug/l
RT: 4.098 min Scan# 390
Delta R.T. -0.012 min
Lab File: VY022568.D
Acq: 05 Jun 2025 12:45

Tgt Ion: 76 Resp: 14692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.4 | 11.2 |



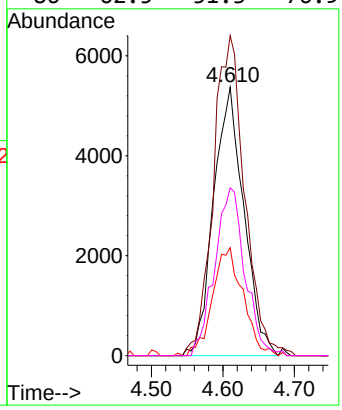


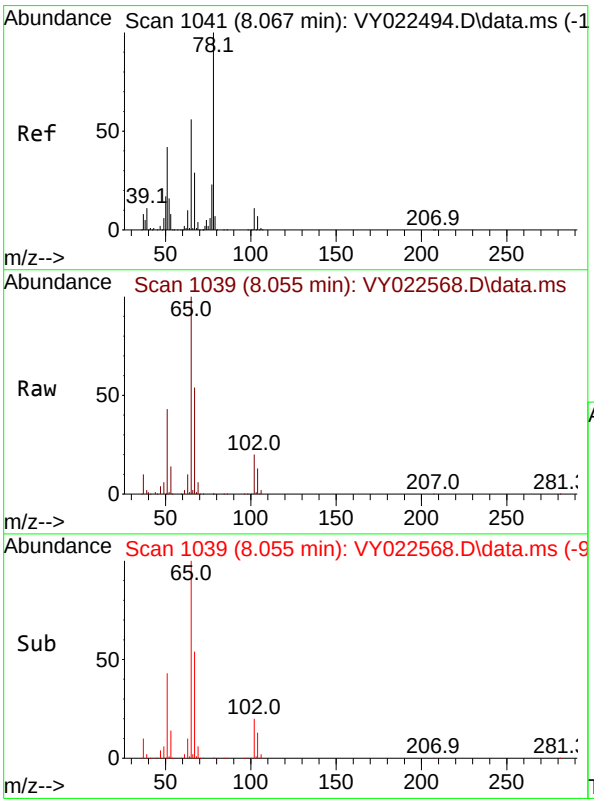

#20
Methylene Chloride
Concen: 4.527 ug/l
RT: 4.610 min Scan# 4
Delta R.T. -0.012 min
Lab File: VY022568.D
Acq: 05 Jun 2025 12:45

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-202-SB01

Tgt Ion: 84 Resp: 15819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 119.2 | 101.9 | 152.9 |
| 51 | 40.2 | 29.8 | 44.8 |
| 86 | 62.5 | 51.3 | 76.9 |

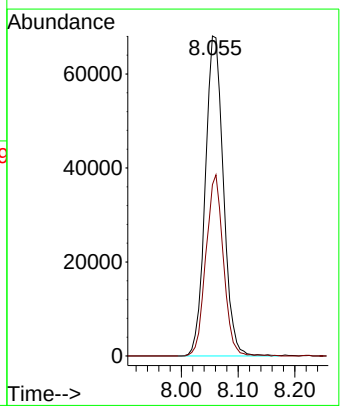


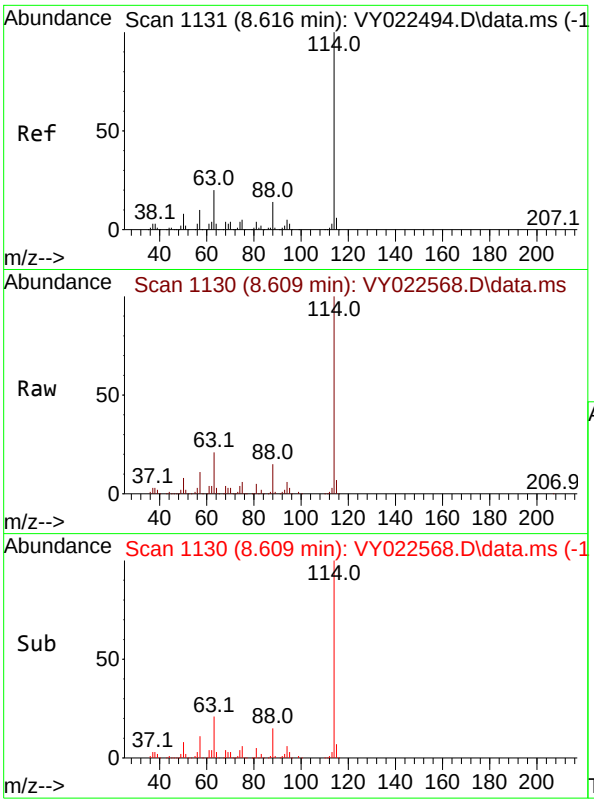




#33
1,2-Dichloroethane-d4
Concen: 49.878 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.012 min
Lab File: VY022568.D
Acq: 05 Jun 2025 12:45

Tgt Ion: 65 Resp: 151083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.5 | 0.0 | 103.4 |



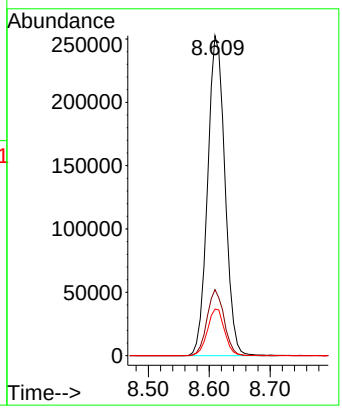


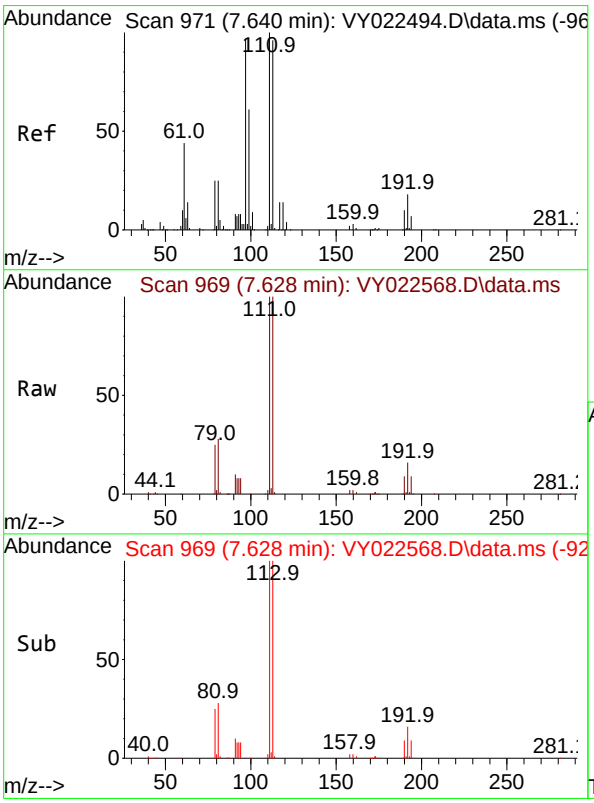

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022568.D
Acq: 05 Jun 2025 12:45

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-202-SB01

Tgt Ion:114 Resp: 498576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.7 | 0.0 | 40.8 |
| 88 | 14.5 | 0.0 | 27.8 |

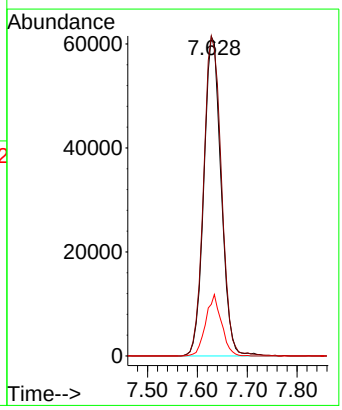


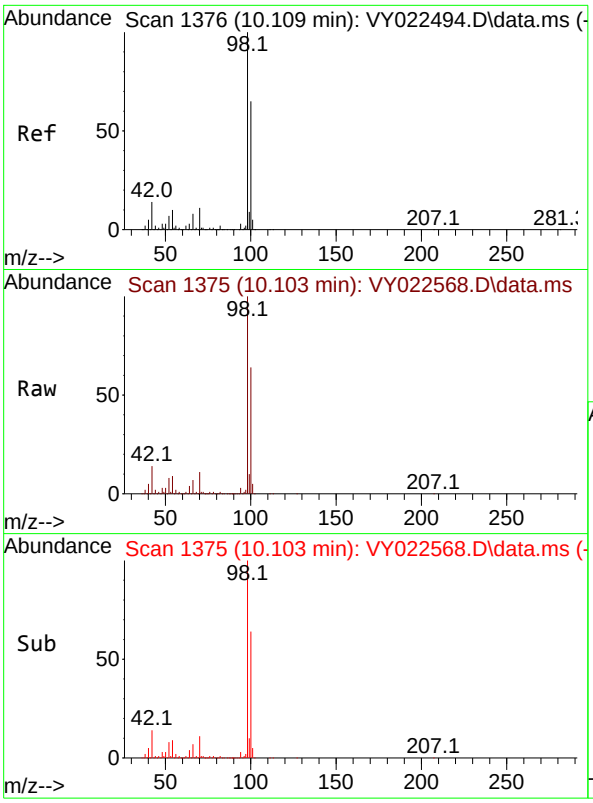




#35
Dibromofluoromethane
Concen: 49.496 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.012 min
Lab File: VY022568.D
Acq: 05 Jun 2025 12:45

Tgt Ion:113 Resp: 147294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.7 | 81.1 | 121.7 |
| 192 | 17.6 | 14.2 | 21.2 |



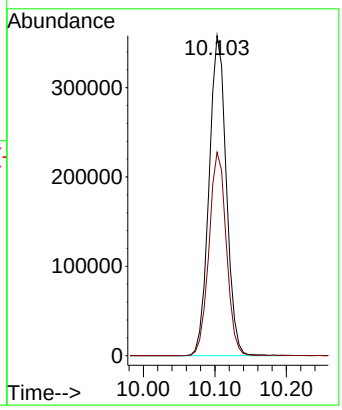


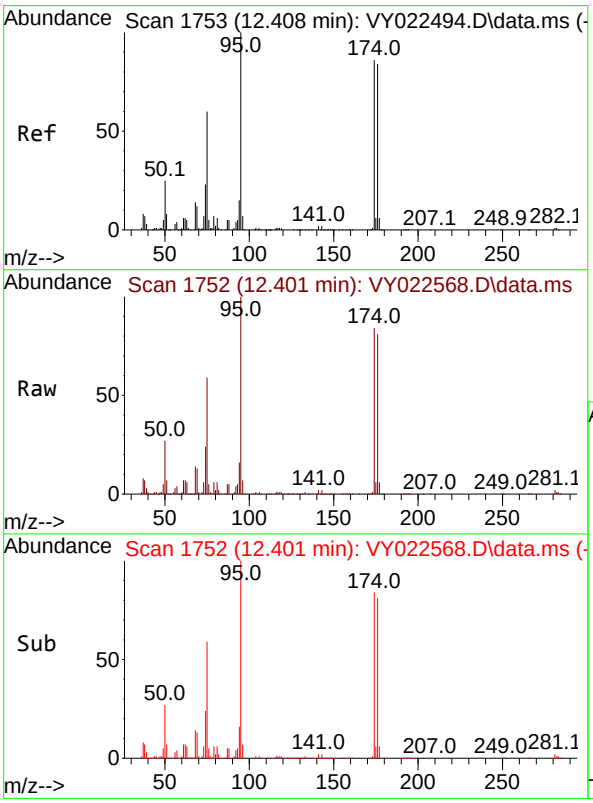

#50
Toluene-d8
Concen: 49.825 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022568.D
Acq: 05 Jun 2025 12:45

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-202-SB01

Tgt Ion: 98 Resp: 599125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.9 | 51.4 | 77.0 |

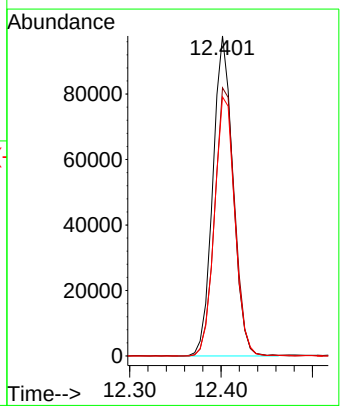


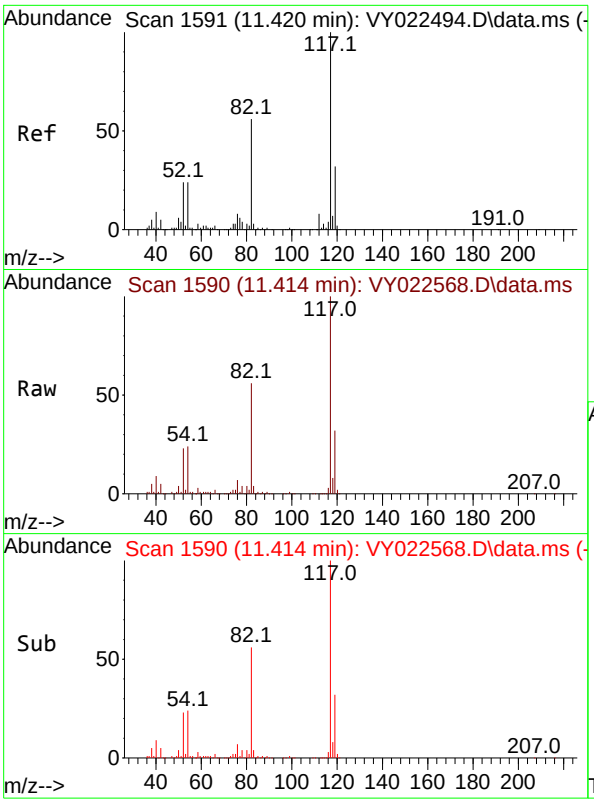




#62
4-Bromofluorobenzene
Concen: 41.713 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022568.D
Acq: 05 Jun 2025 12:45

Tgt Ion: 95 Resp: 149446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.5 | 0.0 | 170.0 |
| 176 | 81.9 | 0.0 | 166.2 |



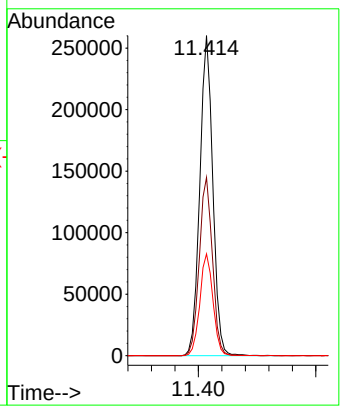


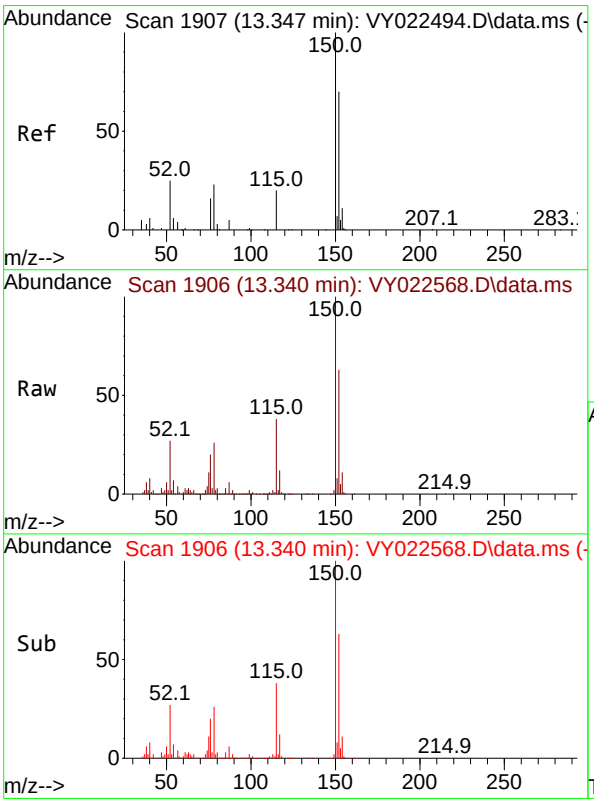

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022568.D
Acq: 05 Jun 2025 12:45

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-202-SB01

Tgt Ion:117 Resp: 399252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.7 | 44.6 | 66.8 |
| 119 | 31.8 | 25.4 | 38.0 |

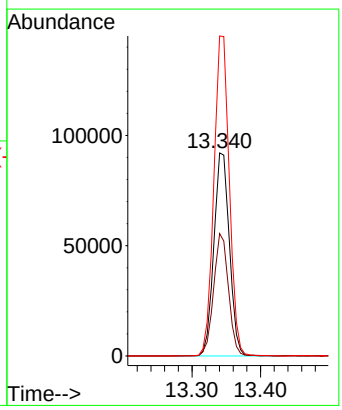



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.006 min
Lab File: VY022568.D
Acq: 05 Jun 2025 12:45

Tgt Ion:152 Resp: 144715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.7 | 28.9 | 86.7 |
| 150 | 156.2 | 0.0 | 349.6 |



Sample Results: **VY022568.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
Data File : VY022568.D
Acq On : 05 Jun 2025 12:45
Operator : SY/MD
Sample : Q2177-06
Misc : 6.18g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-202-SB01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Title : SW846 8260

Signal : TIC: VY022568.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.098 | 50 | 62 | 63 | rBV2 | 12107 | 31327 | 1.91% | 0.389% |
| 2 | 2.483 | 117 | 125 | 130 | rBV2 | 15250 | 44894 | 2.74% | 0.557% |
| 3 | 4.098 | 380 | 390 | 398 | rBV2 | 8817 | 23415 | 1.43% | 0.290% |
| 4 | 4.610 | 461 | 474 | 485 | rBV2 | 23996 | 68958 | 4.21% | 0.855% |
| 5 | 7.628 | 959 | 969 | 975 | rBV2 | 210194 | 508397 | 31.03% | 6.307% |
| 6 | 7.701 | 975 | 981 | 996 | rVB | 365024 | 838537 | 51.18% | 10.402% |
| 7 | 8.061 | 1030 | 1040 | 1051 | rBV | 203093 | 452140 | 27.60% | 5.609% |
| 8 | 8.609 | 1120 | 1130 | 1140 | rBV | 602926 | 1191758 | 72.74% | 14.784% |
| 9 | 10.103 | 1367 | 1375 | 1384 | rBV | 973626 | 1638406 | 100.00% | 20.324% |
| 10 | 11.414 | 1582 | 1590 | 1604 | rBV | 845984 | 1329390 | 81.14% | 16.491% |
| 11 | 12.401 | 1744 | 1752 | 1760 | rBV | 563319 | 885116 | 54.02% | 10.980% |
| 12 | 13.340 | 1900 | 1906 | 1914 | rBV | 619255 | 953550 | 58.20% | 11.829% |
| 13 | 13.883 | 1989 | 1995 | 2001 | rVB | 59885 | 95401 | 5.82% | 1.183% |

Sum of corrected areas: 8061289

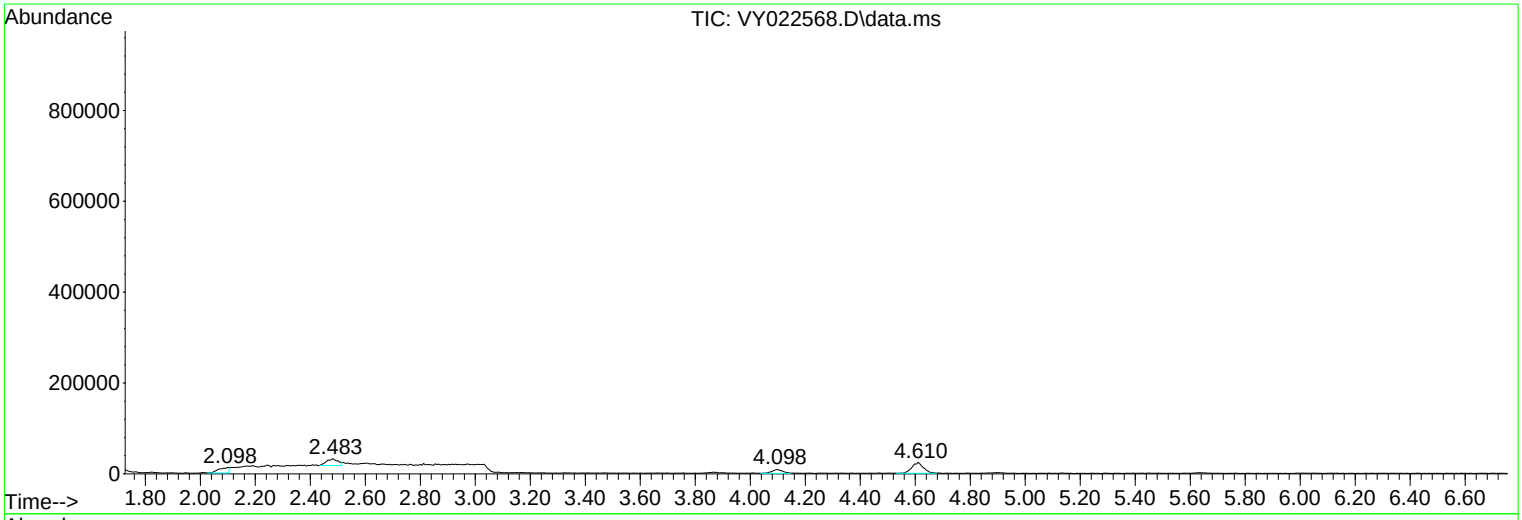
Sample Results: **VY022568.D**

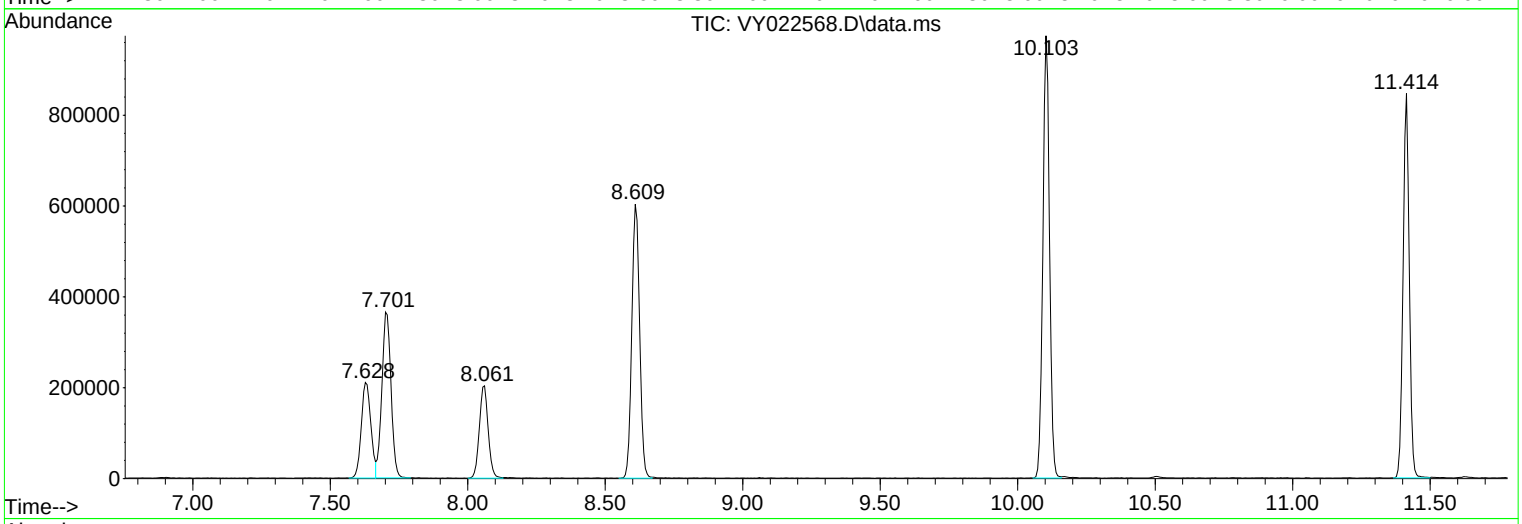
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
Data File : VY022568.D
Acq On : 05 Jun 2025 12:45
Operator : SY/MD
Sample : Q2177-06
Misc : 6.18g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

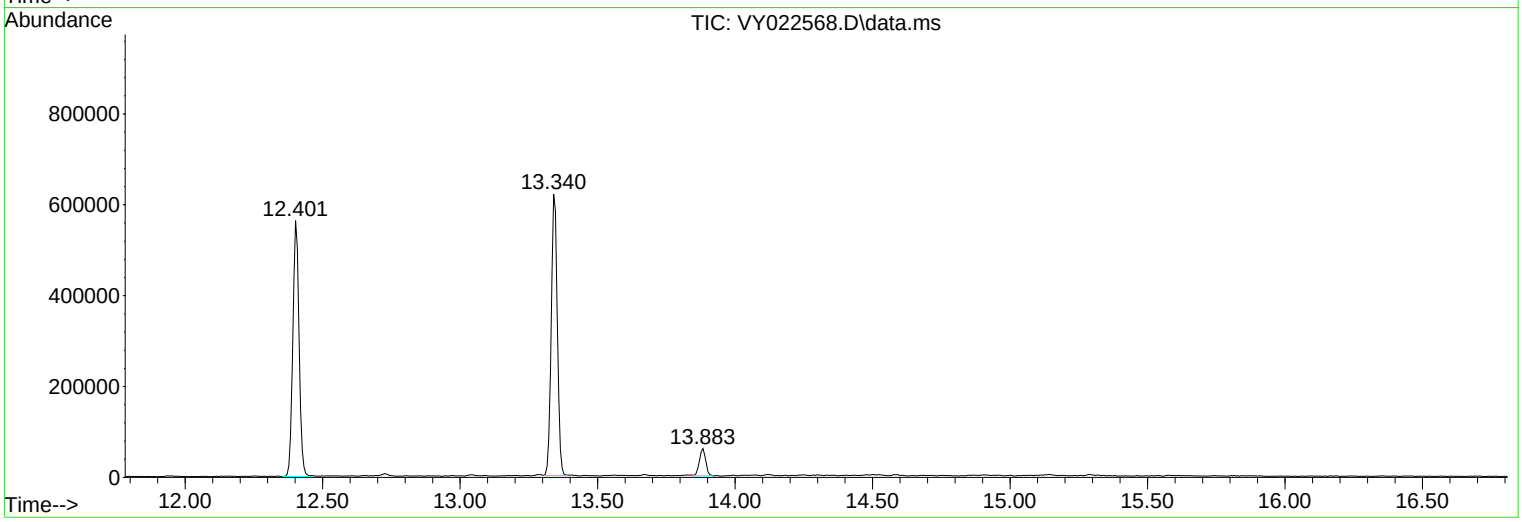
**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-202-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY022568.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
Data File : VY022568.D
Acq On : 05 Jun 2025 12:45
Operator : SY/MD
Sample : Q2177-06
Misc : 6.18g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-202-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
Data File : VY022568.D
Acq On : 05 Jun 2025 12:45
Operator : SY/MD
Sample : Q2177-06
Misc : 6.18g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
B-202-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046454.D
Acq On : 02 Jun 2025 19:06
Operator : JC/MD
Sample : Q2177-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB05312025

Quant Time: Jun 03 01:36:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 65892 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 131320 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.055 | 117 | 124794 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 55855 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 63761 | 51.904 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 103.800% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 46419 | 49.087 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 98.180% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 164764 | 50.340 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 100.680% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 66656 | 53.092 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 106.180% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.380 | 43 | 10525 | 21.369 | ug/l | 98 |
| 25) 2-Butanone | 4.593 | 43 | 1719 | 2.404 | ug/l | 91 |

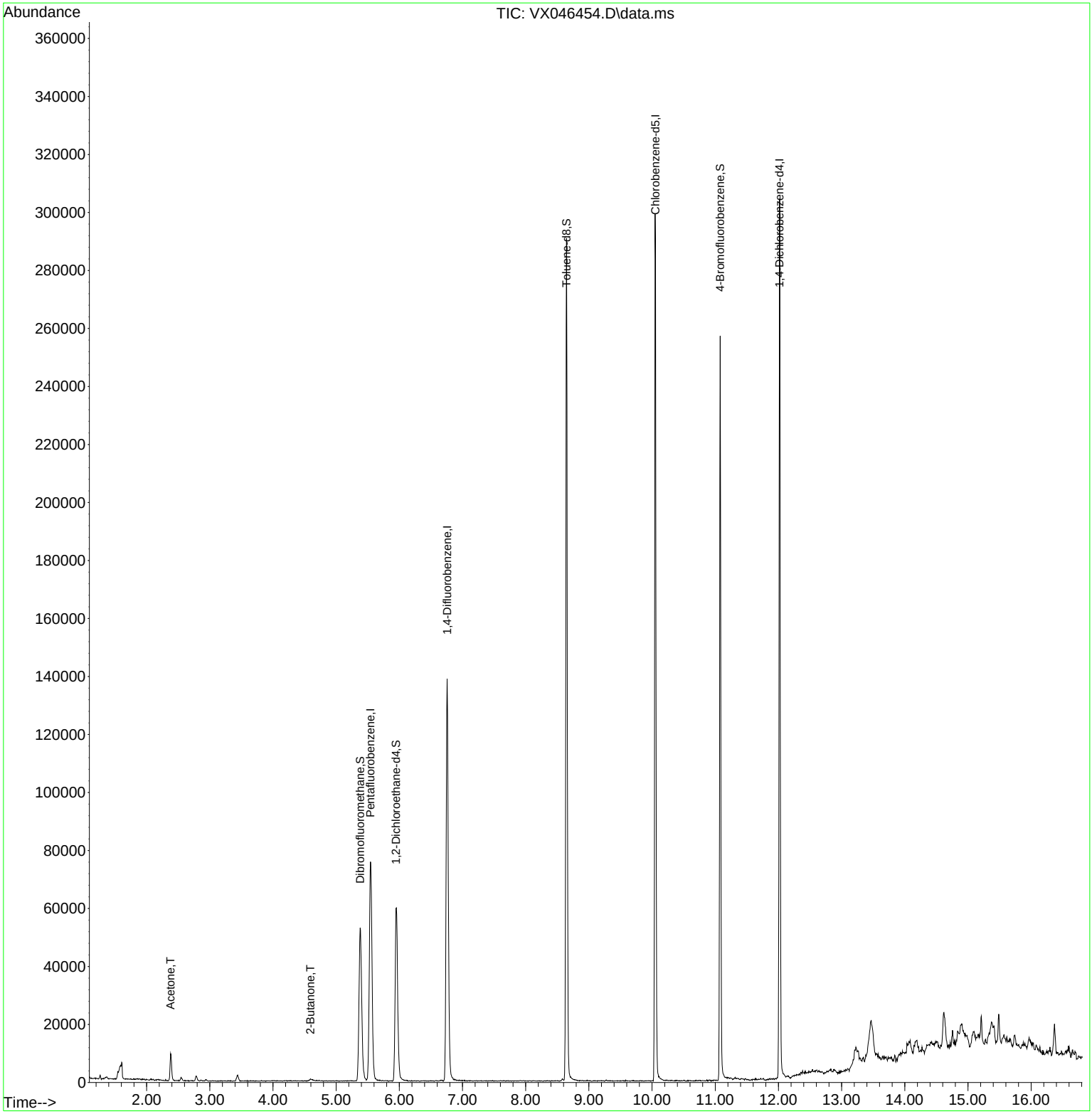
(#) = qualifier out of range (m) = manual integration (+) = signals summed

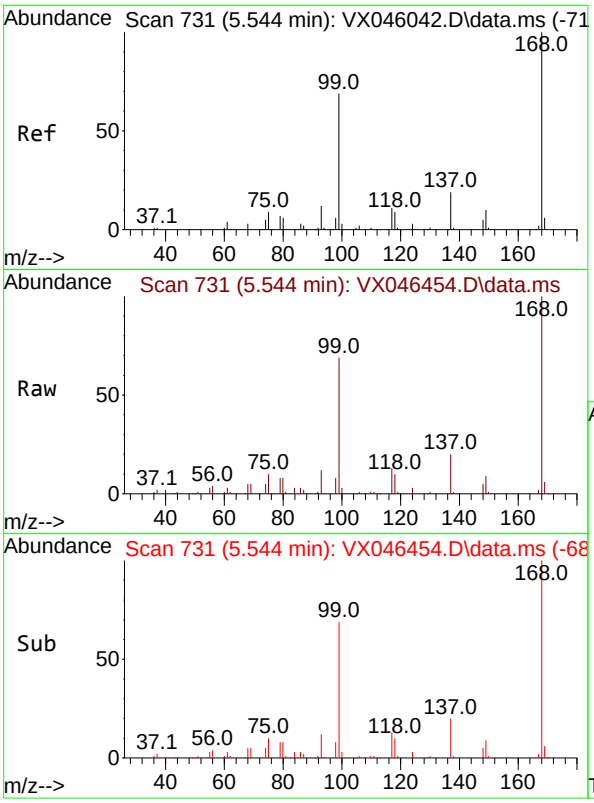
Sample Results: **VX046454.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046454.D
Acq On : 02 Jun 2025 19:06
Operator : JC/MD
Sample : Q2177-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB05312025

Quant Time: Jun 03 01:36:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



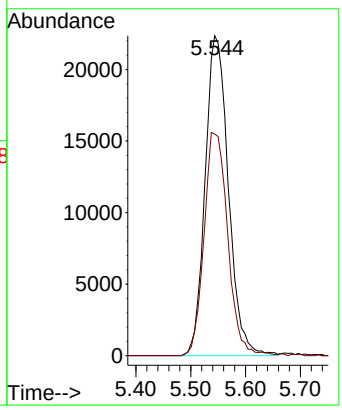


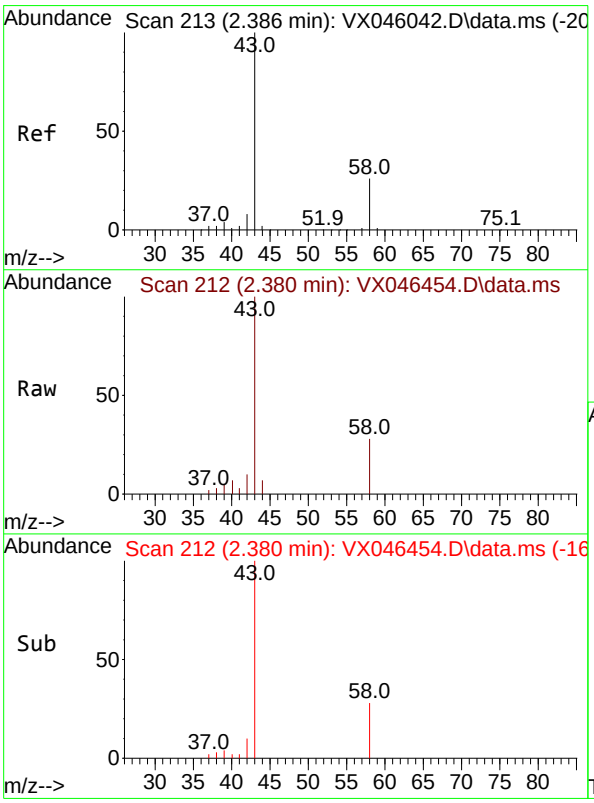

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046454.D
Acq: 02 Jun 2025 19:06

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB05312025

Tgt Ion:168 Resp: 65892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 69.3 | 54.9 | 82.3 |

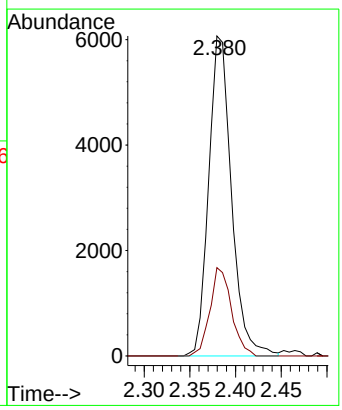


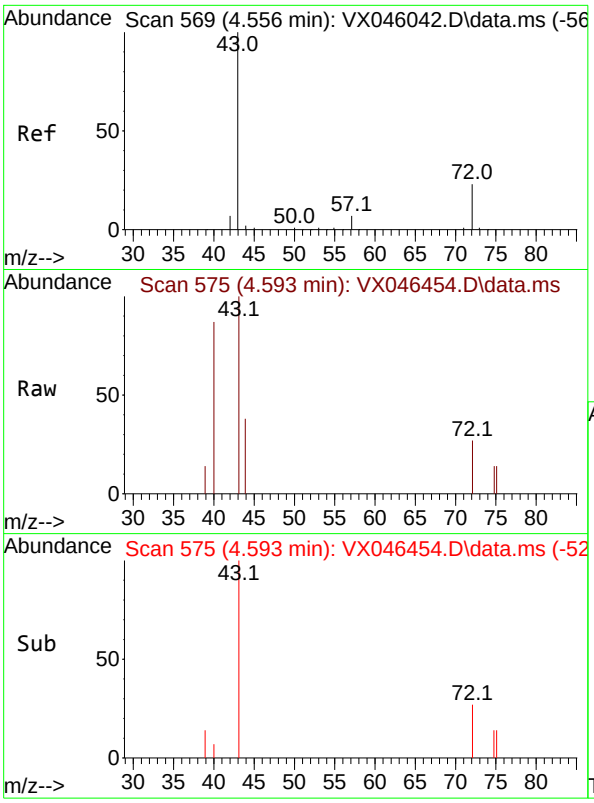




#16
Acetone
Concen: 21.369 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046454.D
Acq: 02 Jun 2025 19:06

Tgt Ion: 43 Resp: 10525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.6 | 21.2 | 31.8 |



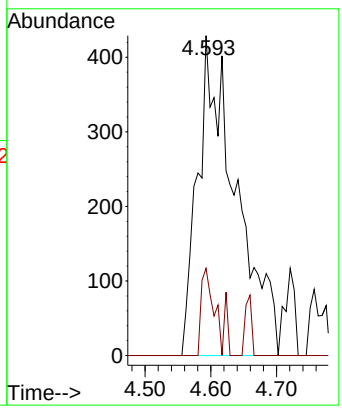


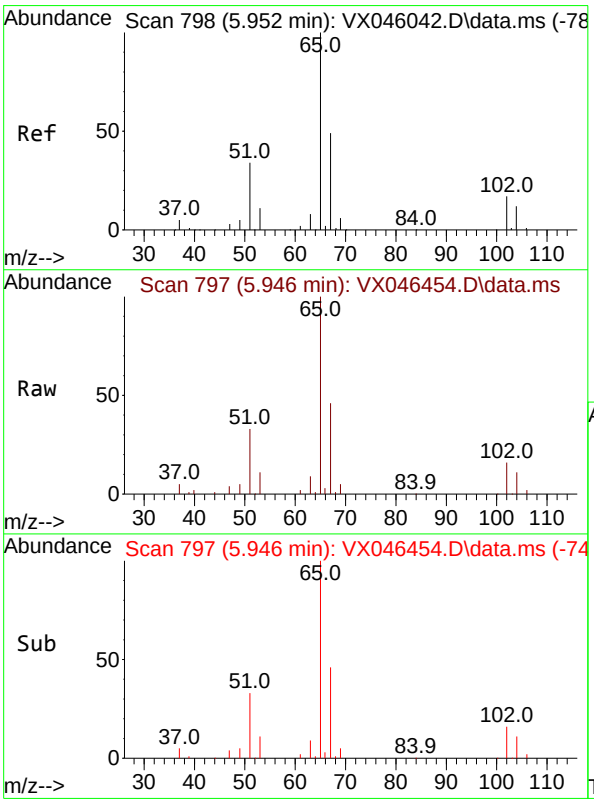

#25
2-Butanone
Concen: 2.404 ug/l
RT: 4.593 min Scan# 5
Delta R.T. 0.036 min
Lab File: VX046454.D
Acq: 02 Jun 2025 19:06

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB05312025

Tgt Ion: 43 Resp: 1719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.3 | 18.4 | 27.6 |

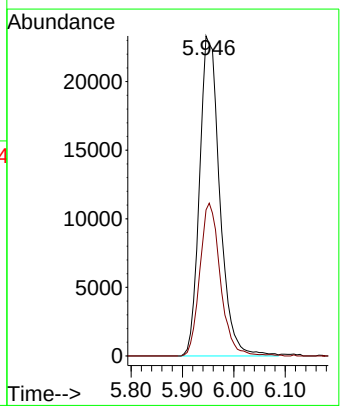


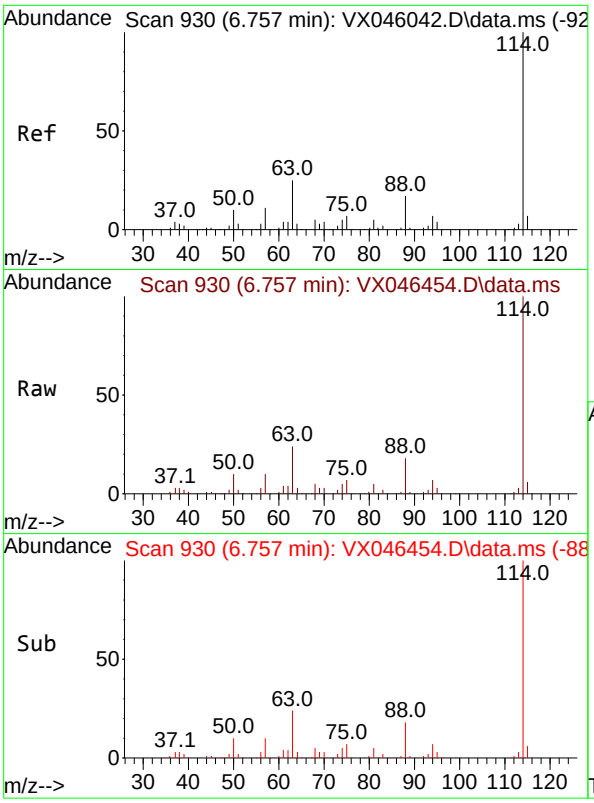




#33
1,2-Dichloroethane-d4
Concen: 51.904 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX046454.D
Acq: 02 Jun 2025 19:06

Tgt Ion: 65 Resp: 63761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.5 | 0.0 | 99.0 |



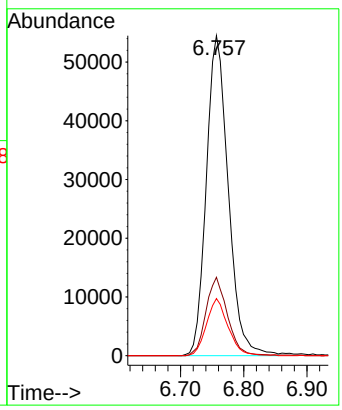


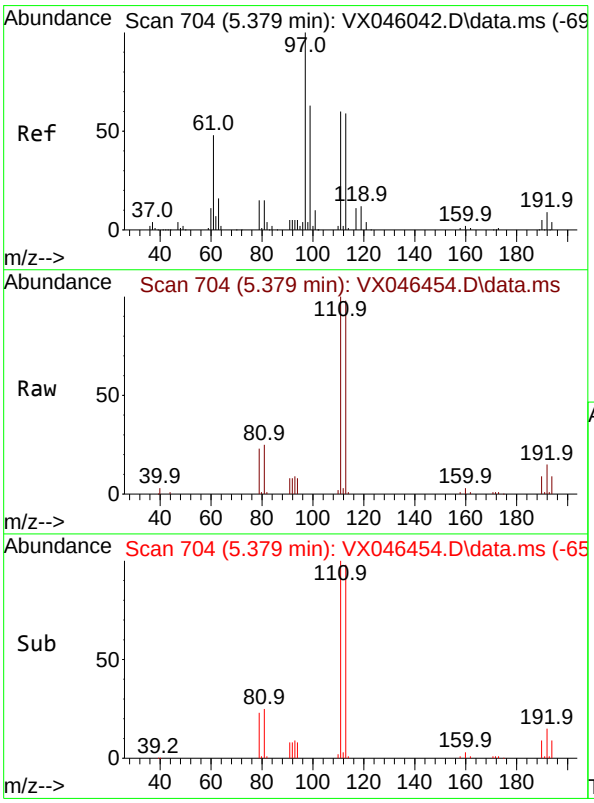

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046454.D
Acq: 02 Jun 2025 19:06

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB05312025

Tgt Ion:114 Resp: 131320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 24.5 | 0.0 | 49.2 |
| 88 | 17.8 | 0.0 | 33.6 |

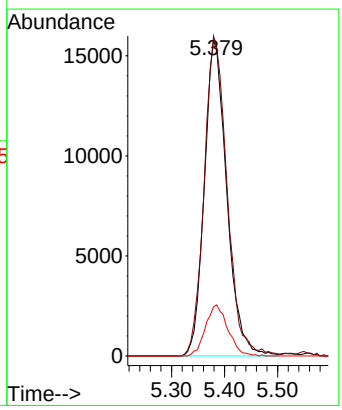


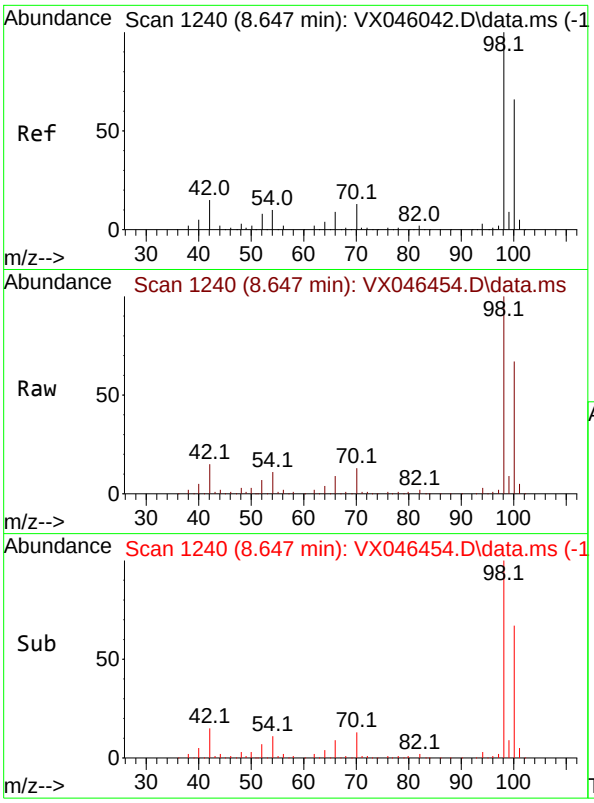




#35
Dibromofluoromethane
Concen: 49.087 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX046454.D
Acq: 02 Jun 2025 19:06

Tgt Ion:113 Resp: 46419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.6 | 83.1 | 124.7 |
| 192 | 16.1 | 13.3 | 19.9 |



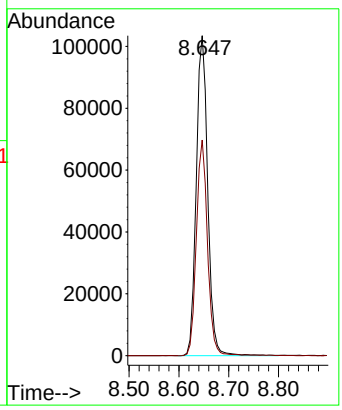


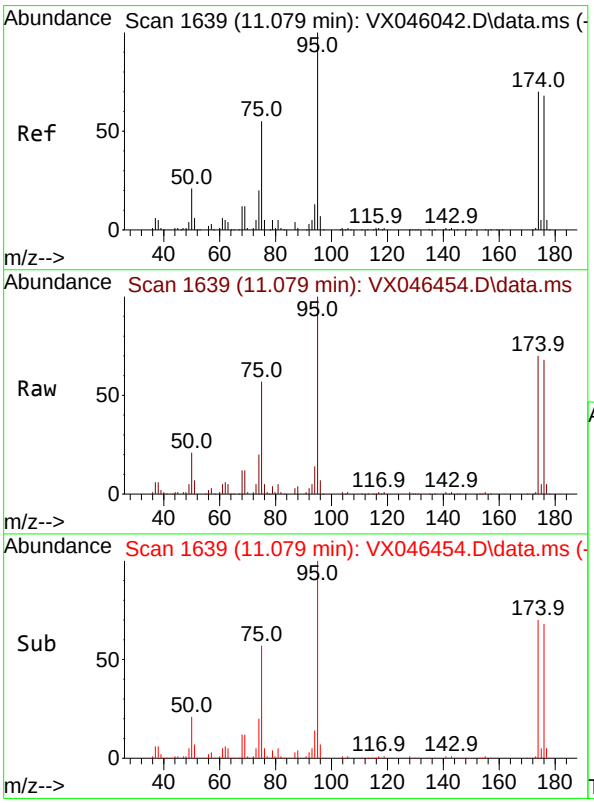

#50
Toluene-d8
Concen: 50.340 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046454.D
Acq: 02 Jun 2025 19:06

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB05312025

Tgt Ion: 98 Resp: 164764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.7 | 53.5 | 80.3 |

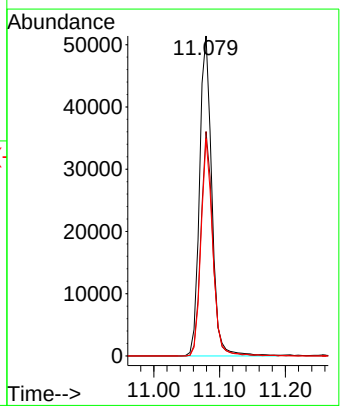


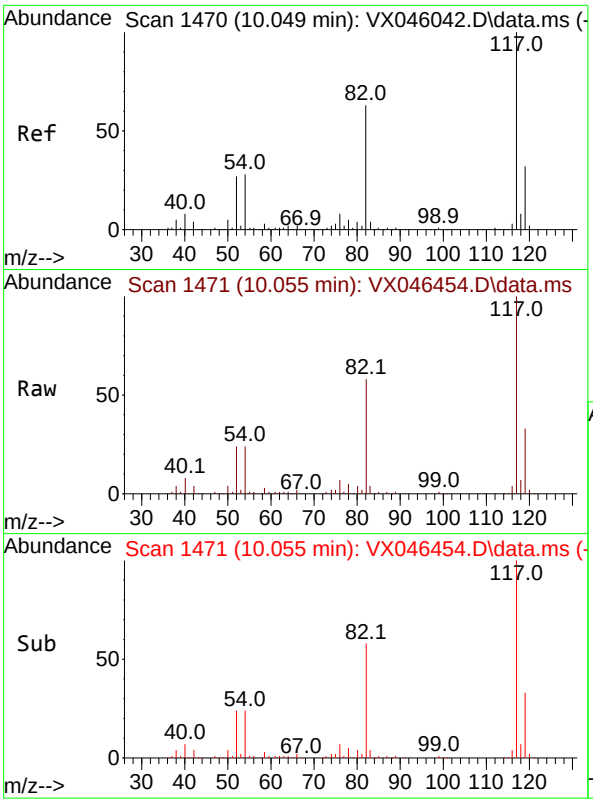




#62
4-Bromofluorobenzene
Concen: 53.092 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046454.D
Acq: 02 Jun 2025 19:06

Tgt Ion: 95 Resp: 66656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 67.3 | 0.0 | 135.8 |
| 176 | 64.5 | 0.0 | 131.4 |



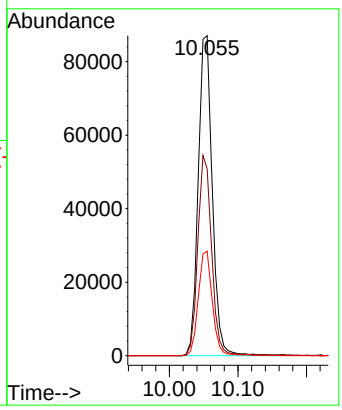


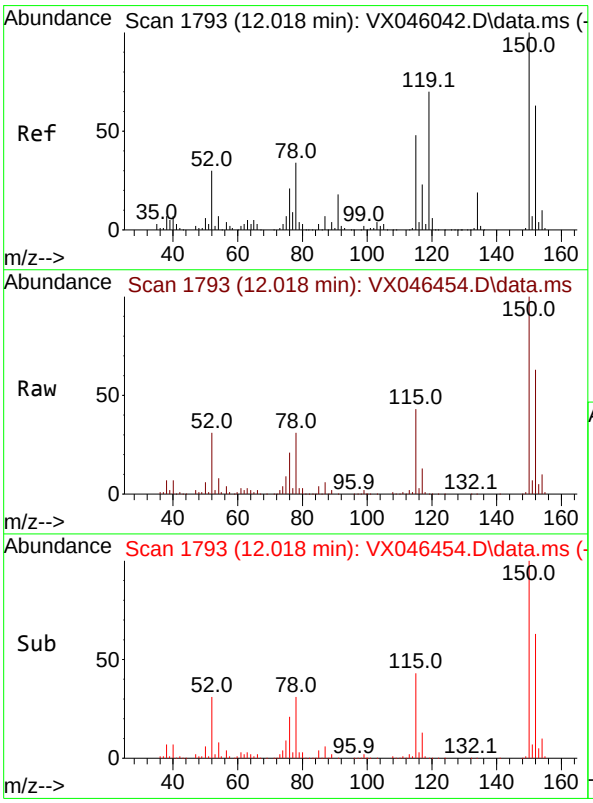

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX046454.D
Acq: 02 Jun 2025 19:06

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB05312025

Tgt Ion:117 Resp: 124794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.4 | 50.6 | 76.0 |
| 119 | 32.7 | 25.8 | 38.6 |

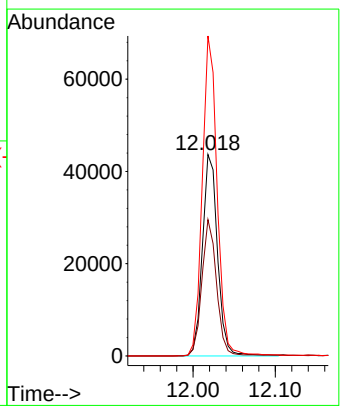



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046454.D
Acq: 02 Jun 2025 19:06

Tgt Ion:152 Resp: 55855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 66.8 | 46.9 | 140.7 |
| 150 | 156.7 | 0.0 | 351.0 |



Sample Results: **VX046454.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046454.D
Acq On : 02 Jun 2025 19:06
Operator : JC/MD
Sample : Q2177-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB05312025

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046454.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.587 | 76 | 82 | 83 | rVV4 | 4769 | 10017 | 2.19% | 0.376% |
| 2 | 1.605 | 83 | 85 | 92 | rVB4 | 5733 | 6592 | 1.44% | 0.248% |
| 3 | 2.380 | 205 | 212 | 220 | rBV | 9428 | 16520 | 3.61% | 0.621% |
| 4 | 3.440 | 380 | 386 | 392 | rVB2 | 2157 | 4607 | 1.01% | 0.173% |
| 5 | 5.379 | 694 | 704 | 720 | rBV | 52819 | 157562 | 34.42% | 5.919% |
| 6 | 5.544 | 720 | 731 | 743 | rBV | 75336 | 218080 | 47.64% | 8.192% |
| 7 | 5.952 | 788 | 798 | 815 | rBV | 59788 | 166913 | 36.46% | 6.270% |
| 8 | 6.757 | 920 | 930 | 946 | rBV | 138703 | 333333 | 72.82% | 12.522% |
| 9 | 8.647 | 1233 | 1240 | 1250 | rBV | 290401 | 457769 | 100.00% | 17.196% |
| 10 | 10.049 | 1465 | 1470 | 1479 | rBV | 298916 | 422160 | 92.22% | 15.858% |
| 11 | 11.079 | 1634 | 1639 | 1650 | rBV | 256571 | 325232 | 71.05% | 12.217% |
| 12 | 12.018 | 1788 | 1793 | 1803 | rBV | 303082 | 378888 | 82.77% | 14.233% |
| 13 | 13.183 | 1974 | 1984 | 1985 | rBV9 | 3932 | 8858 | 1.94% | 0.333% |
| 14 | 13.469 | 2020 | 2031 | 2042 | rVB5 | 11821 | 49228 | 10.75% | 1.849% |
| 15 | 14.621 | 2214 | 2220 | 2231 | rVB6 | 12142 | 34804 | 7.60% | 1.307% |
| 16 | 14.755 | 2238 | 2242 | 2246 | rBV7 | 5641 | 7906 | 1.73% | 0.297% |
| 17 | 14.841 | 2253 | 2256 | 2260 | rBV6 | 3381 | 6772 | 1.48% | 0.254% |
| 18 | 15.213 | 2314 | 2317 | 2325 | rVB5 | 9748 | 13676 | 2.99% | 0.514% |
| 19 | 15.487 | 2359 | 2362 | 2369 | rVB4 | 10086 | 14776 | 3.23% | 0.555% |
| 20 | 15.743 | 2400 | 2404 | 2408 | rVB7 | 3505 | 5935 | 1.30% | 0.223% |
| 21 | 16.371 | 2501 | 2507 | 2512 | rVB3 | 10210 | 17624 | 3.85% | 0.662% |
| 22 | 16.657 | 2549 | 2554 | 2558 | rBV7 | 2622 | 4804 | 1.05% | 0.180% |

Sum of corrected areas: 2662056

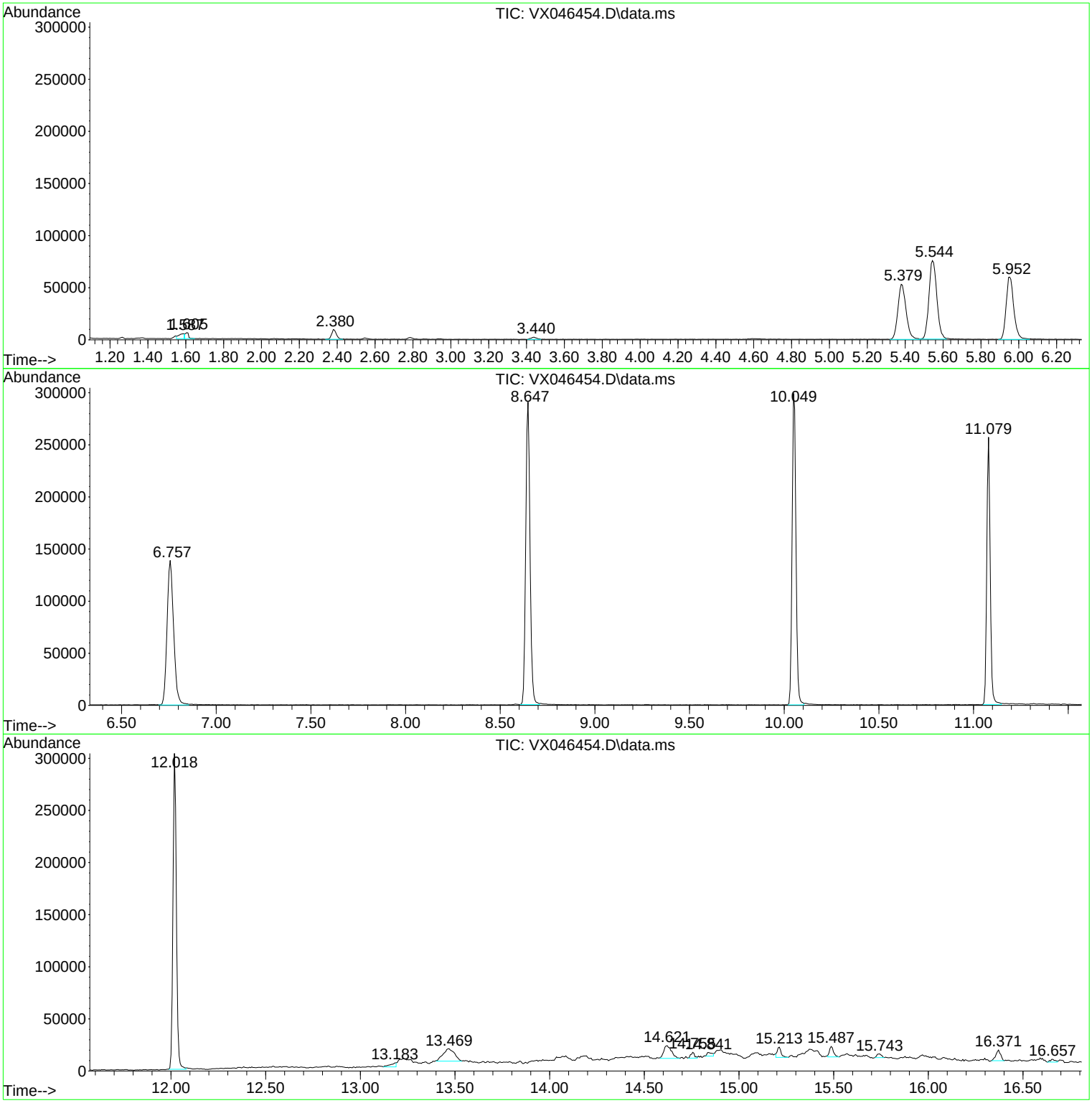
Sample Results: **VX046454.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046454.D
Acq On : 02 Jun 2025 19:06
Operator : JC/MD
Sample : Q2177-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB05312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046454.D
Acq On : 02 Jun 2025 19:06
Operator : JC/MD
Sample : Q2177-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB05312025

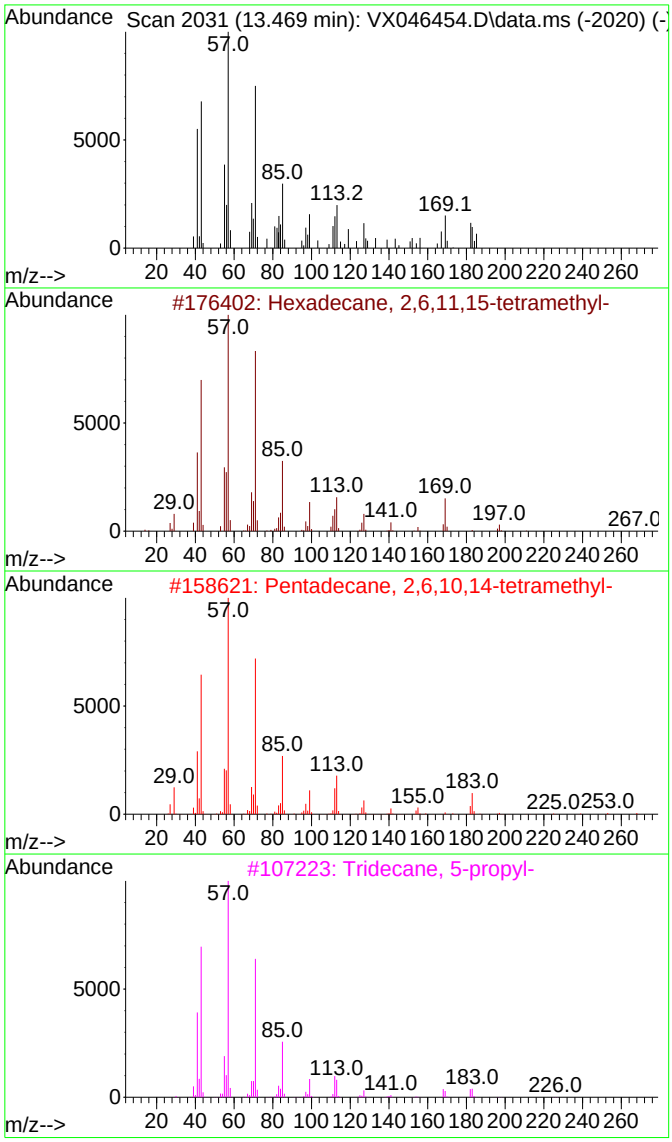
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

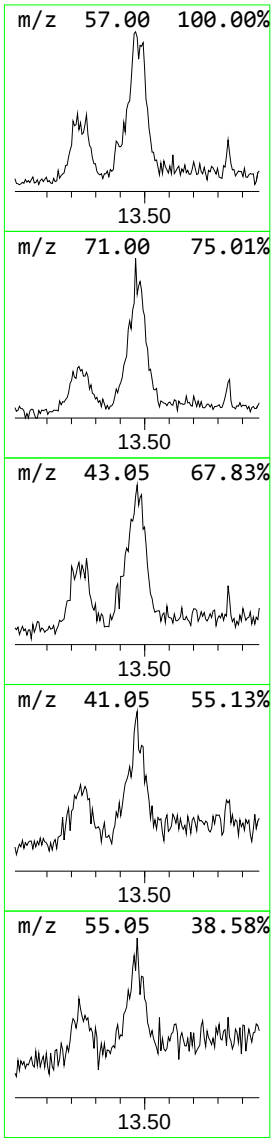
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 Hexadecane, 2,6,11,15-tetra... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.469 | 6.50 ug/l | 49228 | 1,4-Dichlorobenzene-d4 | 12.018 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane, 2,6,11,15-tetramethyl- | 282 | C20H42 | 000504-44-9 | 80 |
| 2 | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40 | 001921-70-6 | 80 |
| 3 | Tridecane, 5-propyl- | 226 | C16H34 | 055045-11-9 | 72 |
| 4 | Dodecane, 2-methyl-8-propyl- | 226 | C16H34 | 055045-07-3 | 72 |
| 5 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046454.D
Acq On : 02 Jun 2025 19:06
Operator : JC/MD
Sample : Q2177-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB05312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

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

| TIC Top Hit name | RT | EstConc | Units | Response | Internal Standard # | Internal Standard RT | Internal Standard Resp | Internal Standard Conc |
|---|---|---|---|---|---|---|---|---|
| Hexadecane, 2,6... | 13.469 | 6.5 | ug/l | 49228 | 4 | 12.018 | 378888 | 50.0 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046444.D
Acq On : 02 Jun 2025 14:47
Operator : JC/MD
Sample : Q2177-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB05312025

Quant Time: Jun 03 01:30:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 60024 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 122332 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 117285 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 49224 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 62292 | 55.666 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 111.340% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 45512 | 51.664 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 103.320% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 152857 | 50.134 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 100.260% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 60133 | 51.416 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 102.840% | | | |

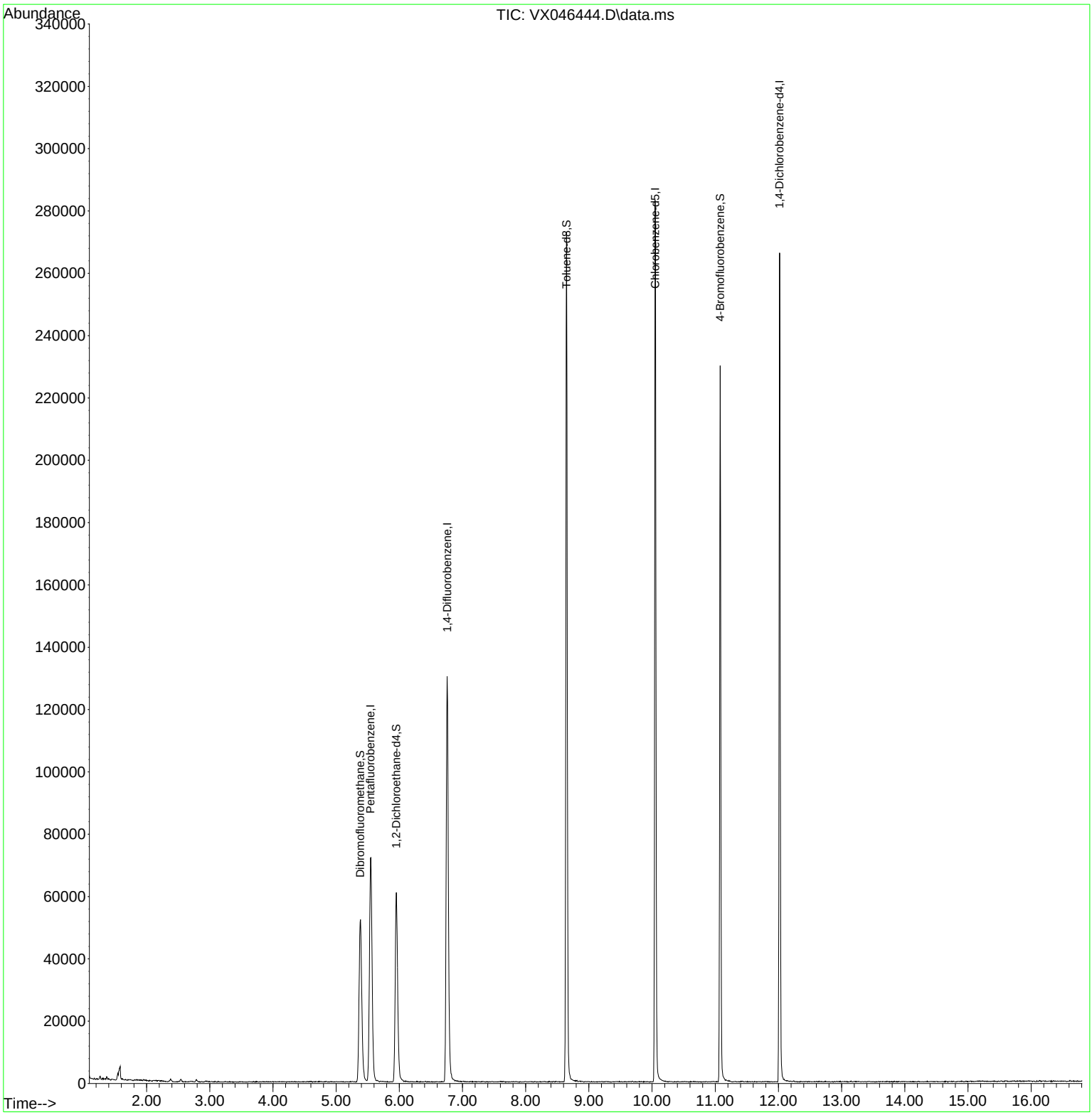
Target Compounds Qvalue

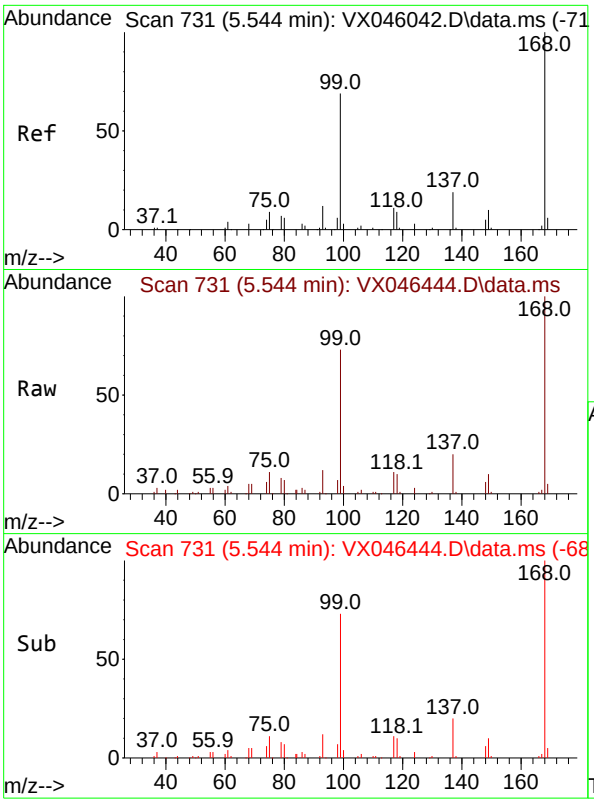
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046444.D
Acq On : 02 Jun 2025 14:47
Operator : JC/MD
Sample : Q2177-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB05312025

Quant Time: Jun 03 01:30:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



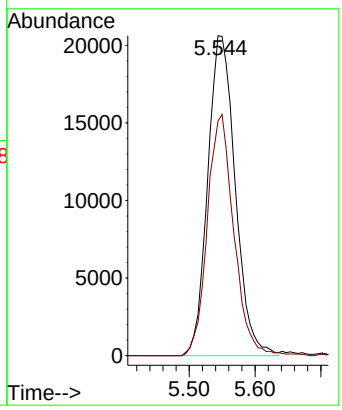


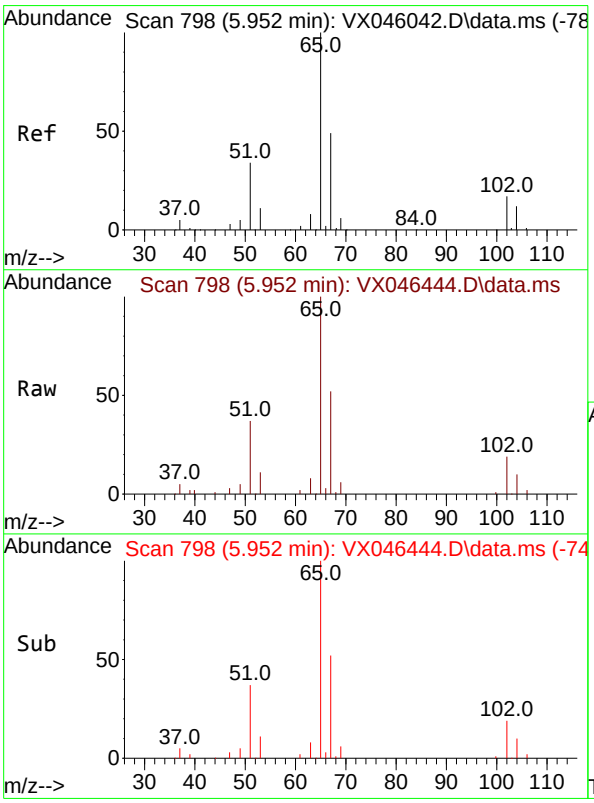

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046444.D
Acq: 02 Jun 2025 14:47

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB05312025

Tgt Ion:168 Resp: 60024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 73.3 | 54.9 | 82.3 |

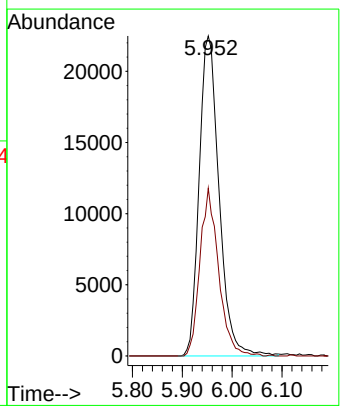


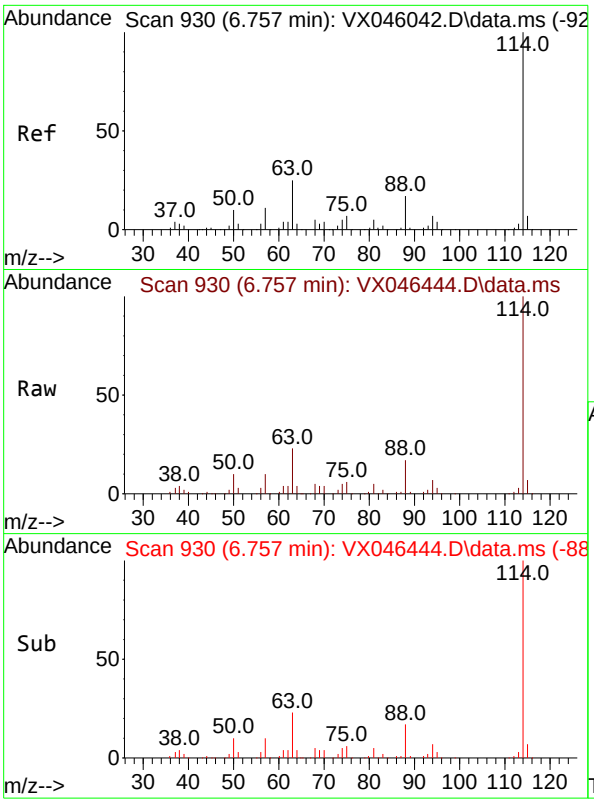




#33
1,2-Dichloroethane-d4
Concen: 55.666 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX046444.D
Acq: 02 Jun 2025 14:47

Tgt Ion: 65 Resp: 62292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.1 | 0.0 | 99.0 |



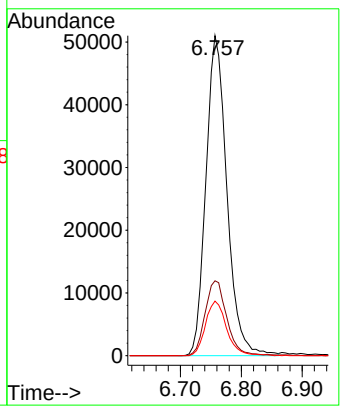


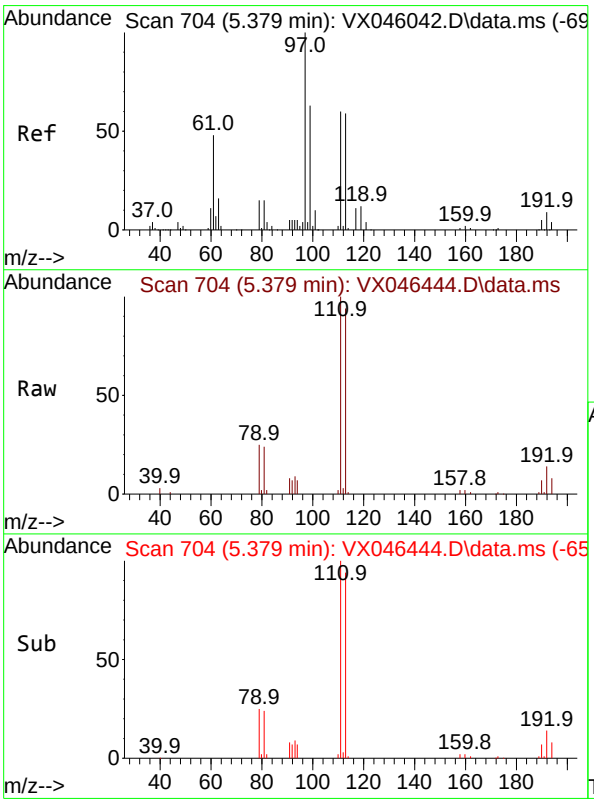

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046444.D
Acq: 02 Jun 2025 14:47

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB05312025

Tgt Ion:114 Resp: 122332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.4 | 0.0 | 49.2 |
| 88 | 17.1 | 0.0 | 33.6 |

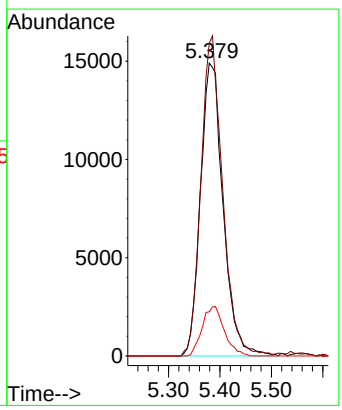


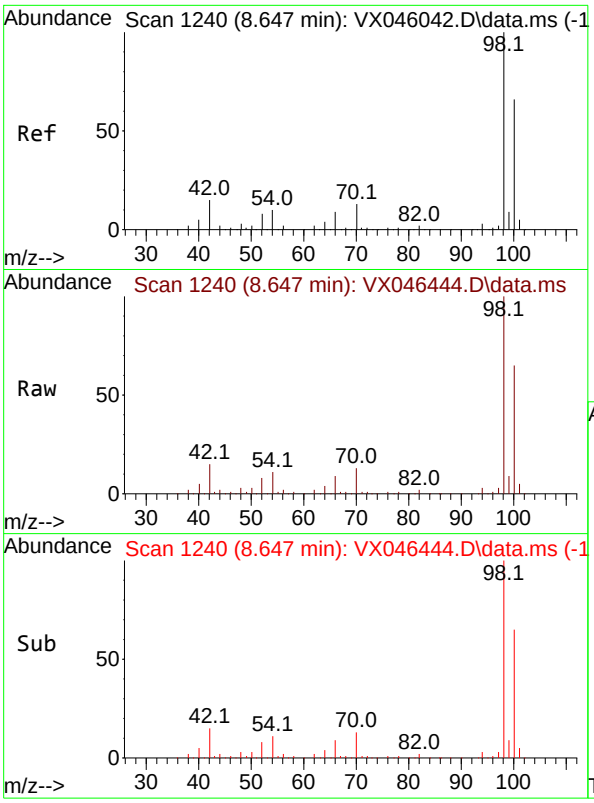




#35
Dibromofluoromethane
Concen: 51.664 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX046444.D
Acq: 02 Jun 2025 14:47

Tgt Ion:113 Resp: 45512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.9 | 83.1 | 124.7 |
| 192 | 16.6 | 13.3 | 19.9 |



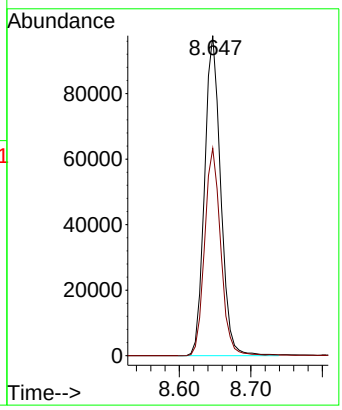


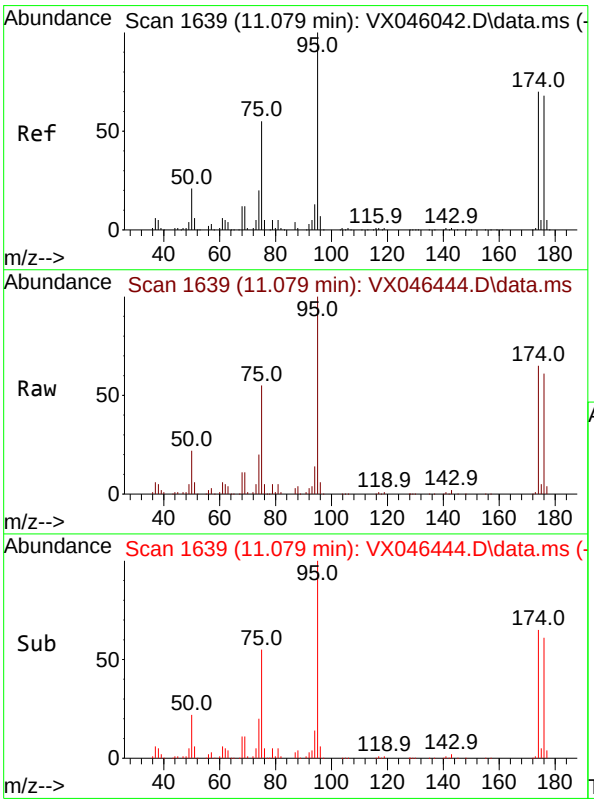

#50
Toluene-d8
Concen: 50.134 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046444.D
Acq: 02 Jun 2025 14:47

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB05312025

Tgt Ion: 98 Resp: 152857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.5 | 53.5 | 80.3 |

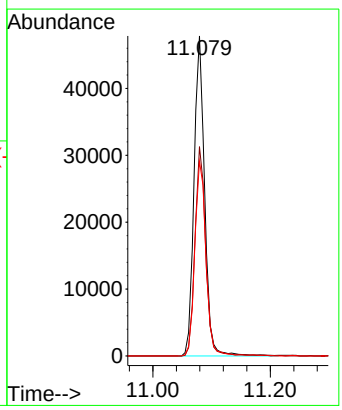


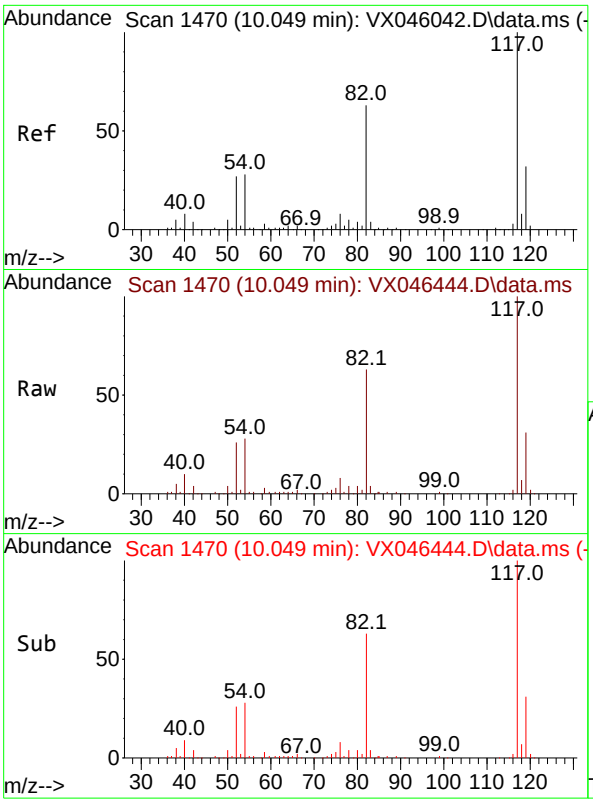




#62
4-Bromofluorobenzene
Concen: 51.416 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046444.D
Acq: 02 Jun 2025 14:47

Tgt Ion: 95 Resp: 60133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.0 | 0.0 | 135.8 |
| 176 | 63.7 | 0.0 | 131.4 |



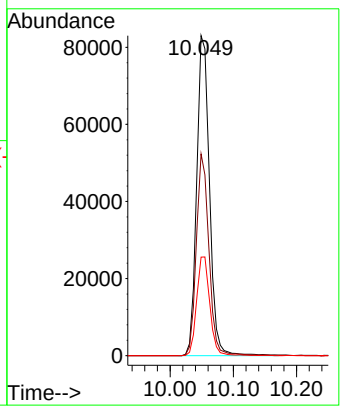


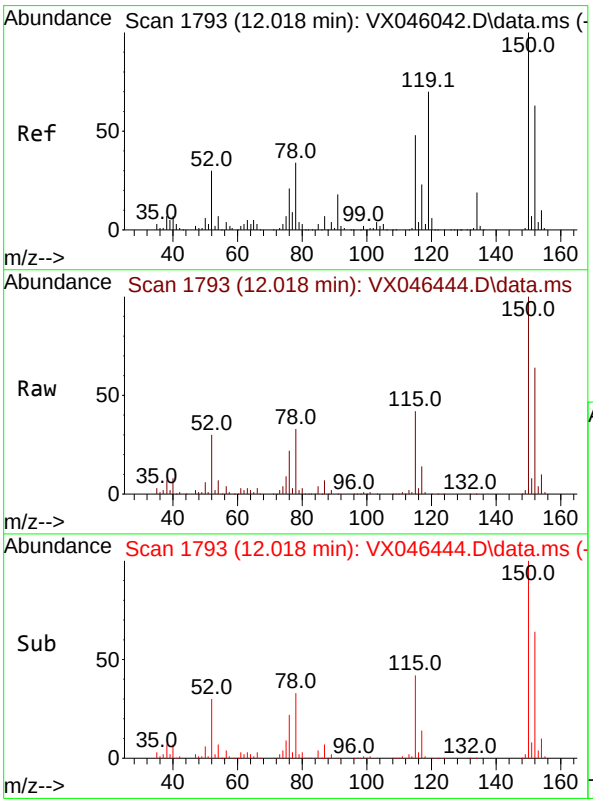

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046444.D
Acq: 02 Jun 2025 14:47

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB05312025

Tgt Ion:117 Resp: 117285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 63.0 | 50.6 | 76.0 |
| 119 | 30.8 | 25.8 | 38.6 |

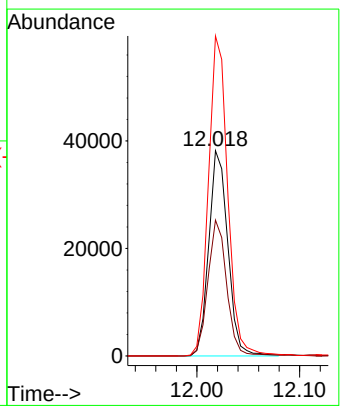



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046444.D
Acq: 02 Jun 2025 14:47

Tgt Ion:152 Resp: 49224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.5 | 46.9 | 140.7 |
| 150 | 157.2 | 0.0 | 351.0 |



Sample Results: **VX046444.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046444.D
Acq On : 02 Jun 2025 14:47
Operator : JC/MD
Sample : Q2177-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB05312025

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046444.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.581 | 76 | 81 | 85 | rVB4 | 4182 | 6832 | 1.58% | 0.297% |
| 2 | 5.385 | 695 | 705 | 722 | rBV2 | 52089 | 155617 | 36.10% | 6.767% |
| 3 | 5.550 | 722 | 732 | 745 | rVV | 71622 | 202319 | 46.93% | 8.798% |
| 4 | 5.952 | 788 | 798 | 817 | rBV | 60779 | 162795 | 37.76% | 7.080% |
| 5 | 6.757 | 921 | 930 | 950 | rBV | 130097 | 314504 | 72.95% | 13.677% |
| 6 | 8.647 | 1233 | 1240 | 1252 | rBV | 272823 | 431100 | 100.00% | 18.748% |
| 7 | 10.049 | 1465 | 1470 | 1494 | rBV | 282853 | 397135 | 92.12% | 17.271% |
| 8 | 11.079 | 1634 | 1639 | 1652 | rBV | 229882 | 291495 | 67.62% | 12.677% |
| 9 | 12.018 | 1788 | 1793 | 1804 | rBV | 266070 | 337688 | 78.33% | 14.685% |

Sum of corrected areas: 2299485

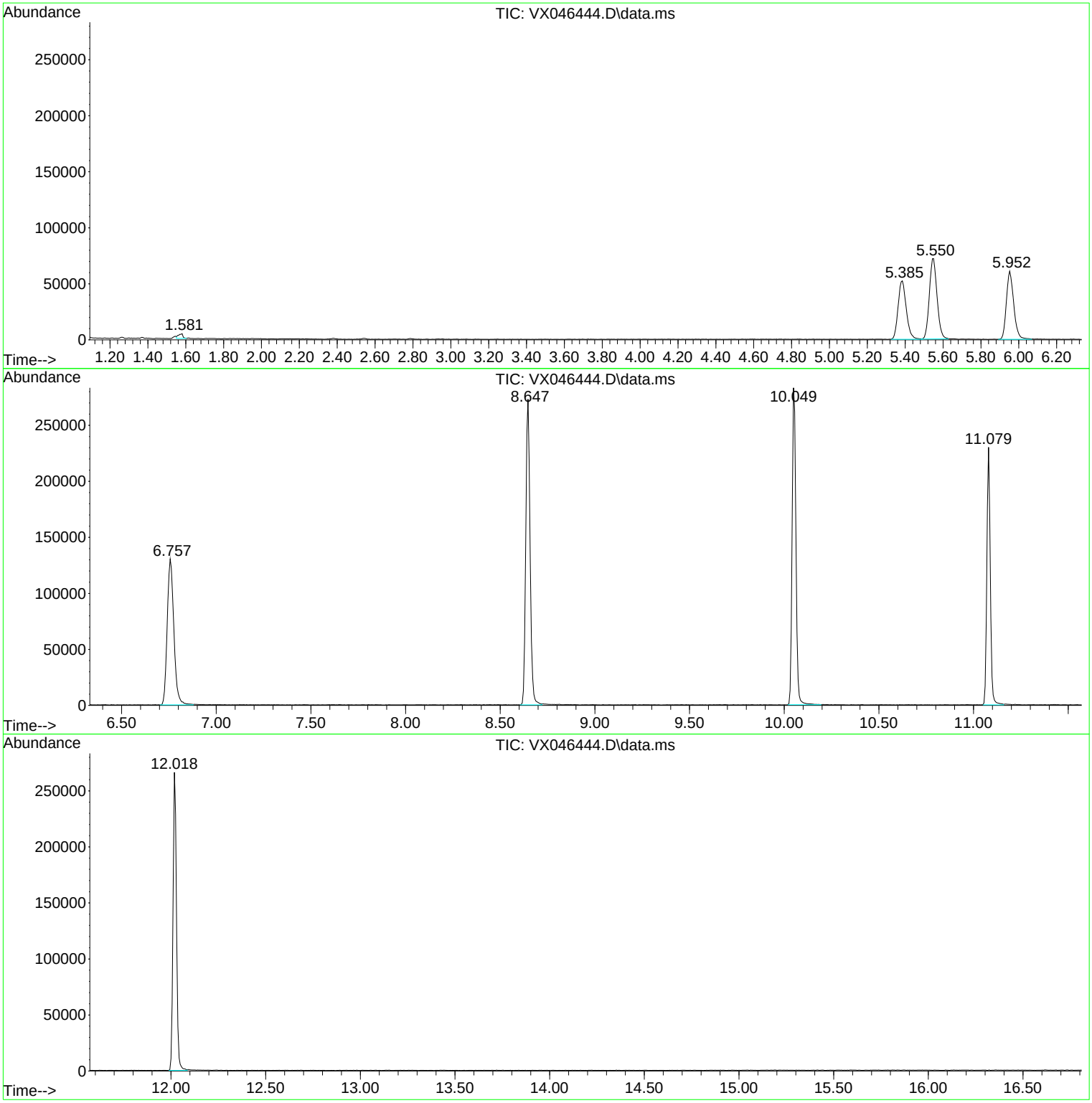
Sample Results: **VX046444.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046444.D
Acq On : 02 Jun 2025 14:47
Operator : JC/MD
Sample : Q2177-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB05312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046444.D
Acq On : 02 Jun 2025 14:47
Operator : JC/MD
Sample : Q2177-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB05312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046444.D
Acq On : 02 Jun 2025 14:47
Operator : JC/MD
Sample : Q2177-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB05312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046435.D
Acq On : 02 Jun 2025 11:14
Operator : JC/MD
Sample : VX0602WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBL01

Quant Time: Jun 03 01:26:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 66983 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 131566 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 125222 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 51823 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 67353 | 53.935 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 107.880% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 48903 | 51.617 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 103.240% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 166762 | 50.856 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 101.720% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 63842 | 50.756 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 101.520% | | | |

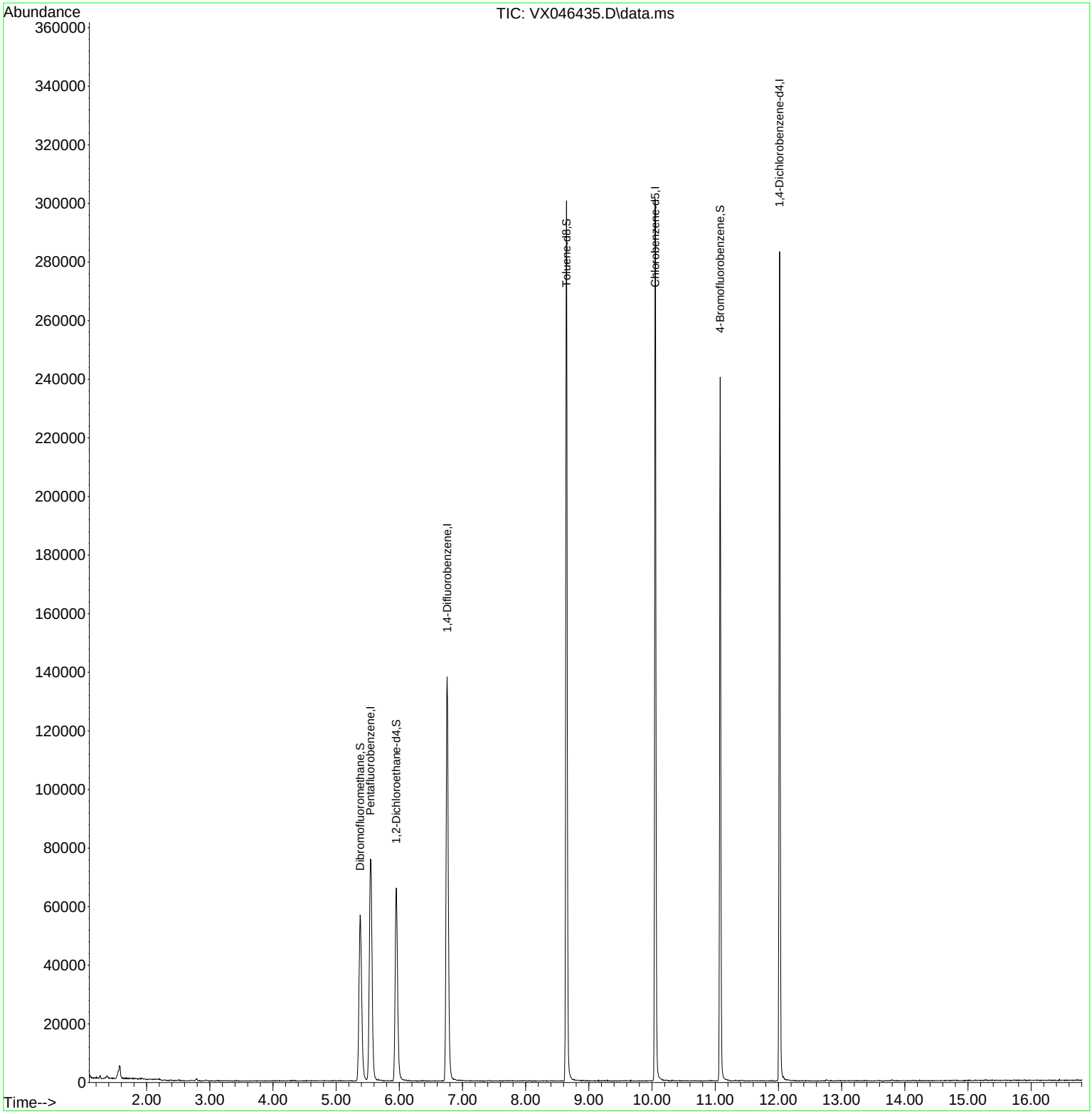
Target Compounds Qvalue

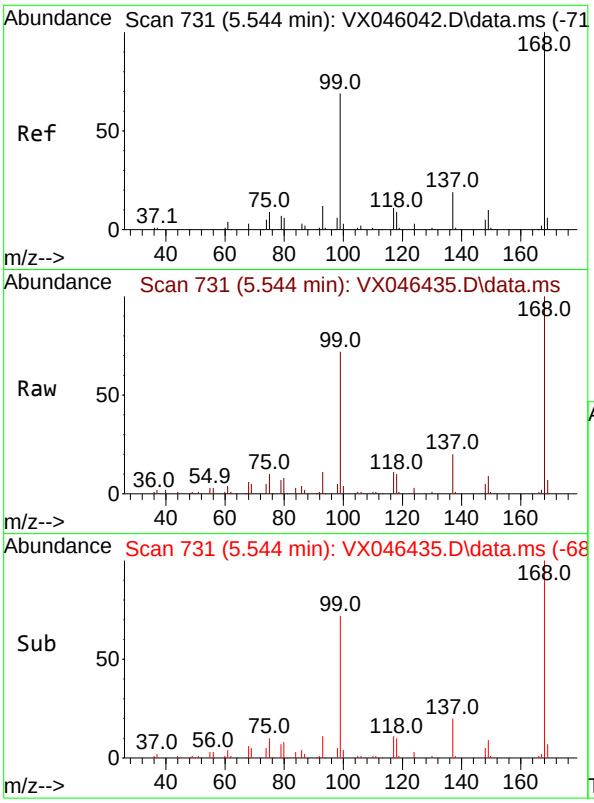
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046435.D
Acq On : 02 Jun 2025 11:14
Operator : JC/MD
Sample : VX0602WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBL01

Quant Time: Jun 03 01:26:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



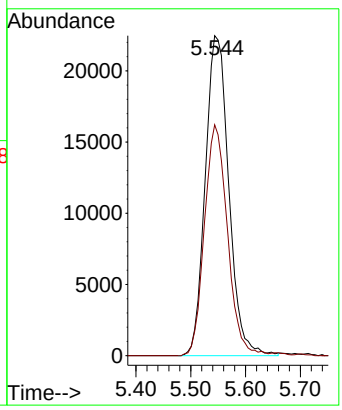


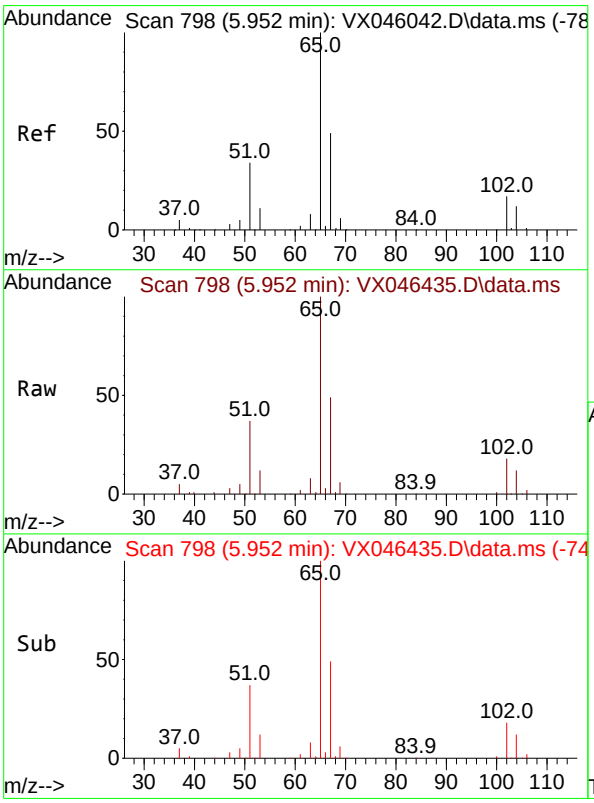

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046435.D
Acq: 02 Jun 2025 11:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBL01

Tgt Ion:168 Resp: 66983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 72.2 | 54.9 | 82.3 |

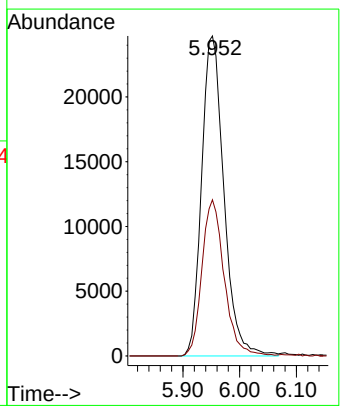


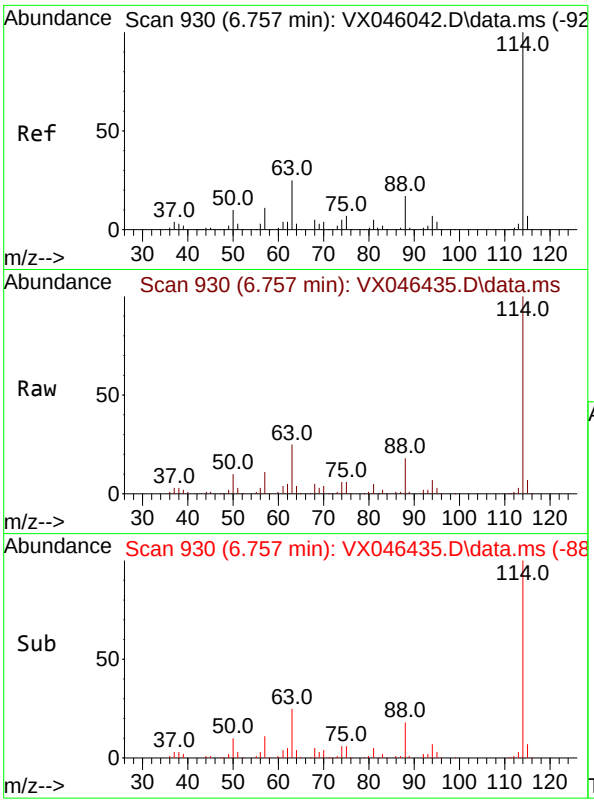




#33
1,2-Dichloroethane-d4
Concen: 53.935 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX046435.D
Acq: 02 Jun 2025 11:14

Tgt Ion: 65 Resp: 67353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.7 | 0.0 | 99.0 |



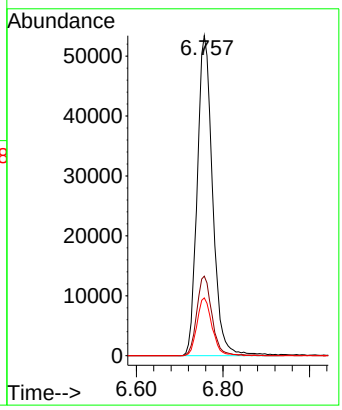


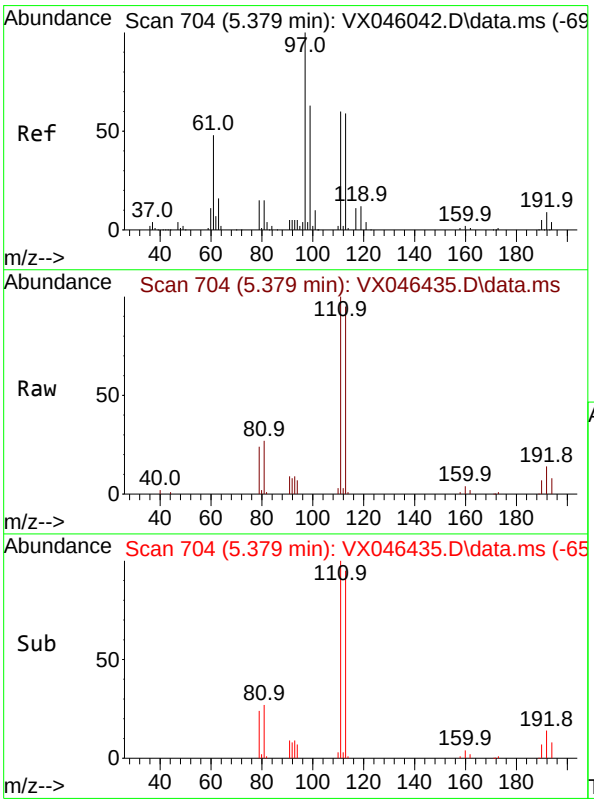

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046435.D
Acq: 02 Jun 2025 11:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBL01

Tgt Ion:114 Resp: 131566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 24.9 | 0.0 | 49.2 |
| 88 | 18.0 | 0.0 | 33.6 |

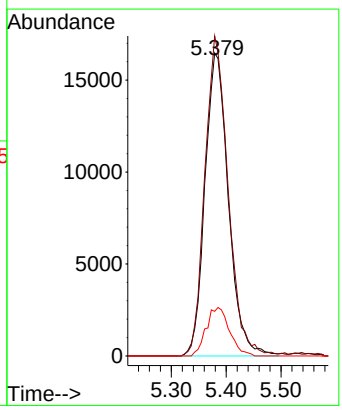


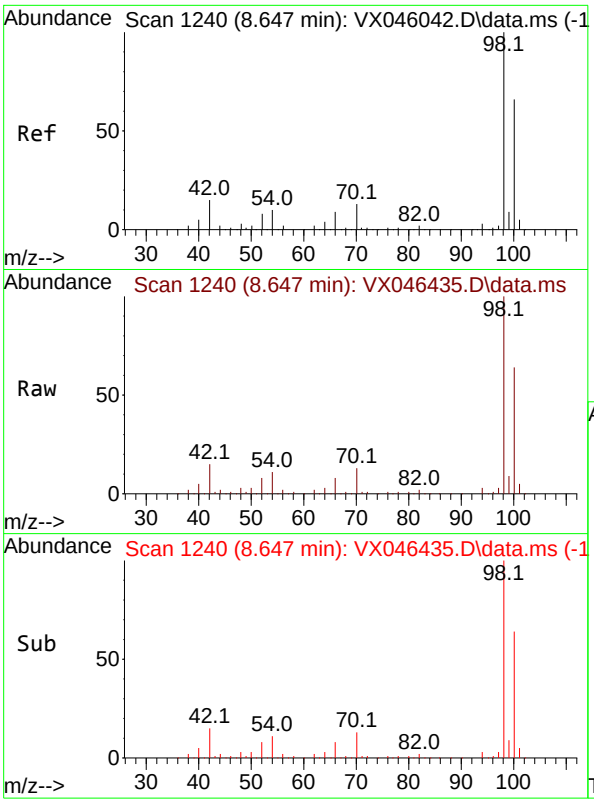




#35
Dibromofluoromethane
Concen: 51.617 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX046435.D
Acq: 02 Jun 2025 11:14

Tgt Ion:113 Resp: 48903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.8 | 83.1 | 124.7 |
| 192 | 15.9 | 13.3 | 19.9 |



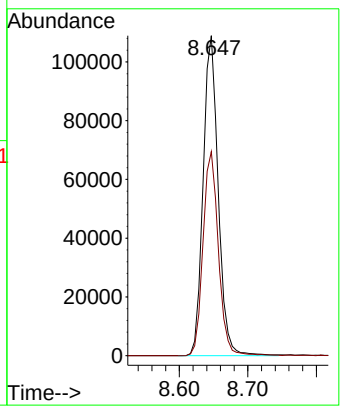


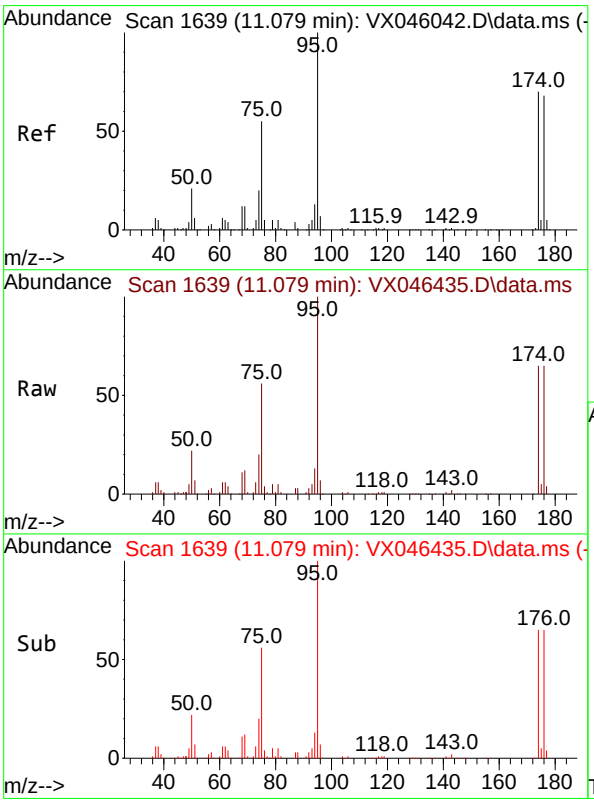

#50
Toluene-d8
Concen: 50.856 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046435.D
Acq: 02 Jun 2025 11:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBL01

Tgt Ion: 98 Resp: 166762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 53.5 | 80.3 |

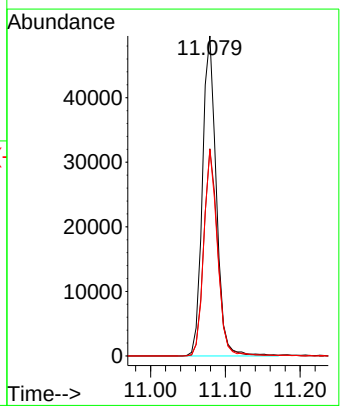


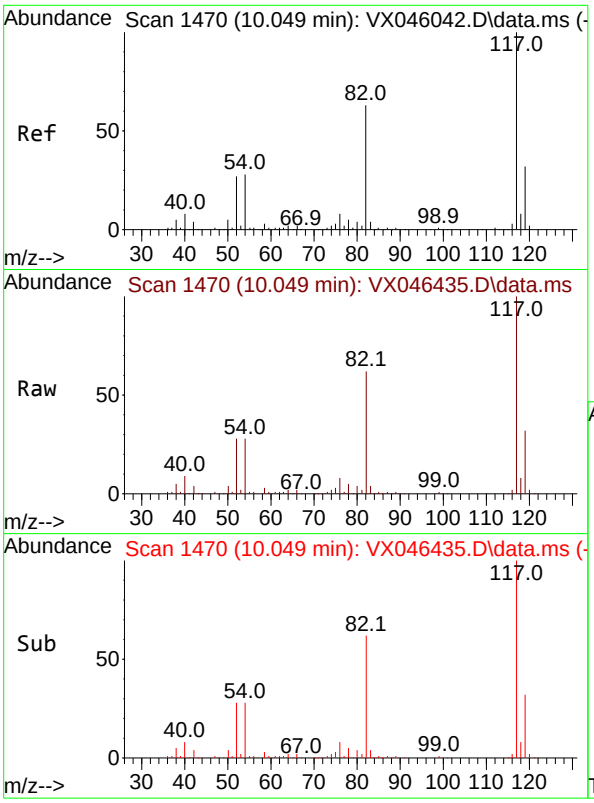




#62
4-Bromofluorobenzene
Concen: 50.756 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046435.D
Acq: 02 Jun 2025 11:14

Tgt Ion: 95 Resp: 63842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.0 | 0.0 | 135.8 |
| 176 | 63.5 | 0.0 | 131.4 |



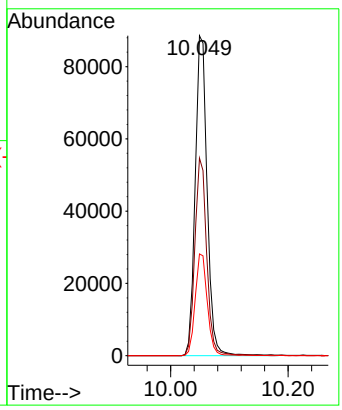


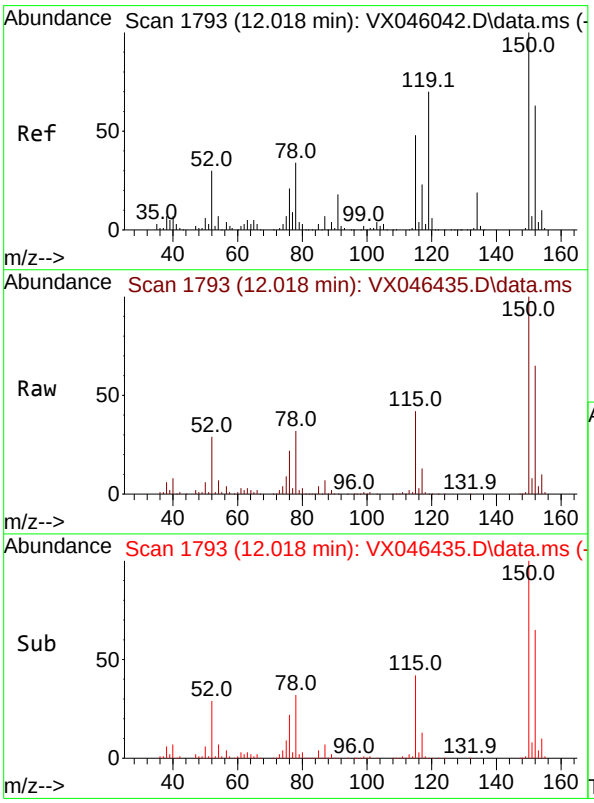

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046435.D
Acq: 02 Jun 2025 11:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBL01

Tgt Ion:117 Resp: 125222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 61.7 | 50.6 | 76.0 |
| 119 | 31.8 | 25.8 | 38.6 |

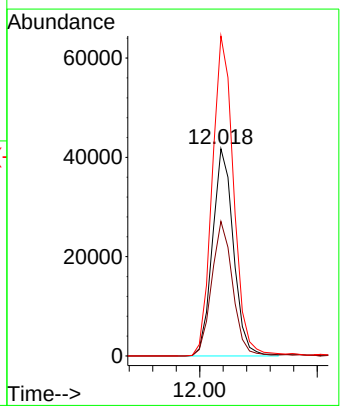



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046435.D
Acq: 02 Jun 2025 11:14

Tgt Ion:152 Resp: 51823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.6 | 46.9 | 140.7 |
| 150 | 158.1 | 0.0 | 351.0 |



Sample Results: **VX046435.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046435.D
Acq On : 02 Jun 2025 11:14
Operator : JC/MD
Sample : VX0602WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBL01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046435.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.569 | 70 | 79 | 89 | rVB4 | 4419 | 11721 | 2.49% | 0.475% |
| 2 | 5.379 | 694 | 704 | 721 | rBV2 | 56697 | 167416 | 35.57% | 6.784% |
| 3 | 5.544 | 721 | 731 | 748 | rVB2 | 75422 | 224586 | 47.72% | 9.101% |
| 4 | 5.952 | 789 | 798 | 809 | rBV | 65914 | 174073 | 36.99% | 7.054% |
| 5 | 6.757 | 921 | 930 | 943 | rBV | 137900 | 335539 | 71.30% | 13.597% |
| 6 | 8.647 | 1233 | 1240 | 1257 | rBV | 300448 | 470614 | 100.00% | 19.071% |
| 7 | 10.049 | 1465 | 1470 | 1489 | rBV | 300854 | 422138 | 89.70% | 17.106% |
| 8 | 11.079 | 1634 | 1639 | 1653 | rBV | 240111 | 308193 | 65.49% | 12.489% |
| 9 | 12.018 | 1788 | 1793 | 1802 | rBV | 283015 | 353466 | 75.11% | 14.323% |

Sum of corrected areas: 2467746

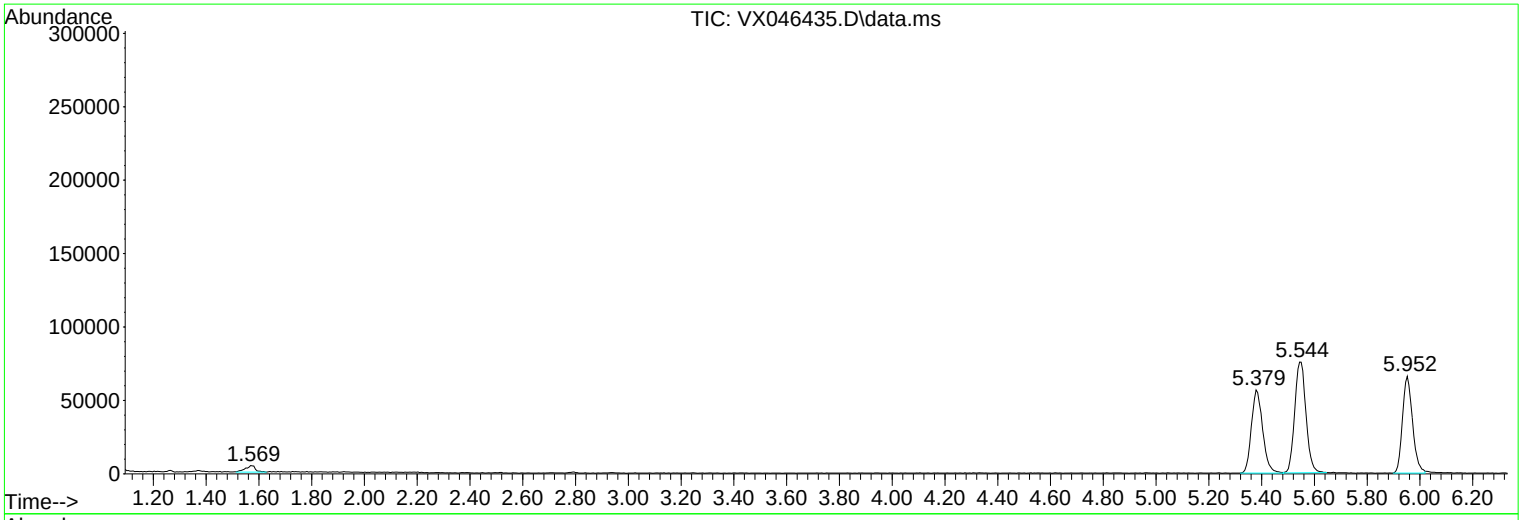
Sample Results: **VX046435.D**

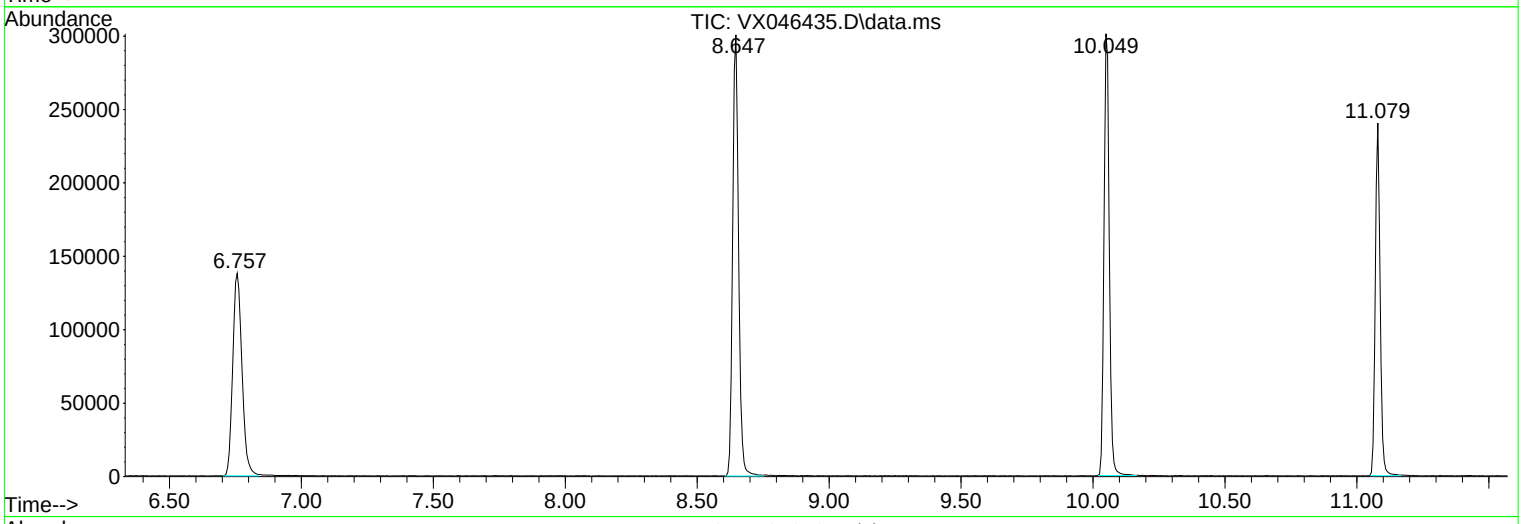
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046435.D
Acq On : 02 Jun 2025 11:14
Operator : JC/MD
Sample : VX0602WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

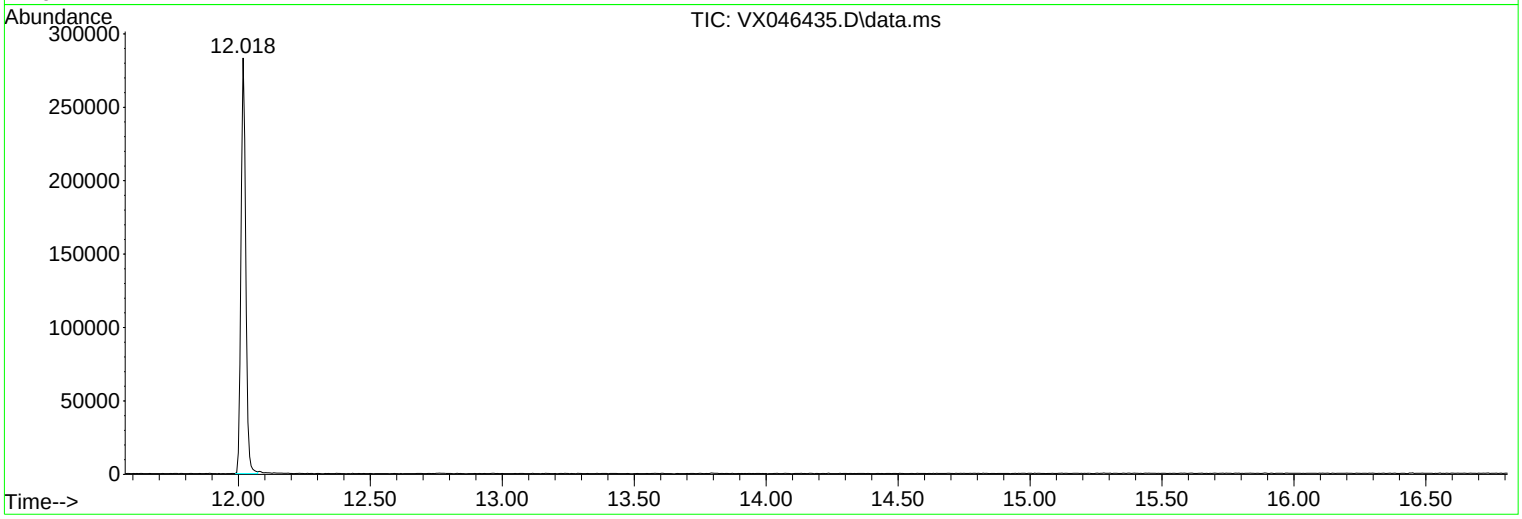
**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

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



Sample Results: **VX046435.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046435.D
Acq On : 02 Jun 2025 11:14
Operator : JC/MD
Sample : VX0602WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046435.D
Acq On : 02 Jun 2025 11:14
Operator : JC/MD
Sample : VX0602WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022512.D
Acq On : 03 Jun 2025 10:40
Operator : SY/MD
Sample : VY0603SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBL01

Quant Time: Jun 04 04:08:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 287398 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 534399 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 428748 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 155262 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 171949 | 53.494 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 106.980% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 162497 | 50.944 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 101.880% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 643614 | 49.937 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 99.880% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 161263 | 41.994 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 83.980% | | | |

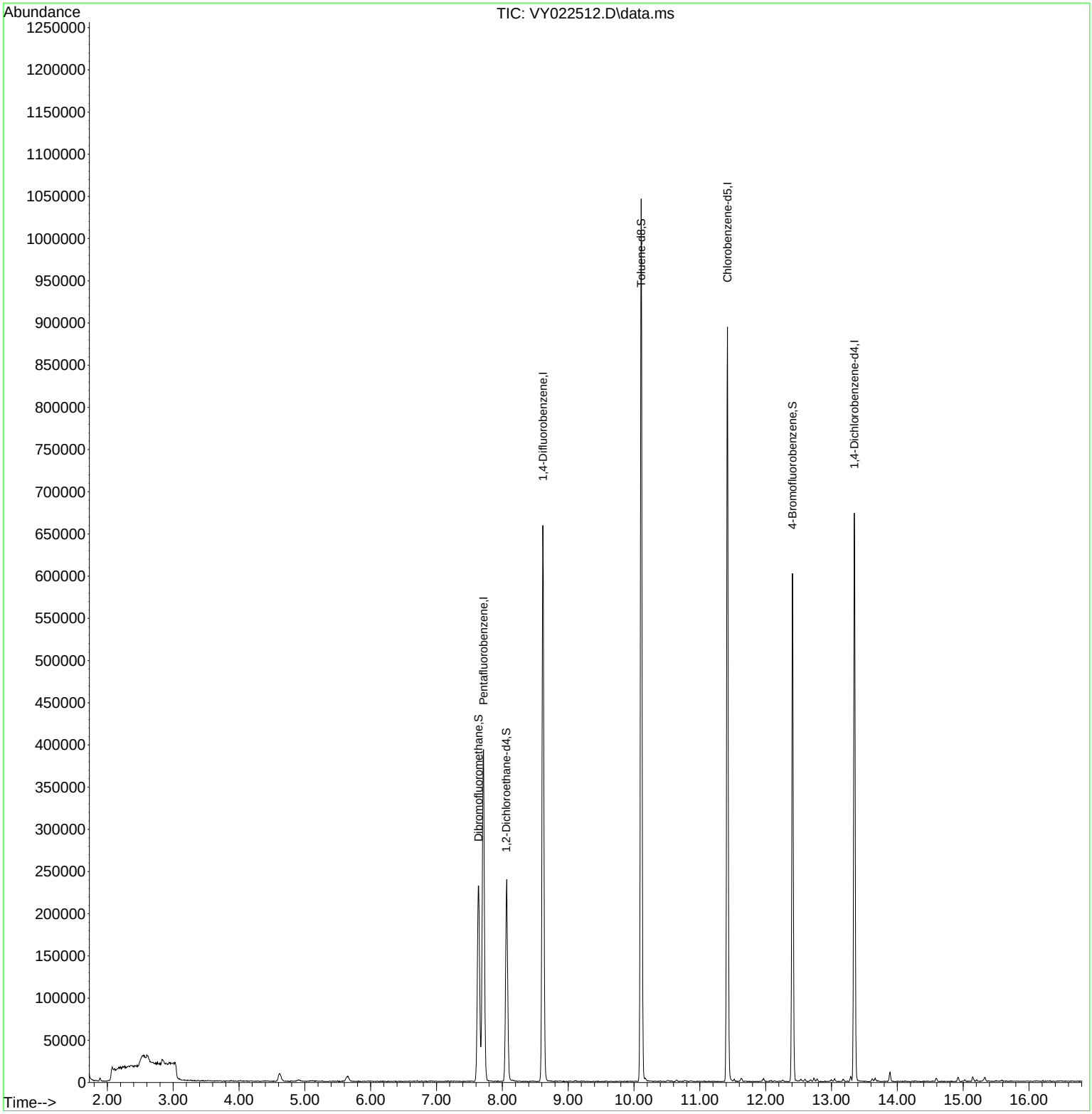
Target Compounds Qvalue

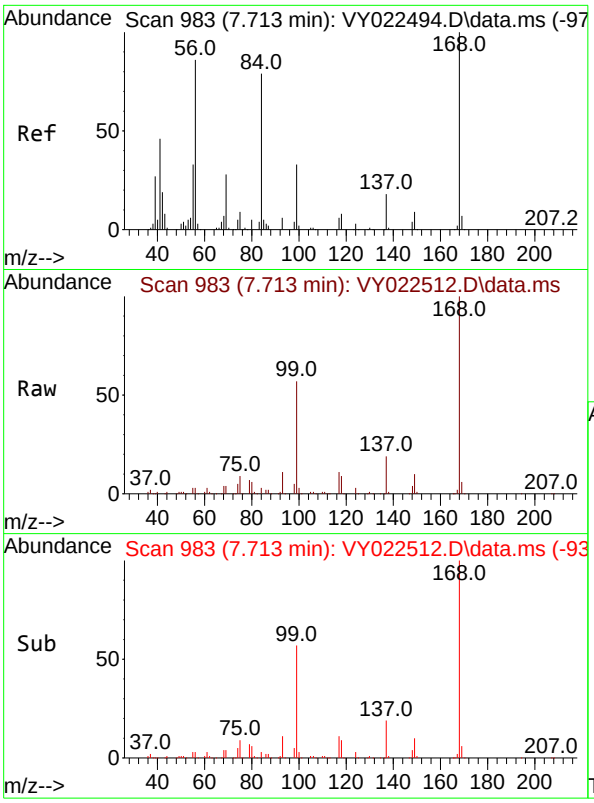
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022512.D
Acq On : 03 Jun 2025 10:40
Operator : SY/MD
Sample : VY0603SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBL01

Quant Time: Jun 04 04:08:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration



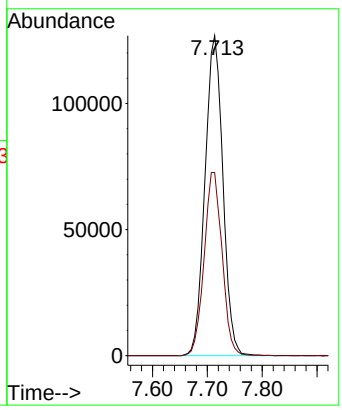


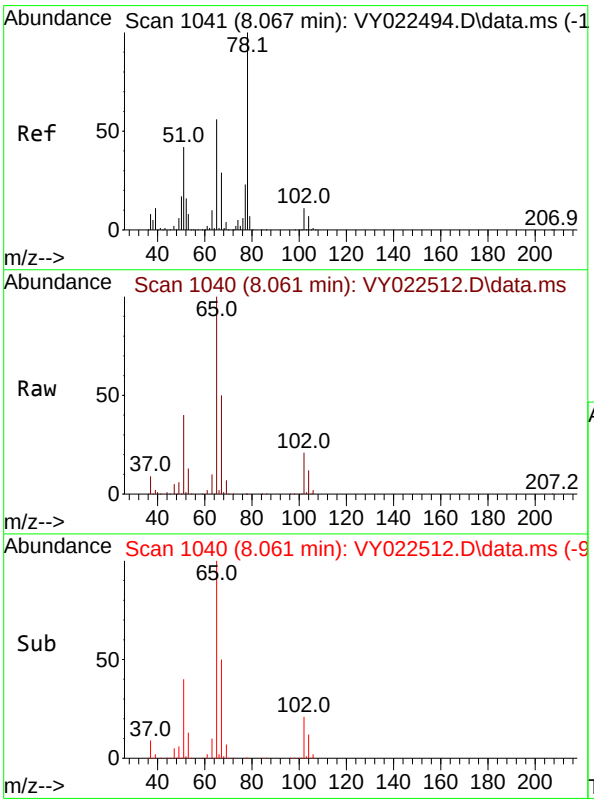

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022512.D
Acq: 03 Jun 2025 10:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBL01

Tgt Ion:168 Resp: 287398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.2 | 44.3 | 66.5 |

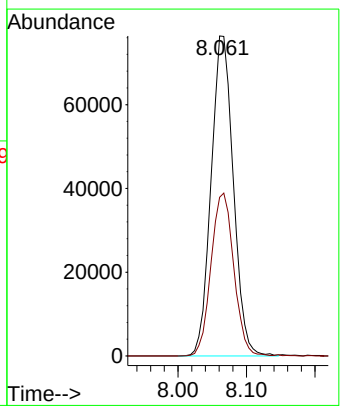


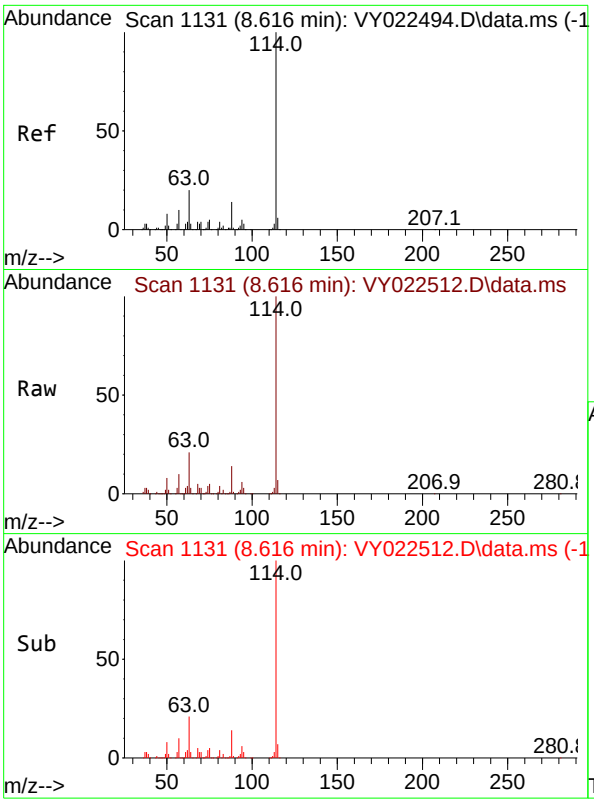




#33
1,2-Dichloroethane-d4
Concen: 53.494 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022512.D
Acq: 03 Jun 2025 10:40

Tgt Ion: 65 Resp: 171949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.0 | 0.0 | 103.4 |



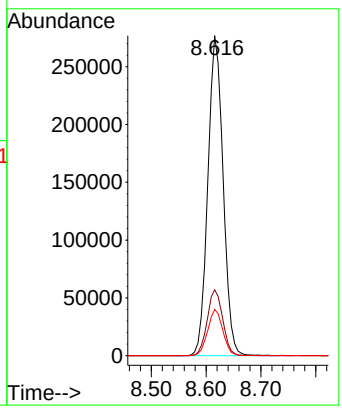


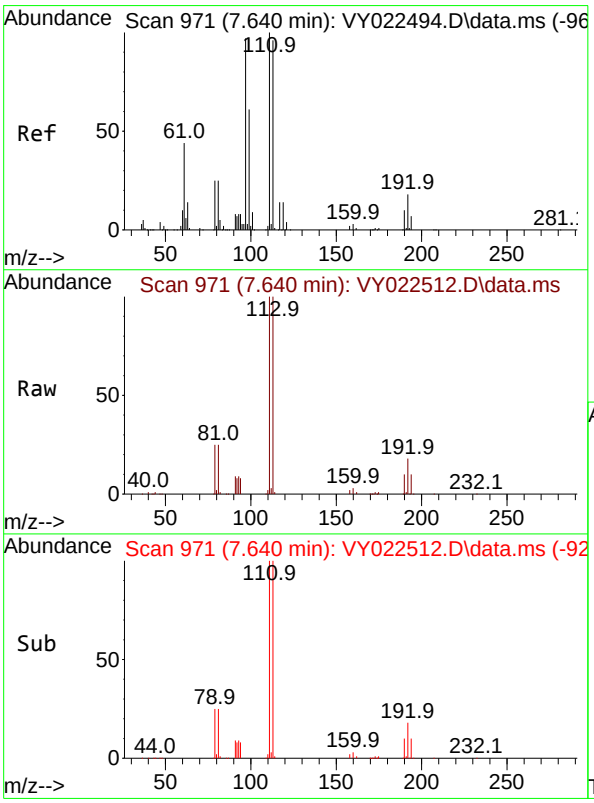

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022512.D
Acq: 03 Jun 2025 10:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBL01

Tgt Ion:114 Resp: 534399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.6 | 0.0 | 40.8 |
| 88 | 14.4 | 0.0 | 27.8 |

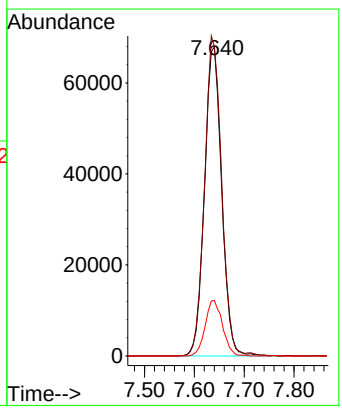


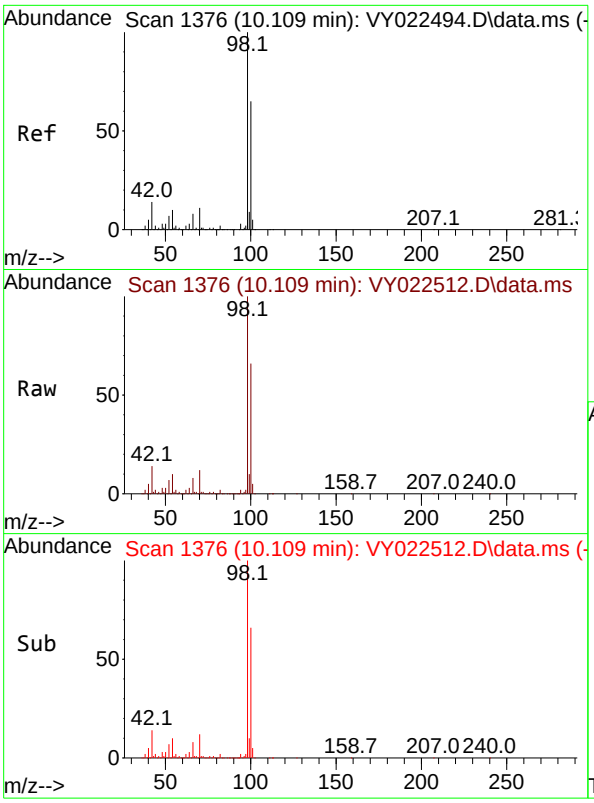




#35
Dibromofluoromethane
Concen: 50.944 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.000 min
Lab File: VY022512.D
Acq: 03 Jun 2025 10:40

Tgt Ion:113 Resp: 162497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.5 | 81.1 | 121.7 |
| 192 | 18.1 | 14.2 | 21.2 |



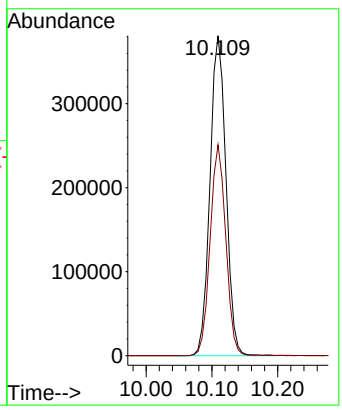


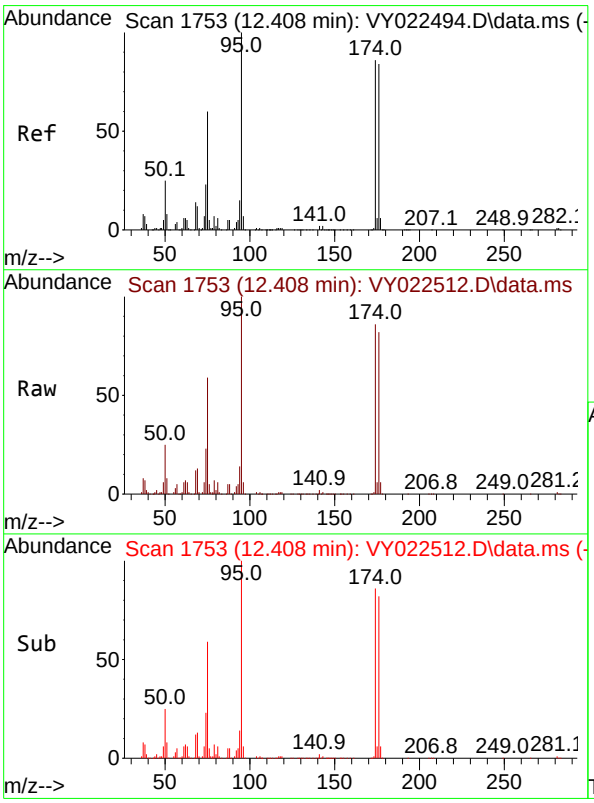

#50
Toluene-d8
Concen: 49.937 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022512.D
Acq: 03 Jun 2025 10:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBL01

Tgt Ion: 98 Resp: 643614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.6 | 51.4 | 77.0 |

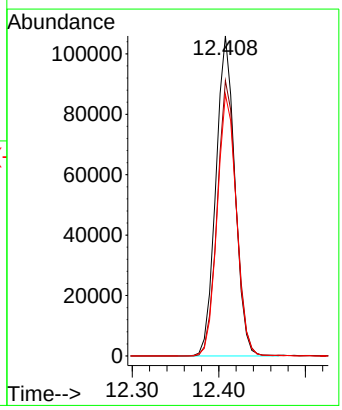


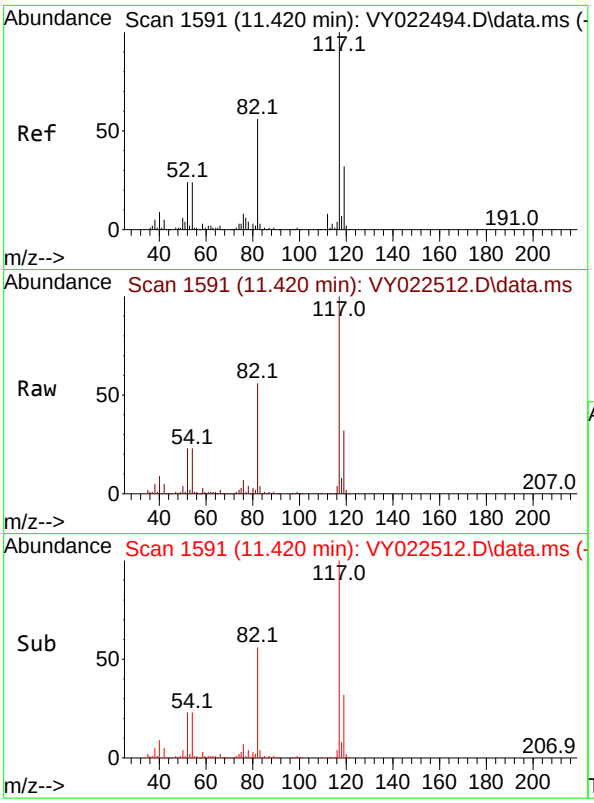




#62
4-Bromofluorobenzene
Concen: 41.994 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022512.D
Acq: 03 Jun 2025 10:40

Tgt Ion: 95 Resp: 161263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.0 | 0.0 | 170.0 |
| 176 | 82.5 | 0.0 | 166.2 |



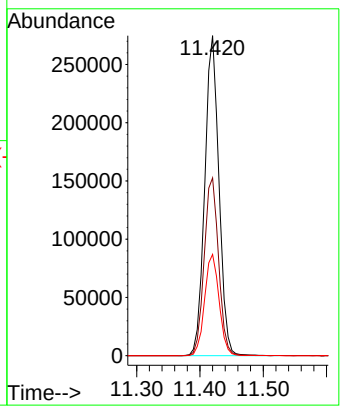


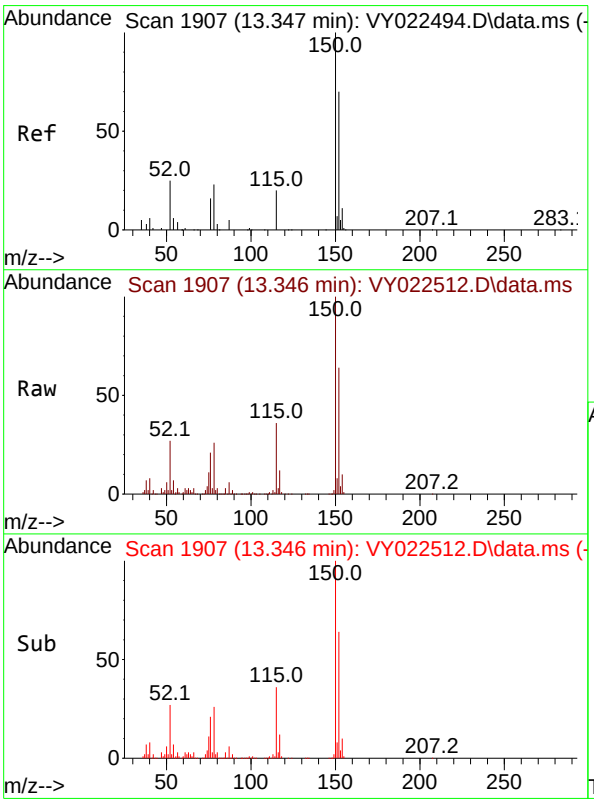

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022512.D
Acq: 03 Jun 2025 10:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBL01

Tgt Ion:117 Resp: 428748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.6 | 44.6 | 66.8 |
| 119 | 31.6 | 25.4 | 38.0 |

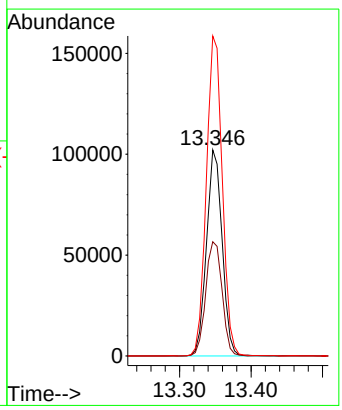



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022512.D
Acq: 03 Jun 2025 10:40

Tgt Ion:152 Resp: 155262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.0 | 28.9 | 86.7 |
| 150 | 158.0 | 0.0 | 349.6 |



Sample Results: **VY022512.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022512.D
Acq On : 03 Jun 2025 10:40
Operator : SY/MD
Sample : VY0603SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBL01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Title : SW846 8260

Signal : TIC: VY022512.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.074 | 51 | 58 | 61 | rBV4 | 16308 | 35746 | 2.03% | 0.419% |
| 2 | 2.525 | 124 | 132 | 134 | rBV6 | 11508 | 28540 | 1.62% | 0.335% |
| 3 | 4.616 | 465 | 475 | 487 | rBV5 | 9205 | 28836 | 1.64% | 0.338% |
| 4 | 5.647 | 635 | 644 | 656 | rVB5 | 6196 | 19866 | 1.13% | 0.233% |
| 5 | 7.634 | 960 | 970 | 976 | rBV | 231701 | 558773 | 31.74% | 6.557% |
| 6 | 7.713 | 976 | 983 | 993 | rVB | 392129 | 893359 | 50.75% | 10.483% |
| 7 | 8.067 | 1030 | 1041 | 1053 | rBV | 239523 | 514607 | 29.23% | 6.039% |
| 8 | 8.616 | 1122 | 1131 | 1143 | rBV | 658828 | 1278696 | 72.63% | 15.005% |
| 9 | 10.109 | 1367 | 1376 | 1385 | rBV | 1045962 | 1760453 | 100.00% | 20.658% |
| 10 | 11.420 | 1583 | 1591 | 1603 | rBV | 894137 | 1423227 | 80.84% | 16.700% |
| 11 | 12.408 | 1741 | 1753 | 1760 | rBV | 602384 | 930697 | 52.87% | 10.921% |
| 12 | 13.346 | 1901 | 1907 | 1916 | rVB | 672428 | 1031179 | 58.57% | 12.100% |
| 13 | 13.889 | 1990 | 1996 | 2003 | rBV | 11170 | 18100 | 1.03% | 0.212% |

Sum of corrected areas: 8522079

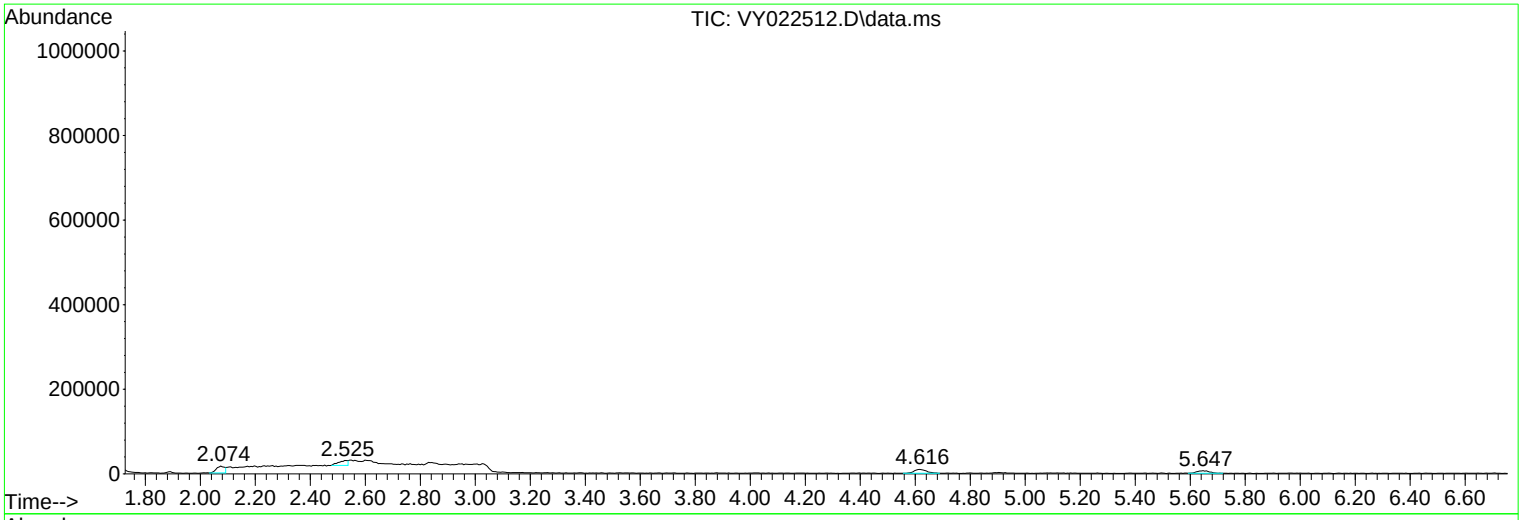
Sample Results: **VY022512.D**

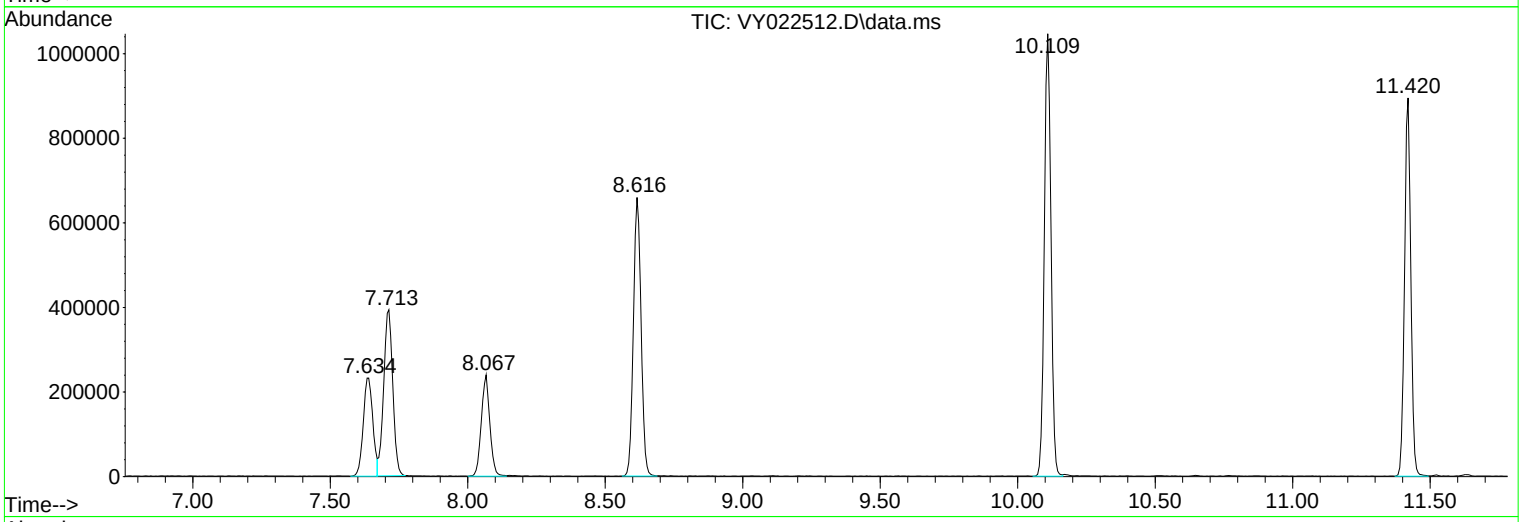
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022512.D
Acq On : 03 Jun 2025 10:40
Operator : SY/MD
Sample : VY0603SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

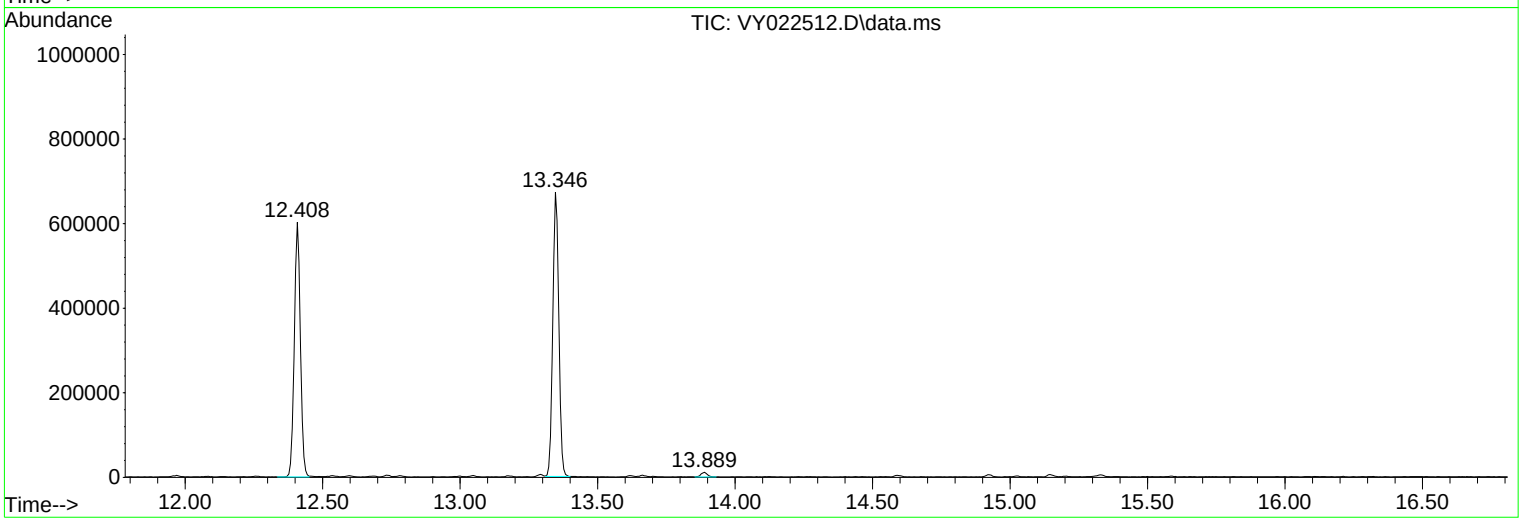
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY022512.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022512.D
Acq On : 03 Jun 2025 10:40
Operator : SY/MD
Sample : VY0603SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

A
B
C
D
E
F
G
H
I
J

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022512.D
Acq On : 03 Jun 2025 10:40
Operator : SY/MD
Sample : VY0603SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022539.D
Acq On : 04 Jun 2025 10:24
Operator : SY/MD
Sample : VY0604SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0604SBL01

Quant Time: Jun 05 04:09:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

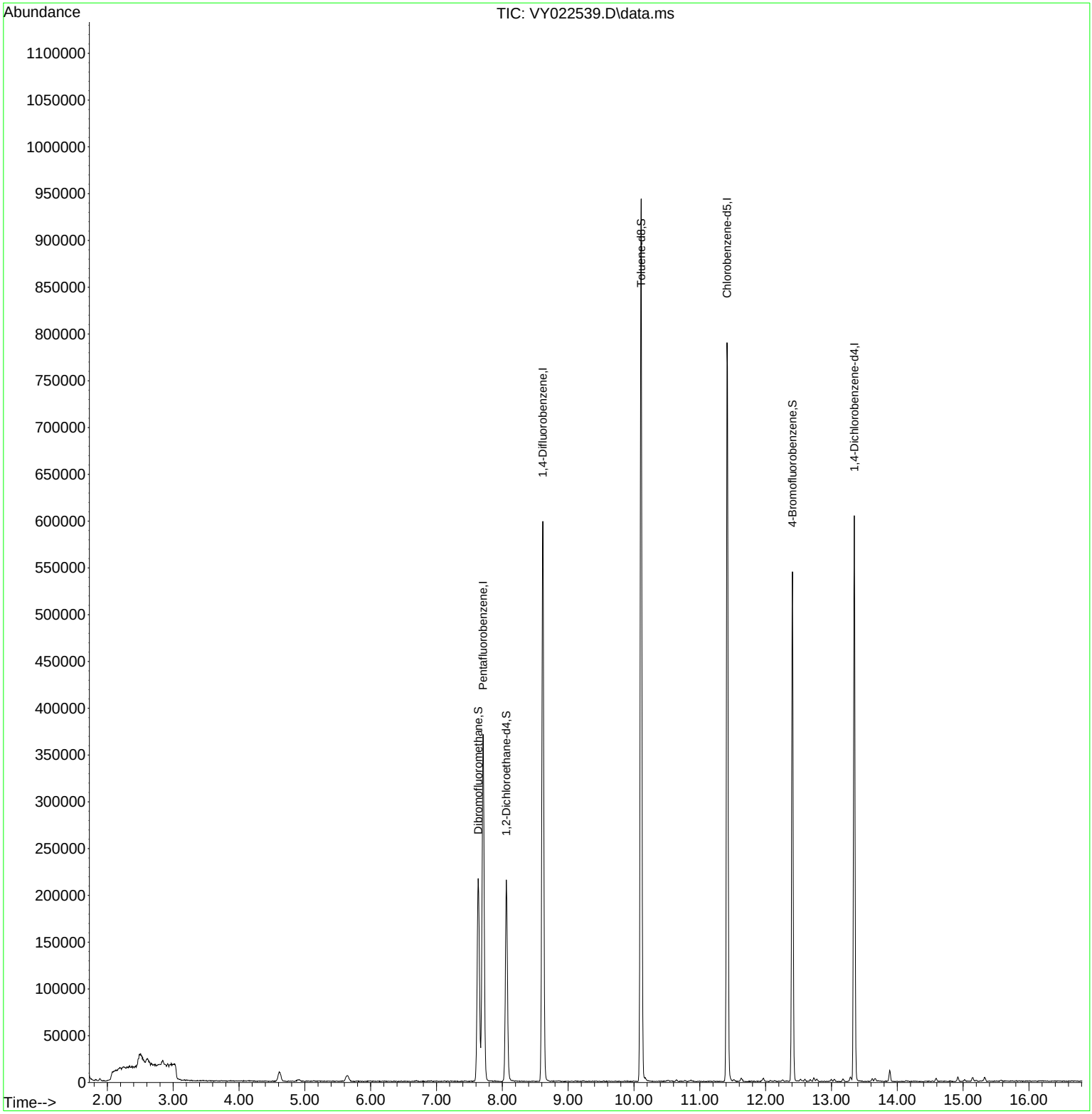
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 271205 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 498185 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 390593 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 137326 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 159828 | 52.692 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 105.380% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 150711 | 50.684 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 101.360% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 592665 | 49.327 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 98.660% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 149151 | 41.664 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 83.320% | | | |
| Target Compounds | | | | | | Qvalue |

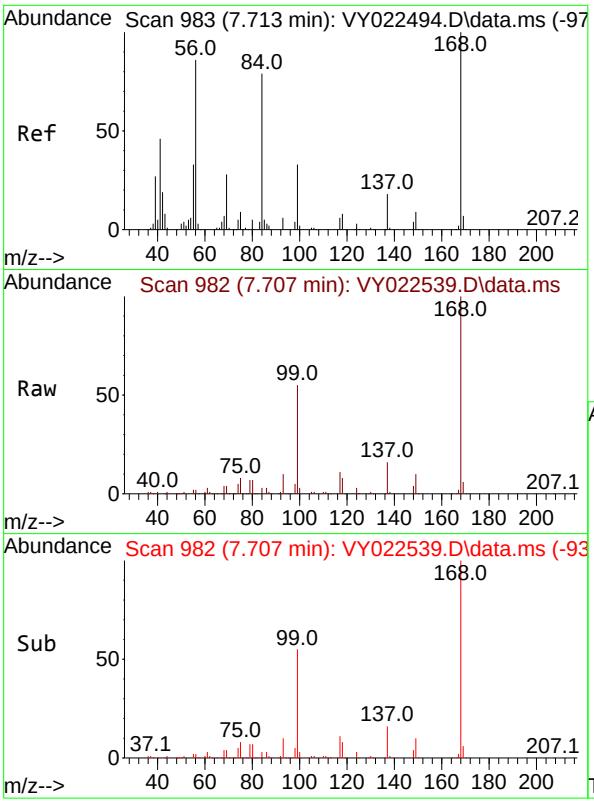
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022539.D
Acq On : 04 Jun 2025 10:24
Operator : SY/MD
Sample : VY0604SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0604SBL01

Quant Time: Jun 05 04:09:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration



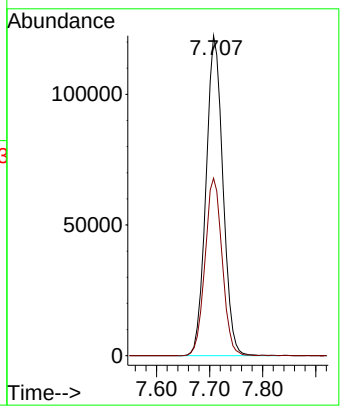


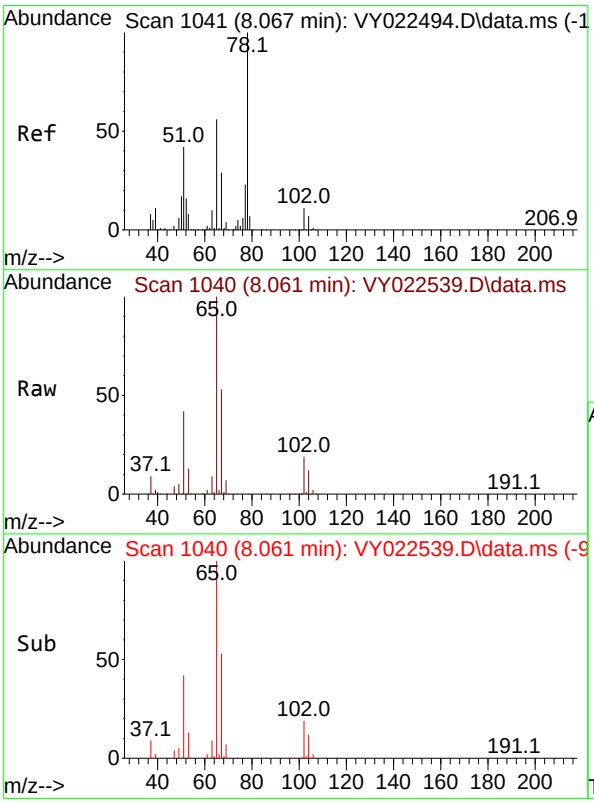

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022539.D
Acq: 04 Jun 2025 10:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0604SBL01

Tgt Ion:168 Resp: 271205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.5 | 44.3 | 66.5 |

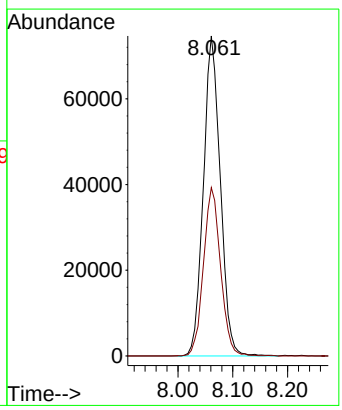


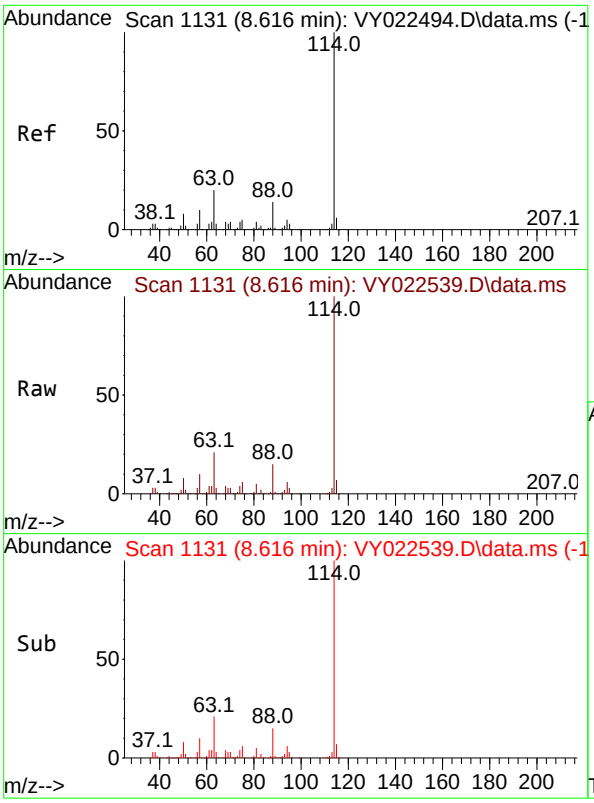




#33
1,2-Dichloroethane-d4
Concen: 52.692 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022539.D
Acq: 04 Jun 2025 10:24

Tgt Ion: 65 Resp: 159828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.1 | 0.0 | 103.4 |



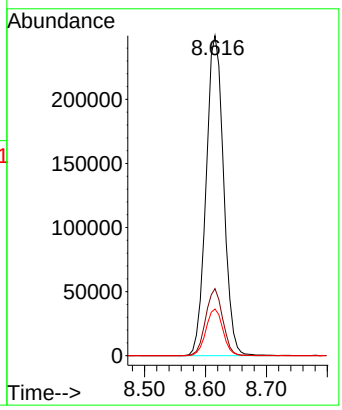


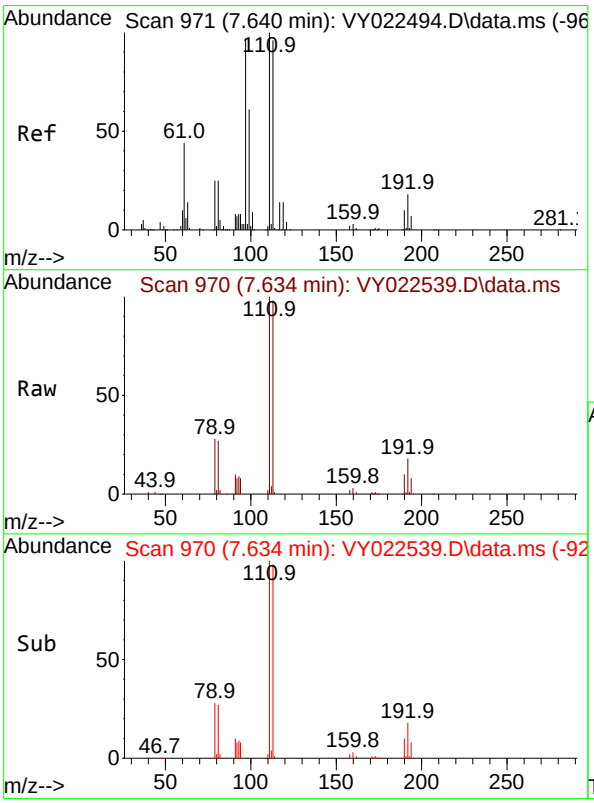

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022539.D
Acq: 04 Jun 2025 10:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0604SBL01

Tgt Ion:114 Resp: 498185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.9 | 0.0 | 40.8 |
| 88 | 14.6 | 0.0 | 27.8 |

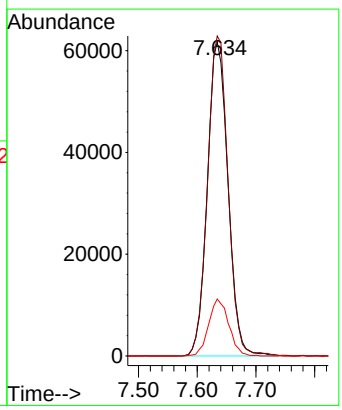


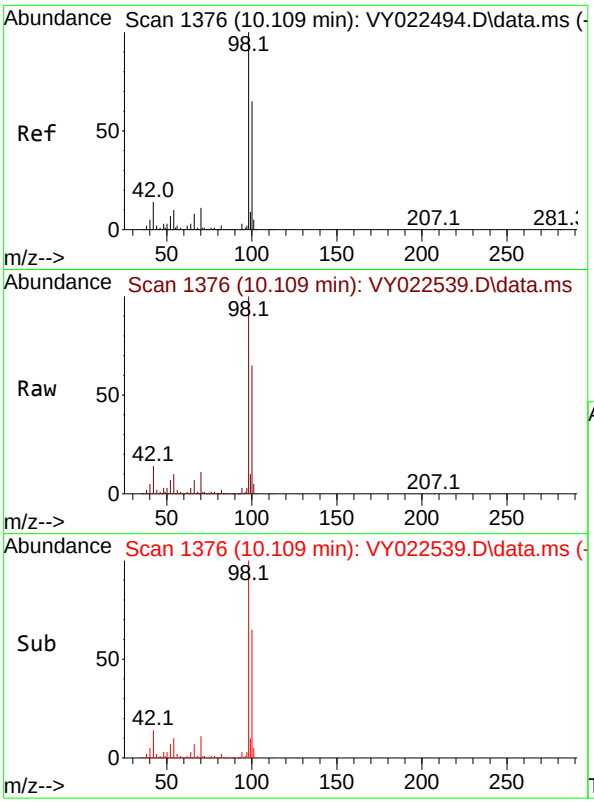




#35
Dibromofluoromethane
Concen: 50.684 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022539.D
Acq: 04 Jun 2025 10:24

Tgt Ion:113 Resp: 150711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.5 | 81.1 | 121.7 |
| 192 | 17.7 | 14.2 | 21.2 |



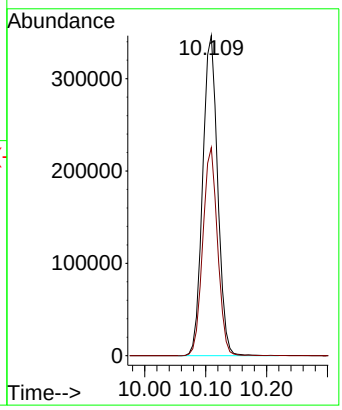


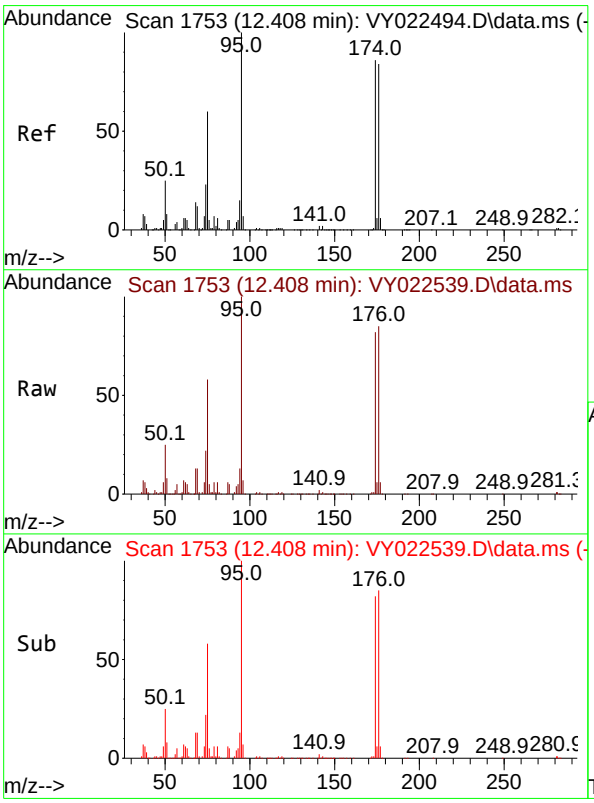

#50
Toluene-d8
Concen: 49.327 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022539.D
Acq: 04 Jun 2025 10:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0604SBL01

Tgt Ion: 98 Resp: 592665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.0 | 51.4 | 77.0 |

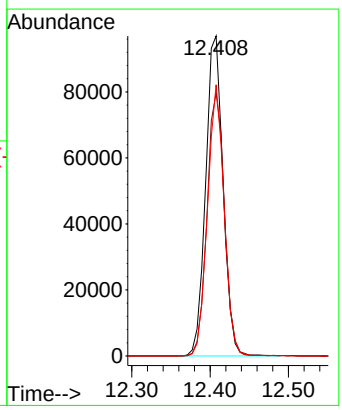


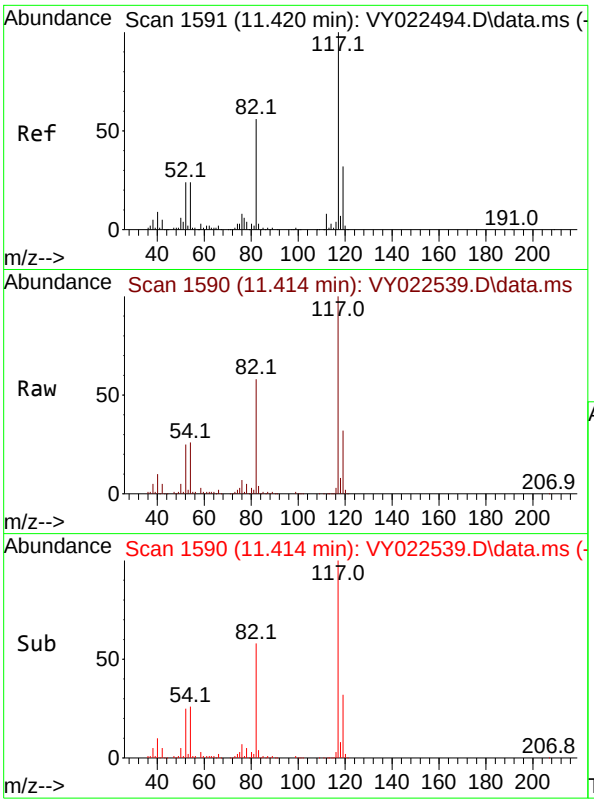




#62
4-Bromofluorobenzene
Concen: 41.664 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022539.D
Acq: 04 Jun 2025 10:24

Tgt Ion: 95 Resp: 149151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 82.8 | 0.0 | 170.0 |
| 176 | 80.6 | 0.0 | 166.2 |



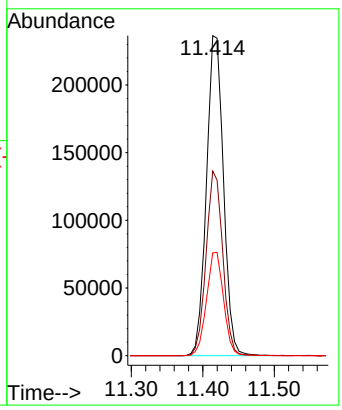


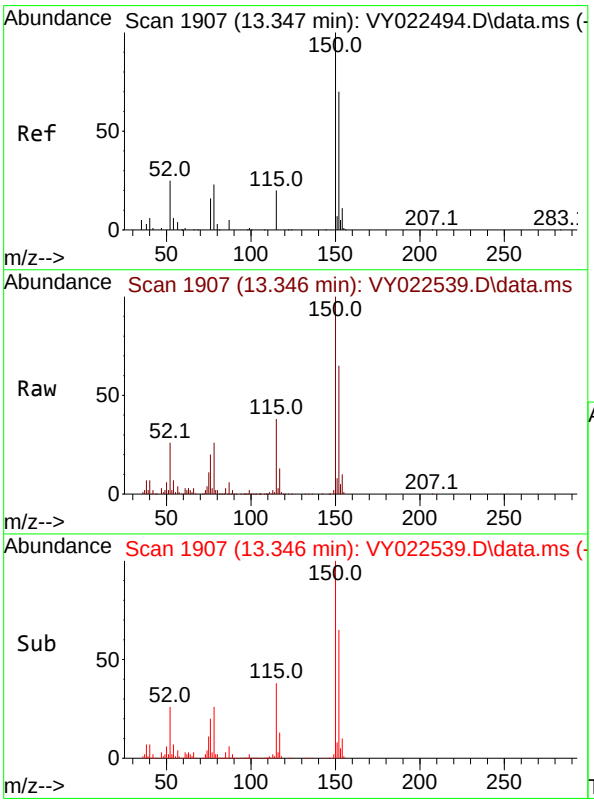

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022539.D
Acq: 04 Jun 2025 10:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0604SBL01

Tgt Ion:117 Resp: 390593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.7 | 44.6 | 66.8 |
| 119 | 32.2 | 25.4 | 38.0 |

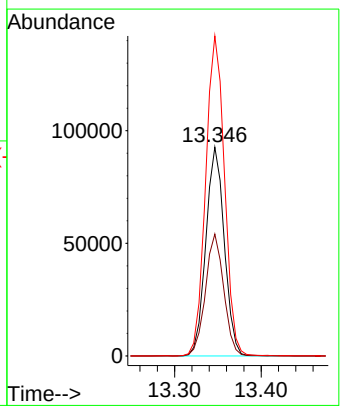



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022539.D
Acq: 04 Jun 2025 10:24

Tgt Ion:152 Resp: 137326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.1 | 28.9 | 86.7 |
| 150 | 156.5 | 0.0 | 349.6 |



Sample Results: **VY022539.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022539.D
Acq On : 04 Jun 2025 10:24
Operator : SY/MD
Sample : VY0604SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0604SBL01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Title : SW846 8260

Signal : TIC: VY022539.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.080 | 50 | 59 | 60 | rBV3 | 8900 | 16705 | 1.03% | 0.215% |
| 2 | 4.610 | 464 | 474 | 486 | rBV3 | 10253 | 32359 | 2.00% | 0.416% |
| 3 | 5.647 | 633 | 644 | 652 | rBV6 | 6208 | 21172 | 1.31% | 0.272% |
| 4 | 7.634 | 959 | 970 | 976 | rBV | 216859 | 519690 | 32.09% | 6.673% |
| 5 | 7.707 | 976 | 982 | 995 | rVB | 370343 | 834319 | 51.51% | 10.713% |
| 6 | 8.061 | 1030 | 1040 | 1052 | rBV | 215799 | 474896 | 29.32% | 6.098% |
| 7 | 8.616 | 1122 | 1131 | 1150 | rVB | 598809 | 1189420 | 73.44% | 15.273% |
| 8 | 10.109 | 1367 | 1376 | 1385 | rBV | 943399 | 1619604 | 100.00% | 20.797% |
| 9 | 11.414 | 1583 | 1590 | 1603 | rBV | 789380 | 1299067 | 80.21% | 16.681% |
| 10 | 12.408 | 1745 | 1753 | 1764 | rBV | 544757 | 844373 | 52.13% | 10.842% |
| 11 | 13.346 | 1901 | 1907 | 1919 | rVB | 604325 | 917874 | 56.67% | 11.786% |
| 12 | 13.883 | 1990 | 1995 | 2001 | rVB2 | 11753 | 18325 | 1.13% | 0.235% |

Sum of corrected areas: 7787804

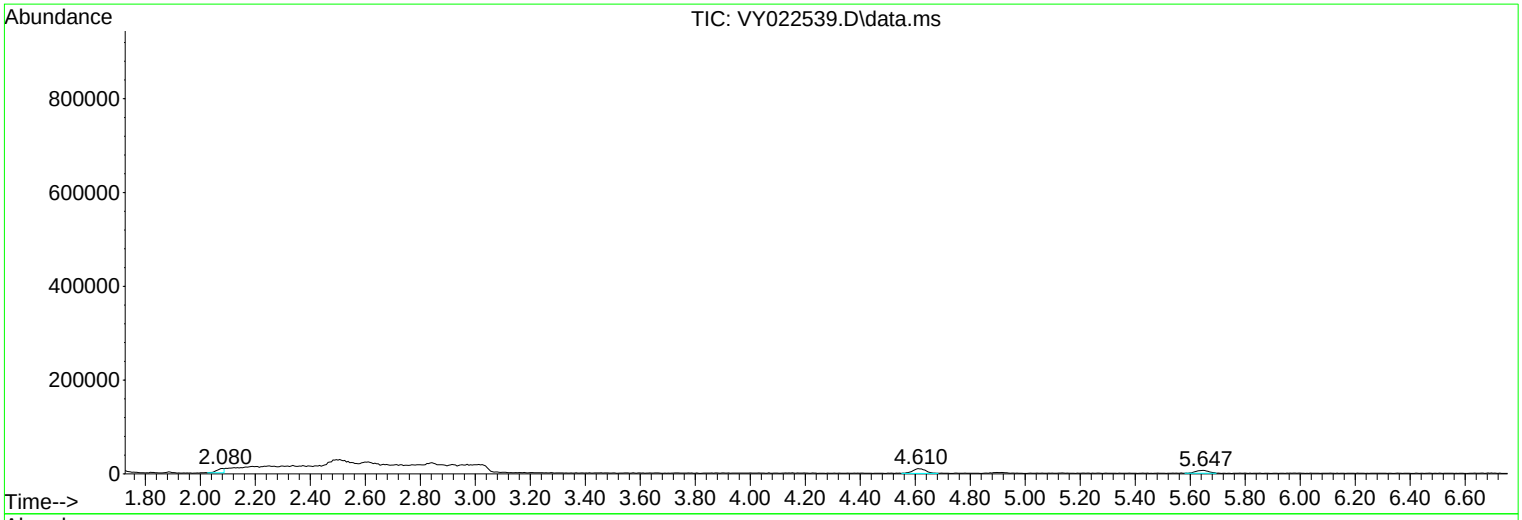
Sample Results: **VY022539.D**

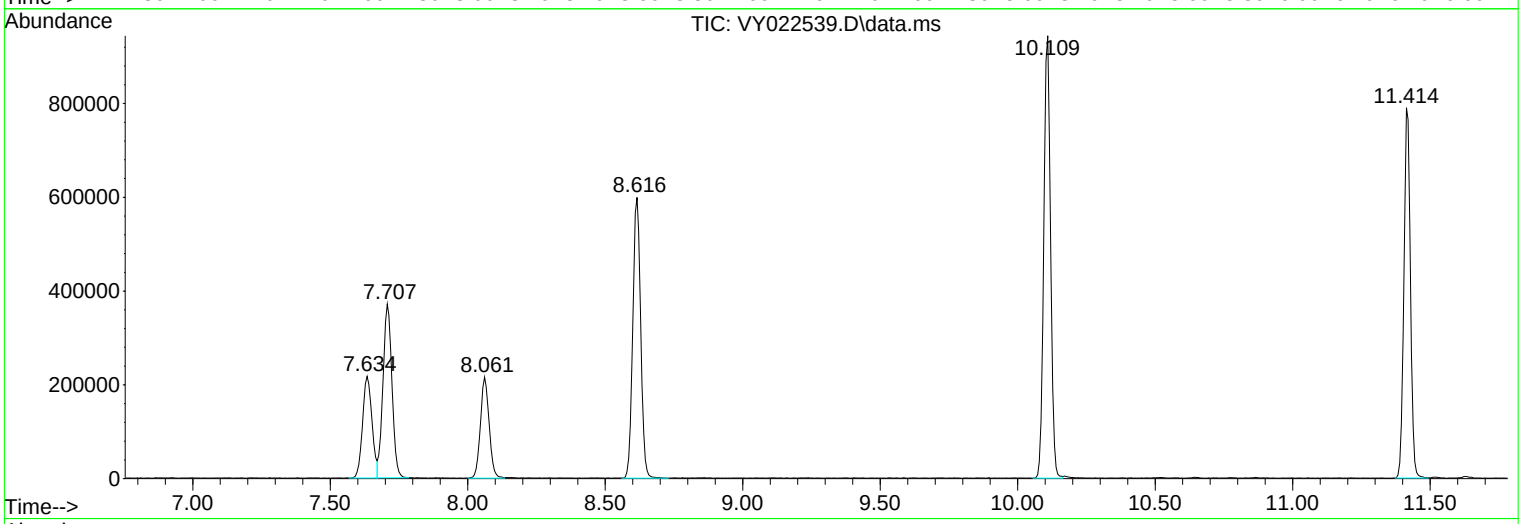
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022539.D
Acq On : 04 Jun 2025 10:24
Operator : SY/MD
Sample : VY0604SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

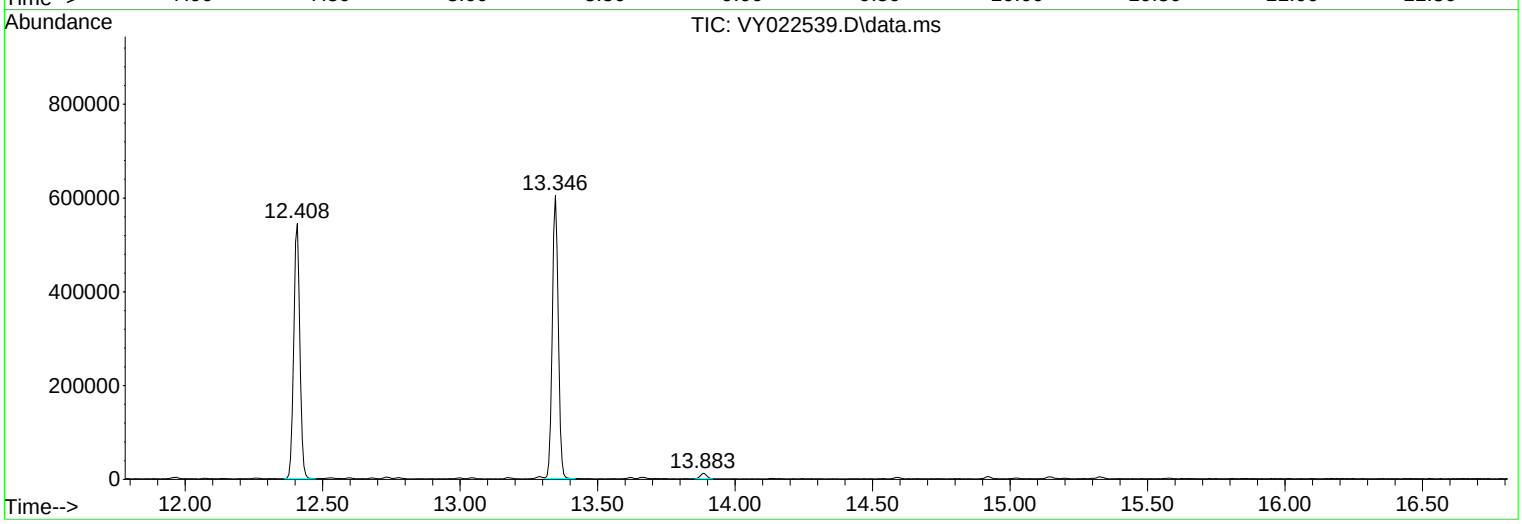
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0604SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY022539.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022539.D
Acq On : 04 Jun 2025 10:24
Operator : SY/MD
Sample : VY0604SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0604SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022539.D
Acq On : 04 Jun 2025 10:24
Operator : SY/MD
Sample : VY0604SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0604SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
Data File : VY022561.D
Acq On : 05 Jun 2025 09:11
Operator : SY/MD
Sample : VY0605SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0605SBL01

Quant Time: Jun 06 01:19:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

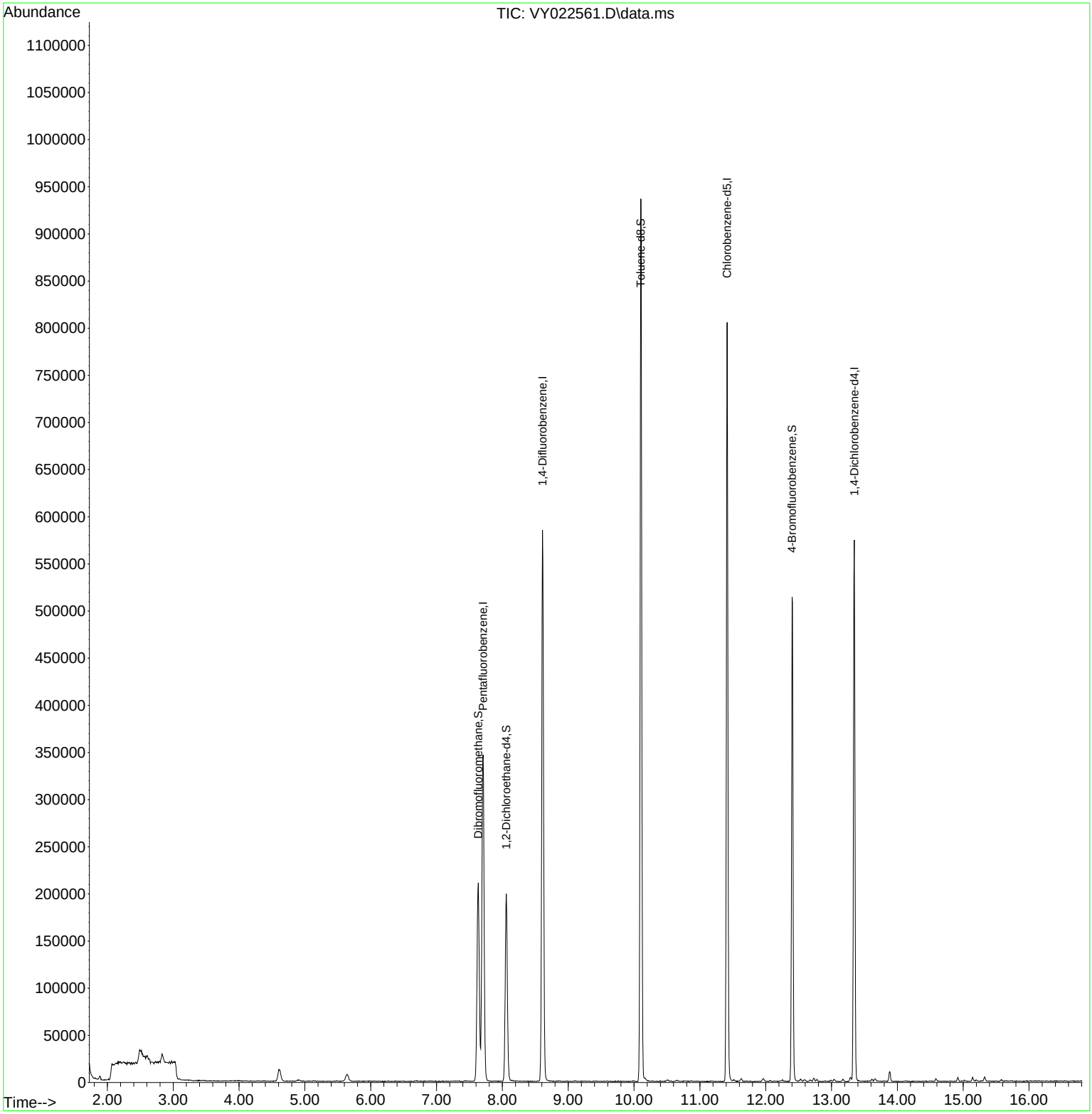
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 260317 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 481555 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 383268 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 134444 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.060 | 65 | 150403 | 51.658 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 103.320% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 144501 | 50.273 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.540% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 576294 | 49.621 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 99.240% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 140831 | 40.698 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 81.400% | | | |
| Target Compounds | | | | | | Qvalue |

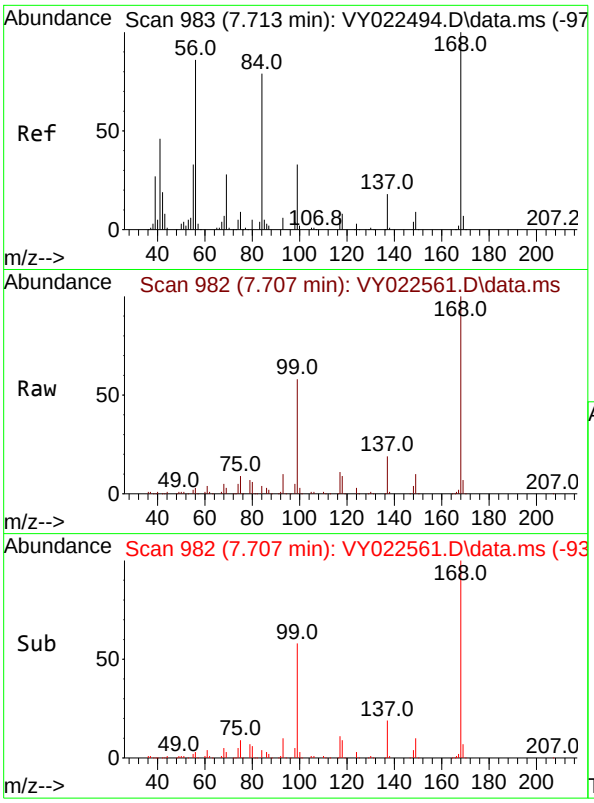
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
Data File : VY022561.D
Acq On : 05 Jun 2025 09:11
Operator : SY/MD
Sample : VY0605SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0605SBL01

Quant Time: Jun 06 01:19:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration



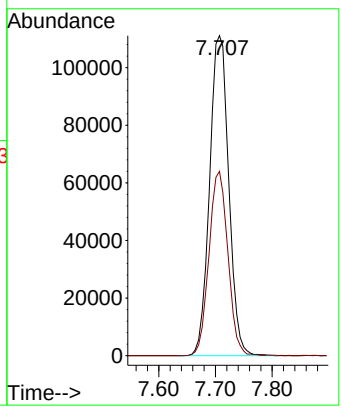


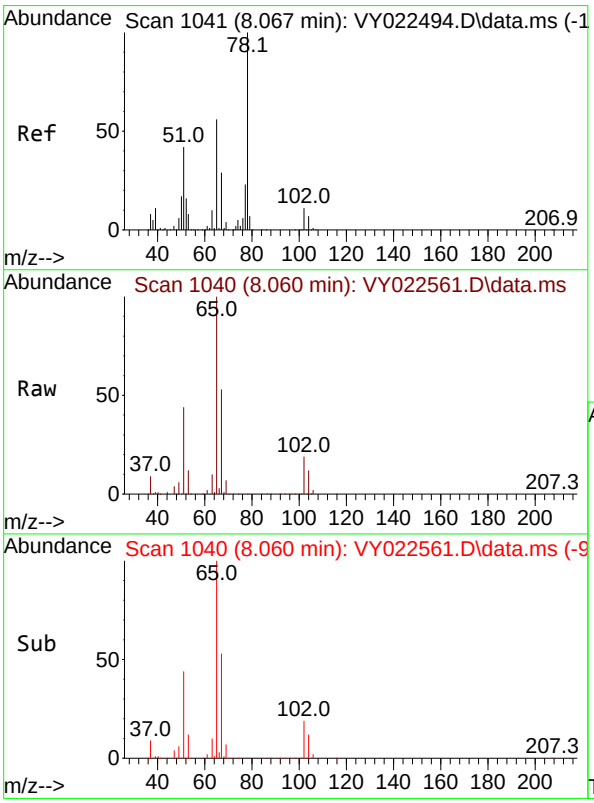

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022561.D
Acq: 05 Jun 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0605SBL01

Tgt Ion:168 Resp: 260317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.6 | 44.3 | 66.5 |

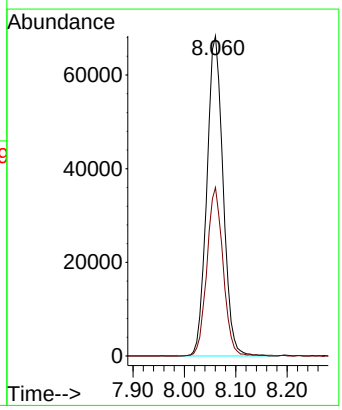


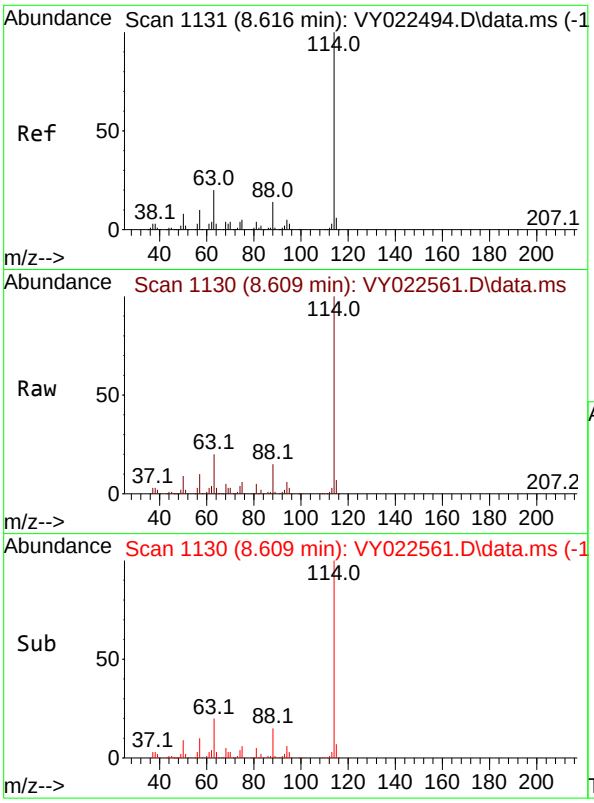




#33
1,2-Dichloroethane-d4
Concen: 51.658 ug/l
RT: 8.060 min Scan# 1040
Delta R.T. -0.007 min
Lab File: VY022561.D
Acq: 05 Jun 2025 09:11

Tgt Ion: 65 Resp: 150403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.4 | 0.0 | 103.4 |



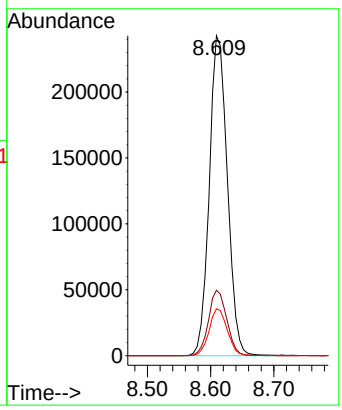


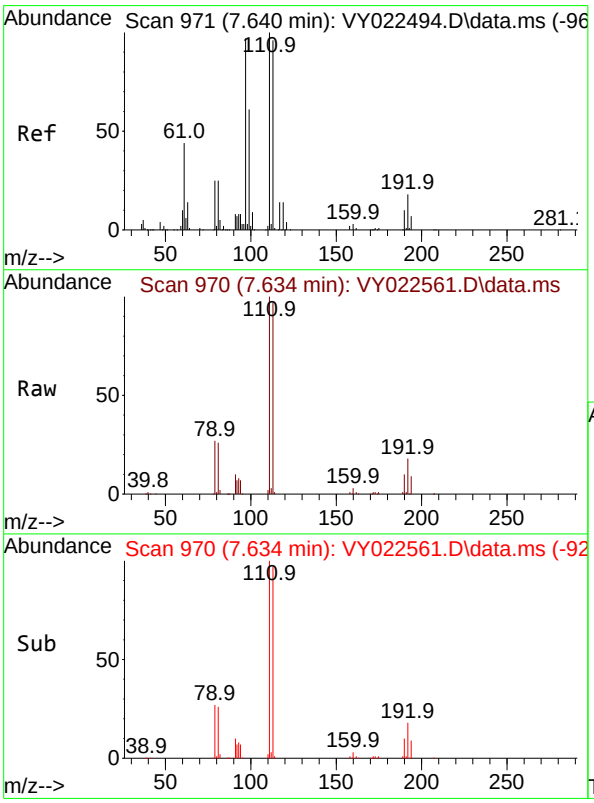

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. -0.007 min
Lab File: VY022561.D
Acq: 05 Jun 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0605SBL01

Tgt Ion:114 Resp: 481555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.4 | 0.0 | 40.8 |
| 88 | 14.7 | 0.0 | 27.8 |

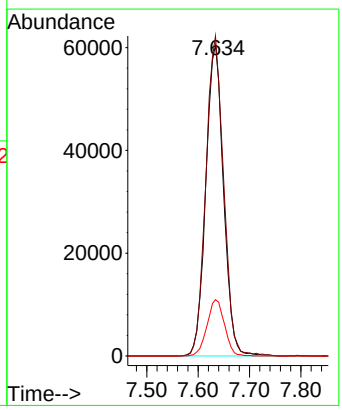


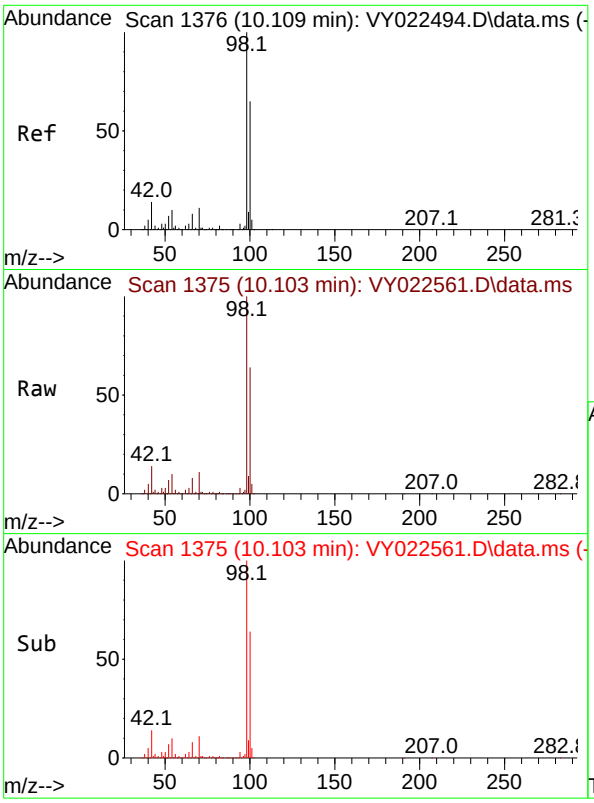




#35
Dibromofluoromethane
Concen: 50.273 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.007 min
Lab File: VY022561.D
Acq: 05 Jun 2025 09:11

Tgt Ion:113 Resp: 144501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.7 | 81.1 | 121.7 |
| 192 | 17.9 | 14.2 | 21.2 |



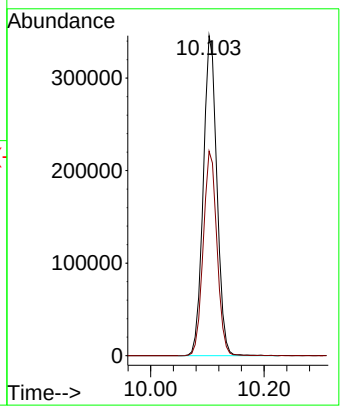


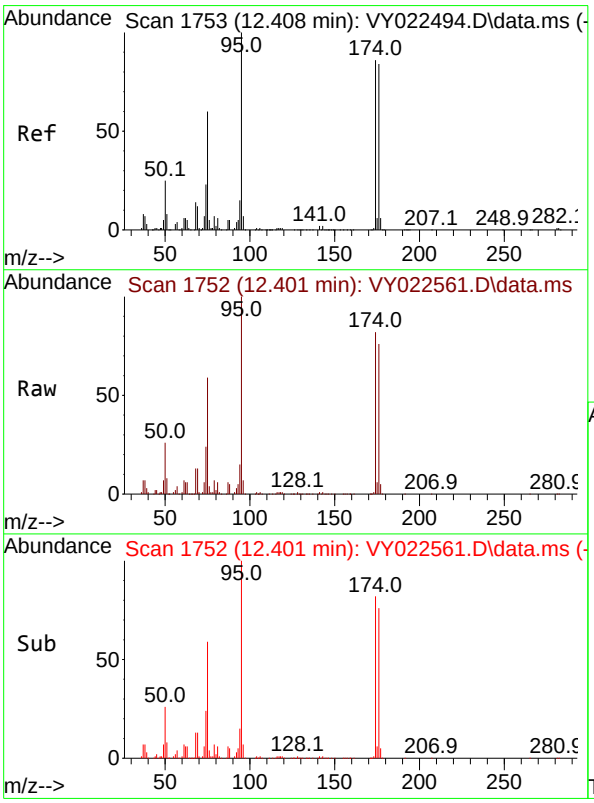

#50
Toluene-d8
Concen: 49.621 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.007 min
Lab File: VY022561.D
Acq: 05 Jun 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0605SBL01

Tgt Ion: 98 Resp: 576294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.3 | 51.4 | 77.0 |

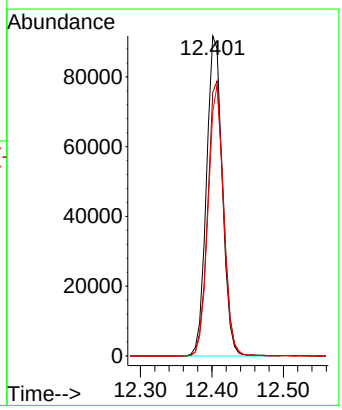


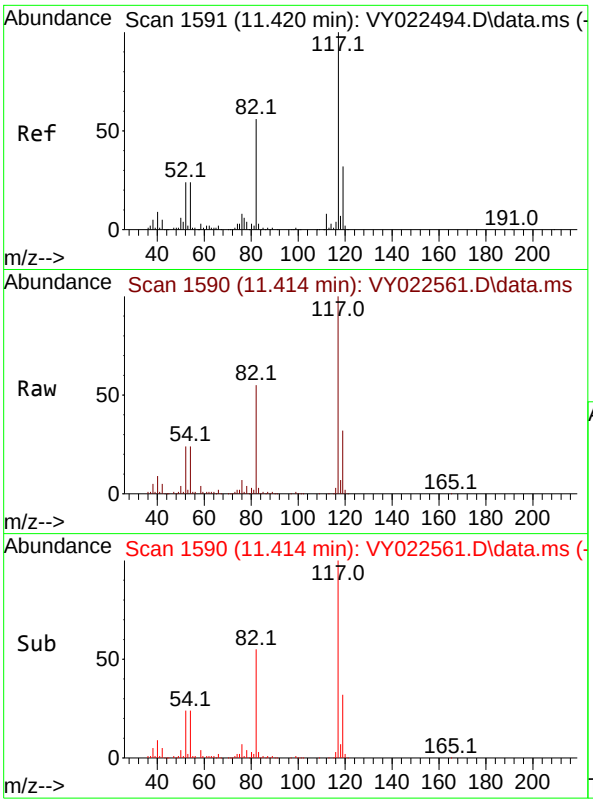




#62
4-Bromofluorobenzene
Concen: 40.698 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.007 min
Lab File: VY022561.D
Acq: 05 Jun 2025 09:11

Tgt Ion: 95 Resp: 140831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.6 | 0.0 | 170.0 |
| 176 | 82.7 | 0.0 | 166.2 |



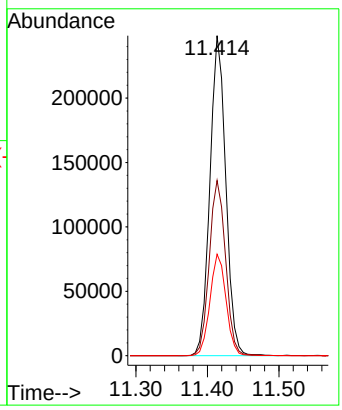


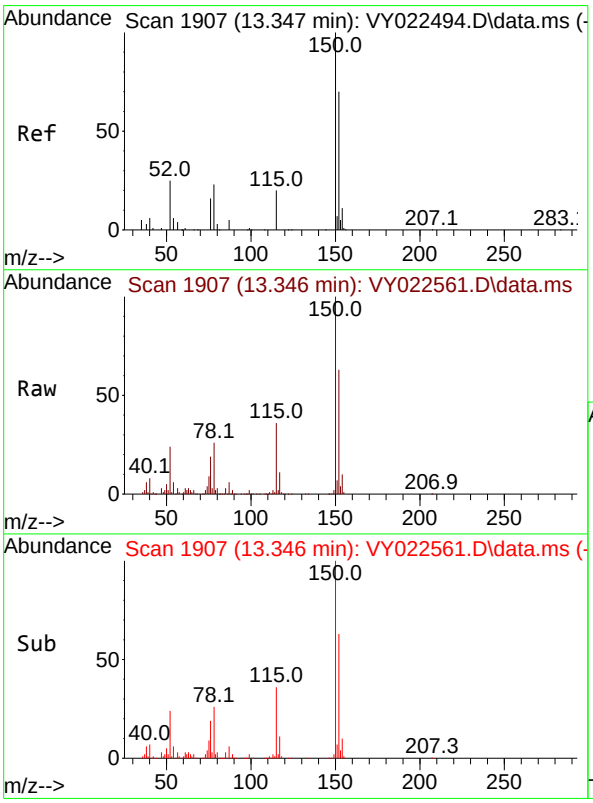

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.007 min
Lab File: VY022561.D
Acq: 05 Jun 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0605SBL01

Tgt Ion:117 Resp: 383268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.8 | 44.6 | 66.8 |
| 119 | 31.7 | 25.4 | 38.0 |

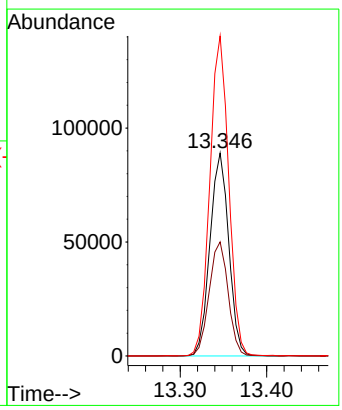



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022561.D
Acq: 05 Jun 2025 09:11

Tgt Ion:152 Resp: 134444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.0 | 28.9 | 86.7 |
| 150 | 157.8 | 0.0 | 349.6 |



Sample Results: **VY022561.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
Data File : VY022561.D
Acq On : 05 Jun 2025 09:11
Operator : SY/MD
Sample : VY0605SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0605SBL01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Title : SW846 8260

Signal : TIC: VY022561.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.074 | 51 | 58 | 59 | rBV | 17257 | 31022 | 1.97% | 0.408% |
| 2 | 2.830 | 178 | 182 | 190 | rVB7 | 9157 | 18591 | 1.18% | 0.245% |
| 3 | 4.604 | 465 | 473 | 488 | rVB2 | 12680 | 39721 | 2.52% | 0.523% |
| 4 | 5.640 | 630 | 643 | 655 | rVB5 | 7470 | 24716 | 1.57% | 0.325% |
| 5 | 7.634 | 958 | 970 | 976 | rBV | 210718 | 507968 | 32.20% | 6.686% |
| 6 | 7.707 | 976 | 982 | 1001 | rVB | 346227 | 805083 | 51.03% | 10.596% |
| 7 | 8.060 | 1030 | 1040 | 1052 | rBV | 198975 | 443774 | 28.13% | 5.841% |
| 8 | 8.609 | 1120 | 1130 | 1142 | rBV | 584428 | 1154841 | 73.20% | 15.200% |
| 9 | 10.103 | 1367 | 1375 | 1385 | rBV | 936357 | 1577717 | 100.00% | 20.765% |
| 10 | 11.414 | 1583 | 1590 | 1603 | rBV | 804473 | 1265723 | 80.22% | 16.659% |
| 11 | 12.401 | 1744 | 1752 | 1762 | rBV | 514154 | 817173 | 51.79% | 10.755% |
| 12 | 13.346 | 1900 | 1907 | 1917 | rVB | 573759 | 892925 | 56.60% | 11.752% |
| 13 | 13.883 | 1989 | 1995 | 2001 | rBV2 | 10530 | 18622 | 1.18% | 0.245% |

Sum of corrected areas: 7597876

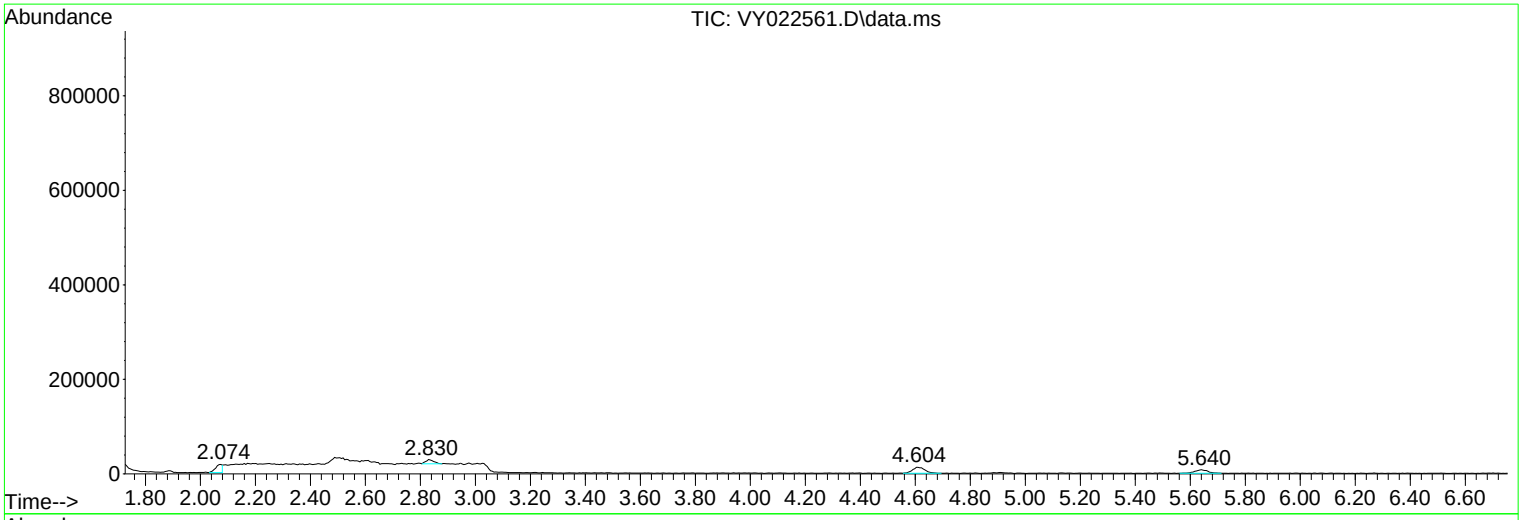
Sample Results: **VY022561.D**

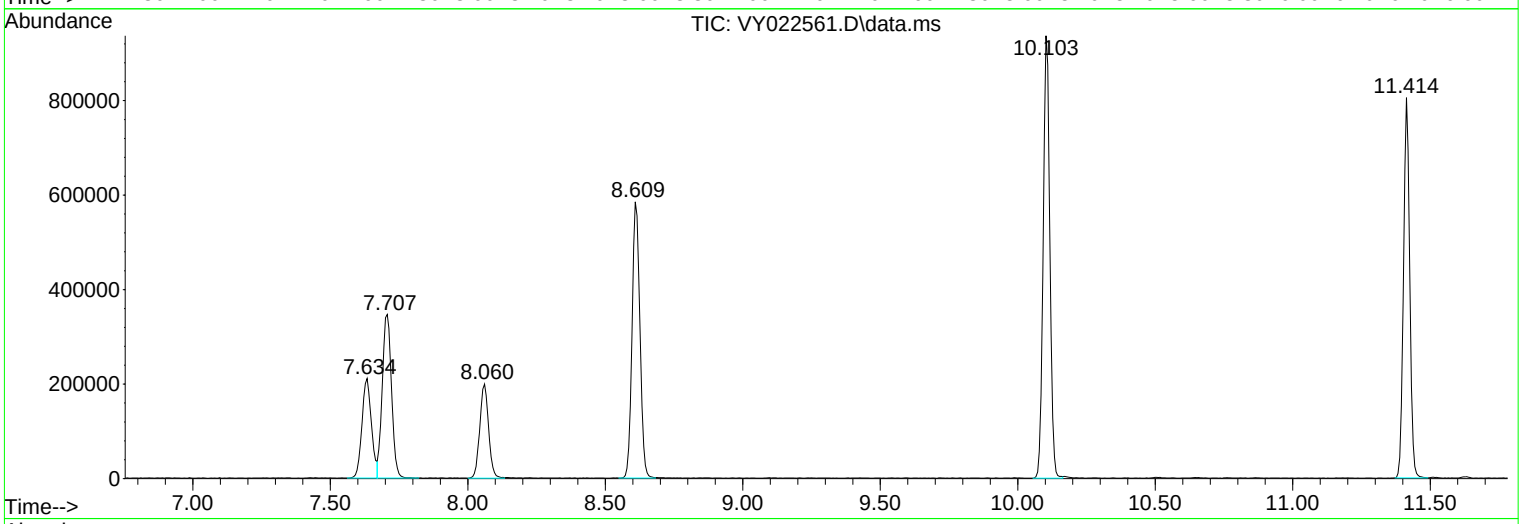
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
Data File : VY022561.D
Acq On : 05 Jun 2025 09:11
Operator : SY/MD
Sample : VY0605SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

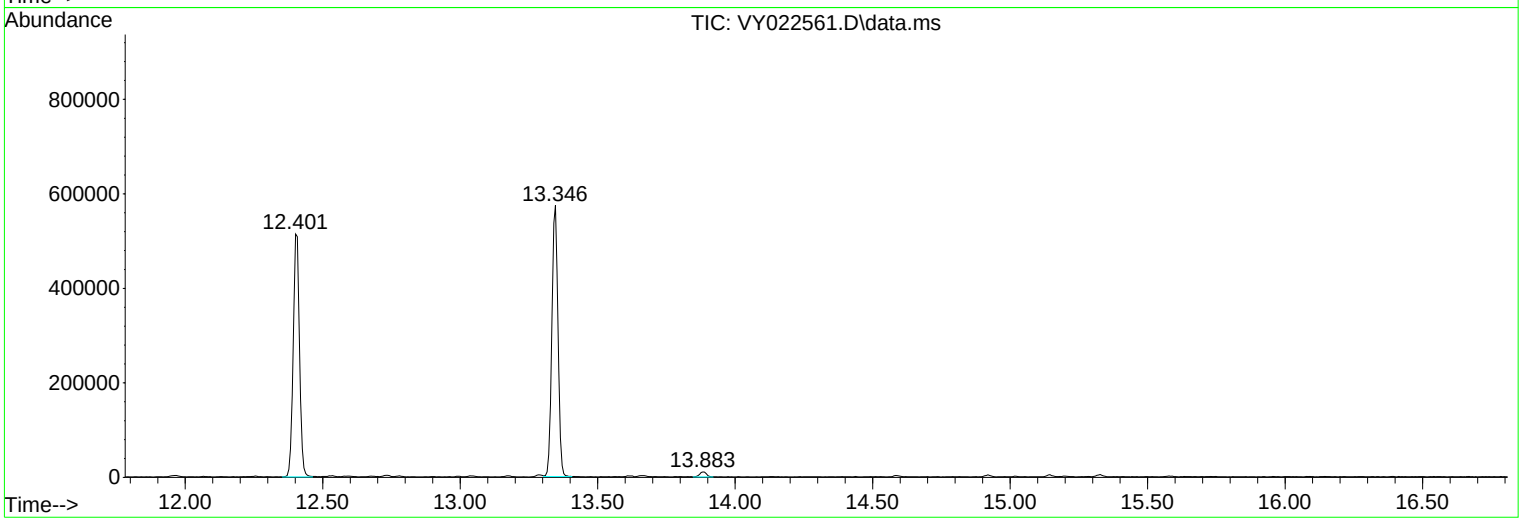
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0605SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
Data File : VY022561.D
Acq On : 05 Jun 2025 09:11
Operator : SY/MD
Sample : VY0605SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0605SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
Data File : VY022561.D
Acq On : 05 Jun 2025 09:11
Operator : SY/MD
Sample : VY0605SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0605SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046436.D
Acq On : 02 Jun 2025 11:37
Operator : JC/MD
Sample : VX0602WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 01:26:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/03/2025
Supervised By :Mahesh Dadoda 06/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 88536 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 152496 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 133074 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 62985 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 81779 | 49.545 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 99.100% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 56635 | 51.574 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 103.140% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 186909 | 49.176 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 98.360% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 72578 | 49.782 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 99.560% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 23506 | 17.346 | ug/l | 98 |
| 3) Chloromethane | 1.307 | 50 | 22102 | 16.819 | ug/l | 97 |
| 4) Vinyl Chloride | 1.374 | 62 | 20532 | 16.788 | ug/l | 100 |
| 5) Bromomethane | 1.599 | 94 | 9622 | 16.962 | ug/l | 95 |
| 6) Chloroethane | 1.672 | 64 | 12240 | 18.747 | ug/l | 100 |
| 7) Trichlorofluoromethane | 1.880 | 101 | 33475 | 18.520 | ug/l | 99 |
| 8) Diethyl Ether | 2.136 | 74 | 11538 | 18.751 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 2.325 | 101 | 20773 | 18.571 | ug/l | 96 |
| 10) Methyl Iodide | 2.447 | 142 | 21976 | 16.603 | ug/l | 98 |
| 11) Tert butyl alcohol | 2.971 | 59 | 24392 | 105.277 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.313 | 96 | 19219 | 18.307 | ug/l | 95 |
| 13) Acrolein | 2.233 | 56 | 18773 | 71.147 | ug/l | 99 |
| 14) Allyl chloride | 2.660 | 41 | 39924 | 19.898 | ug/l | 97 |
| 15) Acrylonitrile | 3.062 | 53 | 69682 | 105.178 | ug/l | 99 |
| 16) Acetone | 2.380 | 43 | 68714 | 103.827 | ug/l | 98 |
| 17) Carbon Disulfide | 2.508 | 76 | 35508 | 14.267 | ug/l | 98 |
| 18) Methyl Acetate | 2.703 | 43 | 40636 | 26.460 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 74489 | 20.238 | ug/l | 100 |
| 20) Methylene Chloride | 2.788 | 84 | 22771 | 17.955 | ug/l | 94 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 18972 | 17.970 | ug/l | 98 |
| 22) Diisopropyl ether | 3.757 | 45 | 80074 | 20.661 | ug/l | 92 |
| 23) Vinyl Acetate | 3.721 | 43 | 329548 | 96.677 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 43497 | 20.150 | ug/l | 97 |
| 25) 2-Butanone | 4.556 | 43 | 102193 | 106.362 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.465 | 77 | 33061 | 19.568 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 24850 | 19.552 | ug/l | 99 |
| 28) Bromochloromethane | 4.897 | 49 | 24218 | 23.308 | ug/l | 97 |
| 29) Tetrahydrofuran | 5.001 | 42 | 61963 | 102.917 | ug/l | 99 |
| 30) Chloroform | 5.086 | 83 | 46046 | 20.465 | ug/l | 98 |
| 31) Cyclohexane | 5.464 | 56 | 34651 | 17.615 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 39441 | 20.222 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.690 | 75 | 28111 | 19.052 | ug/l | 98 |
| 37) Ethyl Acetate | 4.715 | 43 | 34443 | 18.894 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 32524 | 19.619 | ug/l | 99 |
| 39) Methylcyclohexane | 7.373 | 83 | 32861 | 17.300 | ug/l | 95 |
| 40) Benzene | 6.031 | 78 | 85438 | 19.769 | ug/l | 98 |

Sample Results: **VX046436.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046436.D
Acq On : 02 Jun 2025 11:37
Operator : JC/MD
Sample : VX0602WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 01:26:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/03/2025
Supervised By :Mahesh Dadoda 06/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.922 | 41 | 20917 | 21.935 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 6.086 | 62 | 38577 | 20.682 | ug/l | | 99 |
| 43) Isopropyl Acetate | 6.342 | 43 | 58295 | 20.962 | ug/l | | 99 |
| 44) Trichloroethene | 7.123 | 130 | 19980 | 19.209 | ug/l | | 90 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 22983 | 21.387 | ug/l | | 100 |
| 46) Dibromomethane | 7.580 | 93 | 17464 | 20.605 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.818 | 83 | 35845 | 21.473 | ug/l | | 96 |
| 48) Methyl methacrylate | 7.690 | 41 | 29517 | 20.783 | ug/l | | 98 |
| 49) 1,4-Dioxane | 7.659 | 88 | 11669 | 432.714 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 8.568 | 43 | 202459 | 109.676 | ug/l | | 98 |
| 52) Toluene | 8.714 | 92 | 52805 | 19.926 | ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 29318 | 19.759 | ug/l | | 96 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 33195 | 20.241 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 22250 | 21.294 | ug/l | | 94 |
| 56) Ethyl methacrylate | 9.116 | 69 | 34831 | 20.915 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 38891 | 20.724 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 93203 | 109.776 | ug/l | | 99 |
| 59) 2-Hexanone | 9.427 | 43 | 148658 | 108.850 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.519 | 129 | 24578 | 21.418 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 22104 | 20.353 | ug/l | | 99 |
| 64) Tetrachloroethene | 9.269 | 164 | 18215 | 19.346 | ug/l | | 97 |
| 65) Chlorobenzene | 10.073 | 112 | 57059 | 19.590 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 20532 | 20.644 | ug/l | | 98 |
| 67) Ethyl Benzene | 10.189 | 91 | 101823 | 19.832 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 74323 | 39.580 | ug/l | | 97 |
| 69) o-Xylene | 10.640 | 106 | 37109 | 20.271 | ug/l | | 97 |
| 70) Styrene | 10.653 | 104 | 62853 | 20.959 | ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 15441 | 20.679 | ug/l | # | 98 |
| 73) Isopropylbenzene | 10.957 | 105 | 101234 | 20.645 | ug/l | | 100 |
| 74) N-amyl acetate | 10.842 | 43 | 48849 | 20.160 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 35209 | 20.490 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 30830m | 20.335 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 22658 | 19.903 | ug/l | | 97 |
| 78) n-propylbenzene | 11.299 | 91 | 115685 | 20.290 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 72338 | 19.670 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.445 | 105 | 83916 | 20.484 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 9016 | 19.361 | ug/l | | 95 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 83537 | 20.483 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 84788 | 20.548 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 82965 | 19.999 | ug/l | | 98 |
| 85) sec-Butylbenzene | 11.890 | 105 | 104197 | 20.566 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 84743 | 20.263 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 41522 | 19.985 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 41955 | 19.773 | ug/l | | 98 |
| 89) n-Butylbenzene | 12.329 | 91 | 72058 | 19.643 | ug/l | | 100 |
| 90) Hexachloroethane | 12.536 | 117 | 14875 | 20.189 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 42513 | 20.391 | ug/l | | 97 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 8304 | 21.814 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 22410 | 18.714 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 13.719 | 225 | 10496 | 20.069 | ug/l | | 98 |
| 95) Naphthalene | 13.774 | 128 | 86022 | 19.586 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 25111 | 20.323 | ug/l | | 97 |

Sample Results: **VX046436.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046436.D
Acq On : 02 Jun 2025 11:37
Operator : JC/MD
Sample : VX0602WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 01:26:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/03/2025
Supervised By :Mahesh Dadoda 06/03/2025

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

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

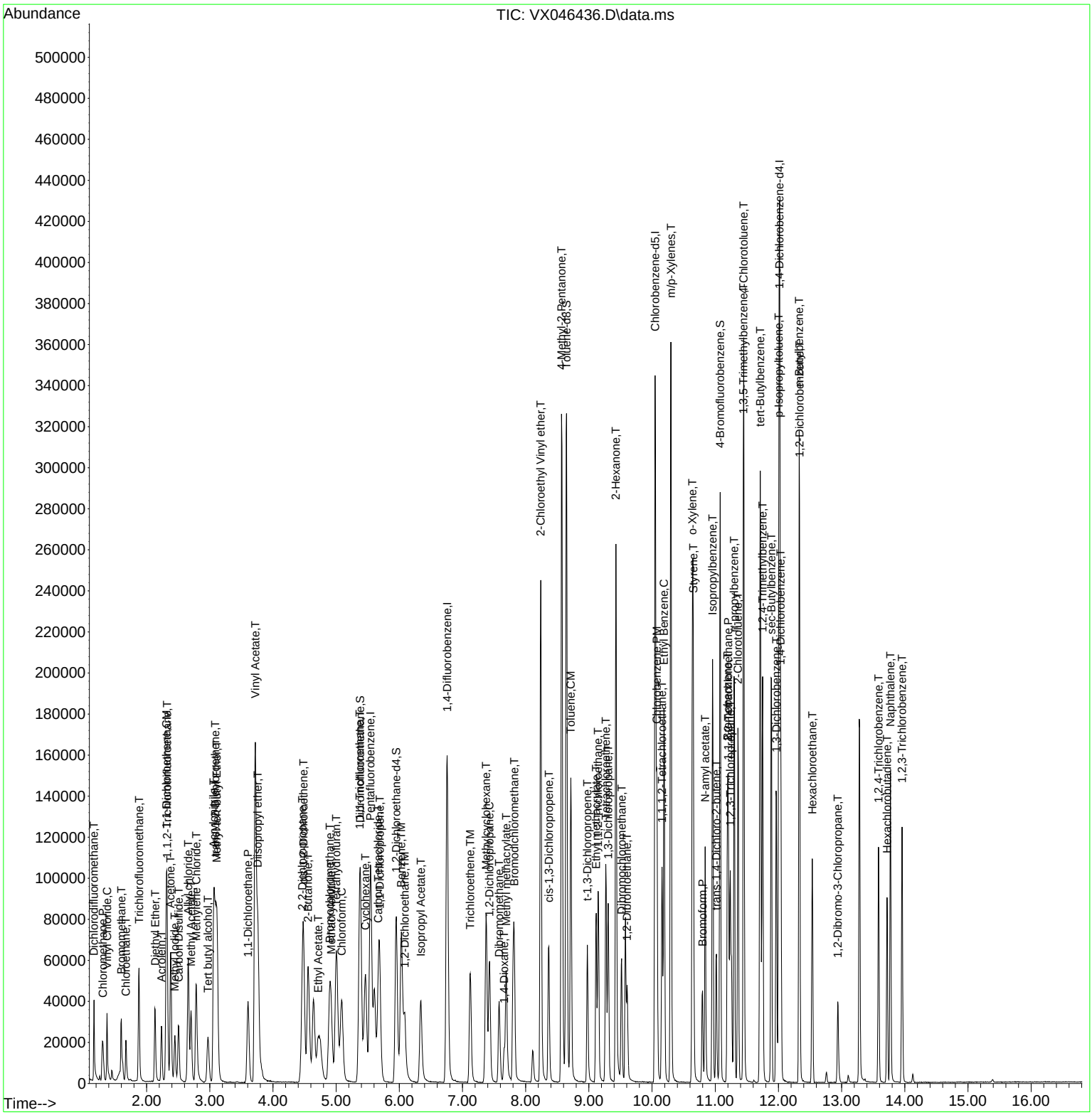
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046436.D
Acq On : 02 Jun 2025 11:37
Operator : JC/MD
Sample : VX0602WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 01:26:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/03/2025
Supervised By :Mahesh Dadoda 06/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022513.D
Acq On : 03 Jun 2025 11:15
Operator : SY/MD
Sample : VY0603SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 04:09:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 06/04/2025
Supervised By :Semsettin Yesilyurt 06/04/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 197612 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 337632 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 284268 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 131961 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 110445 | 49.971 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 99.940% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 102818 | 51.020 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 102.040% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 418973 | 51.452 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 102.900% | | | |
| 62) 4-Bromofluorobenzene | 12.407 | 95 | 118916 | 49.014 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 98.020% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 39051 | 22.073 | ug/l | 95 |
| 3) Chloromethane | 2.074 | 50 | 96334 | 18.431 | ug/l | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 126140 | 20.803 | ug/l | 96 |
| 5) Bromomethane | 2.592 | 94 | 117107 | 20.151 | ug/l | 98 |
| 6) Chloroethane | 2.732 | 64 | 88804 | 21.338 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 114182 | 22.182 | ug/l | 99 |
| 8) Diethyl Ether | 3.458 | 74 | 24346 | 21.002 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 46051 | 21.242 | ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 43818 | 18.677 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.872 | 59 | 15349 | 97.233 | ug/l # | 73 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 43949 | 21.208 | ug/l | 95 |
| 13) Acrolein | 3.653 | 56 | 20560 | 104.508 | ug/l | 97 |
| 14) Allyl chloride | 4.391 | 41 | 67413 | 20.722 | ug/l | 98 |
| 15) Acrylonitrile | 5.067 | 53 | 48448 | 98.683 | ug/l | 98 |
| 16) Acetone | 3.872 | 43 | 64637 | 144.004 | ug/l | 97 |
| 17) Carbon Disulfide | 4.110 | 76 | 138205 | 20.831 | ug/l | 100 |
| 18) Methyl Acetate | 4.391 | 43 | 27356 | 20.581 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 118612 | 20.321 | ug/l | 96 |
| 20) Methylene Chloride | 4.616 | 84 | 47160 | 18.497 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 47664 | 20.551 | ug/l | 98 |
| 22) Diisopropyl ether | 6.018 | 45 | 150165 | 20.737 | ug/l | 95 |
| 23) Vinyl Acetate | 5.963 | 43 | 425369 | 99.247 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 90453 | 21.203 | ug/l | 98 |
| 25) 2-Butanone | 6.902 | 43 | 76024 | 117.421 | ug/l | 90 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 81323 | 21.575 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 55057 | 20.538 | ug/l | 97 |
| 28) Bromochloromethane | 7.244 | 49 | 39559 | 21.273 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.262 | 42 | 40474 | 96.924 | ug/l | 100 |
| 30) Chloroform | 7.427 | 83 | 88966 | 21.055 | ug/l | 94 |
| 31) Cyclohexane | 7.701 | 56 | 85871 | 20.219 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 79604 | 21.222 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 66890 | 20.451 | ug/l | 99 |
| 37) Ethyl Acetate | 6.994 | 43 | 28280 | 19.388 | ug/l | 97 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 67799 | 20.206 | ug/l | 95 |
| 39) Methylcyclohexane | 9.109 | 83 | 87053 | 19.805 | ug/l | 98 |
| 40) Benzene | 8.085 | 78 | 200164 | 20.720 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022513.D
Acq On : 03 Jun 2025 11:15
Operator : SY/MD
Sample : VY0603SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 04:09:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 06/04/2025
Supervised By :Semsettin Yesilyurt 06/04/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 15933 | 18.701 | ug/l | | 96 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 53923 | 20.443 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 60985 | 19.359 | ug/l | # | 87 |
| 44) Trichloroethene | 8.865 | 130 | 50394 | 21.344 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 47626 | 20.860 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 24877 | 19.368 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.426 | 83 | 67673 | 20.778 | ug/l | | 95 |
| 48) Methyl methacrylate | 9.225 | 41 | 27658 | 18.707 | ug/l | | 96 |
| 49) 1,4-Dioxane | 9.237 | 88 | 5752 | 378.003 | ug/l | # | 89 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 150751 | 95.984 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 122301 | 20.145 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 60125 | 19.703 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 73109 | 20.581 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 33009 | 20.154 | ug/l | | 95 |
| 56) Ethyl methacrylate | 10.438 | 69 | 44052 | 18.609 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 57905 | 19.947 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 104791 | 97.502 | ug/l | | 99 |
| 59) 2-Hexanone | 10.761 | 43 | 113080 | 107.655 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 41162 | 19.776 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.017 | 107 | 30056 | 20.134 | ug/l | | 95 |
| 64) Tetrachloroethene | 10.646 | 164 | 51847 | 21.203 | ug/l | | 99 |
| 65) Chlorobenzene | 11.444 | 112 | 127590 | 20.283 | ug/l | | 93 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 42827 | 20.210 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 236274 | 20.251 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 177595 | 40.152 | ug/l | | 99 |
| 69) o-Xylene | 11.956 | 106 | 83043 | 20.025 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 136395 | 19.898 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 21024 | 18.644 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 218088 | 20.130 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 51955 | 19.006 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 33056 | 18.590 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 27133m | 17.973 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 44250 | 19.355 | ug/l | | 95 |
| 78) n-propylbenzene | 12.596 | 91 | 268379 | 20.282 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 140839 | 20.082 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 169137 | 19.885 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 12442 | 19.903 | ug/l | | 92 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 144089 | 19.916 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 155396 | 20.356 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 167992 | 19.747 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 234207 | 20.032 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 188849 | 19.596 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 89632 | 19.350 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 89737 | 19.974 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.615 | 91 | 183570 | 20.077 | ug/l | | 100 |
| 90) Hexachloroethane | 13.883 | 117 | 38158 | 20.338 | ug/l | | 96 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 77708 | 19.759 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 4880 | 18.850 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 40402 | 18.836 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 23265 | 19.652 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 74961 | 18.211 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 35695 | 19.418 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022513.D
Acq On : 03 Jun 2025 11:15
Operator : SY/MD
Sample : VY0603SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 04:09:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 06/04/2025
Supervised By :Semsettin Yesilyurt 06/04/2025

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

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

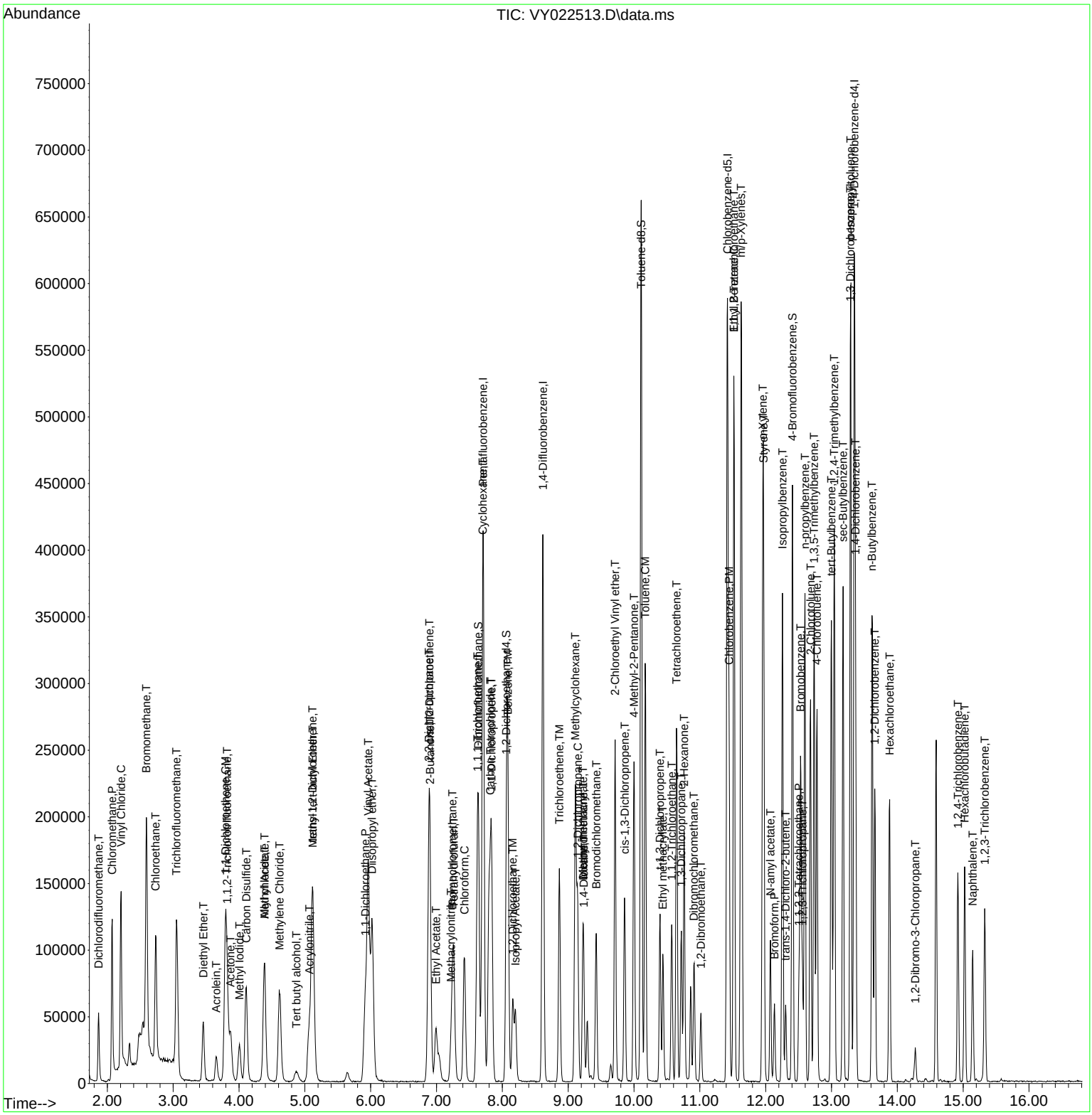
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022513.D
Acq On : 03 Jun 2025 11:15
Operator : SY/MD
Sample : VY0603SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 04:09:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 06/04/2025
Supervised By :Semsettin Yesilyurt 06/04/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022540.D
Acq On : 04 Jun 2025 10:54
Operator : SY/MD
Sample : VY0604SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 04:10:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0604SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 177182 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 307142 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 260223 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 119650 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 106897 | 53.943 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 107.880% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 97744 | 53.317 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 106.640% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 395544 | 53.397 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 106.800% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 114746 | 51.990 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 103.980% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 35026 | 22.080 | ug/l | 90 |
| 3) Chloromethane | 2.068 | 50 | 88146 | 18.809 | ug/l | 100 |
| 4) Vinyl Chloride | 2.202 | 62 | 119787 | 22.034 | ug/l | 96 |
| 5) Bromomethane | 2.592 | 94 | 110721 | 21.249 | ug/l | 98 |
| 6) Chloroethane | 2.733 | 64 | 84104 | 22.539 | ug/l | 92 |
| 7) Trichlorofluoromethane | 3.044 | 101 | 108660 | 23.544 | ug/l | 94 |
| 8) Diethyl Ether | 3.452 | 74 | 22203 | 21.362 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.806 | 101 | 39953 | 20.554 | ug/l | 100 |
| 10) Methyl Iodide | 4.001 | 142 | 37260 | 17.713 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.860 | 59 | 14189 | 100.248 | ug/l # | 91 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 39181 | 21.087 | ug/l | 98 |
| 13) Acrolein | 3.653 | 56 | 18621 | 105.565 | ug/l | 99 |
| 14) Allyl chloride | 4.379 | 41 | 59207 | 20.298 | ug/l | 100 |
| 15) Acrylonitrile | 5.055 | 53 | 44556 | 101.220 | ug/l | 98 |
| 16) Acetone | 3.867 | 43 | 35077 | 87.158 | ug/l | 94 |
| 17) Carbon Disulfide | 4.104 | 76 | 121952 | 20.501 | ug/l | 99 |
| 18) Methyl Acetate | 4.379 | 43 | 23786 | 19.959 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 105462 | 20.152 | ug/l | 100 |
| 20) Methylene Chloride | 4.610 | 84 | 43768 | 19.146 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 42985 | 20.671 | ug/l | 95 |
| 22) Diisopropyl ether | 6.019 | 45 | 135749 | 20.908 | ug/l | 98 |
| 23) Vinyl Acetate | 5.958 | 43 | 382202 | 99.458 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 80929 | 21.158 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 54351 | 93.626 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 68446 | 20.253 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 50930 | 21.189 | ug/l | 100 |
| 28) Bromochloromethane | 7.244 | 49 | 34936 | 20.953 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 36518 | 97.534 | ug/l | 98 |
| 30) Chloroform | 7.415 | 83 | 79864 | 21.080 | ug/l | 95 |
| 31) Cyclohexane | 7.701 | 56 | 74481 | 19.559 | ug/l | 93 |
| 32) 1,1,1-Trichloroethane | 7.610 | 97 | 71144 | 21.154 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 60956 | 20.487 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 26561 | 20.018 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 61082 | 20.012 | ug/l | 95 |
| 39) Methylcyclohexane | 9.110 | 83 | 79839 | 19.967 | ug/l | 96 |
| 40) Benzene | 8.079 | 78 | 182569 | 20.775 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022540.D
Acq On : 04 Jun 2025 10:54
Operator : SY/MD
Sample : VY0604SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 04:10:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0604SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.238 | 41 | 18097m | 23.350 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 48113 | 20.051 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 54608 | 19.056 | ug/l | | 99 |
| 44) Trichloroethene | 8.866 | 130 | 43493 | 20.250 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 43797 | 21.087 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 23454 | 20.073 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.420 | 83 | 61994 | 20.924 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.219 | 41 | 25682 | 19.095 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.231 | 88 | 5502 | 397.467 | ug/l | # | 94 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 133612 | 93.517 | ug/l | | 98 |
| 52) Toluene | 10.170 | 92 | 111969 | 20.274 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 54358 | 19.581 | ug/l | | 96 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 65573 | 20.292 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 28750 | 19.296 | ug/l | | 91 |
| 56) Ethyl methacrylate | 10.439 | 69 | 41087 | 19.080 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 52232 | 19.779 | ug/l | | 95 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 96419 | 98.618 | ug/l | | 100 |
| 59) 2-Hexanone | 10.762 | 43 | 87540 | 91.614 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 37312 | 19.706 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 27846 | 20.505 | ug/l | | 96 |
| 64) Tetrachloroethene | 10.646 | 164 | 46715 | 20.869 | ug/l | | 97 |
| 65) Chlorobenzene | 11.438 | 112 | 117493 | 20.404 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 38244 | 19.715 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.518 | 91 | 210828 | 19.739 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 157542 | 38.910 | ug/l | | 99 |
| 69) o-Xylene | 11.950 | 106 | 75325 | 19.843 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 122002 | 19.443 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 19189 | 18.589 | ug/l | # | 96 |
| 73) Isopropylbenzene | 12.255 | 105 | 194422 | 19.792 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 46408 | 18.723 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 30021 | 18.621 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 27817m | 20.322 | ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 41454 | 19.998 | ug/l | | 98 |
| 78) n-propylbenzene | 12.591 | 91 | 237604 | 19.804 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 128467 | 20.202 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 154233 | 19.999 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 10650 | 18.789 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 129597 | 19.756 | ug/l | | 98 |
| 83) tert-Butylbenzene | 12.999 | 119 | 138927 | 20.071 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 154558 | 20.038 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 210444 | 19.851 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 169354 | 19.381 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 83524 | 19.887 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 81311 | 19.960 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 167479 | 20.202 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 33527 | 19.708 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 71253 | 19.982 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 4574 | 19.486 | ug/l | | 94 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 41052 | 21.108 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 23044 | 21.468 | ug/l | | 97 |
| 95) Naphthalene | 15.145 | 128 | 73656 | 19.736 | ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 34247 | 20.547 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022540.D
Acq On : 04 Jun 2025 10:54
Operator : SY/MD
Sample : VY0604SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 04:10:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0604SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025

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

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

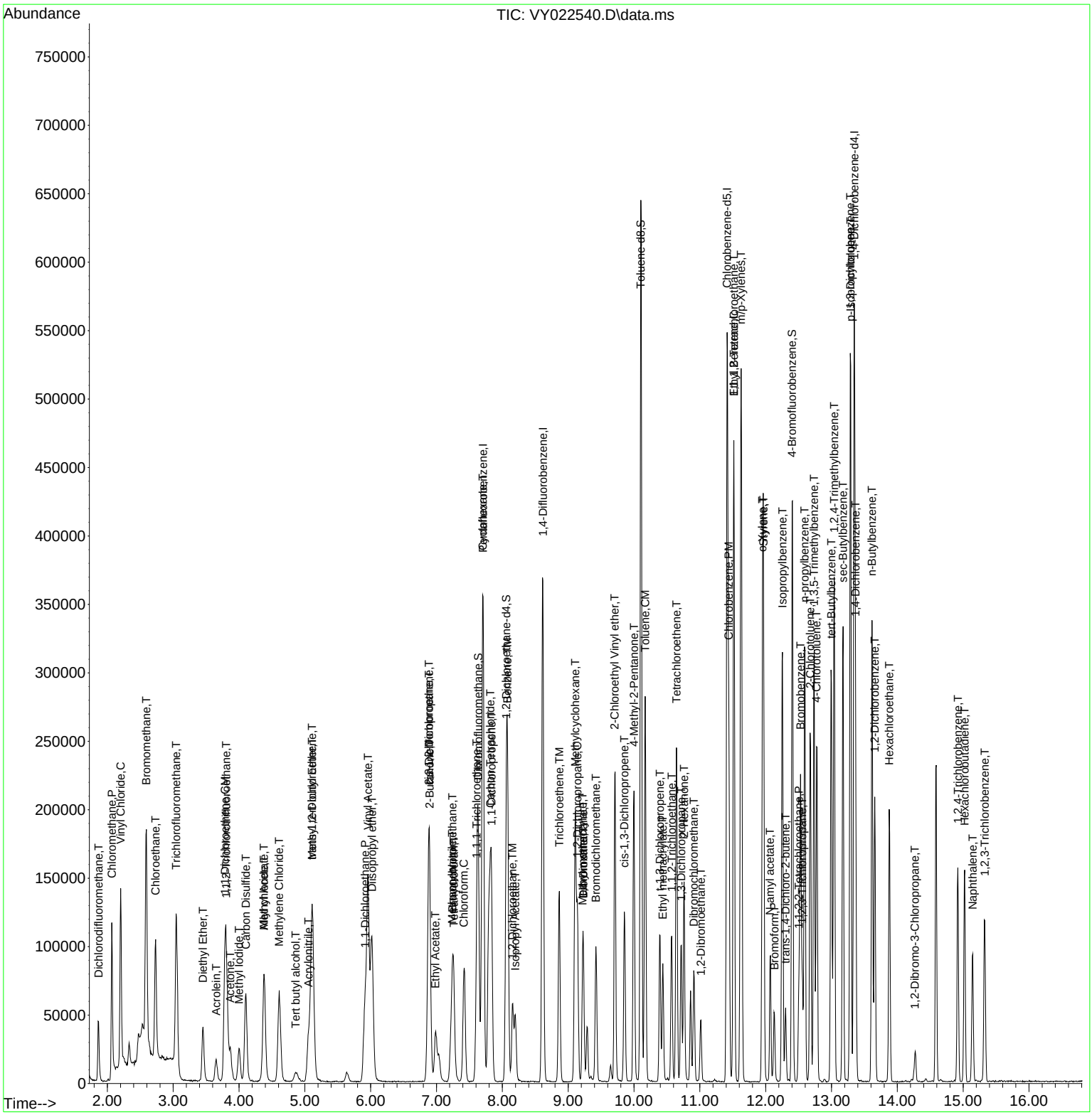
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022540.D
Acq On : 04 Jun 2025 10:54
Operator : SY/MD
Sample : VY0604SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 04:10:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0604SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
Data File : VY022562.D
Acq On : 05 Jun 2025 09:41
Operator : SY/MD
Sample : VY0605SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 01:19:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0605SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 06/06/2025
Supervised By :Semsettin Yesilyurt 06/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 185960 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 319893 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 265176 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 121174 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 103268 | 49.651 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 99.300% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 96100 | 50.331 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.660% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 389337 | 50.464 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 100.920% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 110996 | 48.286 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 96.580% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 35934 | 21.583 | ug/l | 98 |
| 3) Chloromethane | 2.068 | 50 | 97474 | 19.818 | ug/l | 98 |
| 4) Vinyl Chloride | 2.202 | 62 | 137361 | 24.074 | ug/l | 100 |
| 5) Bromomethane | 2.586 | 94 | 125584 | 22.963 | ug/l | 97 |
| 6) Chloroethane | 2.732 | 64 | 94921 | 24.237 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.043 | 101 | 124470 | 25.696 | ug/l | 95 |
| 8) Diethyl Ether | 3.452 | 74 | 22768 | 20.872 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 42895 | 21.026 | ug/l | 99 |
| 10) Methyl Iodide | 4.001 | 142 | 38996 | 17.663 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 15000 | 100.976 | ug/l # | 92 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 41284 | 21.170 | ug/l | 96 |
| 13) Acrolein | 3.653 | 56 | 17449 | 94.252 | ug/l | 98 |
| 14) Allyl chloride | 4.372 | 41 | 62719 | 20.487 | ug/l | 98 |
| 15) Acrylonitrile | 5.055 | 53 | 45665 | 98.843 | ug/l | 98 |
| 16) Acetone | 3.873 | 43 | 39774 | 94.164 | ug/l | 98 |
| 17) Carbon Disulfide | 4.104 | 76 | 129036 | 20.668 | ug/l | 99 |
| 18) Methyl Acetate | 4.391 | 43 | 23837 | 19.057 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 112178 | 20.423 | ug/l | 94 |
| 20) Methylene Chloride | 4.610 | 84 | 51654 | 21.529 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 46025 | 21.088 | ug/l | 94 |
| 22) Diisopropyl ether | 6.018 | 45 | 142095 | 20.852 | ug/l | 97 |
| 23) Vinyl Acetate | 5.957 | 43 | 408238 | 101.218 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 85887 | 21.395 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 61458 | 100.871 | ug/l | 94 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 74884 | 21.112 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 53578 | 21.239 | ug/l | 99 |
| 28) Bromochloromethane | 7.238 | 49 | 34931 | 19.961 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 38399 | 97.717 | ug/l | 98 |
| 30) Chloroform | 7.421 | 83 | 84488 | 21.248 | ug/l | 96 |
| 31) Cyclohexane | 7.701 | 56 | 79881 | 19.987 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 74288 | 21.046 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 63932 | 20.630 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 28467 | 20.599 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 65817 | 20.703 | ug/l | 97 |
| 39) Methylcyclohexane | 9.109 | 83 | 83418 | 20.031 | ug/l | 97 |
| 40) Benzene | 8.079 | 78 | 191373 | 20.908 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
Data File : VY022562.D
Acq On : 05 Jun 2025 09:41
Operator : SY/MD
Sample : VY0605SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 01:19:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0605SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 06/06/2025
Supervised By :Semsettin Yesilyurt 06/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 13605 | 16.854 | ug/l | | 87 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 52311 | 20.932 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 59989 | 20.099 | ug/l | | 100 |
| 44) Trichloroethene | 8.866 | 130 | 46117 | 20.615 | ug/l | | 94 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 45262 | 20.924 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 24460 | 20.099 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 64131 | 20.783 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.219 | 41 | 26124 | 18.649 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.231 | 88 | 5680 | 393.970 | ug/l | | 88 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 144633 | 97.196 | ug/l | | 98 |
| 52) Toluene | 10.170 | 92 | 118135 | 20.538 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 56828 | 19.655 | ug/l | | 96 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 68811 | 20.445 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 30617 | 19.730 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.438 | 69 | 42048 | 18.748 | ug/l | | 96 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 54317 | 19.749 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 99909 | 98.114 | ug/l | | 99 |
| 59) 2-Hexanone | 10.755 | 43 | 95337 | 95.797 | ug/l | | 98 |
| 60) Dibromochloromethane | 10.908 | 129 | 39626 | 20.094 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 28445 | 20.112 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.646 | 164 | 46452 | 20.364 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 122017 | 20.794 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 39130 | 19.795 | ug/l | | 96 |
| 67) Ethyl Benzene | 11.517 | 91 | 220134 | 20.226 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.627 | 106 | 164620 | 39.899 | ug/l | | 100 |
| 69) o-Xylene | 11.950 | 106 | 77686 | 20.082 | ug/l | | 100 |
| 70) Styrene | 11.969 | 104 | 126313 | 19.754 | ug/l | | 98 |
| 71) Bromoform | 12.127 | 173 | 20908 | 19.876 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.249 | 105 | 207625 | 20.870 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 48535 | 19.335 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 33569 | 20.559 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 28455m | 20.526 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 41906 | 19.961 | ug/l | | 99 |
| 78) n-propylbenzene | 12.590 | 91 | 249452 | 20.530 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 131777 | 20.462 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 158482 | 20.291 | ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 10424 | 18.159 | ug/l | | 95 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 133141 | 20.041 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 146274 | 20.867 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 158008 | 20.227 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 220482 | 20.537 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 175127 | 19.790 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 86453 | 20.325 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 83523 | 20.246 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 170632 | 20.323 | ug/l | | 100 |
| 90) Hexachloroethane | 13.877 | 117 | 36555 | 21.218 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 70965 | 19.651 | ug/l | | 97 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 4326 | 18.198 | ug/l | | 92 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 38134 | 19.361 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 21255 | 19.552 | ug/l | | 100 |
| 95) Naphthalene | 15.139 | 128 | 69356 | 18.350 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 32110 | 19.023 | ug/l | | 98 |

Sample Results: **VY022562.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
Data File : VY022562.D
Acq On : 05 Jun 2025 09:41
Operator : SY/MD
Sample : VY0605SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 01:19:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0605SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 06/06/2025
Supervised By :Semsettin Yesilyurt 06/06/2025

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

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

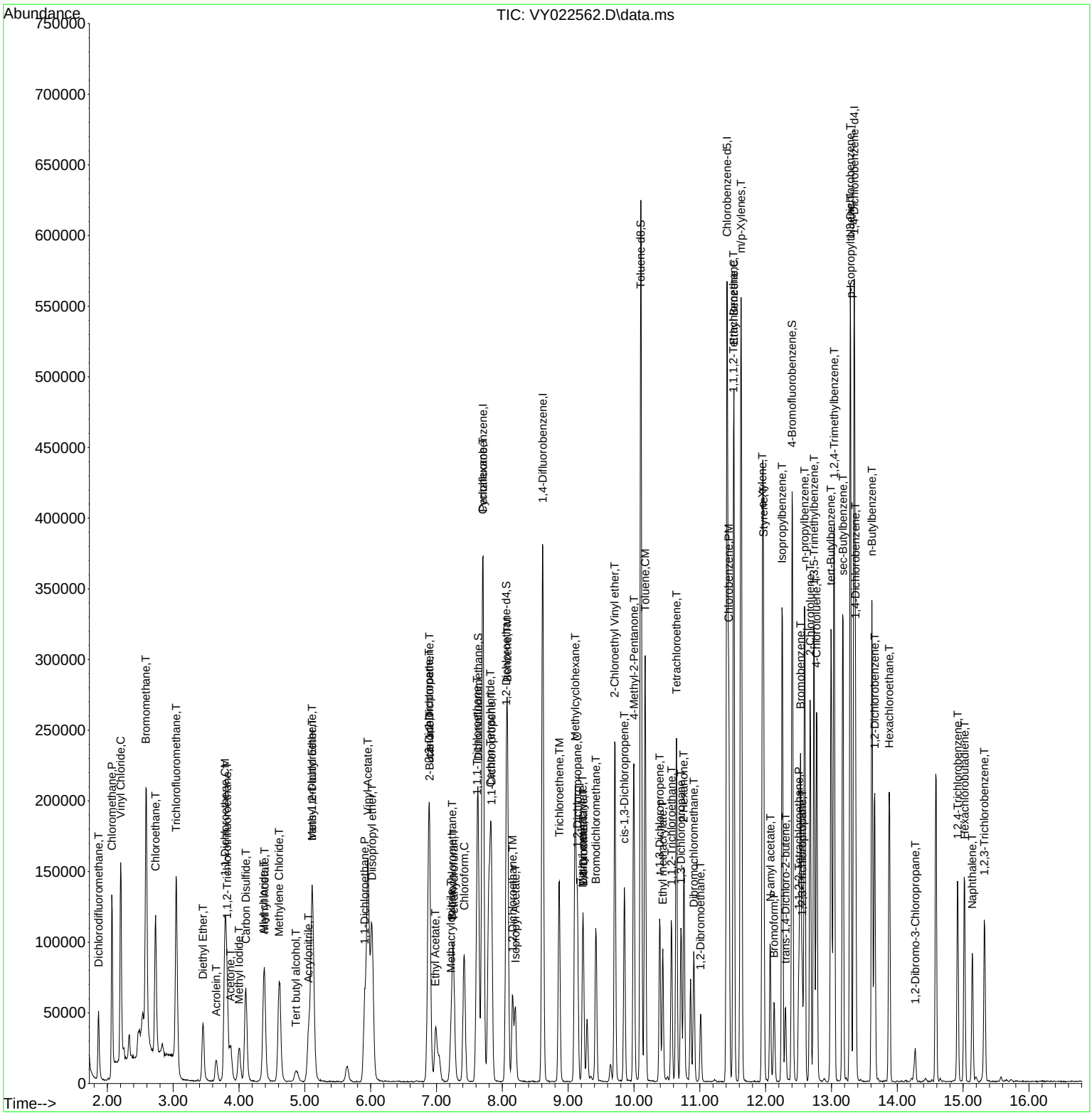
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
Data File : VY022562.D
Acq On : 05 Jun 2025 09:41
Operator : SY/MD
Sample : VY0605SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 01:19:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0605SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 06/06/2025
Supervised By :Semsettin Yesilyurt 06/06/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046437.D
Acq On : 02 Jun 2025 12:04
Operator : JC/MD
Sample : VX0602WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 01:27:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/03/2025
Supervised By :Mahesh Dadoda 06/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 82810 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 146139 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 127160 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 61222 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 77318 | 50.081 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 100.160% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 53402 | 50.745 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 101.500% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 175829 | 48.274 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 96.540% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 69734 | 49.912 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 99.820% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 21746 | 17.157 | ug/l | 96 |
| 3) Chloromethane | 1.300 | 50 | 20739 | 16.873 | ug/l | 98 |
| 4) Vinyl Chloride | 1.374 | 62 | 19031 | 16.636 | ug/l | 98 |
| 5) Bromomethane | 1.593 | 94 | 9131 | 17.210 | ug/l | 96 |
| 6) Chloroethane | 1.672 | 64 | 11190 | 18.324 | ug/l | 94 |
| 7) Trichlorofluoromethane | 1.880 | 101 | 30644 | 18.126 | ug/l | 98 |
| 8) Diethyl Ether | 2.130 | 74 | 11118 | 19.318 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 20067 | 19.180 | ug/l | 98 |
| 10) Methyl Iodide | 2.447 | 142 | 21463 | 17.337 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.977 | 59 | 24436 | 112.760 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.312 | 96 | 17640 | 17.965 | ug/l | 98 |
| 13) Acrolein | 2.233 | 56 | 15917 | 64.494 | ug/l | 98 |
| 14) Allyl chloride | 2.654 | 41 | 37372 | 19.914 | ug/l | 95 |
| 15) Acrylonitrile | 3.062 | 53 | 67541 | 108.996 | ug/l | 98 |
| 16) Acetone | 2.380 | 43 | 64858 | 104.777 | ug/l | 98 |
| 17) Carbon Disulfide | 2.501 | 76 | 32688 | 14.042 | ug/l | 100 |
| 18) Methyl Acetate | 2.703 | 43 | 39060 | 27.193 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 71829 | 20.865 | ug/l | 98 |
| 20) Methylene Chloride | 2.782 | 84 | 22268 | 18.772 | ug/l | 92 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 18157 | 18.387 | ug/l | 98 |
| 22) Diisopropyl ether | 3.757 | 45 | 77571 | 21.399 | ug/l | 99 |
| 23) Vinyl Acetate | 3.715 | 43 | 315651 | 99.003 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 40837 | 20.226 | ug/l | 98 |
| 25) 2-Butanone | 4.556 | 43 | 98209 | 109.283 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.458 | 77 | 31191 | 19.737 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 23607 | 19.859 | ug/l | 99 |
| 28) Bromochloromethane | 4.891 | 49 | 22980 | 23.645 | ug/l | 97 |
| 29) Tetrahydrofuran | 5.007 | 42 | 60045 | 106.628 | ug/l | 99 |
| 30) Chloroform | 5.086 | 83 | 43797 | 20.812 | ug/l | 97 |
| 31) Cyclohexane | 5.458 | 56 | 32380 | 17.599 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 35925 | 19.693 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 26070 | 18.438 | ug/l | 99 |
| 37) Ethyl Acetate | 4.708 | 43 | 35515 | 20.330 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.665 | 117 | 30583 | 19.250 | ug/l | 99 |
| 39) Methylcyclohexane | 7.373 | 83 | 31246 | 17.165 | ug/l | 95 |
| 40) Benzene | 6.031 | 78 | 81525 | 19.685 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046437.D
Acq On : 02 Jun 2025 12:04
Operator : JC/MD
Sample : VX0602WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 01:27:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/03/2025
Supervised By :Mahesh Dadoda 06/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.922 | 41 | 20414 | 22.339 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 6.086 | 62 | 37186 | 20.804 | ug/l | | 99 |
| 43) Isopropyl Acetate | 6.336 | 43 | 57875 | 21.716 | ug/l | | 98 |
| 44) Trichloroethene | 7.123 | 130 | 19271 | 19.333 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 21507 | 20.884 | ug/l | | 95 |
| 46) Dibromomethane | 7.580 | 93 | 16653 | 20.503 | ug/l | | 98 |
| 47) Bromodichloromethane | 7.818 | 83 | 33339 | 20.840 | ug/l | | 98 |
| 48) Methyl methacrylate | 7.690 | 41 | 29111 | 21.388 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.659 | 88 | 11361 | 439.619 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 8.567 | 43 | 197330 | 111.548 | ug/l | | 99 |
| 52) Toluene | 8.714 | 92 | 50495 | 19.884 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 28257 | 19.872 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 31769 | 20.214 | ug/l | | 94 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 21613 | 21.584 | ug/l | | 98 |
| 56) Ethyl methacrylate | 9.116 | 69 | 33611 | 21.060 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 37495 | 20.850 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 91268 | 112.173 | ug/l | | 99 |
| 59) 2-Hexanone | 9.427 | 43 | 148362 | 113.359 | ug/l | | 98 |
| 60) Dibromochloromethane | 9.518 | 129 | 23696 | 21.547 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 9.610 | 107 | 21686 | 20.837 | ug/l | | 95 |
| 64) Tetrachloroethene | 9.269 | 164 | 16548 | 18.393 | ug/l | | 95 |
| 65) Chlorobenzene | 10.073 | 112 | 54830 | 19.700 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 19447 | 20.462 | ug/l | | 94 |
| 67) Ethyl Benzene | 10.189 | 91 | 97860 | 19.947 | ug/l | | 97 |
| 68) m/p-Xylenes | 10.299 | 106 | 72052 | 40.155 | ug/l | | 99 |
| 69) o-Xylene | 10.640 | 106 | 36064 | 20.616 | ug/l | | 99 |
| 70) Styrene | 10.652 | 104 | 59838 | 20.881 | ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 14851 | 20.813 | ug/l | # | 100 |
| 73) Isopropylbenzene | 10.957 | 105 | 96376 | 20.220 | ug/l | | 100 |
| 74) N-amyl acetate | 10.841 | 43 | 48582 | 20.627 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 35883 | 21.483 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 30157m | 20.464 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 21867 | 19.761 | ug/l | | 98 |
| 78) n-propylbenzene | 11.299 | 91 | 110640 | 19.964 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 70031 | 19.591 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 81777 | 20.537 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 8400 | 18.558 | ug/l | | 91 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 79959 | 20.171 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 82089 | 20.466 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 81564 | 20.227 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 100143 | 20.335 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 83098 | 20.442 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 40612 | 20.110 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 41136 | 19.945 | ug/l | | 98 |
| 89) n-Butylbenzene | 12.329 | 91 | 71109 | 19.942 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 13973 | 19.511 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 42614 | 21.028 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 7991 | 21.596 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 22846 | 19.628 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 10419 | 20.495 | ug/l | | 98 |
| 95) Naphthalene | 13.774 | 128 | 83641 | 19.592 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 24644 | 20.519 | ug/l | | 99 |

Sample Results: **VX046437.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046437.D
Acq On : 02 Jun 2025 12:04
Operator : JC/MD
Sample : VX0602WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 01:27:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/03/2025
Supervised By :Mahesh Dadoda 06/03/2025

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

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

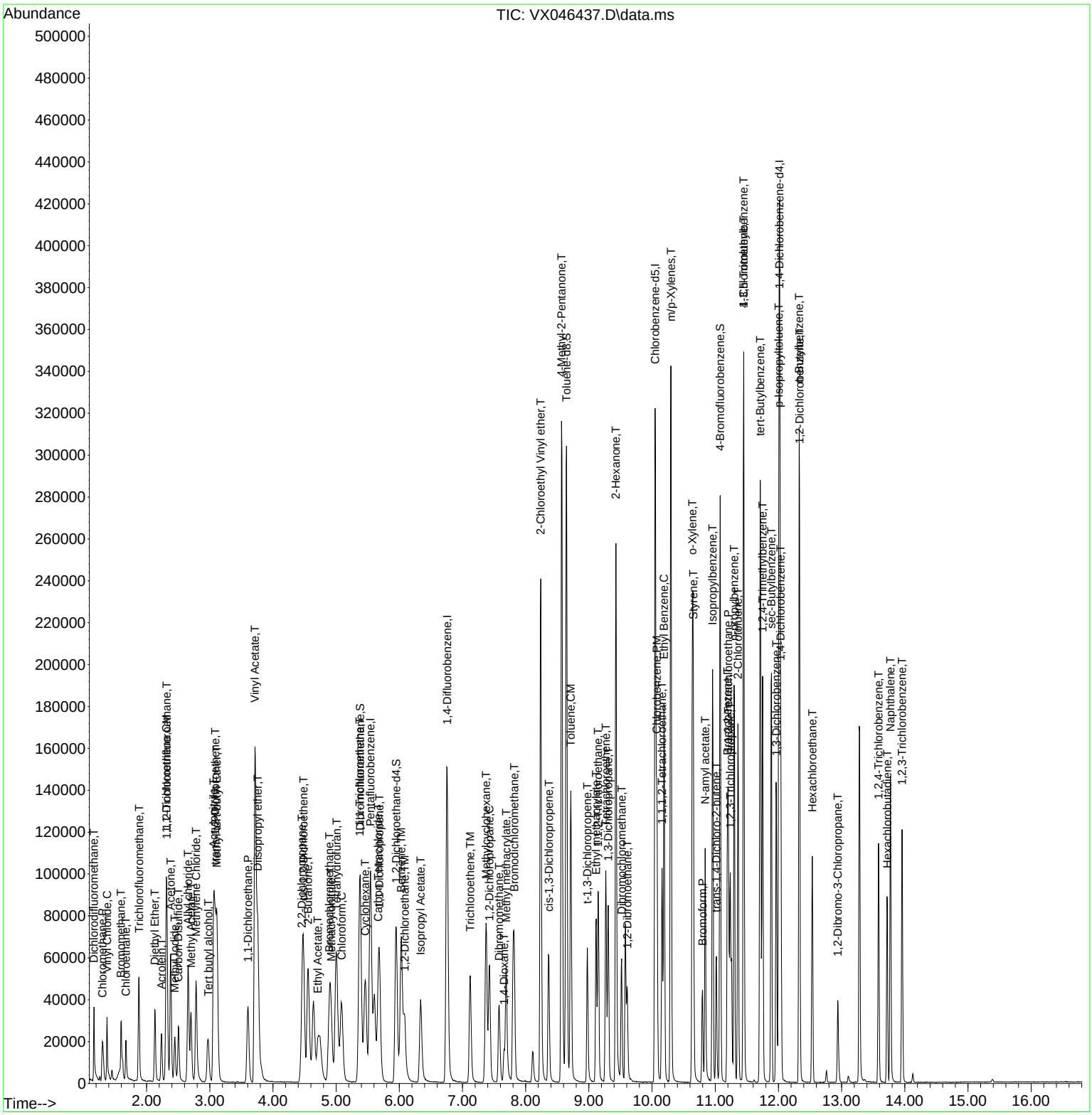
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
Data File : VX046437.D
Acq On : 02 Jun 2025 12:04
Operator : JC/MD
Sample : VX0602WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 01:27:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0602WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/03/2025
Supervised By :Mahesh Dadoda 06/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022514.D
Acq On : 03 Jun 2025 11:38
Operator : SY/MD
Sample : VY0603SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 04:10:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 06/04/2025
Supervised By :Semsettin Yesilyurt 06/04/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 196295 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 333757 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 277257 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 127082 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 111211 | 50.655 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 101.320% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 102540 | 51.473 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 102.940% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 423577 | 52.622 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 105.240% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 120123 | 50.086 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 100.180% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 39450 | 22.448 | ug/l | 92 |
| 3) Chloromethane | 2.068 | 50 | 115283 | 22.204 | ug/l | 98 |
| 4) Vinyl Chloride | 2.202 | 62 | 133679 | 22.195 | ug/l | 98 |
| 5) Bromomethane | 2.592 | 94 | 122385 | 21.200 | ug/l | 99 |
| 6) Chloroethane | 2.732 | 64 | 89448 | 21.637 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 108350 | 21.191 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 24283 | 21.088 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 43506 | 20.203 | ug/l | 97 |
| 10) Methyl Iodide | 4.007 | 142 | 46266 | 19.853 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.872 | 59 | 16220 | 103.440 | ug/l # | 73 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 44732 | 21.731 | ug/l | 97 |
| 13) Acrolein | 3.659 | 56 | 20248 | 103.612 | ug/l | 95 |
| 14) Allyl chloride | 4.385 | 41 | 66730 | 20.650 | ug/l | 98 |
| 15) Acrylonitrile | 5.055 | 53 | 47639 | 97.686 | ug/l | 96 |
| 16) Acetone | 3.879 | 43 | 51428 | 115.345 | ug/l | 98 |
| 17) Carbon Disulfide | 4.104 | 76 | 140692 | 21.348 | ug/l | 99 |
| 18) Methyl Acetate | 4.391 | 43 | 25743 | 19.498 | ug/l | 96 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 118588 | 20.454 | ug/l | 97 |
| 20) Methylene Chloride | 4.616 | 84 | 48900 | 19.308 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 48144 | 20.897 | ug/l | 98 |
| 22) Diisopropyl ether | 6.018 | 45 | 152316 | 21.175 | ug/l | 99 |
| 23) Vinyl Acetate | 5.964 | 43 | 430636 | 101.150 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 89303 | 21.074 | ug/l | 98 |
| 25) 2-Butanone | 6.896 | 43 | 69185 | 107.575 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 80364 | 21.464 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 57093 | 21.440 | ug/l | 99 |
| 28) Bromochloromethane | 7.250 | 49 | 38497 | 20.841 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 39069 | 94.187 | ug/l | 97 |
| 30) Chloroform | 7.421 | 83 | 90558 | 21.576 | ug/l | 98 |
| 31) Cyclohexane | 7.707 | 56 | 83149 | 19.710 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 78839 | 21.159 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 67396 | 20.845 | ug/l | 100 |
| 37) Ethyl Acetate | 6.988 | 43 | 29632 | 20.551 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 69195 | 20.862 | ug/l | 97 |
| 39) Methylcyclohexane | 9.109 | 83 | 88301 | 20.323 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 200930 | 21.041 | ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022514.D
Acq On : 03 Jun 2025 11:38
Operator : SY/MD
Sample : VY0603SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 04:10:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 06/04/2025
Supervised By :Semsettin Yesilyurt 06/04/2025

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 41) | Methacrylonitrile | 7.219 | 41 | 15352m | 18.228 | ug/l | | |
| 42) | 1,2-Dichloroethane | 8.164 | 62 | 54776 | 21.007 | ug/l | | 98 |
| 43) | Isopropyl Acetate | 8.201 | 43 | 61432 | 19.728 | ug/l | | 98 |
| 44) | Trichloroethene | 8.866 | 130 | 50293 | 21.548 | ug/l | | 90 |
| 45) | 1,2-Dichloropropane | 9.140 | 63 | 46638 | 20.665 | ug/l | | 99 |
| 46) | Dibromomethane | 9.231 | 93 | 25459 | 20.051 | ug/l | | 98 |
| 47) | Bromodichloromethane | 9.420 | 83 | 67575 | 20.989 | ug/l | | 100 |
| 48) | Methyl methacrylate | 9.225 | 41 | 28959 | 19.815 | ug/l | | 98 |
| 49) | 1,4-Dioxane | 9.237 | 88 | 5727 | 380.729 | ug/l | | 95 |
| 51) | 4-Methyl-2-Pentanone | 9.999 | 43 | 150410 | 96.879 | ug/l | | 100 |
| 52) | Toluene | 10.170 | 92 | 123263 | 20.539 | ug/l | | 96 |
| 53) | t-1,3-Dichloropropene | 10.396 | 75 | 60064 | 19.911 | ug/l | | 94 |
| 54) | cis-1,3-Dichloropropene | 9.859 | 75 | 71904 | 20.477 | ug/l | | 99 |
| 55) | 1,1,2-Trichloroethane | 10.573 | 97 | 33397 | 20.628 | ug/l | | 92 |
| 56) | Ethyl methacrylate | 10.438 | 69 | 45653 | 19.510 | ug/l | | 98 |
| 57) | 1,3-Dichloropropane | 10.719 | 76 | 58164 | 20.269 | ug/l | | 100 |
| 58) | 2-Chloroethyl Vinyl ether | 9.713 | 63 | 110692 | 104.188 | ug/l | | 99 |
| 59) | 2-Hexanone | 10.762 | 43 | 102187 | 98.414 | ug/l | | 99 |
| 60) | Dibromochloromethane | 10.908 | 129 | 41567 | 20.203 | ug/l | | 100 |
| 61) | 1,2-Dibromoethane | 11.018 | 107 | 29473 | 19.973 | ug/l | | 98 |
| 64) | Tetrachloroethene | 10.646 | 164 | 50817 | 21.307 | ug/l | | 96 |
| 65) | Chlorobenzene | 11.438 | 112 | 129702 | 21.140 | ug/l | | 97 |
| 66) | 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 43105 | 20.856 | ug/l | | 99 |
| 67) | Ethyl Benzene | 11.517 | 91 | 236352 | 20.770 | ug/l | | 99 |
| 68) | m/p-Xylenes | 11.627 | 106 | 178031 | 41.269 | ug/l | | 99 |
| 69) | o-Xylene | 11.956 | 106 | 83649 | 20.682 | ug/l | | 100 |
| 70) | Styrene | 11.969 | 104 | 137611 | 20.583 | ug/l | | 99 |
| 71) | Bromoform | 12.133 | 173 | 21869 | 19.883 | ug/l | # | 99 |
| 73) | Isopropylbenzene | 12.255 | 105 | 220201 | 21.105 | ug/l | | 100 |
| 74) | N-amyl acetate | 12.072 | 43 | 52673 | 20.008 | ug/l | | 99 |
| 75) | 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 34208 | 19.977 | ug/l | | 99 |
| 76) | 1,2,3-Trichloropropane | 12.554 | 75 | 26292m | 18.084 | ug/l | | |
| 77) | Bromobenzene | 12.529 | 156 | 46055 | 20.918 | ug/l | | 100 |
| 78) | n-propylbenzene | 12.597 | 91 | 269951 | 21.184 | ug/l | | 99 |
| 79) | 2-Chlorotoluene | 12.682 | 91 | 142085 | 21.037 | ug/l | | 99 |
| 80) | 1,3,5-Trimethylbenzene | 12.737 | 105 | 170919 | 20.866 | ug/l | | 98 |
| 81) | trans-1,4-Dichloro-2-b... | 12.304 | 75 | 11460 | 19.036 | ug/l | | 95 |
| 82) | 4-Chlorotoluene | 12.779 | 91 | 141886 | 20.364 | ug/l | | 96 |
| 83) | tert-Butylbenzene | 12.999 | 119 | 156660 | 21.309 | ug/l | | 99 |
| 84) | 1,2,4-Trimethylbenzene | 13.042 | 105 | 170782 | 20.846 | ug/l | | 99 |
| 85) | sec-Butylbenzene | 13.176 | 105 | 235402 | 20.907 | ug/l | | 99 |
| 86) | p-Isopropyltoluene | 13.292 | 119 | 190486 | 20.525 | ug/l | | 99 |
| 87) | 1,3-Dichlorobenzene | 13.285 | 146 | 91645 | 20.544 | ug/l | | 98 |
| 88) | 1,4-Dichlorobenzene | 13.365 | 146 | 89601 | 20.709 | ug/l | | 99 |
| 89) | n-Butylbenzene | 13.615 | 91 | 189125 | 21.478 | ug/l | | 99 |
| 90) | Hexachloroethane | 13.877 | 117 | 38174 | 21.128 | ug/l | | 100 |
| 91) | 1,2-Dichlorobenzene | 13.657 | 146 | 79301 | 20.938 | ug/l | | 99 |
| 92) | 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 4844 | 19.429 | ug/l | | 95 |
| 93) | 1,2,4-Trichlorobenzene | 14.919 | 180 | 43264 | 20.945 | ug/l | | 99 |
| 94) | Hexachlorobutadiene | 15.023 | 225 | 23654 | 20.747 | ug/l | | 99 |
| 95) | Naphthalene | 15.145 | 128 | 76972 | 19.418 | ug/l | | 99 |
| 96) | 1,2,3-Trichlorobenzene | 15.328 | 180 | 35926 | 20.294 | ug/l | | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022514.D
Acq On : 03 Jun 2025 11:38
Operator : SY/MD
Sample : VY0603SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 04:10:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 06/04/2025
Supervised By :Semsettin Yesilyurt 06/04/2025

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

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

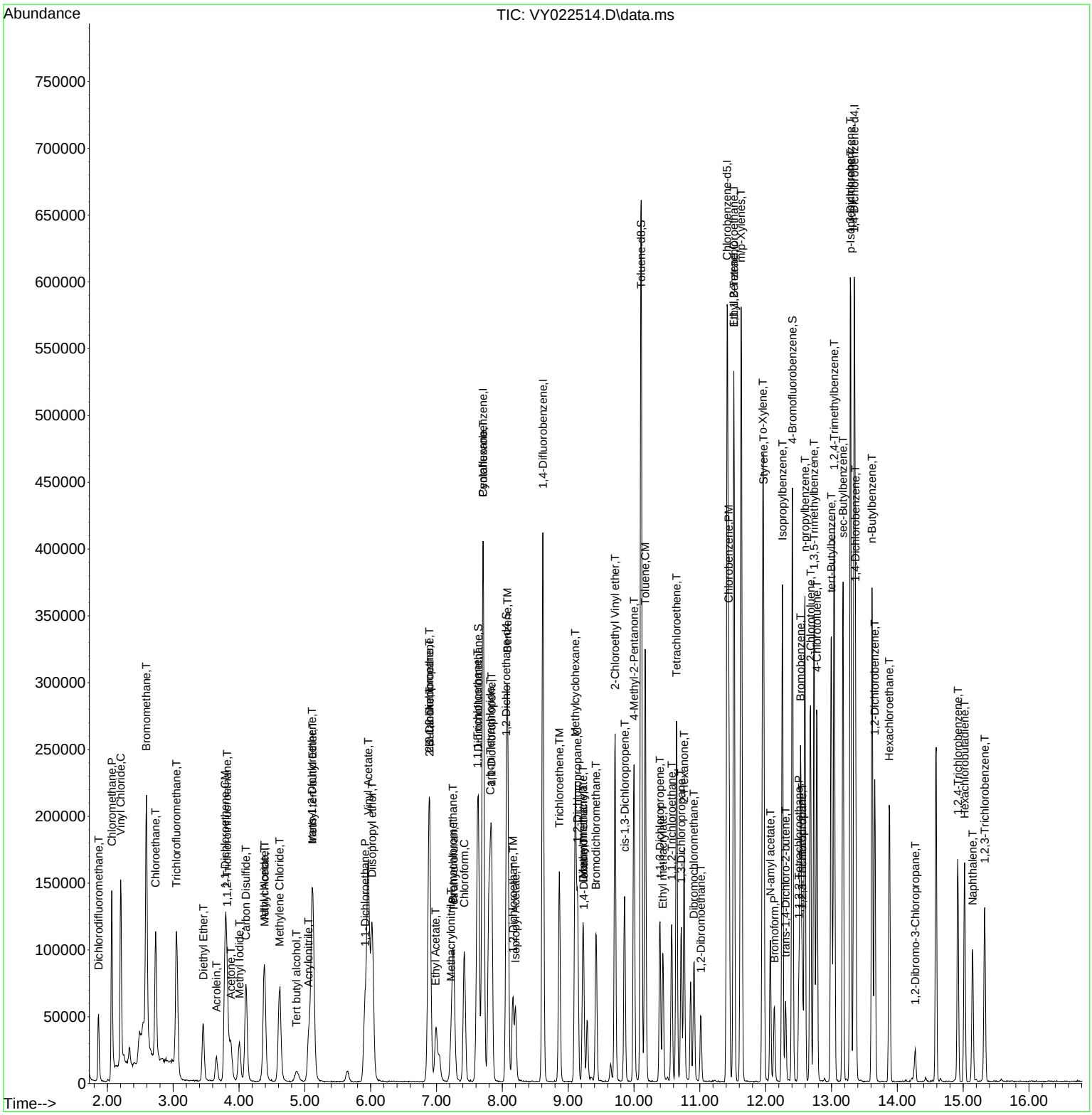
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022514.D
Acq On : 03 Jun 2025 11:38
Operator : SY/MD
Sample : VY0603SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 04:10:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0603SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 06/04/2025
Supervised By :Semsettin Yesilyurt 06/04/2025



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# Manual Integration Report

| Sequence: | VX050525 | Instrument | MSVOA_x |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC020 | VX046041.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:13 AM | MMDadoda | 5/6/2025 12:42:46 PM | Peak Integrated by Software |
| VSTDICCC050 | VX046042.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:18 AM | MMDadoda | 5/6/2025 12:42:48 PM | Peak Integrated by Software |
| VSTDICC100 | VX046043.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:22 AM | MMDadoda | 5/6/2025 12:42:50 PM | Peak Integrated by Software |
| VSTDICC150 | VX046044.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:27 AM | MMDadoda | 5/6/2025 12:42:53 PM | Peak Integrated by Software |
| VSTDICC005 | VX046046.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:32 AM | MMDadoda | 5/6/2025 12:42:56 PM | Peak Integrated by Software |
| VSTDICC005 | VX046046.D | Ethyl Acetate | JOHN | 5/6/2025 9:53:32 AM | MMDadoda | 5/6/2025 12:42:56 PM | Peak Integrated by Software |
| VSTDICC001 | VX046047.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:38 AM | MMDadoda | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICC001 | VX046047.D | 1,4-Dichlorobenzene | JOHN | 5/6/2025 9:53:38 AM | MMDadoda | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICC001 | VX046047.D | Bromochloromethane | JOHN | 5/6/2025 9:53:38 AM | MMDadoda | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICC001 | VX046047.D | Ethyl Acetate | JOHN | 5/6/2025 9:53:38 AM | MMDadoda | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICC001 | VX046047.D | Methyl methacrylate | JOHN | 5/6/2025 9:53:38 AM | MMDadoda | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICV050 | VX046048.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:45 AM | MMDadoda | 5/6/2025 12:41:37 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VX050525 | Instrument | MSVOA_x |
|---|---|---|---|

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

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# Manual Integration Report

| Sequence: | VX060225 | Instrument | MSVOA_x |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VX046433.D | 1,2,3-Trichloropropane | JOHN | 6/3/2025 9:35:42 AM | MMDadoda | 6/3/2025 2:37:30 PM | Peak Integrated by Software |
| VX0602WBS01 | VX046436.D | 1,2,3-Trichloropropane | JOHN | 6/3/2025 9:35:46 AM | MMDadoda | 6/3/2025 2:37:32 PM | Peak Integrated by Software |
| VX0602WBSD01 | VX046437.D | 1,2,3-Trichloropropane | JOHN | 6/3/2025 9:35:50 AM | MMDadoda | 6/3/2025 2:37:33 PM | Peak Integrated by Software |
| VSTDCCC050 | VX046458.D | 1,2,3-Trichloropropane | JOHN | 6/3/2025 9:36:15 AM | MMDadoda | 6/3/2025 2:37:49 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vy060225 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC005 | VY022491.D | 1,2,3-Trichloropropane | SAM | 6/3/2025 8:26:25 AM | MMDadoda | 6/3/2025 2:38:13 PM | Peak Integrated by Software |
| VSTDICC005 | VY022491.D | 1,4-Dioxane | SAM | 6/3/2025 8:26:25 AM | MMDadoda | 6/3/2025 2:38:13 PM | Peak Integrated by Software |
| VSTDICC005 | VY022491.D | Ethyl Acetate | SAM | 6/3/2025 8:26:25 AM | MMDadoda | 6/3/2025 2:38:13 PM | Peak Integrated by Software |
| VSTDICC010 | VY022492.D | 1,2,3-Trichloropropane | SAM | 6/3/2025 8:26:30 AM | MMDadoda | 6/3/2025 2:38:15 PM | Peak Integrated by Software |
| VSTDICC010 | VY022492.D | Dibromomethane | SAM | 6/3/2025 8:26:30 AM | MMDadoda | 6/3/2025 2:38:15 PM | Peak Integrated by Software |
| VSTDICC010 | VY022492.D | Methacrylonitrile | SAM | 6/3/2025 8:26:30 AM | MMDadoda | 6/3/2025 2:38:15 PM | Peak Integrated by Software |
| VSTDICC020 | VY022493.D | 1,2,3-Trichloropropane | SAM | 6/3/2025 8:28:00 AM | MMDadoda | 6/3/2025 2:38:17 PM | Peak Integrated by Software |
| VSTDICCC050 | VY022494.D | 1,2,3-Trichloropropane | SAM | 6/3/2025 8:28:05 AM | MMDadoda | 6/3/2025 2:38:19 PM | Peak Integrated by Software |
| VSTDICC100 | VY022495.D | 1,2,3-Trichloropropane | SAM | 6/3/2025 8:26:35 AM | MMDadoda | 6/3/2025 2:38:20 PM | Peak Integrated by Software |
| VSTDICC100 | VY022495.D | Methacrylonitrile | SAM | 6/3/2025 8:26:35 AM | MMDadoda | 6/3/2025 2:38:20 PM | Peak Integrated by Software |
| VSTDICC150 | VY022496.D | 1,2,3-Trichloropropane | SAM | 6/3/2025 8:28:09 AM | MMDadoda | 6/3/2025 2:38:22 PM | Peak Integrated by Software |
| VSTDICV050 | VY022498.D | 1,2,3-Trichloropropane | SAM | 6/3/2025 8:26:42 AM | MMDadoda | 6/3/2025 2:38:25 PM | Peak Integrated by Software |
| VSTDCCC050 | VY022509.D | 1,2,3-Trichloropropane | SAM | 6/3/2025 8:27:00 AM | MMDadoda | 6/3/2025 2:38:29 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vy060225 | Instrument | MSVOA_y |
|---|---|---|---|

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

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# Manual Integration Report

| Sequence: | vy060325 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY022511.D | 1,2,3-Trichloropropane | MMDadoda | 6/4/2025 4:20:50 PM | Sam | 6/4/2025 4:23:21 PM | Peak Integrated by Software |
| VSTDCCC050 | VY022511.D | Methacrylonitrile | MMDadoda | 6/4/2025 4:20:50 PM | Sam | 6/4/2025 4:23:21 PM | Peak Integrated by Software |
| VY0603SBS01 | VY022513.D | 1,2,3-Trichloropropane | MMDadoda | 6/4/2025 4:20:55 PM | Sam | 6/4/2025 4:23:24 PM | Peak Integrated by Software |
| VY0603SBSD01 | VY022514.D | 1,2,3-Trichloropropane | MMDadoda | 6/4/2025 4:20:57 PM | Sam | 6/4/2025 4:23:29 PM | Peak Integrated by Software |
| VY0603SBSD01 | VY022514.D | Methacrylonitrile | MMDadoda | 6/4/2025 4:20:57 PM | Sam | 6/4/2025 4:23:29 PM | Peak Integrated by Software |
| VSTDCCC050 | VY022536.D | 1,2,3-Trichloropropane | MMDadoda | 6/4/2025 4:21:00 PM | Sam | 6/4/2025 4:23:33 PM | Peak Integrated by Software |
| VSTDCCC050 | VY022536.D | Methacrylonitrile | MMDadoda | 6/4/2025 4:21:00 PM | Sam | 6/4/2025 4:23:33 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vy060425 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY022538.D | 1,2,3-Trichloropropane | MMDadoda | 6/5/2025 4:43:30 PM | SAM | 6/5/2025 4:46:48 PM | Peak Integrated by Software |
| VSTDCCC050 | VY022538.D | Methacrylonitrile | MMDadoda | 6/5/2025 4:43:30 PM | SAM | 6/5/2025 4:46:48 PM | Peak Integrated by Software |
| VY0604SBS01 | VY022540.D | 1,2,3-Trichloropropane | MMDadoda | 6/5/2025 4:43:28 PM | SAM | 6/5/2025 4:46:49 PM | Peak Integrated by Software |
| VY0604SBS01 | VY022540.D | Methacrylonitrile | MMDadoda | 6/5/2025 4:43:28 PM | SAM | 6/5/2025 4:46:49 PM | Peak Integrated by Software |
| VSTDCCC050 | VY022558.D | 1,2,3-Trichloropropane | MMDadoda | 6/5/2025 4:43:22 PM | SAM | 6/5/2025 4:46:55 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VY060525 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY022560.D | 1,2,3-Trichloropropane | MMDadoda | 6/6/2025 5:55:22 PM | Sam | 6/6/2025 5:55:58 PM | Peak Integrated by Software |
| VSTDCCC050 | VY022560.D | Methacrylonitrile | MMDadoda | 6/6/2025 5:55:22 PM | Sam | 6/6/2025 5:55:58 PM | Peak Integrated by Software |
| VY0605SBS01 | VY022562.D | 1,2,3-Trichloropropane | MMDadoda | 6/6/2025 5:55:23 PM | Sam | 6/6/2025 5:56:00 PM | Peak Integrated by Software |
| VSTDCCC050 | VY022585.D | 1,2,3-Trichloropropane | MMDadoda | 6/6/2025 5:55:26 PM | Sam | 6/6/2025 5:56:03 PM | Peak Integrated by Software |
| VSTDCCC050 | VY022585.D | Methacrylonitrile | MMDadoda | 6/6/2025 5:55:26 PM | Sam | 6/6/2025 5:56:03 PM | Peak Integrated by Software |

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX050525

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/6/2025 9:53:58 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/6/2025 12:43:00 PM | | |
| SubDirectory | VX050525 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133811 |
| Initial Calibration Stds | VP133832,VP133833,VP133834,VP133835,VP133836,VP133837 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP133838 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VX046038.D | 05 May 2025 09:37 | JC/MD | Ok |
| 2 | VSTDICC001 | VX046039.D | 05 May 2025 10:49 | JC/MD | Not Ok |
| 3 | VSTDICC005 | VX046040.D | 05 May 2025 11:12 | JC/MD | Not Ok |
| 4 | VSTDICC020 | VX046041.D | 05 May 2025 11:35 | JC/MD | Ok,M |
| 5 | VSTDICCC050 | VX046042.D | 05 May 2025 11:58 | JC/MD | Ok,M |
| 6 | VSTDICC100 | VX046043.D | 05 May 2025 12:21 | JC/MD | Ok,M |
| 7 | VSTDICC150 | VX046044.D | 05 May 2025 12:45 | JC/MD | Ok,M |
| 8 | IBLK | VX046045.D | 05 May 2025 13:08 | JC/MD | Ok |
| 9 | VSTDICC005 | VX046046.D | 05 May 2025 16:04 | JC/MD | Ok,M |
| 10 | VSTDICC001 | VX046047.D | 05 May 2025 16:27 | JC/MD | Ok,M |
| 11 | VSTDICV050 | VX046048.D | 05 May 2025 16:50 | JC/MD | Ok,M |

M : Manual Integration

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX060225

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 6/3/2025 9:49:55 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 6/3/2025 2:37:54 PM | | |
| SubDirectory | VX060225 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134094 |
| Initial Calibration Stds | |
| CCC | VP134095,VP134096 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VX046432.D | 02 Jun 2025 09:42 | JC/MD | Ok |
| 2 | VSTDCCC050 | VX046433.D | 02 Jun 2025 10:21 | JC/MD | Ok,M |
| 3 | VX0602MBL01 | VX046434.D | 02 Jun 2025 10:51 | JC/MD | Ok |
| 4 | VX0602WBL01 | VX046435.D | 02 Jun 2025 11:14 | JC/MD | Ok |
| 5 | VX0602WBS01 | VX046436.D | 02 Jun 2025 11:37 | JC/MD | Ok,M |
| 6 | VX0602WBSD01 | VX046437.D | 02 Jun 2025 12:04 | JC/MD | Ok,M |
| 7 | IBLK | VX046438.D | 02 Jun 2025 12:27 | JC/MD | Ok |
| 8 | Q2164-01 | VX046439.D | 02 Jun 2025 12:50 | JC/MD | Ok |
| 9 | Q2164-02 | VX046440.D | 02 Jun 2025 13:14 | JC/MD | Ok |
| 10 | Q2164-03 | VX046441.D | 02 Jun 2025 13:37 | JC/MD | Ok |
| 11 | Q2164-04 | VX046442.D | 02 Jun 2025 14:00 | JC/MD | Ok |
| 12 | Q2177-08 | VX046443.D | 02 Jun 2025 14:23 | JC/MD | ReRun |
| 13 | Q2177-09 | VX046444.D | 02 Jun 2025 14:47 | JC/MD | Ok |
| 14 | Q2157-01 | VX046445.D | 02 Jun 2025 15:36 | JC/MD | Ok |
| 15 | VX0602MBS01 | VX046446.D | 02 Jun 2025 15:59 | JC/MD | Ok,M |
| 16 | VX0602MBSD01 | VX046447.D | 02 Jun 2025 16:22 | JC/MD | Ok,M |
| 17 | Q2155-01 | VX046448.D | 02 Jun 2025 16:46 | JC/MD | Not Ok |
| 18 | Q2155-02 | VX046449.D | 02 Jun 2025 17:09 | JC/MD | Not Ok |
| 19 | Q2161-01 | VX046450.D | 02 Jun 2025 17:32 | JC/MD | Ok |
| 20 | Q2161-02 | VX046451.D | 02 Jun 2025 17:56 | JC/MD | Ok |
| 21 | IBLK | VX046452.D | 02 Jun 2025 18:19 | JC/MD | Ok |

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX060225

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 6/3/2025 9:49:55 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 6/3/2025 2:37:54 PM | | |
| SubDirectory | VX060225 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134094 |
| Initial Calibration Stds | |
| CCC | VP134095,VP134096 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | IBLK | VX046453.D | 02 Jun 2025 18:42 | JC/MD | Ok |
| 23 | Q2177-08 | VX046454.D | 02 Jun 2025 19:06 | JC/MD | Ok |
| 24 | Q2169-01 | VX046455.D | 02 Jun 2025 19:29 | JC/MD | Not Ok |
| 25 | Q2169-03 | VX046456.D | 02 Jun 2025 19:52 | JC/MD | Not Ok |
| 26 | Q2155-01 | VX046457.D | 02 Jun 2025 20:39 | JC/MD | Not Ok |
| 27 | VSTDCCC050 | VX046458.D | 02 Jun 2025 21:03 | JC/MD | Ok,M |

M : Manual Integration

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY060225

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 6/3/2025 2:38:36 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 6/3/2025 2:39:16 PM | | | | |
| SubDirectory | VY060225 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82Y060225S.M | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134084 |
| Initial Calibration Stds | VP134085,VP134086,VP134087,VP134088,VP134089,VP134090 |
| CCC | VP134092,VP134093 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | VP134091 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY022488.D | 02 Jun 2025 08:31 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY022489.D | 02 Jun 2025 09:08 | SY/MD | Not Ok |
| 3 | VY0602SBL01 | VY022490.D | 02 Jun 2025 10:38 | SY/MD | Not Ok |
| 4 | VSTDICC005 | VY022491.D | 02 Jun 2025 11:46 | SY/MD | Ok,M |
| 5 | VSTDICC010 | VY022492.D | 02 Jun 2025 12:09 | SY/MD | Ok,M |
| 6 | VSTDICC020 | VY022493.D | 02 Jun 2025 12:32 | SY/MD | Ok,M |
| 7 | VSTDICCC050 | VY022494.D | 02 Jun 2025 12:54 | SY/MD | Ok,M |
| 8 | VSTDICC100 | VY022495.D | 02 Jun 2025 13:17 | SY/MD | Ok,M |
| 9 | VSTDICC150 | VY022496.D | 02 Jun 2025 13:39 | SY/MD | Ok,M |
| 10 | VIBLK | VY022497.D | 02 Jun 2025 14:03 | SY/MD | Ok |
| 11 | VSTDICV050 | VY022498.D | 02 Jun 2025 14:59 | SY/MD | Ok,M |
| 12 | VY0602SBL02 | VY022499.D | 02 Jun 2025 16:00 | SY/MD | Ok |
| 13 | VY0602SBS01 | VY022500.D | 02 Jun 2025 16:24 | SY/MD | Ok,M |
| 14 | VY0602SBSD01 | VY022501.D | 02 Jun 2025 16:47 | SY/MD | Ok,M |
| 15 | Q2160-02 | VY022502.D | 02 Jun 2025 17:10 | SY/MD | Ok |
| 16 | Q2152-01 | VY022503.D | 02 Jun 2025 17:34 | SY/MD | Not Ok |
| 17 | Q2153-01RE | VY022504.D | 02 Jun 2025 17:57 | SY/MD | Confirms |
| 18 | Q2147-02 | VY022505.D | 02 Jun 2025 18:21 | SY/MD | Not Ok |
| 19 | Q2150-02 | VY022506.D | 02 Jun 2025 18:44 | SY/MD | Ok |
| 20 | Q2150-05RE | VY022507.D | 02 Jun 2025 19:08 | SY/MD | Confirms |
| 21 | Q2161-01 | VY022508.D | 02 Jun 2025 19:31 | SY/MD | Not Ok |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY060225

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 6/3/2025 2:38:36 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 6/3/2025 2:39:16 PM | | | | |
| SubDirectory | VY060225 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82Y060225S.M | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134084 |
| Initial Calibration Stds | VP134085,VP134086,VP134087,VP134088,VP134089,VP134090 |
| CCC | VP134092,VP134093 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | VP134091 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | VSTDCCC050 | VY022509.D | 02 Jun 2025 19:54 | SY/MD | Ok,M |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY060325

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 6/4/2025 4:21:05 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 6/4/2025 4:23:38 PM | | | | |
| SubDirectory | VY060325 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y060225s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134097 |
| Initial Calibration Stds | |
| CCC | VP134098,VP134099 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY022510.D | 03 Jun 2025 09:03 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY022511.D | 03 Jun 2025 10:03 | SY/MD | Ok,M |
| 3 | VY0603SBL01 | VY022512.D | 03 Jun 2025 10:40 | SY/MD | Ok |
| 4 | VY0603SBS01 | VY022513.D | 03 Jun 2025 11:15 | SY/MD | Ok,M |
| 5 | VY0603SBSD01 | VY022514.D | 03 Jun 2025 11:38 | SY/MD | Ok,M |
| 6 | Q2155-01 | VY022515.D | 03 Jun 2025 12:17 | SY/MD | Ok |
| 7 | Q2155-02 | VY022516.D | 03 Jun 2025 12:40 | SY/MD | Ok,M |
| 8 | Q2185-02 | VY022517.D | 03 Jun 2025 13:04 | SY/MD | Ok |
| 9 | Q2185-06 | VY022518.D | 03 Jun 2025 13:27 | SY/MD | Ok |
| 10 | Q2172-02 | VY022519.D | 03 Jun 2025 13:51 | SY/MD | Ok |
| 11 | Q2168-03 | VY022520.D | 03 Jun 2025 14:14 | SY/MD | ReRun |
| 12 | Q2168-07 | VY022521.D | 03 Jun 2025 14:38 | SY/MD | Dilution |
| 13 | Q2168-11 | VY022522.D | 03 Jun 2025 15:01 | SY/MD | Dilution |
| 14 | Q2182-01 | VY022523.D | 03 Jun 2025 15:24 | SY/MD | ReRun |
| 15 | Q2162-01 | VY022524.D | 03 Jun 2025 15:48 | SY/MD | Ok |
| 16 | Q2161-02 | VY022525.D | 03 Jun 2025 16:11 | SY/MD | Not Ok |
| 17 | Q2176-01 | VY022526.D | 03 Jun 2025 16:35 | SY/MD | Ok |
| 18 | Q2176-02 | VY022527.D | 03 Jun 2025 16:58 | SY/MD | Ok |
| 19 | Q2176-03 | VY022528.D | 03 Jun 2025 17:22 | SY/MD | Ok |
| 20 | Q2176-04 | VY022529.D | 03 Jun 2025 17:45 | SY/MD | Ok |
| 21 | Q2176-05 | VY022530.D | 03 Jun 2025 18:09 | SY/MD | Ok |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY060325

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 6/4/2025 4:21:05 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 6/4/2025 4:23:38 PM | | | | |
| SubDirectory | VY060325 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y060225s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134097 |
| Initial Calibration Stds | |
| CCC | VP134098,VP134099 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2176-06 | VY022531.D | 03 Jun 2025 18:32 | SY/MD | Ok |
| 23 | Q2176-07 | VY022532.D | 03 Jun 2025 18:56 | SY/MD | Ok |
| 24 | Q2176-08 | VY022533.D | 03 Jun 2025 19:19 | SY/MD | Ok |
| 25 | Q2177-01 | VY022534.D | 03 Jun 2025 19:42 | SY/MD | Ok |
| 26 | VIBLK | VY022535.D | 03 Jun 2025 20:06 | SY/MD | Ok |
| 27 | VSTDCCC050 | VY022536.D | 03 Jun 2025 20:51 | SY/MD | Ok,M |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY060425

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 6/5/2025 4:43:35 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 6/5/2025 4:47:03 PM | | | | |
| SubDirectory | VY060425 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y060225s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134109 |
| Initial Calibration Stds | |
| CCC | VP134110,VP134111,MDL VP134112,VP134113 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY022537.D | 04 Jun 2025 08:48 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY022538.D | 04 Jun 2025 09:54 | SY/MD | Ok,M |
| 3 | VY0604SBL01 | VY022539.D | 04 Jun 2025 10:24 | SY/MD | Ok |
| 4 | VY0604SBS01 | VY022540.D | 04 Jun 2025 10:54 | SY/MD | Ok,M |
| 5 | VY0604SBSD01 | VY022541.D | 04 Jun 2025 11:16 | SY/MD | Ok,M |
| 6 | Q2126-03 | VY022542.D | 04 Jun 2025 11:53 | SY/MD | Ok,M |
| 7 | Q2126-03 | VY022543.D | 04 Jun 2025 12:16 | SY/MD | Ok,M |
| 8 | Q2168-03RE | VY022544.D | 04 Jun 2025 12:39 | SY/MD | Confirms |
| 9 | Q2182-01RE | VY022545.D | 04 Jun 2025 13:03 | SY/MD | Confirms |
| 10 | Q2195-01 | VY022546.D | 04 Jun 2025 13:26 | SY/MD | ReRun |
| 11 | Q2194-01 | VY022547.D | 04 Jun 2025 13:50 | SY/MD | Ok |
| 12 | Q2194-03 | VY022548.D | 04 Jun 2025 14:13 | SY/MD | ReRun |
| 13 | Q2199-02 | VY022549.D | 04 Jun 2025 14:37 | SY/MD | ReRun |
| 14 | Q2199-04 | VY022550.D | 04 Jun 2025 15:00 | SY/MD | Not Ok |
| 15 | Q2199-06 | VY022551.D | 04 Jun 2025 15:24 | SY/MD | Ok |
| 16 | Q2198-01 | VY022552.D | 04 Jun 2025 15:47 | SY/MD | Ok |
| 17 | Q2198-03 | VY022553.D | 04 Jun 2025 16:11 | SY/MD | Ok |
| 18 | Q2177-02 | VY022554.D | 04 Jun 2025 16:34 | SY/MD | Ok |
| 19 | Q2177-04 | VY022555.D | 04 Jun 2025 16:58 | SY/MD | Ok |
| 20 | Q2177-06 | VY022556.D | 04 Jun 2025 17:21 | SY/MD | ReRun |
| 21 | VIBLK | VY022557.D | 04 Jun 2025 17:45 | SY/MD | Ok |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY060425

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 6/5/2025 4:43:35 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 6/5/2025 4:47:03 PM | | | | |
| SubDirectory | VY060425 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y060225s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134109 |
| Initial Calibration Stds | |
| CCC | VP134110,VP134111,MDL VP134112,VP134113 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | VSTDCCC050 | VY022558.D | 04 Jun 2025 18:30 | SY/MD | Ok,M |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY060525

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 6/6/2025 5:55:27 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 6/6/2025 5:56:08 PM | | | | |
| SubDirectory | VY060525 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y060225s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134127 |
| Initial Calibration Stds | |
| CCC | VP134128,VP134129 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY022559.D | 05 Jun 2025 08:08 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY022560.D | 05 Jun 2025 08:40 | SY/MD | Ok,M |
| 3 | VY0605SBL01 | VY022561.D | 05 Jun 2025 09:11 | SY/MD | Ok |
| 4 | VY0605SBS01 | VY022562.D | 05 Jun 2025 09:41 | SY/MD | Ok,M |
| 5 | VY0605SBSD01 | VY022563.D | 05 Jun 2025 10:31 | SY/MD | Ok,M |
| 6 | Q2199-02RE | VY022564.D | 05 Jun 2025 11:12 | SY/MD | Confirms |
| 7 | Q2199-06 | VY022565.D | 05 Jun 2025 11:35 | SY/MD | Not Ok |
| 8 | Q2194-03 | VY022566.D | 05 Jun 2025 11:59 | SY/MD | Ok |
| 9 | Q2195-01RE | VY022567.D | 05 Jun 2025 12:22 | SY/MD | Confirms |
| 10 | Q2177-06 | VY022568.D | 05 Jun 2025 12:45 | SY/MD | Ok |
| 11 | Q2219-01 | VY022569.D | 05 Jun 2025 13:09 | SY/MD | ReRun |
| 12 | Q2214-01 | VY022570.D | 05 Jun 2025 13:33 | SY/MD | Not Ok |
| 13 | Q2224-01 | VY022571.D | 05 Jun 2025 13:56 | SY/MD | ReRun |
| 14 | Q2208-02 | VY022572.D | 05 Jun 2025 14:20 | SY/MD | ReRun |
| 15 | Q2208-11 | VY022573.D | 05 Jun 2025 14:44 | SY/MD | ReRun |
| 16 | Q2208-20 | VY022574.D | 05 Jun 2025 15:07 | SY/MD | ReRun |
| 17 | Q2208-29 | VY022575.D | 05 Jun 2025 15:31 | SY/MD | ReRun |
| 18 | Q2207-02 | VY022576.D | 05 Jun 2025 15:55 | SY/MD | ReRun |
| 19 | Q2207-11 | VY022577.D | 05 Jun 2025 16:19 | SY/MD | ReRun |
| 20 | Q2207-20 | VY022578.D | 05 Jun 2025 16:42 | SY/MD | ReRun |
| 21 | Q2207-29 | VY022579.D | 05 Jun 2025 17:06 | SY/MD | ReRun |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY060525

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 6/6/2025 5:55:27 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 6/6/2025 5:56:08 PM | | | | |
| SubDirectory | VY060525 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y060225s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134127 |
| Initial Calibration Stds | |
| CCC | VP134128,VP134129 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2207-38 | VY022580.D | 05 Jun 2025 17:30 | SY/MD | ReRun |
| 23 | Q2225-01 | VY022581.D | 05 Jun 2025 17:54 | SY/MD | ReRun |
| 24 | Q2226-02 | VY022582.D | 05 Jun 2025 18:17 | SY/MD | ReRun |
| 25 | Q2227-02 | VY022583.D | 05 Jun 2025 18:41 | SY/MD | ReRun |
| 26 | VIBLK | VY022584.D | 05 Jun 2025 19:05 | SY/MD | Ok |
| 27 | VSTDCCC050 | VY022585.D | 05 Jun 2025 19:51 | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX050525

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/6/2025 9:53:58 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/6/2025 12:43:00 PM | | |
| SubDirectory | VX050525 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133811 |
| Initial Calibration Stds | VP133832,VP133833,VP133834,VP133835,VP133836,VP133837 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP133838 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VX046038.D | 05 May 2025 09:37 | | JC/MD | Ok |
| 2 | VSTDICC001 | VSTDICC001 | VX046039.D | 05 May 2025 10:49 | Not used | JC/MD | Not Ok |
| 3 | VSTDICC005 | VSTDICC005 | VX046040.D | 05 May 2025 11:12 | Not used | JC/MD | Not Ok |
| 4 | VSTDICC020 | VSTDICC020 | VX046041.D | 05 May 2025 11:35 | | JC/MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VX046042.D | 05 May 2025 11:58 | | JC/MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VX046043.D | 05 May 2025 12:21 | | JC/MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VX046044.D | 05 May 2025 12:45 | | JC/MD | Ok,M |
| 8 | IBLK | IBLK | VX046045.D | 05 May 2025 13:08 | | JC/MD | Ok |
| 9 | VSTDICC005 | VSTDICC005 | VX046046.D | 05 May 2025 16:04 | | JC/MD | Ok,M |
| 10 | VSTDICC001 | VSTDICC001 | VX046047.D | 05 May 2025 16:27 | | JC/MD | Ok,M |
| 11 | VSTDICV050 | ICVVX050525 | VX046048.D | 05 May 2025 16:50 | | JC/MD | Ok,M |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX060225

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 6/3/2025 9:49:55 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 6/3/2025 2:37:54 PM | | |
| SubDirectory | VX060225 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134094 |
| Initial Calibration Stds | |
| CCC | VP134095,VP134096 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VX046432.D | 02 Jun 2025 09:42 | | JC/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VX046433.D | 02 Jun 2025 10:21 | pH#Lot#V12668 | JC/MD | Ok,M |
| 3 | VX0602MBL01 | VX0602MBL01 | VX046434.D | 02 Jun 2025 10:51 | | JC/MD | Ok |
| 4 | VX0602WBL01 | VX0602WBL01 | VX046435.D | 02 Jun 2025 11:14 | | JC/MD | Ok |
| 5 | VX0602WBS01 | VX0602WBS01 | VX046436.D | 02 Jun 2025 11:37 | | JC/MD | Ok,M |
| 6 | VX0602WBSD01 | VX0602WBSD01 | VX046437.D | 02 Jun 2025 12:04 | | JC/MD | Ok,M |
| 7 | IBLK | IBLK | VX046438.D | 02 Jun 2025 12:27 | | JC/MD | Ok |
| 8 | Q2164-01 | STORAGE-BLANK-SO | VX046439.D | 02 Jun 2025 12:50 | vial A pH<2 | JC/MD | Ok |
| 9 | Q2164-02 | STORAGE-BLANK-WA | VX046440.D | 02 Jun 2025 13:14 | vial A pH<2 | JC/MD | Ok |
| 10 | Q2164-03 | STORAGE-BLANK-WA | VX046441.D | 02 Jun 2025 13:37 | vial A pH<2 | JC/MD | Ok |
| 11 | Q2164-04 | STORAGE-BLANK-SA | VX046442.D | 02 Jun 2025 14:00 | vial A pH<2 | JC/MD | Ok |
| 12 | Q2177-08 | EB05312025 | VX046443.D | 02 Jun 2025 14:23 | vial A pH<2 EB;Hit of comp.#16 | JC/MD | ReRun |
| 13 | Q2177-09 | TB05312025 | VX046444.D | 02 Jun 2025 14:47 | vial A pH<2 TB | JC/MD | Ok |
| 14 | Q2157-01 | 291 | VX046445.D | 02 Jun 2025 15:36 | cloth material | JC/MD | Ok |
| 15 | VX0602MBS01 | VX0602MBS01 | VX046446.D | 02 Jun 2025 15:59 | | JC/MD | Ok,M |
| 16 | VX0602MBSD01 | VX0602MBSD01 | VX046447.D | 02 Jun 2025 16:22 | | JC/MD | Ok,M |
| 17 | Q2155-01 | 446 | VX046448.D | 02 Jun 2025 16:46 | Need Straight Run | JC/MD | Not Ok |
| 18 | Q2155-02 | 447-SOLID | VX046449.D | 02 Jun 2025 17:09 | Need Soil Run | JC/MD | Not Ok |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX060225

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 6/3/2025 9:49:55 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 6/3/2025 2:37:54 PM | | |
| SubDirectory | VX060225 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134094 |
| Initial Calibration Stds | |
| CCC | VP134095,VP134096 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2161-01 | B27-SOIL-SAMPLE | VX046450.D | 02 Jun 2025 17:32 | | JC/MD | Ok |
| 20 | Q2161-02 | B28-SOIL-SAMPLE | VX046451.D | 02 Jun 2025 17:56 | Need Soil Run | JC/MD | Ok |
| 21 | IBLK | IBLK | VX046452.D | 02 Jun 2025 18:19 | | JC/MD | Ok |
| 22 | IBLK | IBLK | VX046453.D | 02 Jun 2025 18:42 | | JC/MD | Ok |
| 23 | Q2177-08 | EB05312025 | VX046454.D | 02 Jun 2025 19:06 | vial B pH<2 | JC/MD | Ok |
| 24 | Q2169-01 | 303-PPR-1 | VX046455.D | 02 Jun 2025 19:29 | Need Straight Run | JC/MD | Not Ok |
| 25 | Q2169-03 | 303-PPR-2 | VX046456.D | 02 Jun 2025 19:52 | Need Straight Run | JC/MD | Not Ok |
| 26 | Q2155-01 | 446 | VX046457.D | 02 Jun 2025 20:39 | Need Soil Run | JC/MD | Not Ok |
| 27 | VSTDCCC050 | VSTDCCC050EC | VX046458.D | 02 Jun 2025 21:03 | | JC/MD | Ok,M |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY060225

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 6/3/2025 2:38:36 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 6/3/2025 2:39:16 PM | | |
| SubDirectory | VY060225 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82Y060225S.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134084 |
| Initial Calibration Stds | VP134085,VP134086,VP134087,VP134088,VP134089,VP134090 |
| CCC | VP134092,VP134093 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | VP134091 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY022488.D | 02 Jun 2025 08:31 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY022489.D | 02 Jun 2025 09:08 | Need ICAL | SY/MD | Not Ok |
| 3 | VY0602SBL01 | VY0602SBL01 | VY022490.D | 02 Jun 2025 10:38 | | SY/MD | Not Ok |
| 4 | VSTDICC005 | VSTDICC005 | VY022491.D | 02 Jun 2025 11:46 | | SY/MD | Ok,M |
| 5 | VSTDICC010 | VSTDICC010 | VY022492.D | 02 Jun 2025 12:09 | | SY/MD | Ok,M |
| 6 | VSTDICC020 | VSTDICC020 | VY022493.D | 02 Jun 2025 12:32 | | SY/MD | Ok,M |
| 7 | VSTDICCC050 | VSTDICCC050 | VY022494.D | 02 Jun 2025 12:54 | | SY/MD | Ok,M |
| 8 | VSTDICC100 | VSTDICC100 | VY022495.D | 02 Jun 2025 13:17 | | SY/MD | Ok,M |
| 9 | VSTDICC150 | VSTDICC150 | VY022496.D | 02 Jun 2025 13:39 | | SY/MD | Ok,M |
| 10 | VIBLK | VIBLK | VY022497.D | 02 Jun 2025 14:03 | | SY/MD | Ok |
| 11 | VSTDICV050 | ICVVY060225 | VY022498.D | 02 Jun 2025 14:59 | Icv Fail For DOD For Com.# 18 | SY/MD | Ok,M |
| 12 | VY0602SBL02 | VY0602SBL02 | VY022499.D | 02 Jun 2025 16:00 | | SY/MD | Ok |
| 13 | VY0602SBS01 | VY0602SBS01 | VY022500.D | 02 Jun 2025 16:24 | | SY/MD | Ok,M |
| 14 | VY0602SBSD01 | VY0602SBSD01 | VY022501.D | 02 Jun 2025 16:47 | | SY/MD | Ok,M |
| 15 | Q2160-02 | TP04-MHG-VOC | VY022502.D | 02 Jun 2025 17:10 | vial A | SY/MD | Ok |
| 16 | Q2152-01 | OK-02-05292025 | VY022503.D | 02 Jun 2025 17:34 | Not Purged,vial B | SY/MD | Not Ok |
| 17 | Q2153-01RE | TR-04-0592025RE | VY022504.D | 02 Jun 2025 17:57 | Surrogate Fail;Internal Standard Fail, vial B | SY/MD | Confirms |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY060225

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 6/3/2025 2:38:36 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 6/3/2025 2:39:16 PM | | |
| SubDirectory | VY060225 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82Y060225S.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134084 |
| Initial Calibration Stds | VP134085,VP134086,VP134087,VP134088,VP134089,VP134090 |
| CCC | VP134092,VP134093 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | VP134091 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Q2147-02 | VOC | VY022505.D | 02 Jun 2025 18:21 | Not purge,vial B | SY/MD | Not Ok |
| 19 | Q2150-02 | TP-42 | VY022506.D | 02 Jun 2025 18:44 | vial B | SY/MD | Ok |
| 20 | Q2150-05RE | TP-47RE | VY022507.D | 02 Jun 2025 19:08 | Internal Standard Fail,vial B | SY/MD | Confirms |
| 21 | Q2161-01 | B27-SOIL-SAMPLE | VY022508.D | 02 Jun 2025 19:31 | vial-B Not purge | SY/MD | Not Ok |
| 22 | VSTDCCC050 | VSTDCCC050EC | VY022509.D | 02 Jun 2025 19:54 | | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 6/4/2025 4:21:05 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 6/4/2025 4:23:38 PM | | |
| SubDirectory | VY060325 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y060225s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134097 |
| Initial Calibration Stds | |
| CCC | VP134098,VP134099 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY022510.D | 03 Jun 2025 09:03 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY022511.D | 03 Jun 2025 10:03 | | SY/MD | Ok,M |
| 3 | VY0603SBL01 | VY0603SBL01 | VY022512.D | 03 Jun 2025 10:40 | | SY/MD | Ok |
| 4 | VY0603SBS01 | VY0603SBS01 | VY022513.D | 03 Jun 2025 11:15 | | SY/MD | Ok,M |
| 5 | VY0603SBSD01 | VY0603SBSD01 | VY022514.D | 03 Jun 2025 11:38 | | SY/MD | Ok,M |
| 6 | Q2155-01 | 446 | VY022515.D | 03 Jun 2025 12:17 | vial-A | SY/MD | Ok |
| 7 | Q2155-02 | 447-SOLID | VY022516.D | 03 Jun 2025 12:40 | vial-A | SY/MD | Ok,M |
| 8 | Q2185-02 | TP02-MHB-VOC | VY022517.D | 03 Jun 2025 13:04 | vial-A | SY/MD | Ok |
| 9 | Q2185-06 | TP01-MHA-VOC | VY022518.D | 03 Jun 2025 13:27 | vial-A | SY/MD | Ok |
| 10 | Q2172-02 | TP06-MHQ-VOC | VY022519.D | 03 Jun 2025 13:51 | vial-A | SY/MD | Ok |
| 11 | Q2168-03 | A3 | VY022520.D | 03 Jun 2025 14:14 | vial-A Internal Standard Fail; Surrogate Fail | SY/MD | ReRun |
| 12 | Q2168-07 | B3 | VY022521.D | 03 Jun 2025 14:38 | vial-A Need MeOH;Internal Standard Fail | SY/MD | Dilution |
| 13 | Q2168-11 | C2 | VY022522.D | 03 Jun 2025 15:01 | vial-A Need MeOH;Internal Standard Fail | SY/MD | Dilution |
| 14 | Q2182-01 | OR-03-06022025 | VY022523.D | 03 Jun 2025 15:24 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 15 | Q2162-01 | BP-VPB-182-GW-580-5 | VY022524.D | 03 Jun 2025 15:48 | vial-A | SY/MD | Ok |
| 16 | Q2161-02 | B28-SOIL-SAMPLE | VY022525.D | 03 Jun 2025 16:11 | vial-B Not purge | SY/MD | Not Ok |
| 17 | Q2176-01 | TP-46 | VY022526.D | 03 Jun 2025 16:35 | vial-A | SY/MD | Ok |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 6/4/2025 4:21:05 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 6/4/2025 4:23:38 PM | | |
| SubDirectory | VY060325 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y060225s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134097 |
| Initial Calibration Stds | |
| CCC | VP134098,VP134099 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Q2176-02 | TP-56 | VY022527.D | 03 Jun 2025 16:58 | vial-A | SY/MD | Ok |
| 19 | Q2176-03 | TP-25 | VY022528.D | 03 Jun 2025 17:22 | vial-A | SY/MD | Ok |
| 20 | Q2176-04 | TP-26 | VY022529.D | 03 Jun 2025 17:45 | vial-A | SY/MD | Ok |
| 21 | Q2176-05 | TP-28 | VY022530.D | 03 Jun 2025 18:09 | vial-A | SY/MD | Ok |
| 22 | Q2176-06 | TP-27 | VY022531.D | 03 Jun 2025 18:32 | vial-A | SY/MD | Ok |
| 23 | Q2176-07 | TP-31 | VY022532.D | 03 Jun 2025 18:56 | vial-A | SY/MD | Ok |
| 24 | Q2176-08 | TP-65 | VY022533.D | 03 Jun 2025 19:19 | vial-A | SY/MD | Ok |
| 25 | Q2177-01 | B-187-SB00 | VY022534.D | 03 Jun 2025 19:42 | vial-A | SY/MD | Ok |
| 26 | VIBLK | VIBLK | VY022535.D | 03 Jun 2025 20:06 | | SY/MD | Ok |
| 27 | VSTDCCC050 | VSTDCCC050EC | VY022536.D | 03 Jun 2025 20:51 | | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 6/5/2025 4:43:35 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 6/5/2025 4:47:03 PM | | |
| SubDirectory | VY060425 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y060225s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134109 |
| Initial Calibration Stds | |
| CCC | VP134110,VP134111,MDL VP134112,VP134113 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY022537.D | 04 Jun 2025 08:48 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY022538.D | 04 Jun 2025 09:54 | | SY/MD | Ok,M |
| 3 | VY0604SBL01 | VY0604SBL01 | VY022539.D | 04 Jun 2025 10:24 | | SY/MD | Ok |
| 4 | VY0604SBS01 | VY0604SBS01 | VY022540.D | 04 Jun 2025 10:54 | | SY/MD | Ok,M |
| 5 | VY0604SBSD01 | VY0604SBSD01 | VY022541.D | 04 Jun 2025 11:16 | | SY/MD | Ok,M |
| 6 | Q2126-03 | MDL-SOIL-03-QT2-202 | VY022542.D | 04 Jun 2025 11:53 | | SY/MD | Ok,M |
| 7 | Q2126-03 | MDL-SOIL-03-QT2-202 | VY022543.D | 04 Jun 2025 12:16 | | SY/MD | Ok,M |
| 8 | Q2168-03RE | A3RE | VY022544.D | 04 Jun 2025 12:39 | vial-B Internal Standard Fail; Surrogate Fail | SY/MD | Confirms |
| 9 | Q2182-01RE | OR-03-06022025RE | VY022545.D | 04 Jun 2025 13:03 | vial-B Internal Standard Fail | SY/MD | Confirms |
| 10 | Q2195-01 | OK-01-060325 | VY022546.D | 04 Jun 2025 13:26 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 11 | Q2194-01 | COMP-12 | VY022547.D | 04 Jun 2025 13:50 | vial-A | SY/MD | Ok |
| 12 | Q2194-03 | COMP-13 | VY022548.D | 04 Jun 2025 14:13 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 13 | Q2199-02 | ETGI-343 | VY022549.D | 04 Jun 2025 14:37 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 14 | Q2199-04 | VNJ-231 | VY022550.D | 04 Jun 2025 15:00 | vial-A Not purge | SY/MD | Not Ok |
| 15 | Q2199-06 | 72-11978 | VY022551.D | 04 Jun 2025 15:24 | vial-A | SY/MD | Ok |
| 16 | Q2198-01 | B-202-SB02 | VY022552.D | 04 Jun 2025 15:47 | vial-A | SY/MD | Ok |
| 17 | Q2198-03 | B-207-SB02 | VY022553.D | 04 Jun 2025 16:11 | vial-A | SY/MD | Ok |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 6/5/2025 4:43:35 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 6/5/2025 4:47:03 PM | | |
| SubDirectory | VY060425 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y060225s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134109 |
| Initial Calibration Stds | |
| CCC | VP134110,VP134111,MDL VP134112,VP134113 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Q2177-02 | B-187-SB01 | VY022554.D | 04 Jun 2025 16:34 | vial-A | SY/MD | Ok |
| 19 | Q2177-04 | B-187-SB02 | VY022555.D | 04 Jun 2025 16:58 | vial-A | SY/MD | Ok |
| 20 | Q2177-06 | B-202-SB01 | VY022556.D | 04 Jun 2025 17:21 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 21 | VIBLK | VIBLK | VY022557.D | 04 Jun 2025 17:45 | | SY/MD | Ok |
| 22 | VSTDCCC050 | VSTDCCC050EC | VY022558.D | 04 Jun 2025 18:30 | | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY060525

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 6/6/2025 5:55:27 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 6/6/2025 5:56:08 PM | | |
| SubDirectory | VY060525 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y060225s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134127 |
| Initial Calibration Stds | |
| CCC | VP134128,VP134129 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY022559.D | 05 Jun 2025 08:08 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY022560.D | 05 Jun 2025 08:40 | | SY/MD | Ok,M |
| 3 | VY0605SBL01 | VY0605SBL01 | VY022561.D | 05 Jun 2025 09:11 | | SY/MD | Ok |
| 4 | VY0605SBS01 | VY0605SBS01 | VY022562.D | 05 Jun 2025 09:41 | | SY/MD | Ok,M |
| 5 | VY0605SBSD01 | VY0605SBSD01 | VY022563.D | 05 Jun 2025 10:31 | | SY/MD | Ok,M |
| 6 | Q2199-02RE | ETGI-343RE | VY022564.D | 05 Jun 2025 11:12 | vial-B Internal Standard Fail; Surrogate Fail | SY/MD | Confirms |
| 7 | Q2199-06 | 72-11978 | VY022565.D | 05 Jun 2025 11:35 | vial-B Already analyzed | SY/MD | Not Ok |
| 8 | Q2194-03 | COMP-13 | VY022566.D | 05 Jun 2025 11:59 | vial-B | SY/MD | Ok |
| 9 | Q2195-01RE | OK-01-060325RE | VY022567.D | 05 Jun 2025 12:22 | Internal Standard Fail | SY/MD | Confirms |
| 10 | Q2177-06 | B-202-SB01 | VY022568.D | 05 Jun 2025 12:45 | vial-B | SY/MD | Ok |
| 11 | Q2219-01 | 72-11995 | VY022569.D | 05 Jun 2025 13:09 | vial-A Internal Standard Fail; Surrogate Fail | SY/MD | ReRun |
| 12 | Q2214-01 | RBR251425 | VY022570.D | 05 Jun 2025 13:33 | vial-A NOT purged | SY/MD | Not Ok |
| 13 | Q2224-01 | EO-01-06042025 | VY022571.D | 05 Jun 2025 13:56 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 14 | Q2208-02 | BU-703-VOC-06 | VY022572.D | 05 Jun 2025 14:20 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 15 | Q2208-11 | BU-703-VOC-07 | VY022573.D | 05 Jun 2025 14:44 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 16 | Q2208-20 | BU-703-VOC-08 | VY022574.D | 05 Jun 2025 15:07 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 17 | Q2208-29 | BU-703-VOC-09 | VY022575.D | 05 Jun 2025 15:31 | vial-A Internal Standard Fail | SY/MD | ReRun |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY060525

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 6/6/2025 5:55:27 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 6/6/2025 5:56:08 PM | | |
| SubDirectory | VY060525 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y060225s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134127 |
| Initial Calibration Stds | |
| CCC | VP134128,VP134129 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Q2207-02 | BU-703-VOC-01 | VY022576.D | 05 Jun 2025 15:55 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 19 | Q2207-11 | BU-703-VOC-02 | VY022577.D | 05 Jun 2025 16:19 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 20 | Q2207-20 | BU-703-VOC-03 | VY022578.D | 05 Jun 2025 16:42 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 21 | Q2207-29 | BU-703-VOC-04 | VY022579.D | 05 Jun 2025 17:06 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 22 | Q2207-38 | BU-703-VOC-05 | VY022580.D | 05 Jun 2025 17:30 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 23 | Q2225-01 | SU-03-06042025 | VY022581.D | 05 Jun 2025 17:54 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 24 | Q2226-02 | TP06-MHI-VOC | VY022582.D | 05 Jun 2025 18:17 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 25 | Q2227-02 | TP07-MHH-VOC | VY022583.D | 05 Jun 2025 18:41 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 26 | VIBLK | VIBLK | VY022584.D | 05 Jun 2025 19:05 | | SY/MD | Ok |
| 27 | VSTDCCC050 | VSTDCCC050EC | VY022585.D | 05 Jun 2025 19:51 | | SY/MD | Ok,M |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2177 | **OrderDate:** | 6/2/2025 11:19:00 AM |
| **Client:** | Portal Partners Tri-Venture | **Project:** | Amtrak Sawtooth Bridges 2025 |
| **Contact:** | Joseph Krupansky | **Location:** | L41,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2177-01** | **B-187-SB00** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 06/03/25 | |
| **Q2177-02** | **B-187-SB01** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 06/04/25 | |
| **Q2177-03** | **B-187-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP VOA | 8260D | | | 06/03/25 | |
| **Q2177-04** | **B-187-SB02** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 06/04/25 | |
| **Q2177-05** | **B-187-SB02** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP VOA | 8260D | | | 06/03/25 | |
| **Q2177-06** | **B-202-SB01** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 06/05/25 | |
| **Q2177-07** | **B-202-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP VOA | 8260D | | | 06/03/25 | |
| **Q2177-08** | **EB05312025** | **Water** | | | **05/31/25** | | | **06/02/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | | 06/02/25 | |
| **Q2177-09** | **TB05312025** | **Water** | | | **05/31/25** | | | **06/02/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | | 06/02/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **B-187-SB02** | | | | | | | |
| Q2177-05 | B-187-SB02 | TCLP | 2-Butanone | 10.3 | J | 0.98 | 25.0 | ug/L |
| | | | **Total Voc :** | 10.3 | | | | |
| | | | **Total Concentration:** | 10.3 | | | | |

# SAMPLE DATA

Raw Data: **VN086855.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-03 | Matrix: | TCLP |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | SW5035 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN086855.D | 1 | | 06/03/25 20:12 | VN060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 5.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.9 | | 70 (74) - 130 (125) | 100% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.8 | | 70 (75) - 130 (124) | 106% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.0 | | 70 (86) - 130 (113) | 102% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.9 | | 70 (77) - 130 (121) | 102% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 221000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 429000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 389000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 163000 | 13.794 | | | |

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

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

Raw Data: **VN086856.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-05 | Matrix: | TCLP |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | SW5035 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN086856.D | 1 | | 06/03/25 20:36 | VN060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 10.3 | J | 0.98 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 5.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.7 | | 70 (74) - 130 (125) | 101% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.1 | | 70 (75) - 130 (124) | 106% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.2 | | 70 (86) - 130 (113) | 104% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 53.2 | | 70 (77) - 130 (121) | 106% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 221000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 428000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 405000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 181000 | 13.794 | | | |

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

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

Raw Data: **VN086857.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-07 | Matrix: | TCLP |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | SW5035 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN086857.D | 1 | | 06/03/25 21:00 | VN060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 5.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 51.5 | | 70 (74) - 130 (125) | 103% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.2 | | 70 (75) - 130 (124) | 106% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.0 | | 70 (86) - 130 (113) | 104% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 54.6 | | 70 (77) - 130 (121) | 109% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 215000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 418000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 403000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 184000 | 13.788 | | | |

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

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

# QC SUMMARY

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# Surrogate Summary

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| Q2177-03 | B-187-SB01 | 1,2-Dichloroethane-d4 | 50 | 49.9 | 100 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 52.8 | 106 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 51.0 | 102 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 50.9 | 102 | 70 (77) | 130 (121) |
| Q2177-05 | B-187-SB02 | 1,2-Dichloroethane-d4 | 50 | 50.7 | 101 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 53.1 | 106 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 52.2 | 104 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 53.3 | 106 | 70 (77) | 130 (121) |
| Q2177-07 | B-202-SB01 | 1,2-Dichloroethane-d4 | 50 | 51.5 | 103 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 53.2 | 106 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 52.0 | 104 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 54.6 | 109 | 70 (77) | 130 (121) |
| VN0603WBL01 | VN0603WBL01 | 1,2-Dichloroethane-d4 | 50 | 46.6 | 93 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 51.3 | 103 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 51.3 | 103 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 52.9 | 106 | 70 (77) | 130 (121) |
| VN0603WBS01 | VN0603WBS01 | 1,2-Dichloroethane-d4 | 50 | 45.7 | 91 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 49.5 | 99 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 47.6 | 95 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 47.3 | 95 | 70 (77) | 130 (121) |
| VN0603WBSD0 | VN0603WBSD01 | 1,2-Dichloroethane-d4 | 50 | 46.4 | 93 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 50.0 | 100 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 47.0 | 94 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 46.9 | 94 | 70 (77) | 130 (121) |

( ) = LABORATORY INHOUSE LIMIT

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260D **Datafile :** VN086837.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN0603WBS01 | Vinyl chloride | 20 | 16.7 | ug/L | 84 | | | 70 (65) | 130 (117) | |
| | 1,1-Dichloroethene | 20 | 18.5 | ug/L | 93 | | | 70 (74) | 130 (110) | |
| | 2-Butanone | 100 | 94.0 | ug/L | 94 | | | 40 (65) | 160 (122) | |
| | Carbon Tetrachloride | 20 | 18.8 | ug/L | 94 | | | 70 (77) | 130 (113) | |
| | Chloroform | 20 | 18.3 | ug/L | 92 | | | 70 (79) | 130 (113) | |
| | Benzene | 20 | 19.2 | ug/L | 96 | | | 70 (82) | 130 (109) | |
| | 1,2-Dichloroethane | 20 | 18.3 | ug/L | 92 | | | 70 (80) | 130 (115) | |
| | Trichloroethene | 20 | 18.5 | ug/L | 93 | | | 70 (77) | 130 (113) | |
| | Tetrachloroethene | 20 | 15.8 | ug/L | 79 | | | 70 (67) | 130 (123) | |
| | Chlorobenzene | 20 | 19.5 | ug/L | 98 | | | 70 (82) | 130 (109) | |

( ) = LABORATORY INHOUSE LIMIT

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8260D **Datafile :** VN086838.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN0603WBSD01 | Vinyl chloride | 20 | 16.1 | ug/L | 81 | 4 | | 70 (65) | 130 (117) | 20 (20) |
| | 1,1-Dichloroethene | 20 | 17.9 | ug/L | 90 | 3 | | 70 (74) | 130 (110) | 20 (20) |
| | 2-Butanone | 100 | 94.6 | ug/L | 95 | 1 | | 40 (65) | 160 (122) | 20 (20) |
| | Carbon Tetrachloride | 20 | 18.5 | ug/L | 93 | 1 | | 70 (77) | 130 (113) | 20 (20) |
| | Chloroform | 20 | 18.2 | ug/L | 91 | 1 | | 70 (79) | 130 (113) | 20 (20) |
| | Benzene | 20 | 18.8 | ug/L | 94 | 2 | | 70 (82) | 130 (109) | 20 (20) |
| | 1,2-Dichloroethane | 20 | 18.3 | ug/L | 92 | 0 | | 70 (80) | 130 (115) | 20 (20) |
| | Trichloroethene | 20 | 17.9 | ug/L | 90 | 3 | | 70 (77) | 130 (113) | 20 (20) |
| | Tetrachloroethene | 20 | 15.4 | ug/L | 77 | 3 | | 70 (67) | 130 (123) | 20 (20) |
| | Chlorobenzene | 20 | 19.4 | ug/L | 97 | 1 | | 70 (82) | 130 (109) | 20 (20) |

( ) = LABORATORY INHOUSE LIMIT

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0603WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VN086836.D Lab Sample ID: VN0603WBL01

Date Analyzed: 06/03/2025 Time Analyzed: 12:10

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

Instrument ID: MSVOA_N

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VN0603WBS01 | VN0603WBS01 | VN086837.D | 06/03/2025 |
| VN0603WBSD01 | VN0603WBSD01 | VN086838.D | 06/03/2025 |
| B-187-SB01 | Q2177-03 | VN086855.D | 06/03/2025 |
| B-187-SB02 | Q2177-05 | VN086856.D | 06/03/2025 |
| B-202-SB01 | Q2177-07 | VN086857.D | 06/03/2025 |

COMMENTS:

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

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VN086668.D BFB Injection Date: 05/16/2025

Instrument ID: MSVOA_N BFB Injection Time: 15:33

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 17.9 |
| 75 | 30.0 - 60.0% of mass 95 | 50 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 |
| 173 | Less than 2.0% of mass 174 | 0.7 ( 0.9 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 74.9 |
| 175 | 5.0 - 9.0% of mass 174 | 5.7 ( 7.6 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 73.6 ( 98.2 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.5 ( 6.1 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC001 | VSTDICC001 | VN086669.D | 05/16/2025 | 16:31 |
| VSTDICC005 | VSTDICC005 | VN086670.D | 05/16/2025 | 16:55 |
| VSTDICC010 | VSTDICC010 | VN086671.D | 05/16/2025 | 17:19 |
| VSTDICC020 | VSTDICC020 | VN086672.D | 05/16/2025 | 17:43 |
| VSTDICCC050 | VSTDICCC050 | VN086673.D | 05/16/2025 | 18:08 |
| VSTDICC100 | VSTDICC100 | VN086674.D | 05/16/2025 | 18:32 |

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

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VN086834.D BFB Injection Date: 06/03/2025

Instrument ID: MSVOA_N BFB Injection Time: 10:47

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 16.8 |
| 75 | 30.0 - 60.0% of mass 95 | 47.6 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 |
| 173 | Less than 2.0% of mass 174 | 0.6 ( 0.9 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 69.9 |
| 175 | 5.0 - 9.0% of mass 174 | 5.5 ( 7.9 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 68.3 ( 97.6 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.3 ( 6.2 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VN086835.D | 06/03/2025 | 11:30 |
| VN0603WBL01 | VN0603WBL01 | VN086836.D | 06/03/2025 | 12:10 |
| VN0603WBS01 | VN0603WBS01 | VN086837.D | 06/03/2025 | 12:46 |
| VN0603WBSD01 | VN0603WBSD01 | VN086838.D | 06/03/2025 | 13:20 |
| B-187-SB01 | Q2177-03 | VN086855.D | 06/03/2025 | 20:12 |
| B-187-SB02 | Q2177-05 | VN086856.D | 06/03/2025 | 20:36 |
| B-202-SB01 | Q2177-07 | VN086857.D | 06/03/2025 | 21:00 |

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VN086835.D Date Analyzed: 06/03/2025

Instrument ID: MSVOA_N Time Analyzed: 11:30

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

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 307948 | 8.22 | 547716 | 9.09 | 465701 | 11.87 |
| UPPER LIMIT | 615896 | 8.718 | 1095430 | 9.594 | 931402 | 12.365 |
| LOWER LIMIT | 153974 | 7.718 | 273858 | 8.594 | 232851 | 11.365 |
| EPA SAMPLE NO. | | | | | | |
| B-187-SB01 | 220507 | 8.22 | 428516 | 9.10 | 389120 | 11.87 |
| B-187-SB02 | 221135 | 8.22 | 428494 | 9.10 | 404884 | 11.87 |
| B-202-SB01 | 214739 | 8.22 | 418395 | 9.10 | 402557 | 11.87 |
| VN0603WBL01 | 257056 | 8.22 | 493879 | 9.09 | 460882 | 11.87 |
| VN0603WBS01 | 311874 | 8.22 | 552803 | 9.09 | 467842 | 11.87 |
| VN0603WBSD01 | 283988 | 8.22 | 510275 | 9.09 | 430553 | 11.87 |

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VN086835.D Date Analyzed: 06/03/2025

Instrument ID: MSVOA_N Time Analyzed: 11:30

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 208517 | 13.788 | | | | |
| UPPER LIMIT | 417034 | 14.288 | | | | |
| LOWER LIMIT | 104259 | 13.288 | | | | |
| EPA SAMPLE NO. | | | | | | |
| B-187-SB01 | 163382 | 13.79 | | | | |
| B-187-SB02 | 181011 | 13.79 | | | | |
| B-202-SB01 | 183854 | 13.79 | | | | |
| VN0603WBL01 | 202290 | 13.79 | | | | |
| VN0603WBS01 | 208414 | 13.79 | | | | |
| VN0603WBSD01 | 192303 | 13.79 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

# QC SAMPLE DATA

Raw Data: **VN086836.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0603WBL01 | SDG No.: | Q2177 |
| Lab Sample ID: | VN0603WBL01 | Matrix: | TCLP |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN086836.D | 1 | | 06/03/25 12:10 | VN060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 5.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 46.6 | | 70 (74) - 130 (125) | 93% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.3 | | 70 (75) - 130 (124) | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.3 | | 70 (86) - 130 (113) | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.8 | | 70 (77) - 130 (121) | 106% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 257000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 494000 | 9.094 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 461000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 202000 | 13.788 | | | |

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

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: **VN086837.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0603WBS01 | SDG No.: | Q2177 |
| Lab Sample ID: | VN0603WBS01 | Matrix: | TCLP |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN086837.D | 1 | | 06/03/25 12:46 | VN060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 16.7 | | 0.26 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 18.5 | | 0.23 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 94.0 | | 0.98 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 18.8 | | 0.25 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 18.3 | | 0.25 | 5.00 | ug/L |
| 71-43-2 | Benzene | 19.2 | | 0.15 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 18.3 | | 0.22 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 18.5 | | 0.090 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 15.8 | | 0.23 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 19.5 | | 0.12 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 45.7 | | 70 (74) - 130 (125) | 91% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.5 | | 70 (75) - 130 (124) | 99% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.6 | | 70 (86) - 130 (113) | 95% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.3 | | 70 (77) - 130 (121) | 95% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 312000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 553000 | 9.094 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 468000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 208000 | 13.788 | | | |

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

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: **VN086838.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | VN0603WBSD01 | SDG No.: | Q2177 |
| Lab Sample ID: | VN0603WBSD01 | Matrix: | TCLP |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN086838.D | 1 | | 06/03/25 13:20 | VN060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 16.1 | | 0.26 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 17.9 | | 0.23 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 94.6 | | 0.98 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 18.5 | | 0.25 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 18.2 | | 0.25 | 5.00 | ug/L |
| 71-43-2 | Benzene | 18.8 | | 0.15 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 18.3 | | 0.22 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 17.9 | | 0.090 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 15.4 | | 0.23 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 19.4 | | 0.12 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 46.4 | | 70 (74) - 130 (125) | 93% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.0 | | 70 (75) - 130 (124) | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.0 | | 70 (86) - 130 (113) | 94% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.9 | | 70 (77) - 130 (121) | 94% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 284000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 510000 | 9.094 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 431000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 192000 | 13.788 | | | |

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

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

# CALIBRATION SUMMARY

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: MSVOA_N Calibration Date(s): 05/16/2025 05/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 16:31 18:32

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

LAB FILE ID: RRF001 = VN086669.D RRF005 = VN086670.D RRF010 = VN086671.D
RRF020 = VN086672.D RRF050 = VN086673.D RRF100 = VN086674.D

| COMPOUND | RRF001 | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.655 | 0.708 | 0.780 | 0.713 | 0.753 | 0.792 | 0.733 | 7 |
| 1,1-Dichloroethene | 0.531 | 0.563 | 0.563 | 0.557 | 0.548 | 0.583 | 0.558 | 3.1 |
| 2-Butanone | 0.361 | 0.404 | 0.398 | 0.414 | 0.402 | 0.418 | 0.399 | 5.1 |
| Carbon Tetrachloride | 0.384 | 0.438 | 0.430 | 0.460 | 0.430 | 0.454 | 0.433 | 6.2 |
| Chloroform | 1.061 | 1.146 | 1.109 | 1.173 | 1.093 | 1.133 | 1.119 | 3.5 |
| Benzene | 1.348 | 1.429 | 1.447 | 1.484 | 1.402 | 1.487 | 1.433 | 3.7 |
| 1,2-Dichloroethane | 0.413 | 0.457 | 0.451 | 0.467 | 0.438 | 0.452 | 0.446 | 4.2 |
| Trichloroethene | 0.306 | 0.341 | 0.358 | 0.361 | 0.343 | 0.365 | 0.346 | 6.3 |
| Tetrachloroethene | 0.357 | 0.396 | 0.392 | 0.392 | 0.369 | 0.392 | 0.383 | 4.2 |
| Chlorobenzene | 1.030 | 1.112 | 1.109 | 1.138 | 1.060 | 1.130 | 1.096 | 3.9 |
| 1,2-Dichloroethane-d4 | | 0.718 | 0.658 | 0.687 | 0.693 | 0.698 | 0.691 | 3.2 |
| Dibromofluoromethane | | 0.300 | 0.289 | 0.291 | 0.298 | 0.311 | 0.298 | 3 |
| Toluene-d8 | | 1.203 | 1.159 | 1.233 | 1.250 | 1.325 | 1.234 | 5 |
| 4-Bromofluorobenzene | | 0.412 | 0.403 | 0.433 | 0.450 | 0.481 | 0.436 | 7.2 |

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

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: MSVOA_N Calibration Date/Time: 06/03/2025 11:30

Lab File ID: VN086835.D Init. Calib. Date(s): 05/16/2025 05/16/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 16:31 18:32

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Vinyl Chloride | 0.733 | 0.619 | | -15.55 | 20 |
| 1,1-Dichloroethene | 0.558 | 0.513 | | -8.06 | 20 |
| 2-Butanone | 0.399 | 0.374 | | -6.27 | 20 |
| Carbon Tetrachloride | 0.433 | 0.409 | | -5.54 | 20 |
| Chloroform | 1.119 | 1.032 | | -7.78 | 20 |
| Benzene | 1.433 | 1.362 | | -4.95 | 20 |
| 1,2-Dichloroethane | 0.446 | 0.408 | | -8.52 | 20 |
| Trichloroethene | 0.346 | 0.320 | | -7.51 | 20 |
| Tetrachloroethene | 0.383 | 0.305 | | -20.37 | 20 |
| Chlorobenzene | 1.096 | 1.058 | 0.3 | -3.47 | 20 |
| 1,2-Dichloroethane-d4 | 0.691 | 0.613 | | -11.29 | 20 |
| Dibromofluoromethane | 0.298 | 0.292 | | -2.01 | 20 |
| Toluene-d8 | 1.234 | 1.163 | | -5.75 | 20 |
| 4-Bromofluorobenzene | 0.436 | 0.409 | | -6.19 | 20 |

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

# SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086855.D
Acq On : 03 Jun 2025 20:12
Operator : JC\MD
Sample : Q2177-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB01

Quant Time: Jun 04 02:06:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

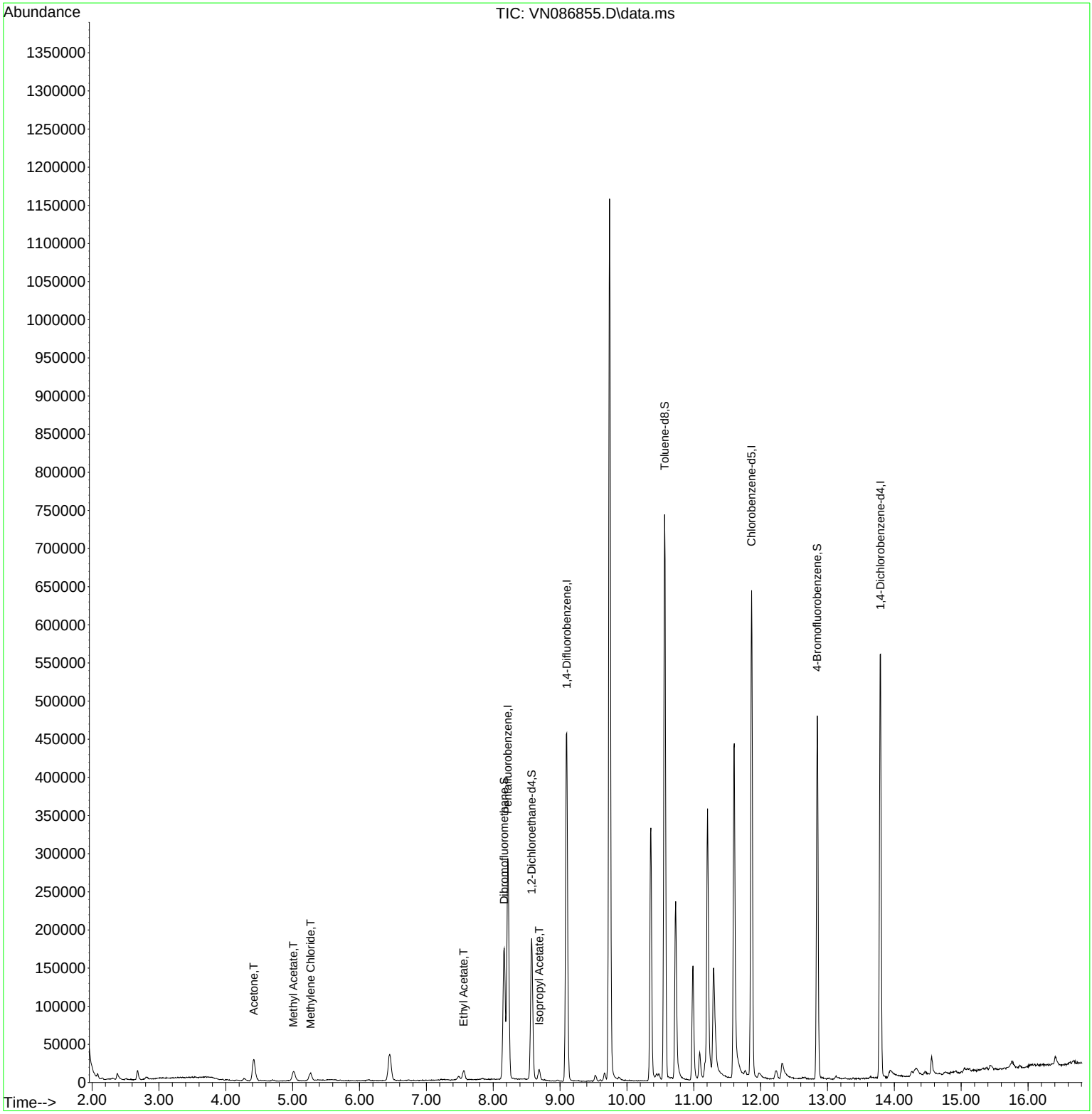
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 220507 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 428516 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 389120 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.794 | 152 | 163382 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 152038 | 49.898 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 99.800% | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 134789 | 52.817 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 105.640% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 539671 | 51.030 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 102.060% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 190230 | 50.943 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 101.880% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 4.418 | 43 | 55936 | 49.076 | ug/l | 98 |
| 18) Methyl Acetate | 5.012 | 43 | 28263 | 8.860 | ug/l | 99 |
| 20) Methylene Chloride | 5.271 | 84 | 8493 | 2.824 | ug/l | 95 |
| 37) Ethyl Acetate | 7.559 | 43 | 18707 | 4.920 | ug/l | 98 |
| 43) Isopropyl Acetate | 8.688 | 43 | 15645 | 2.052 | ug/l | 94 |

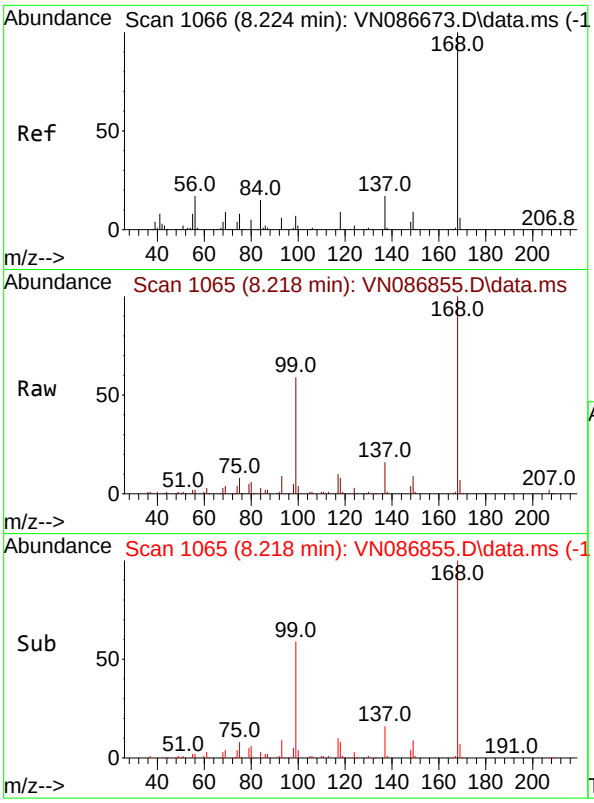
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086855.D
Acq On : 03 Jun 2025 20:12
Operator : JC\MD
Sample : Q2177-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB01

Quant Time: Jun 04 02:06:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration



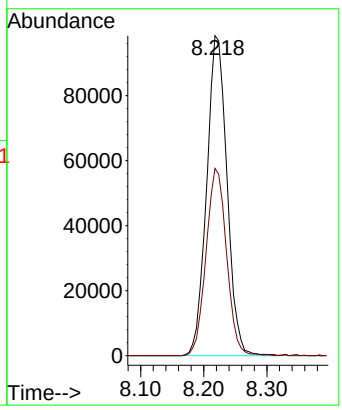


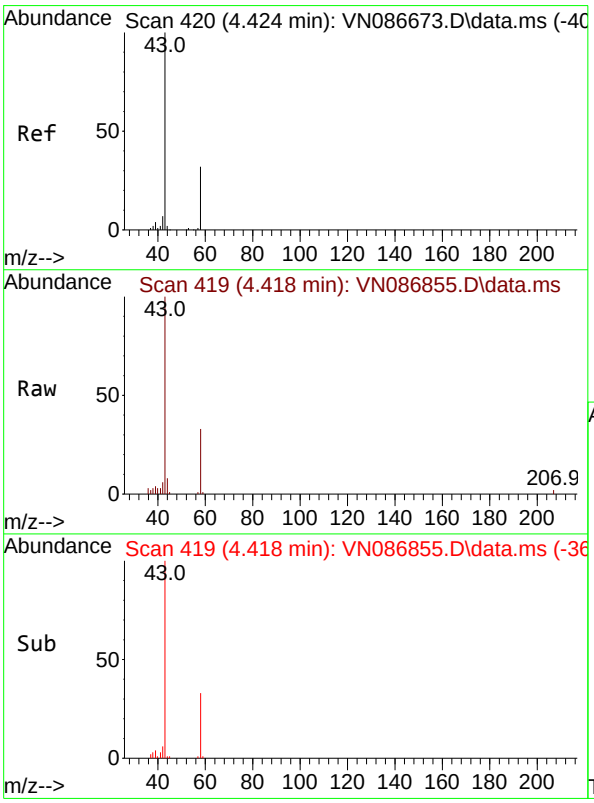

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB01

Tgt Ion:168 Resp: 220507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.5 | 47.0 | 70.4 |

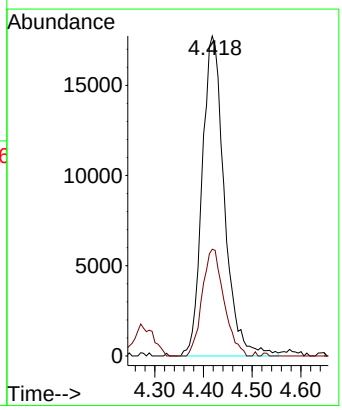


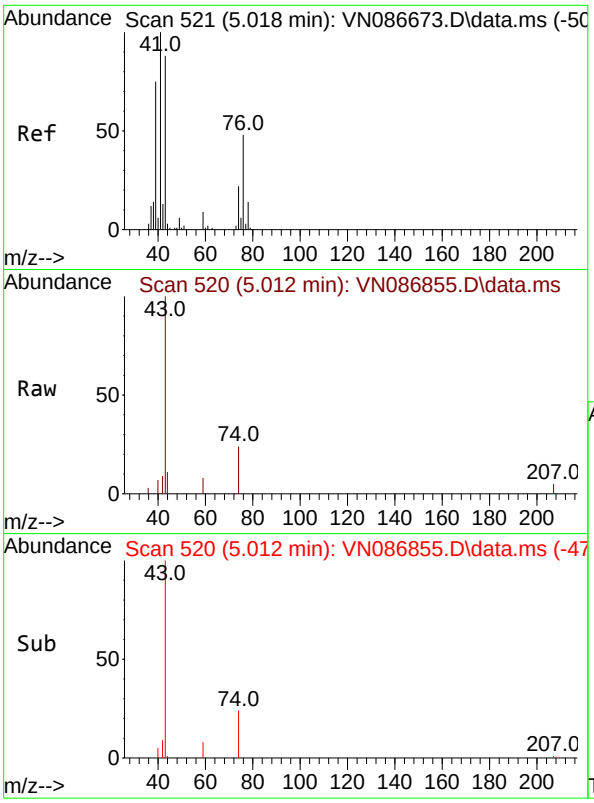




#16
Acetone
Concen: 49.076 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 43 Resp: 55936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.4 | 25.8 | 38.6 |



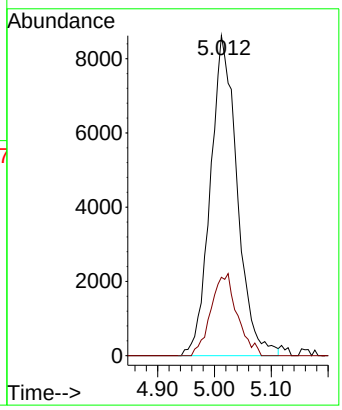


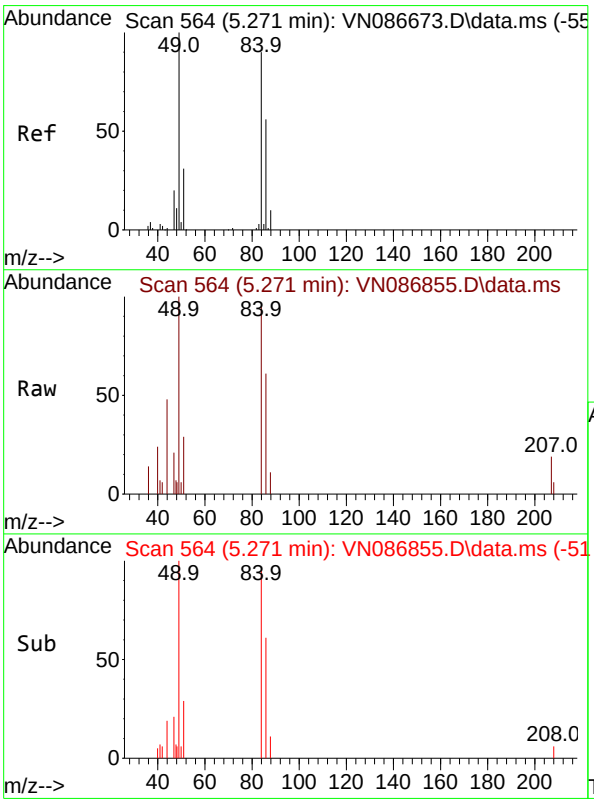

#18
Methyl Acetate
Concen: 8.860 ug/l
RT: 5.012 min Scan# 5
Delta R.T. -0.006 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB01

Tgt Ion: 43 Resp: 28263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.0 | 20.5 | 30.7 |

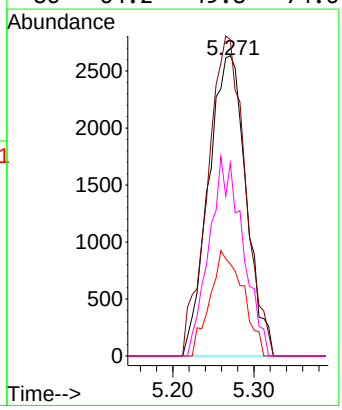


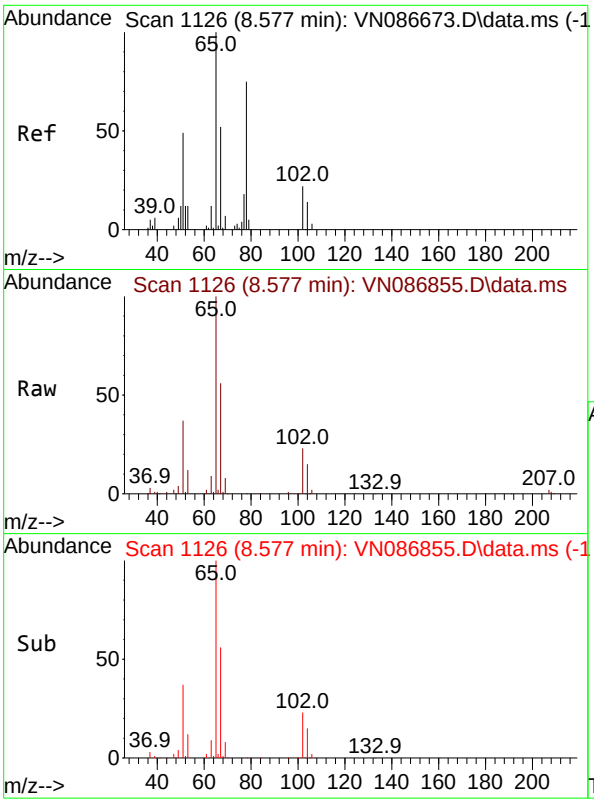




#20
Methylene Chloride
Concen: 2.824 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 84 Resp: 8493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 105.2 | 88.8 | 133.2 |
| 51 | 30.6 | 27.8 | 41.6 |
| 86 | 64.2 | 49.8 | 74.6 |



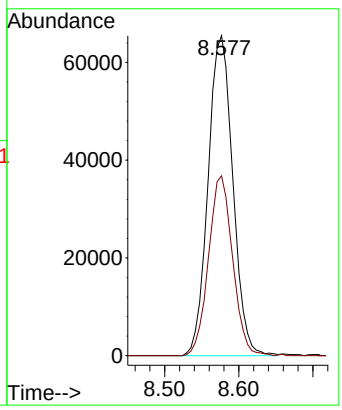


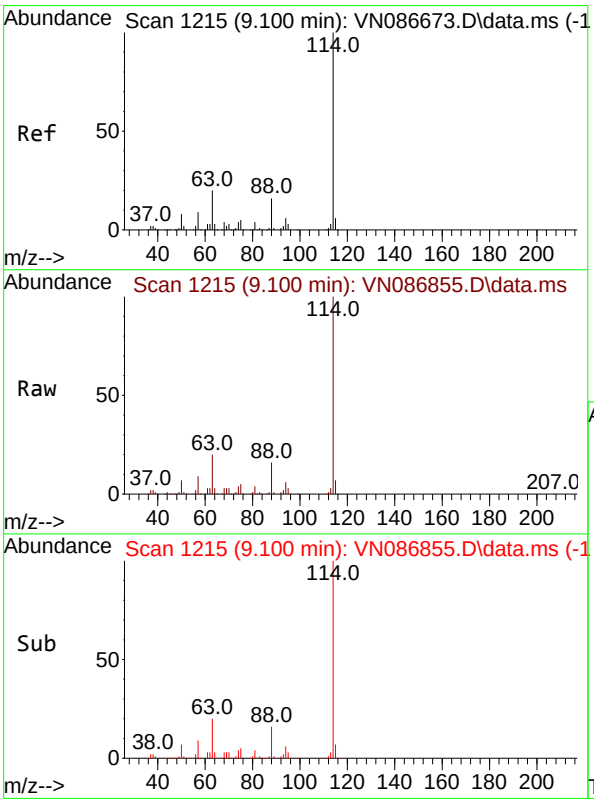

#33
1,2-Dichloroethane-d4
Concen: 49.898 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB01

Tgt Ion: 65 Resp: 152038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.6 | 0.0 | 106.4 |

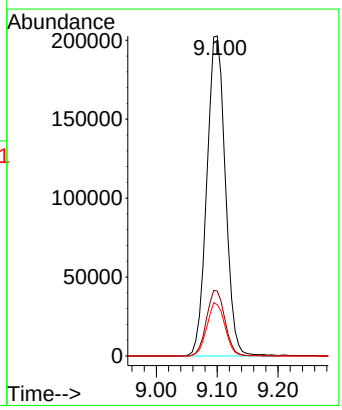


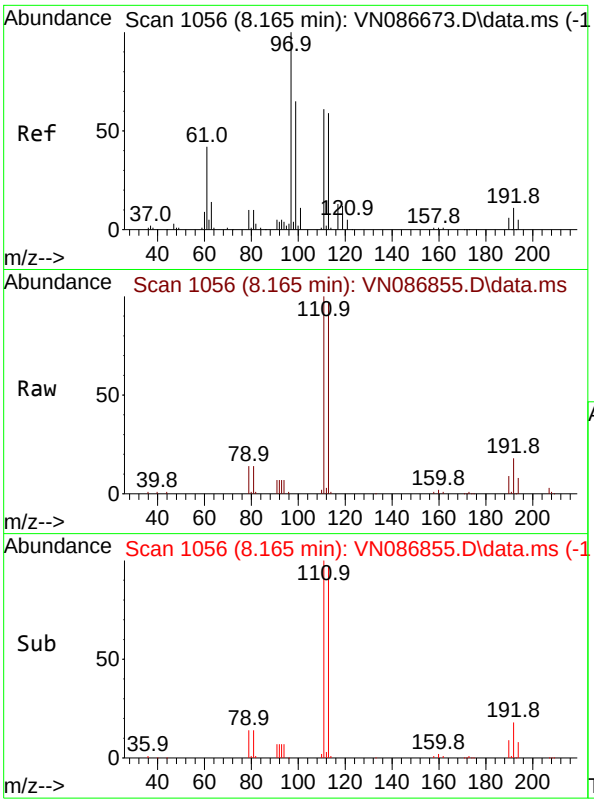




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion:114 Resp: 428516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.3 | 0.0 | 40.2 |
| 88 | 16.0 | 0.0 | 31.2 |



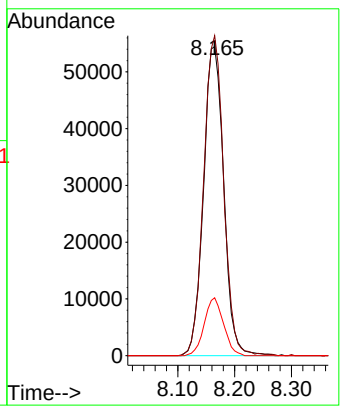


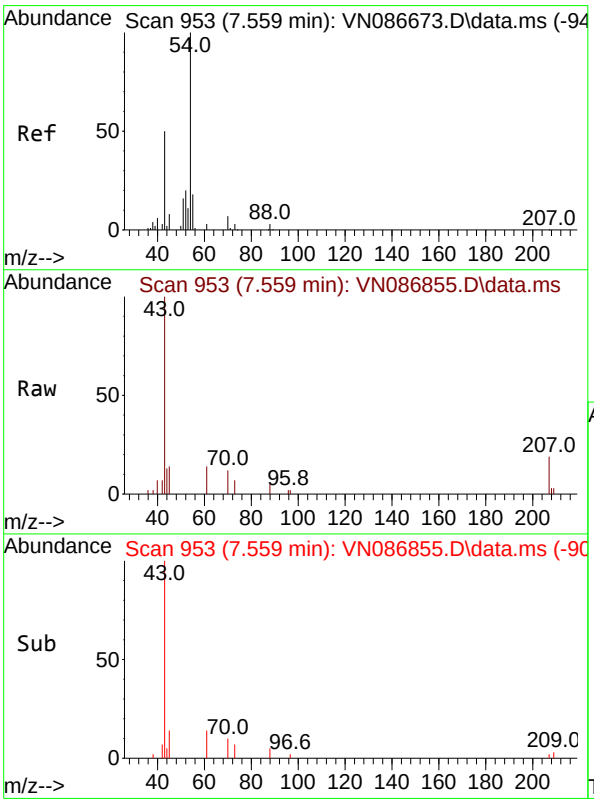

#35
Dibromofluoromethane
Concen: 52.817 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB01

Tgt Ion:113 Resp: 134789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.4 | 82.2 | 123.2 |
| 192 | 17.8 | 13.8 | 20.8 |

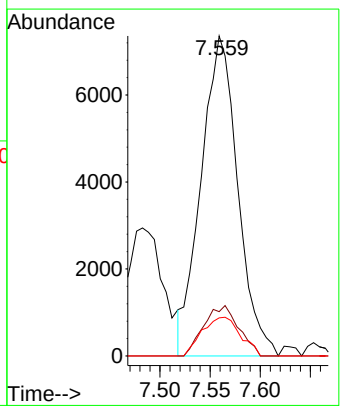


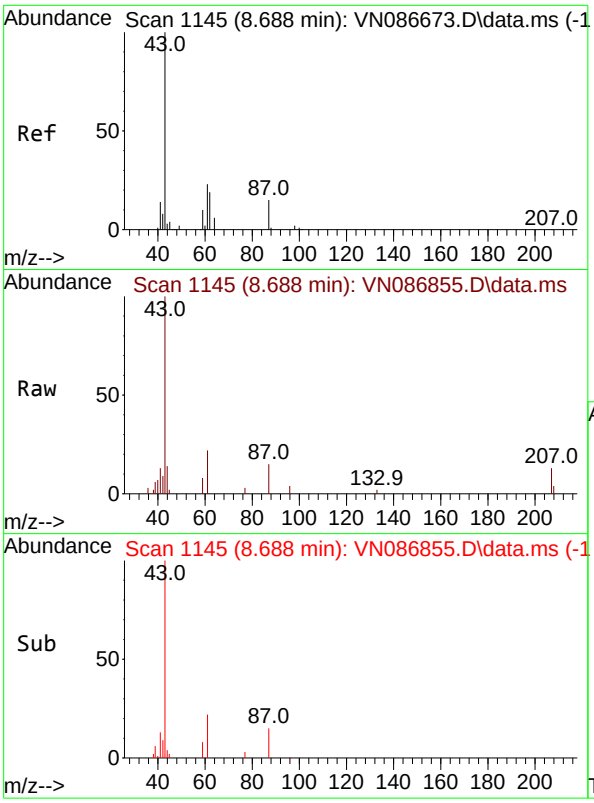




#37
Ethyl Acetate
Concen: 4.920 ug/l
RT: 7.559 min Scan# 953
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 43 Resp: 18707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.0 | 11.6 | 17.4 |
| 70 | 12.6 | 9.4 | 14.0 |



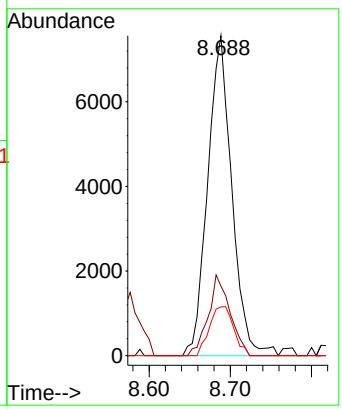


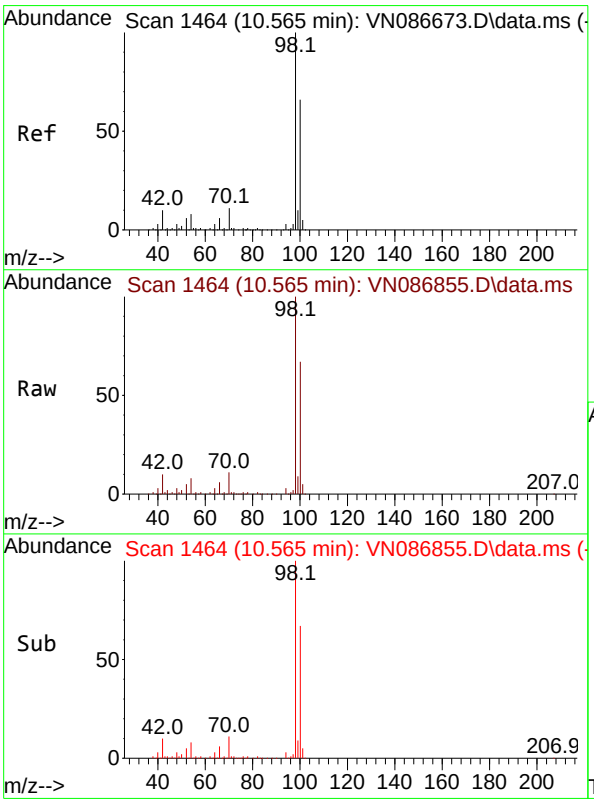

#43
Isopropyl Acetate
Concen: 2.052 ug/l
RT: 8.688 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB01

Tgt Ion: 43 Resp: 15645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.8 | 21.4 | 32.2 |
| 87 | 15.4 | 11.1 | 16.7 |

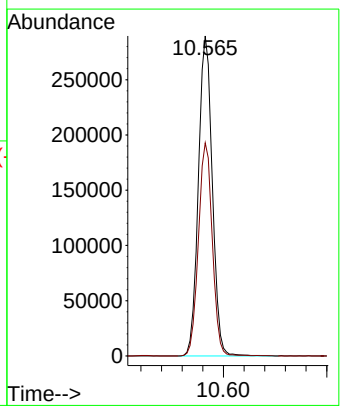


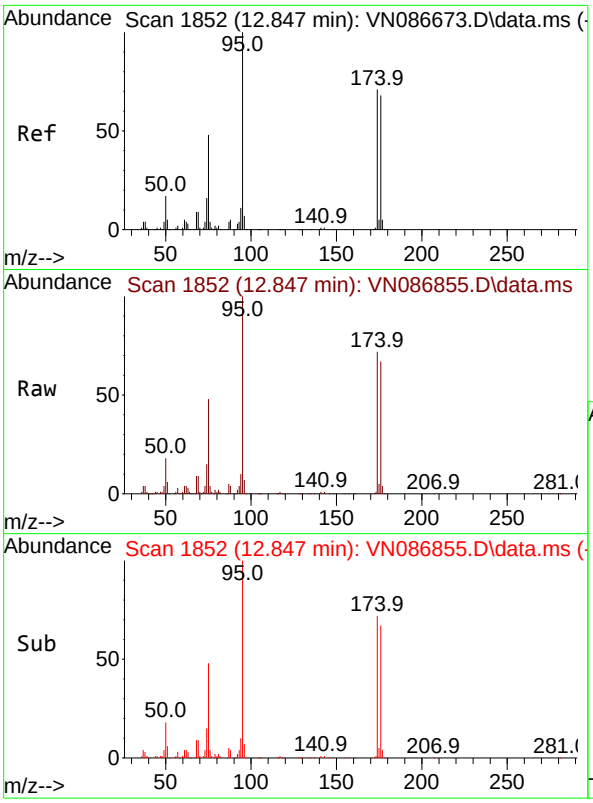




#50
Toluene-d8
Concen: 51.030 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 98 Resp: 539671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.5 | 52.9 | 79.3 |



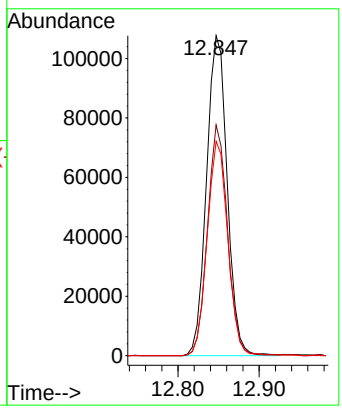


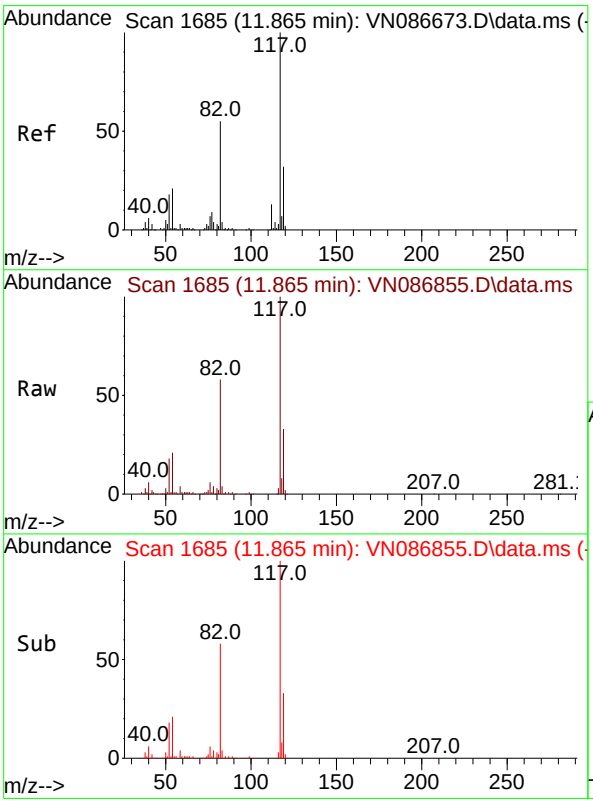

#62
4-Bromofluorobenzene
Concen: 50.943 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB01

Tgt Ion: 95 Resp: 190230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 70.0 | 0.0 | 145.4 |
| 176 | 66.8 | 0.0 | 137.8 |

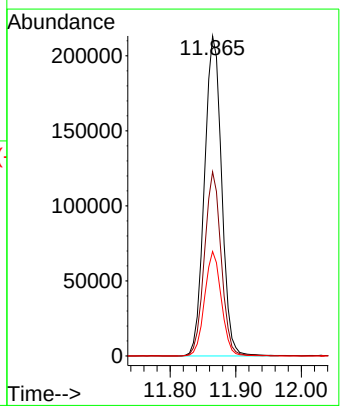


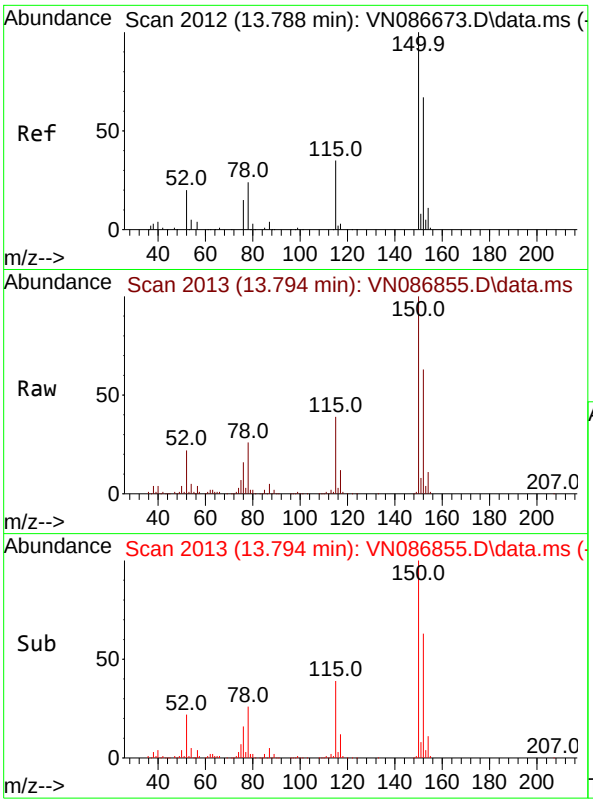




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion:117 Resp: 389120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.5 | 44.2 | 66.2 |
| 119 | 32.6 | 25.4 | 38.2 |



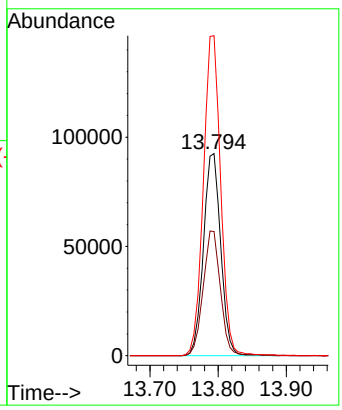



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB01

Tgt Ion:152 Resp: 163382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.6 | 30.0 | 90.1 |
| 150 | 158.5 | 0.0 | 347.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086856.D
Acq On : 03 Jun 2025 20:36
Operator : JC\MD
Sample : Q2177-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB02

Quant Time: Jun 04 03:34:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

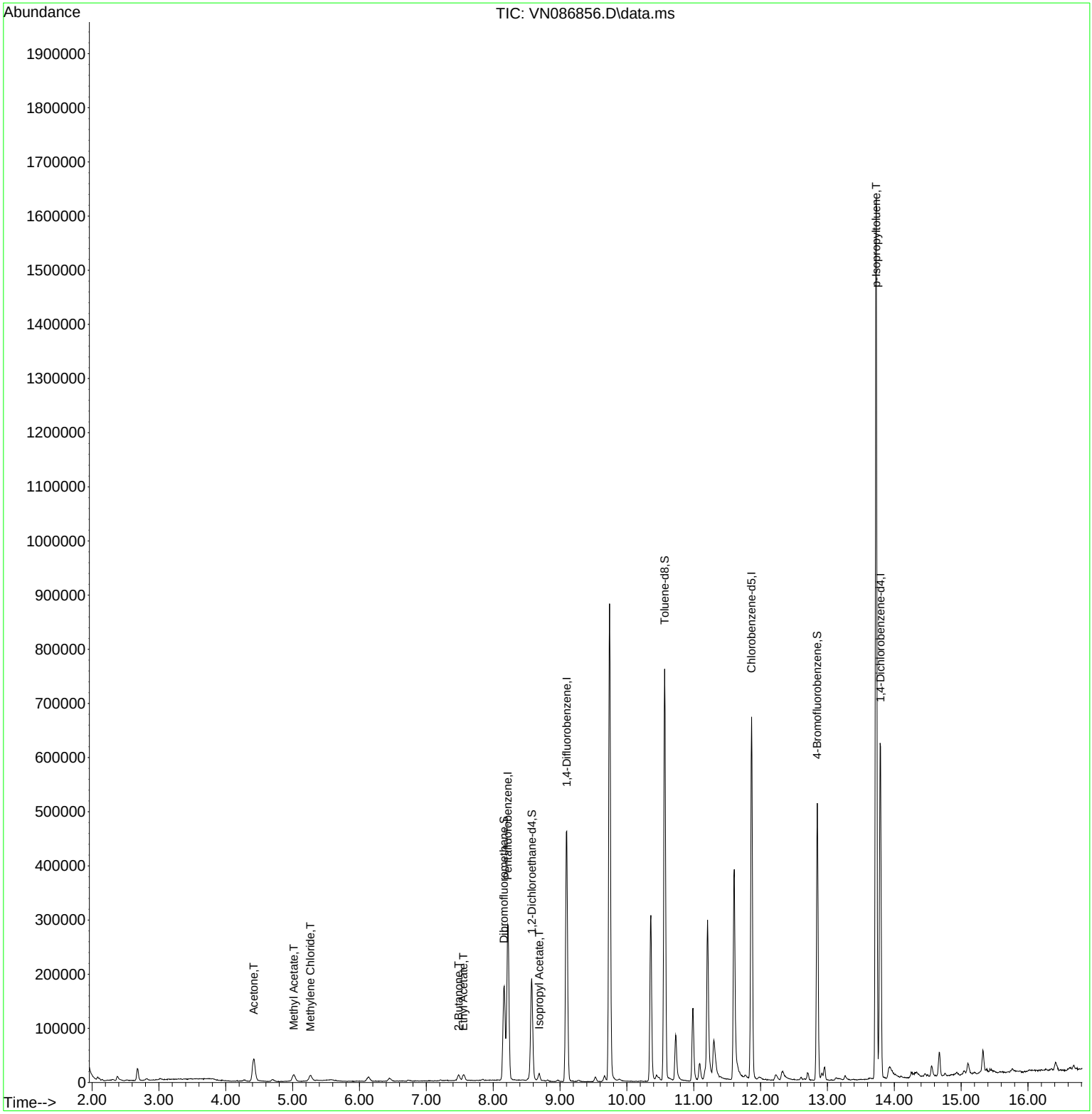
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 221135 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 428494 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 404884 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.794 | 152 | 181011 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 154873 | 50.684 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 101.360% | | | |
| 35) Dibromofluoromethane | 8.159 | 113 | 135623 | 53.147 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 106.300% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 551649 | 52.165 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 104.340% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 198824 | 53.247 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 106.500% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 4.418 | 43 | 81184 | 71.025 | ug/l | 95 |
| 18) Methyl Acetate | 5.018 | 43 | 27122 | 8.478 | ug/l | 98 |
| 20) Methylene Chloride | 5.265 | 84 | 8811 | 2.921 | ug/l | 92 |
| 25) 2-Butanone | 7.483 | 43 | 18128 | 10.263 | ug/l | 97 |
| 37) Ethyl Acetate | 7.553 | 43 | 16457 | 4.328 | ug/l | 98 |
| 43) Isopropyl Acetate | 8.688 | 43 | 13913 | 1.825 | ug/l | 94 |
| 86) p-Isopropyltoluene | 13.729 | 119 | 985932 | 91.836 | ug/l | 100 |

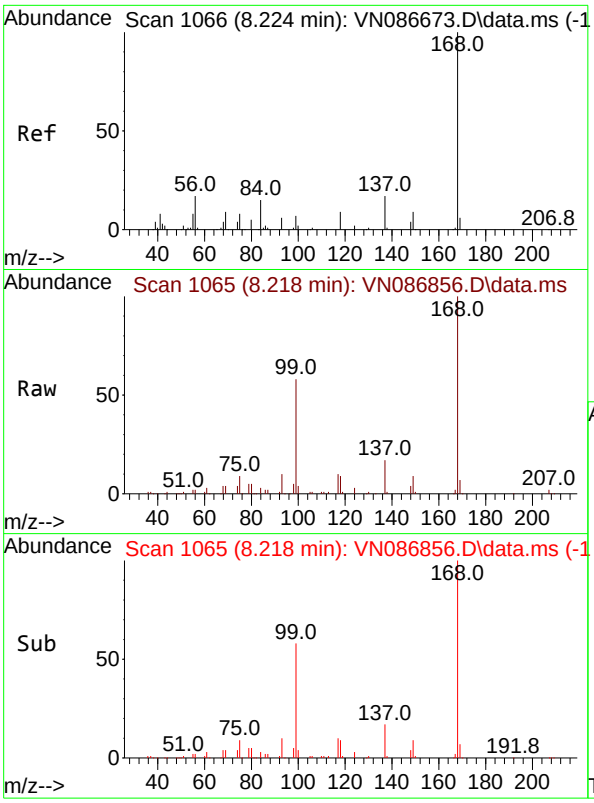
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086856.D
Acq On : 03 Jun 2025 20:36
Operator : JC\MD
Sample : Q2177-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB02

Quant Time: Jun 04 03:34:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration



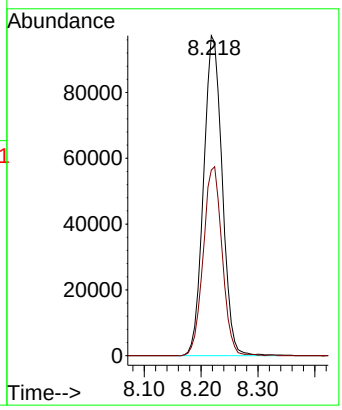


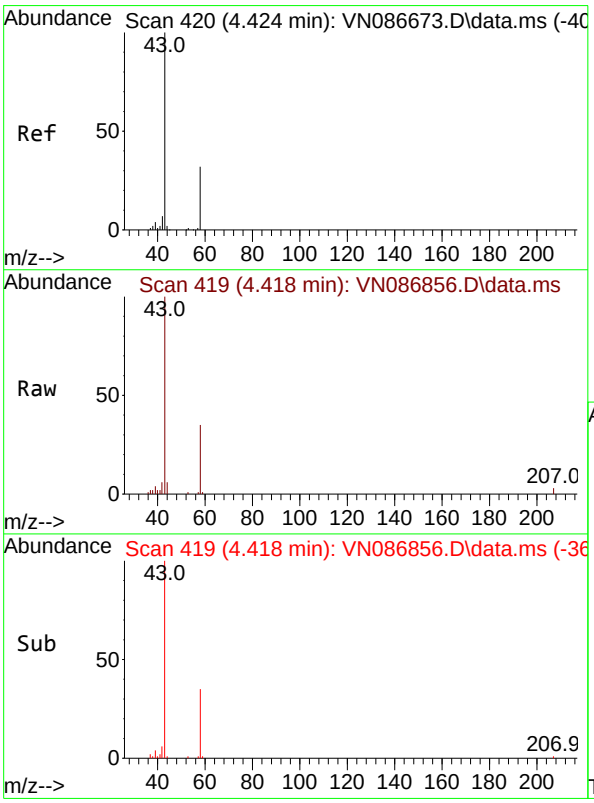

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB02

Tgt Ion:168 Resp: 221135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.0 | 47.0 | 70.4 |

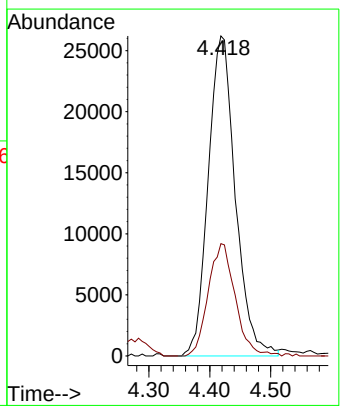


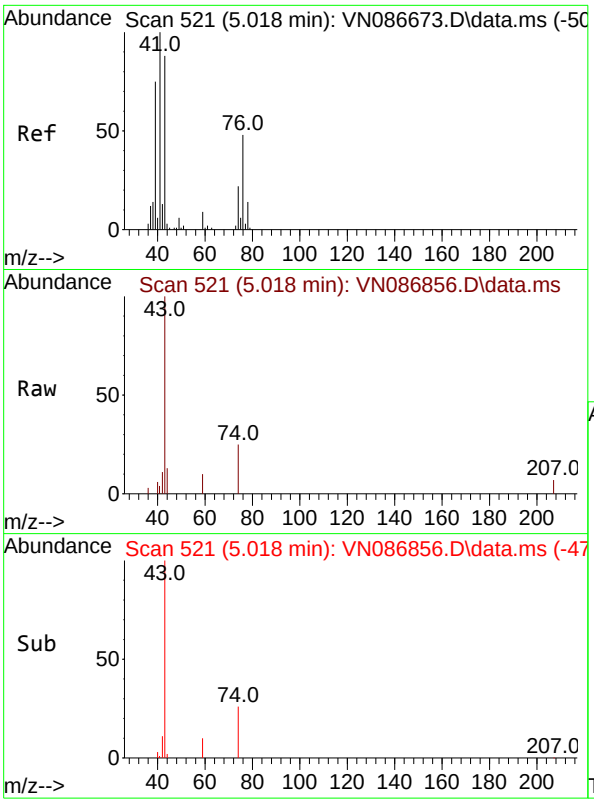




#16
Acetone
Concen: 71.025 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 43 Resp: 81184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.1 | 25.8 | 38.6 |



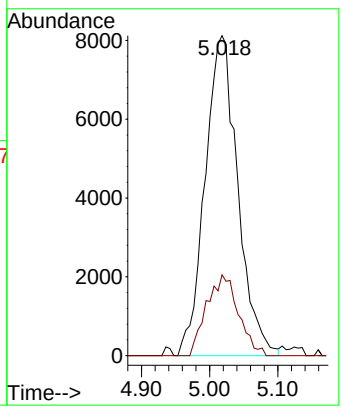


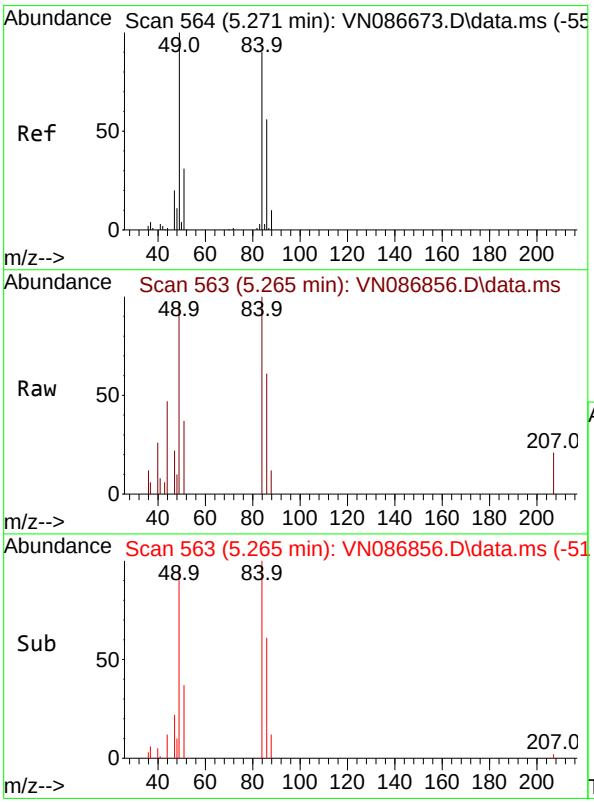

#18
Methyl Acetate
Concen: 8.478 ug/l
RT: 5.018 min Scan# 5
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB02

Tgt Ion: 43 Resp: 27122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.5 | 20.5 | 30.7 |

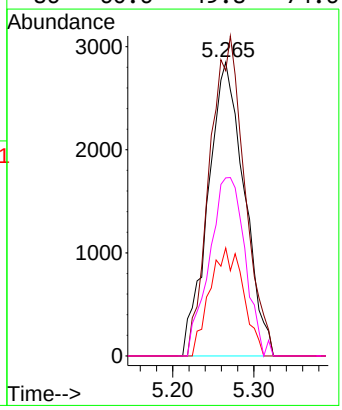


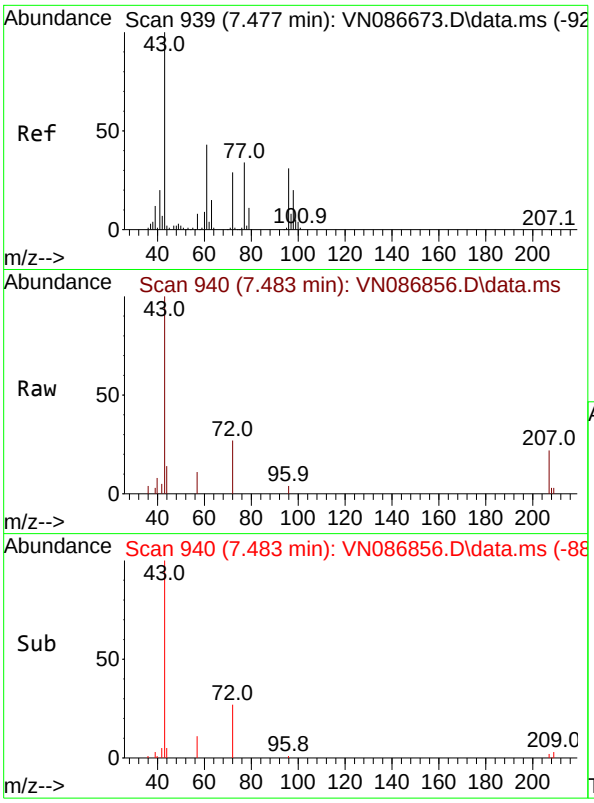




#20
Methylene Chloride
Concen: 2.921 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 84 Resp: 8811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 97.2 | 88.8 | 133.2 |
| 51 | 36.8 | 27.8 | 41.6 |
| 86 | 60.6 | 49.8 | 74.6 |



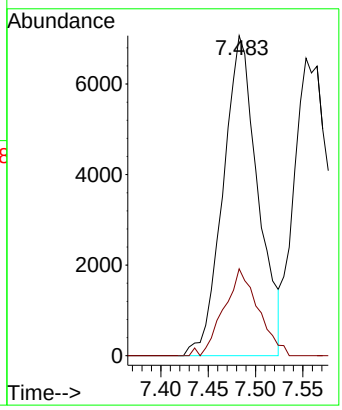


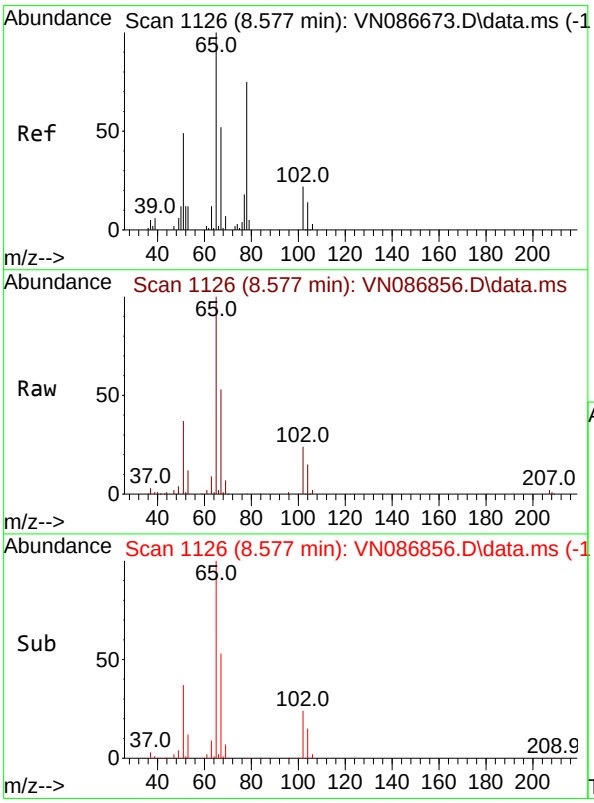

#25
2-Butanone
Concen: 10.263 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB02

Tgt Ion: 43 Resp: 18128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.2 | 23.1 | 34.7 |

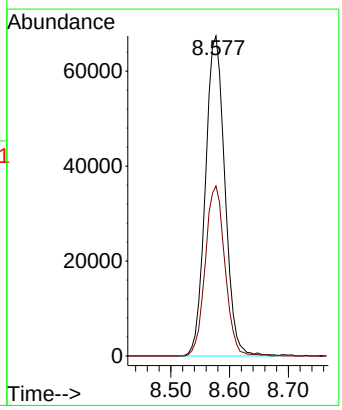


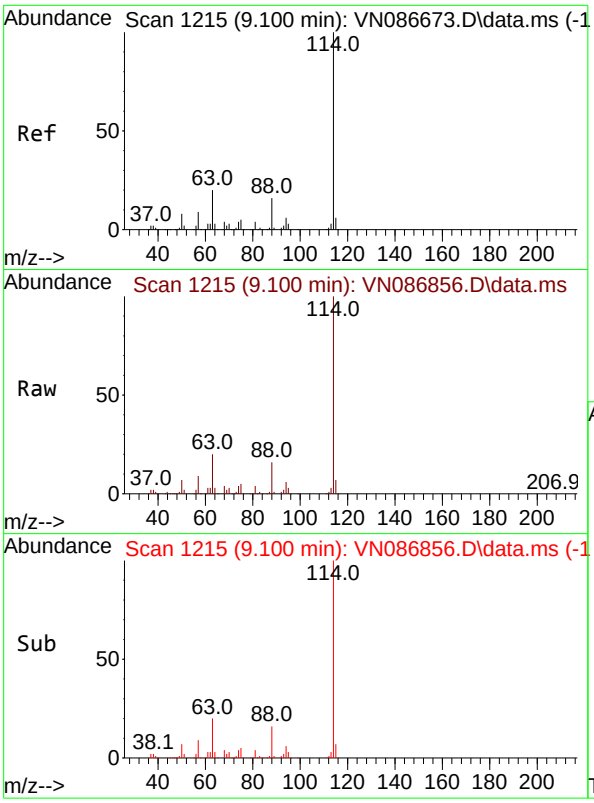




#33
1,2-Dichloroethane-d4
Concen: 50.684 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 65 Resp: 154873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.7 | 0.0 | 106.4 |



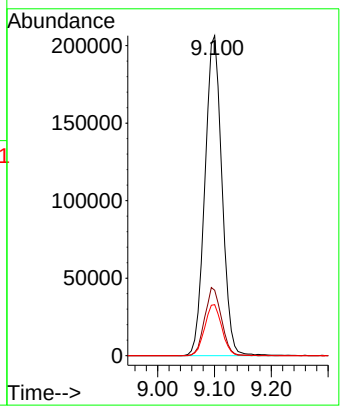


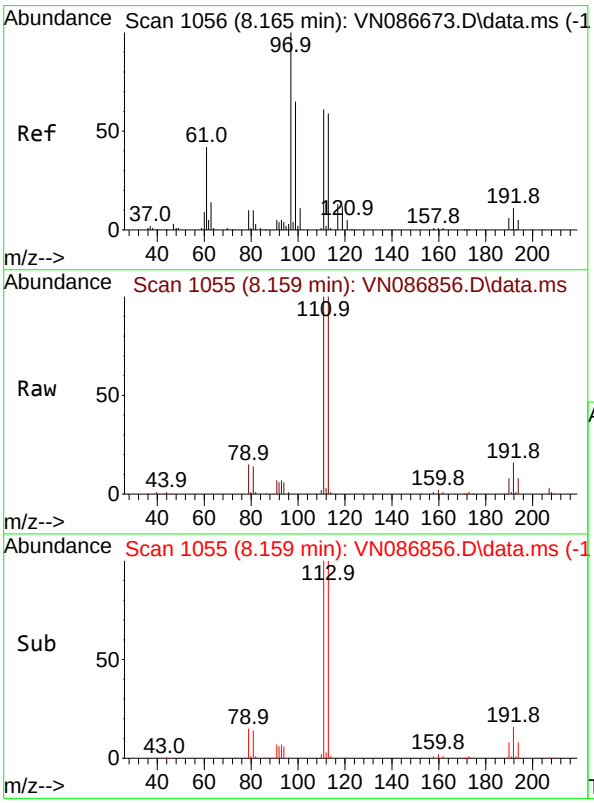

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB02

Tgt Ion:114 Resp: 428494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.4 | 0.0 | 40.2 |
| 88 | 15.9 | 0.0 | 31.2 |

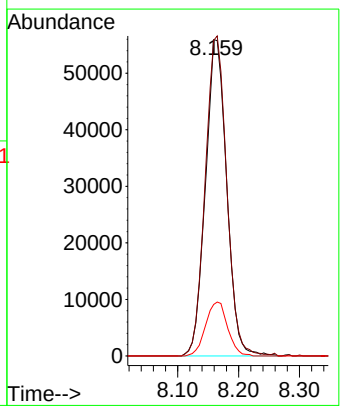


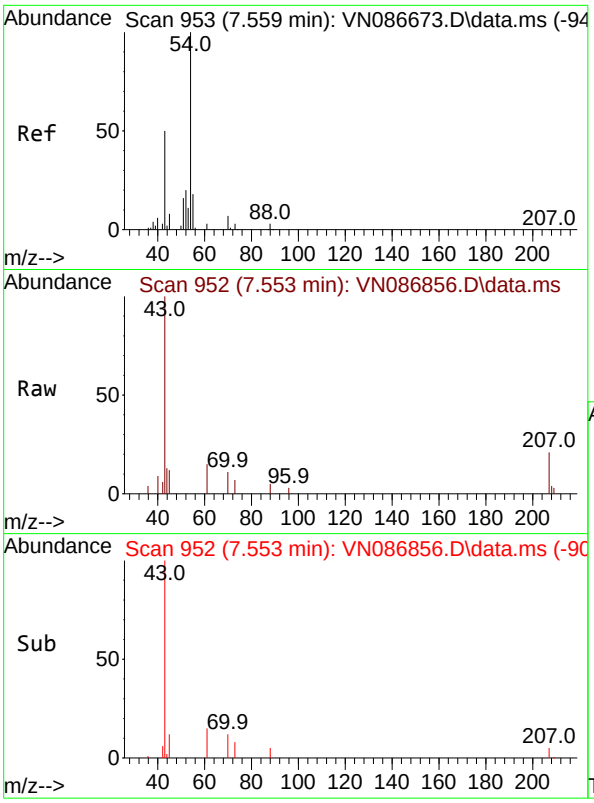




#35
Dibromofluoromethane
Concen: 53.147 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion:113 Resp: 135623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.4 | 82.2 | 123.2 |
| 192 | 17.6 | 13.8 | 20.8 |



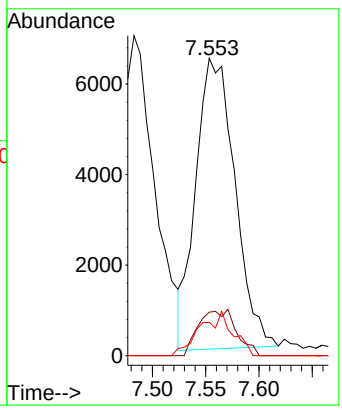


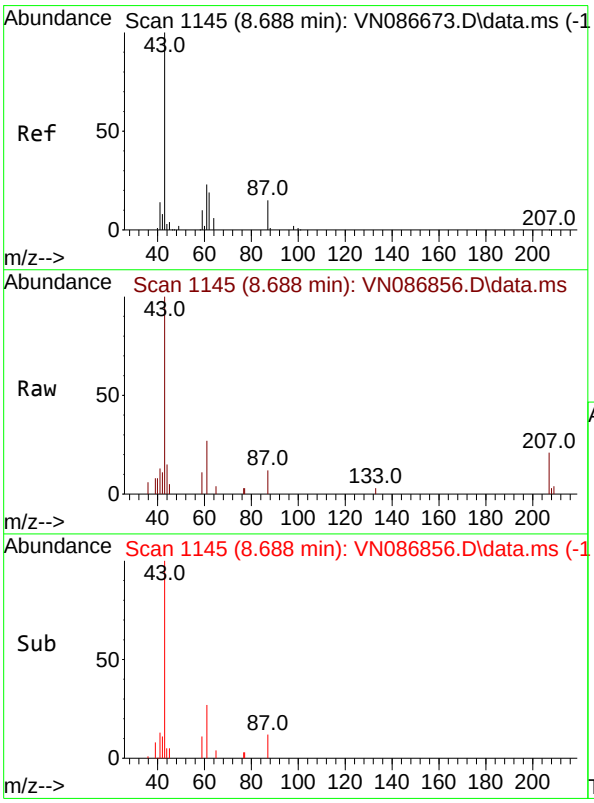

#37
Ethyl Acetate
Concen: 4.328 ug/l
RT: 7.553 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB02

Tgt Ion: 43 Resp: 16457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.1 | 11.6 | 17.4 |
| 70 | 12.8 | 9.4 | 14.0 |

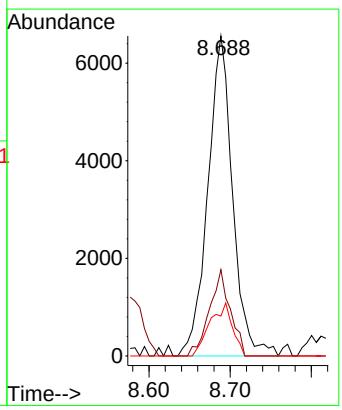


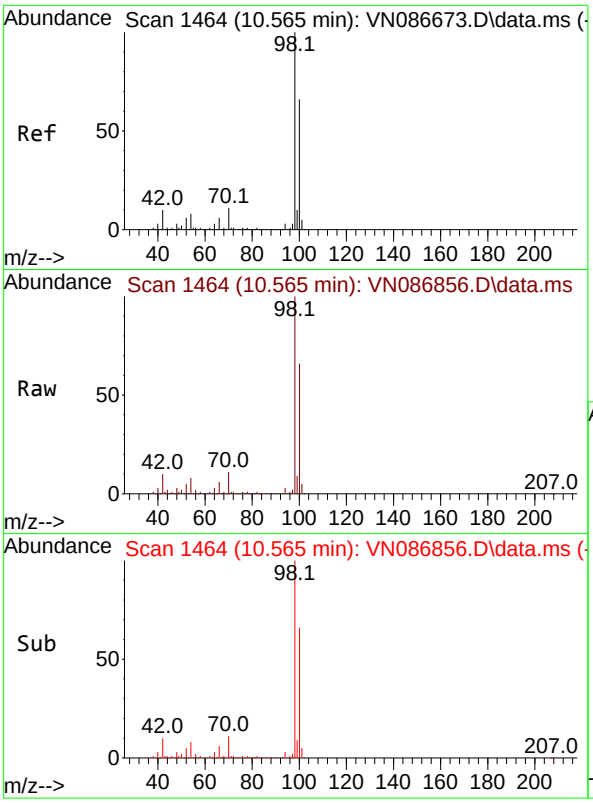




#43
Isopropyl Acetate
Concen: 1.825 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 43 Resp: 13913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.6 | 21.4 | 32.2 |
| 87 | 15.0 | 11.1 | 16.7 |



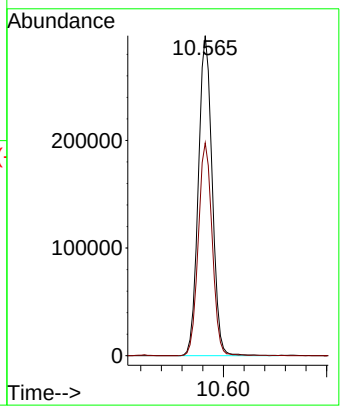


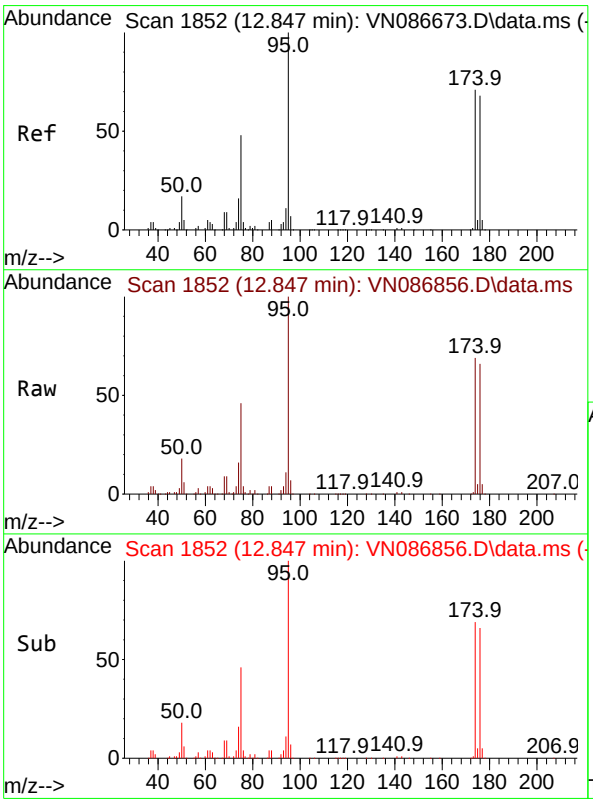

#50
Toluene-d8
Concen: 52.165 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB02

Tgt Ion: 98 Resp: 551649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.7 | 52.9 | 79.3 |

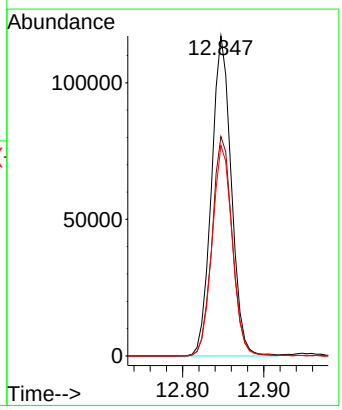


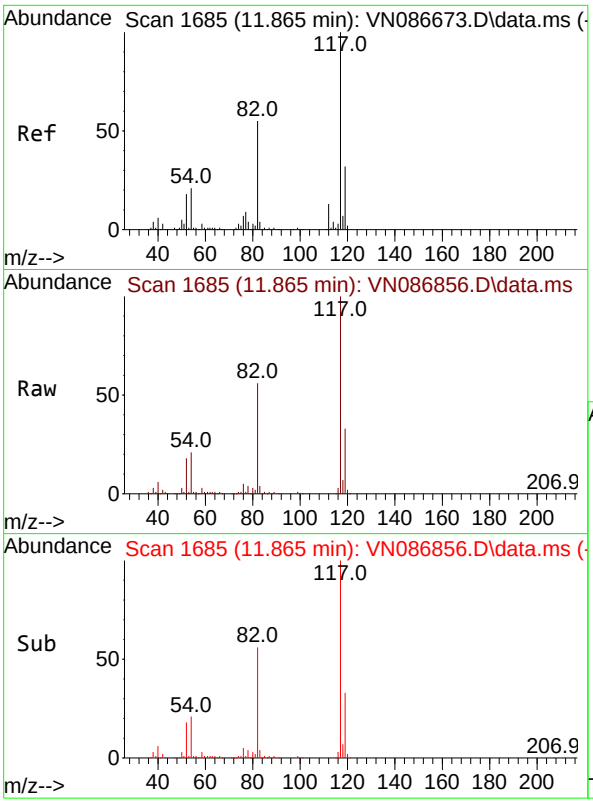




#62
4-Bromofluorobenzene
Concen: 53.247 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 95 Resp: 198824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 69.4 | 0.0 | 145.4 |
| 176 | 67.2 | 0.0 | 137.8 |



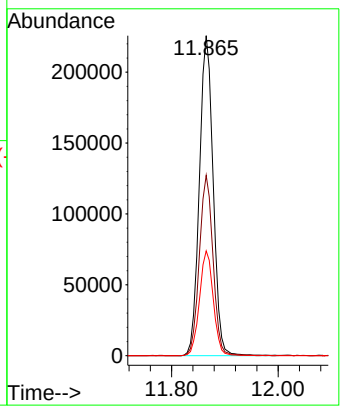


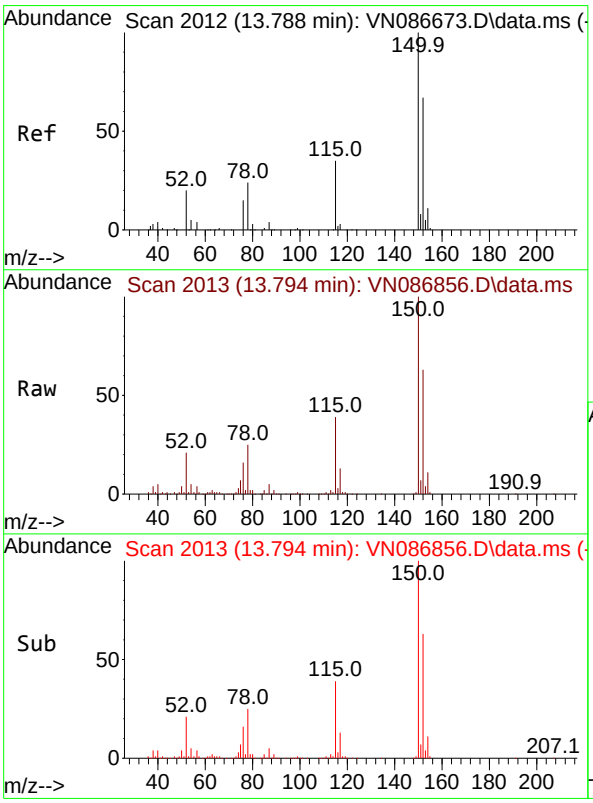

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB02

Tgt Ion:117 Resp: 404884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.4 | 44.2 | 66.2 |
| 119 | 32.8 | 25.4 | 38.2 |

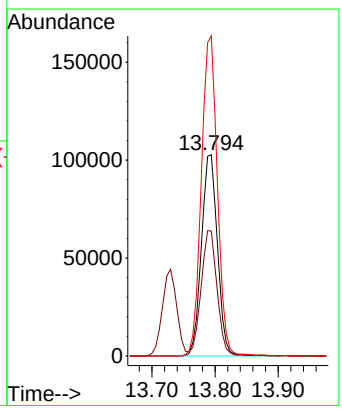


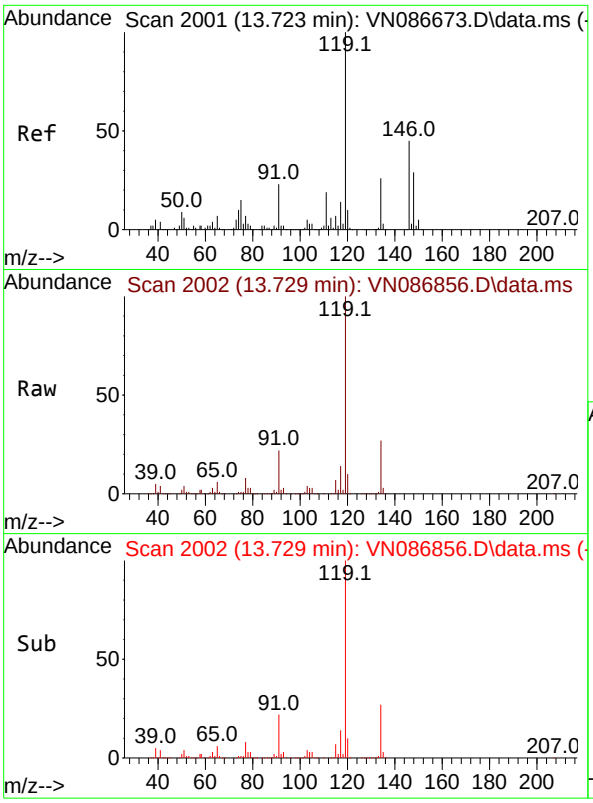




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion:152 Resp: 181011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.8 | 30.0 | 90.1 |
| 150 | 159.1 | 0.0 | 347.8 |



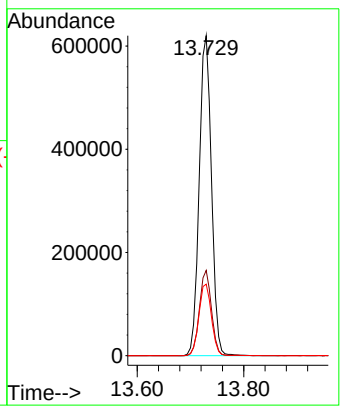



#86
p-Isopropyltoluene
Concen: 91.836 ug/l
RT: 13.729 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-187-SB02

Tgt Ion:119 Resp: 985932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.3 | 13.1 | 39.1 |
| 91 | 22.9 | 11.5 | 34.5 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086857.D
Acq On : 03 Jun 2025 21:00
Operator : JC\MD
Sample : Q2177-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 04 02:07:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-202-SB01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 214739 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 418395 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 402557 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 183854 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 152863 | 51.516 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 103.040% | | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 132479 | 53.168 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 106.340% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 536776 | 51.984 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 103.960% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 198933 | 54.562 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 109.120% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 4.418 | 43 | 55602 | 50.093 | ug/l | 96 |
| 18) Methyl Acetate | 5.024 | 43 | 27672 | 8.907 | ug/l | 99 |
| 20) Methylene Chloride | 5.277 | 84 | 8210m | 2.803 | ug/l | |
| 37) Ethyl Acetate | 7.559 | 43 | 20063 | 5.404 | ug/l | 99 |
| 43) Isopropyl Acetate | 8.683 | 43 | 15113 | 2.031 | ug/l | 94 |

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

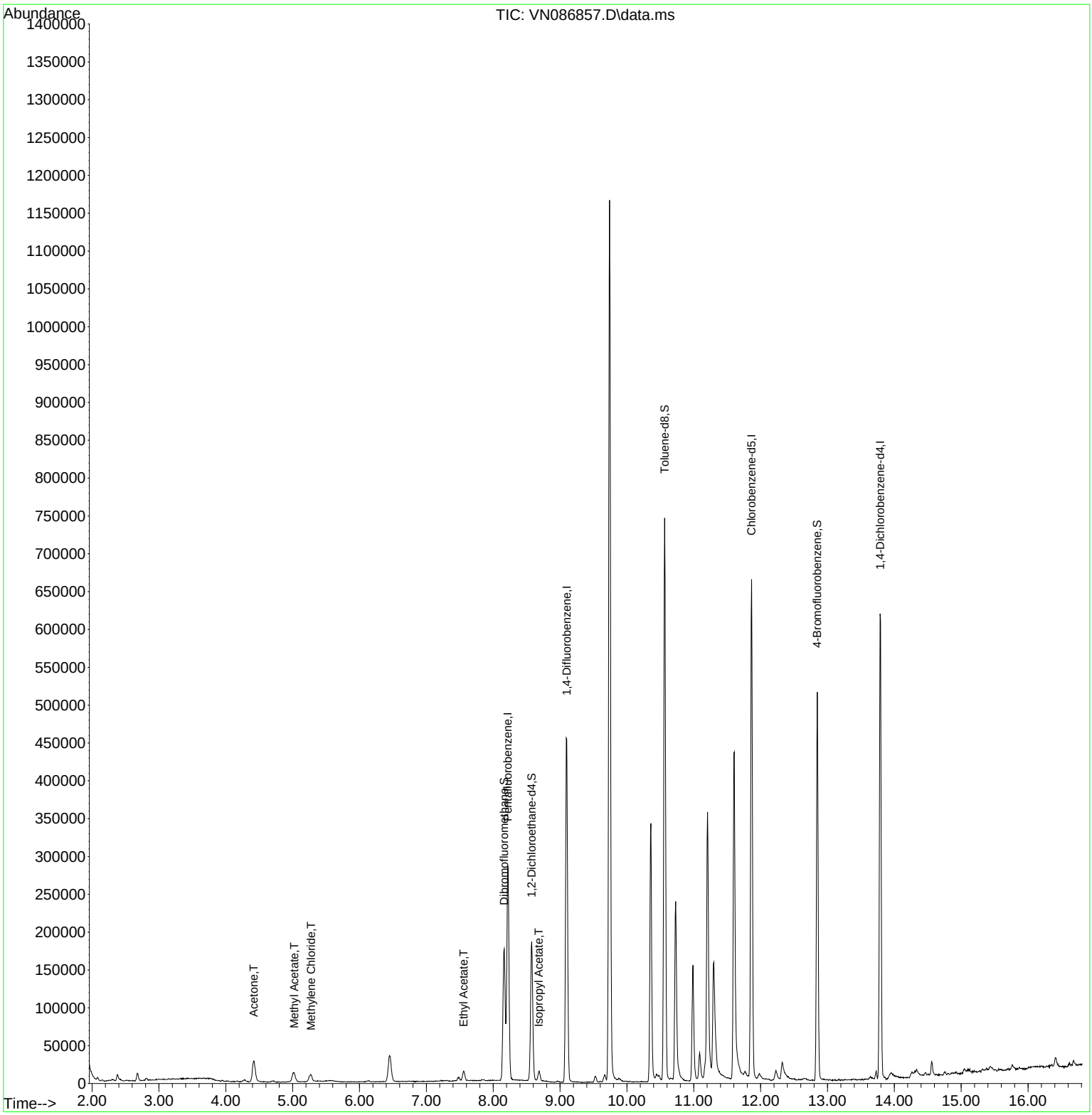
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086857.D
Acq On : 03 Jun 2025 21:00
Operator : JC\MD
Sample : Q2177-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

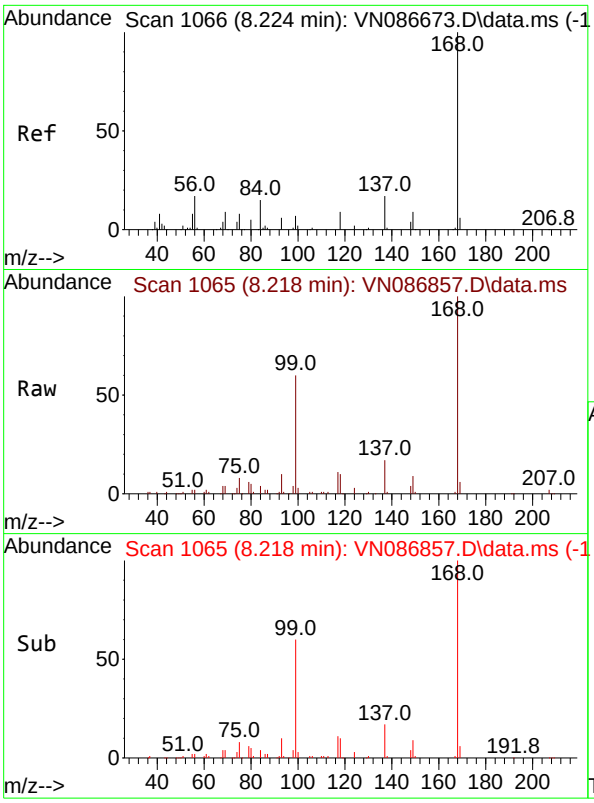
Quant Time: Jun 04 02:07:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-202-SB01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

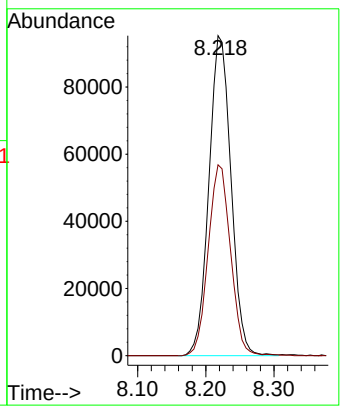





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion:168 Resp: 214739

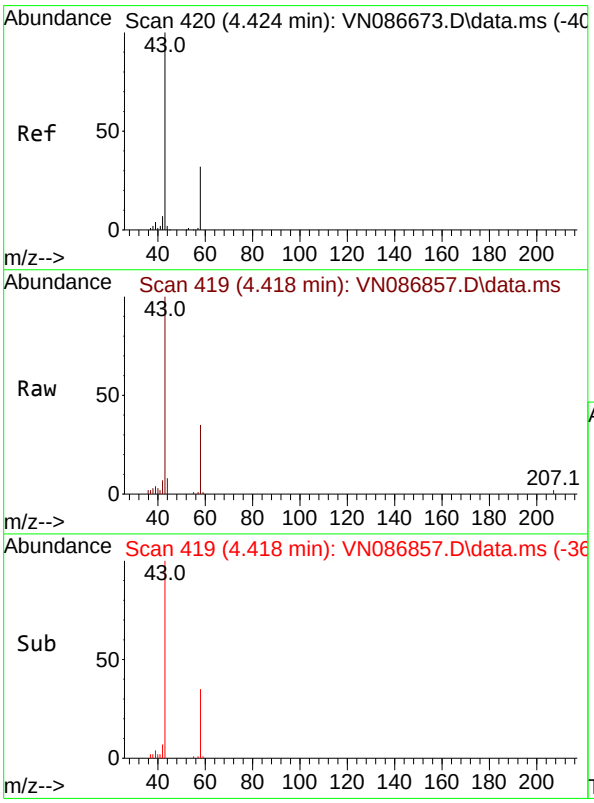
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 59.6 | 47.0 | 70.4 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
B-202-SB01

**Manual Integrations**
**APPROVED**

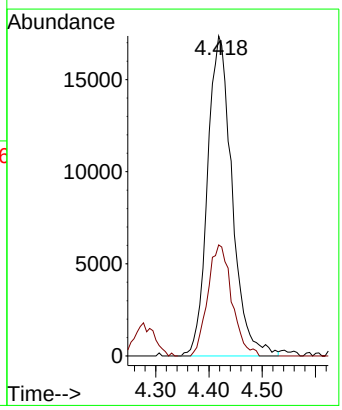
Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

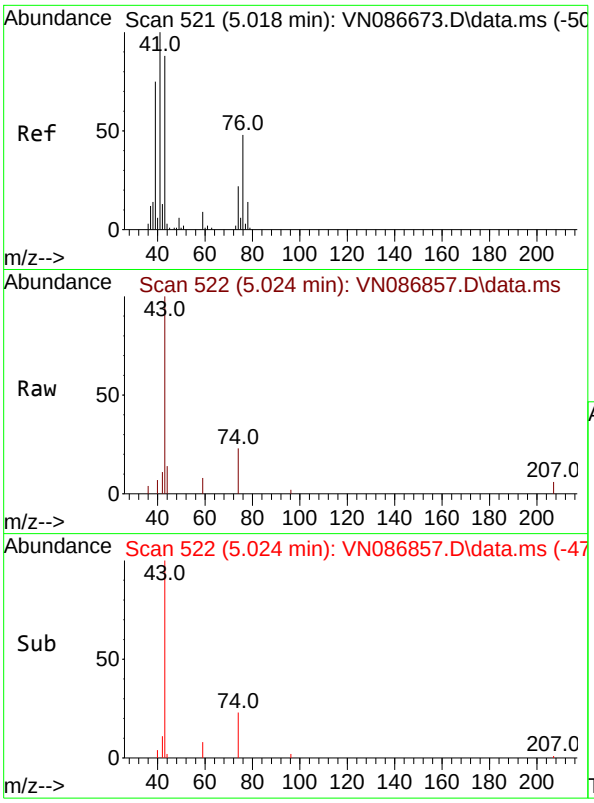



#16
Acetone
Concen: 50.093 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 43 Resp: 55602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.7 | 25.8 | 38.6 |

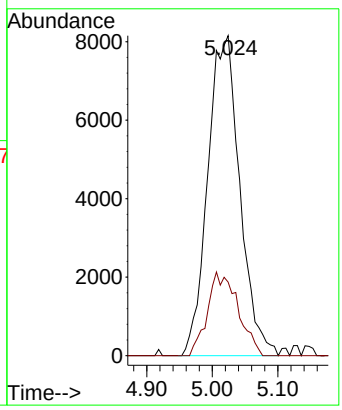





#18
Methyl Acetate
Concen: 8.907 ug/l
RT: 5.024 min Scan# 5
Delta R.T. 0.006 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 43 Resp: 2767

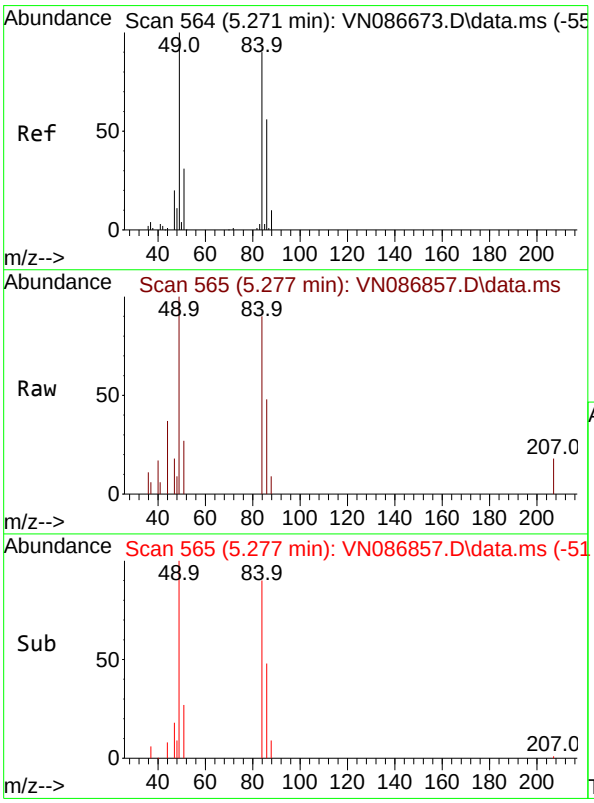
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.9 | 20.5 | 30.7 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
B-202-SB01

**Manual Integrations**
**APPROVED**

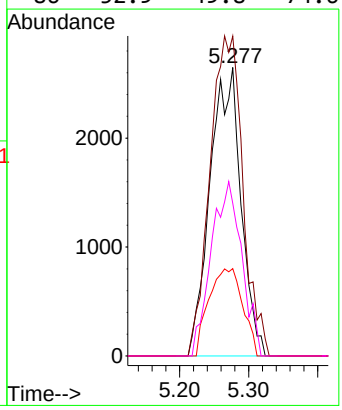
Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

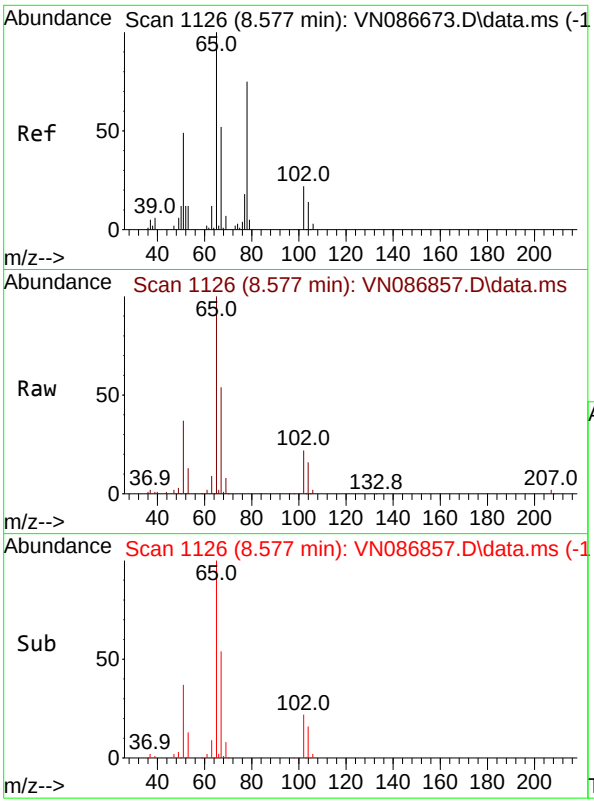



#20
Methylene Chloride
Concen: 2.803 ug/l m
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 84 Resp: 8210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 110.9 | 88.8 | 133.2 |
| 51 | 30.3 | 27.8 | 41.6 |
| 86 | 52.9 | 49.8 | 74.6 |

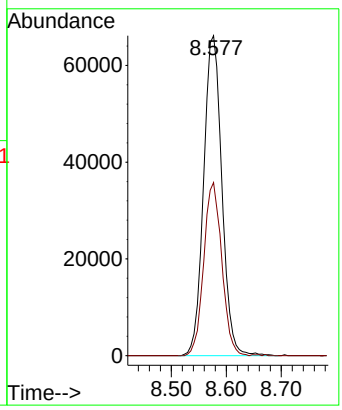





#33
1,2-Dichloroethane-d4
Concen: 51.516 ug/l
RT: 8.577 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 65 Resp: 15286

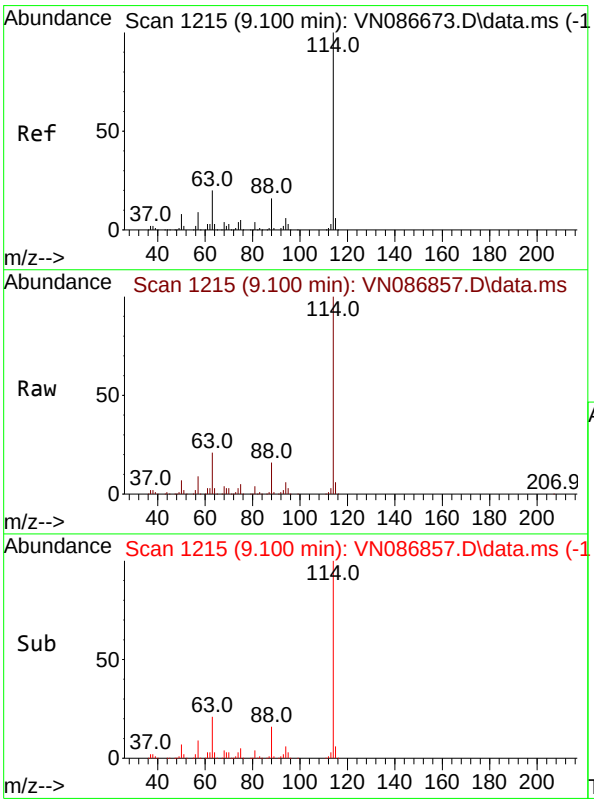
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.3 | 0.0 | 106.4 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
B-202-SB01

**Manual Integrations**
**APPROVED**

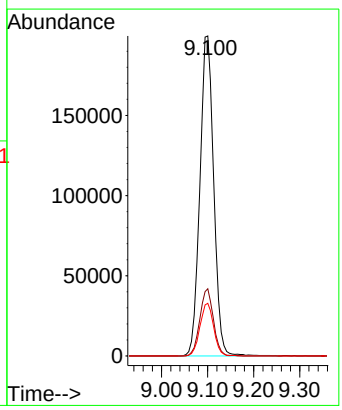
Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

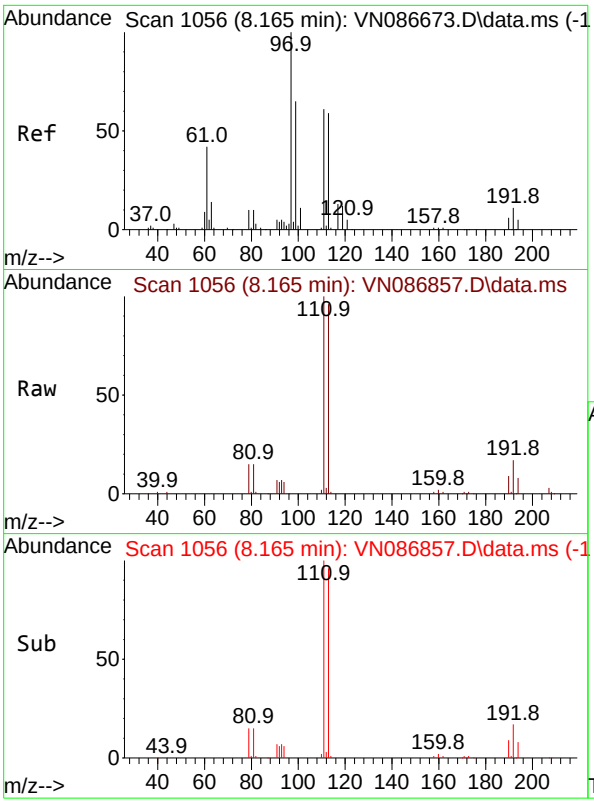



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion:114 Resp: 418395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.0 | 0.0 | 40.2 |
| 88 | 16.5 | 0.0 | 31.2 |

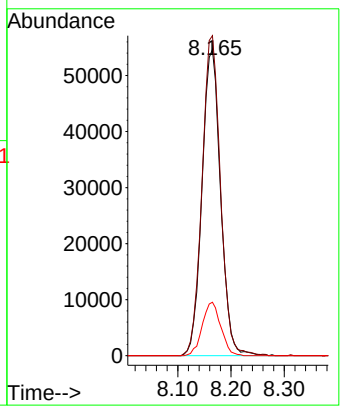





#35
Dibromofluoromethane
Concen: 53.168 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion:113 Resp: 13247

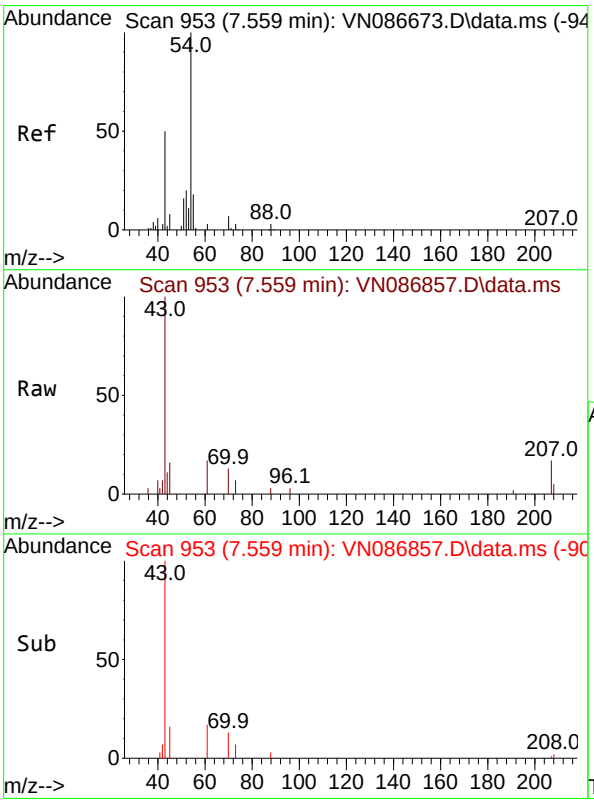
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.7 | 82.2 | 123.2 |
| 192 | 17.4 | 13.8 | 20.8 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
B-202-SB01

**Manual Integrations APPROVED**

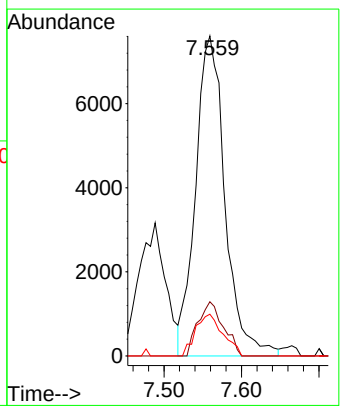
Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

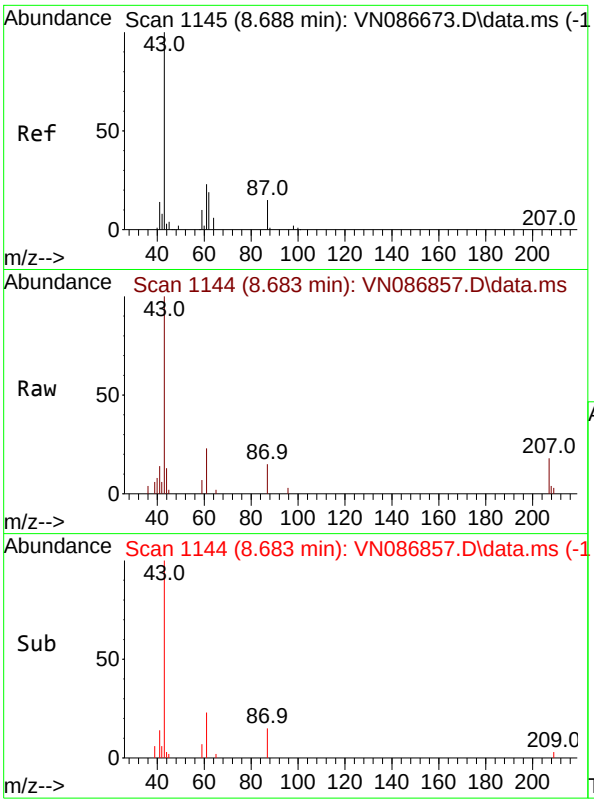



#37
Ethyl Acetate
Concen: 5.404 ug/l
RT: 7.559 min Scan# 953
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 43 Resp: 20063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.7 | 11.6 | 17.4 |
| 70 | 12.1 | 9.4 | 14.0 |






#43
Isopropyl Acetate
Concen: 2.031 ug/l
RT: 8.683 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

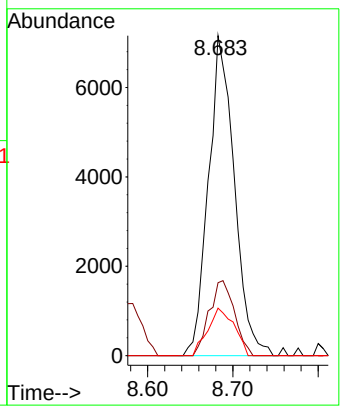
Tgt Ion: 43 Resp: 1511

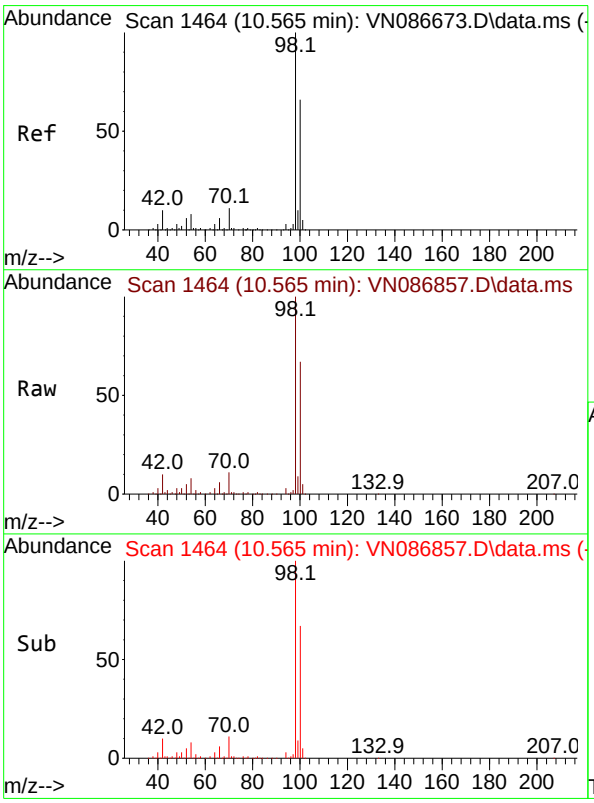
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.7 | 21.4 | 32.2 |
| 87 | 15.1 | 11.1 | 16.7 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
B-202-SB01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

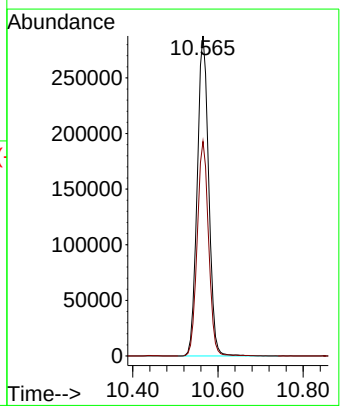


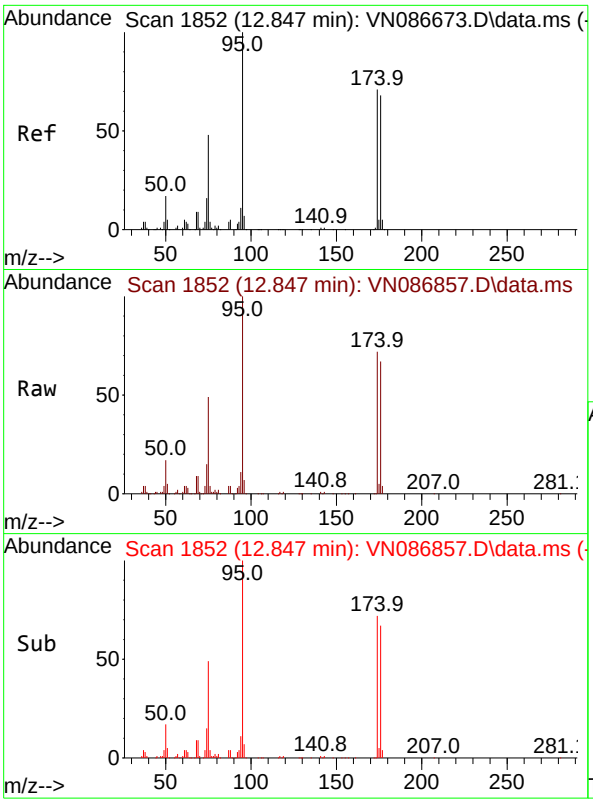




#50
Toluene-d8
Concen: 51.984 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 98 Resp: 536776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.3 | 52.9 | 79.3 |

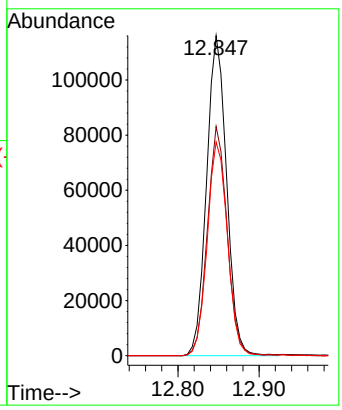





#62
4-Bromofluorobenzene
Concen: 54.562 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 95 Resp: 19893

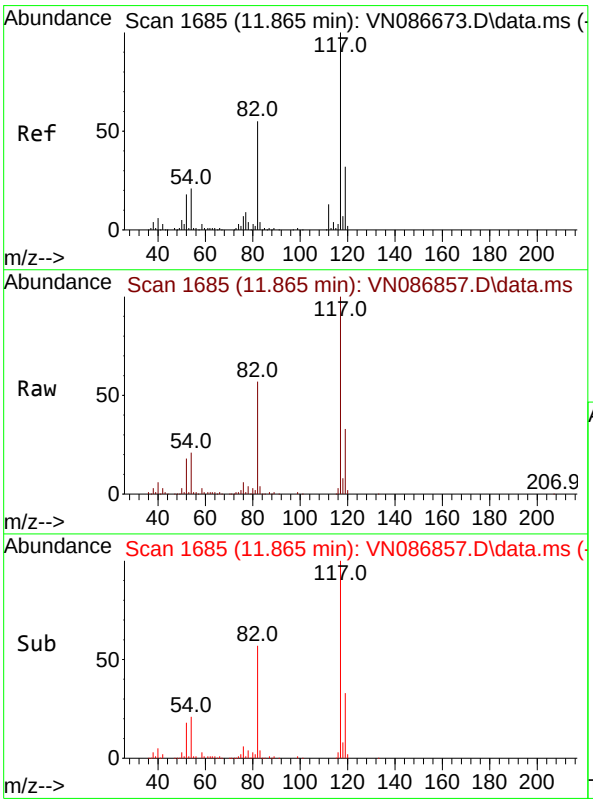
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 70.5 | 0.0 | 145.4 |
| 176 | 67.1 | 0.0 | 137.8 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
B-202-SB01

**Manual Integrations**
**APPROVED**

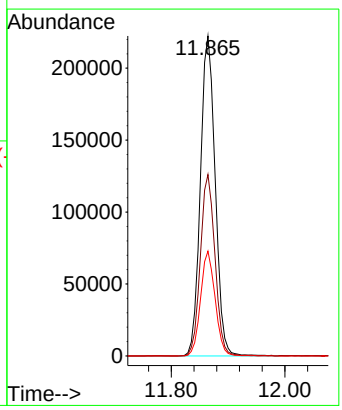
Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

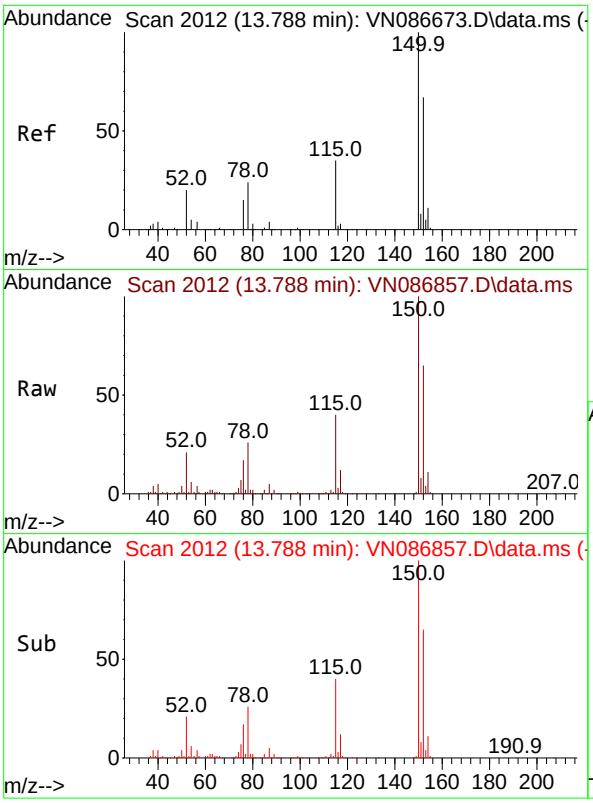



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion:117 Resp: 402557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.7 | 44.2 | 66.2 |
| 119 | 32.8 | 25.4 | 38.2 |

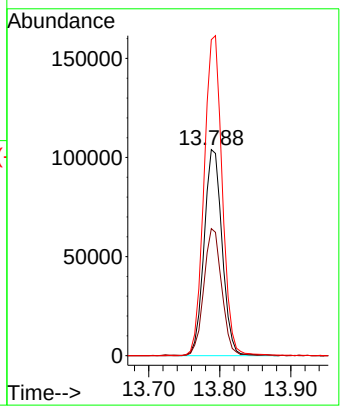





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion:152 Resp: 18385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.4 | 30.0 | 90.1 |
| 150 | 156.3 | 0.0 | 347.8 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
B-202-SB01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086836.D
Acq On : 03 Jun 2025 12:10
Operator : JC\MD
Sample : VN0603WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0603WBL01

Quant Time: Jun 04 01:56:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 257056 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.094 | 114 | 493879 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 460882 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 202290 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.571 | 65 | 165463 | 46.582 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 93.160% | | | |
| 35) Dibromofluoromethane | 8.159 | 113 | 150868 | 51.294 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 102.580% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 625163 | 51.290 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 102.580% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 227449 | 52.849 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 105.700% | | | |

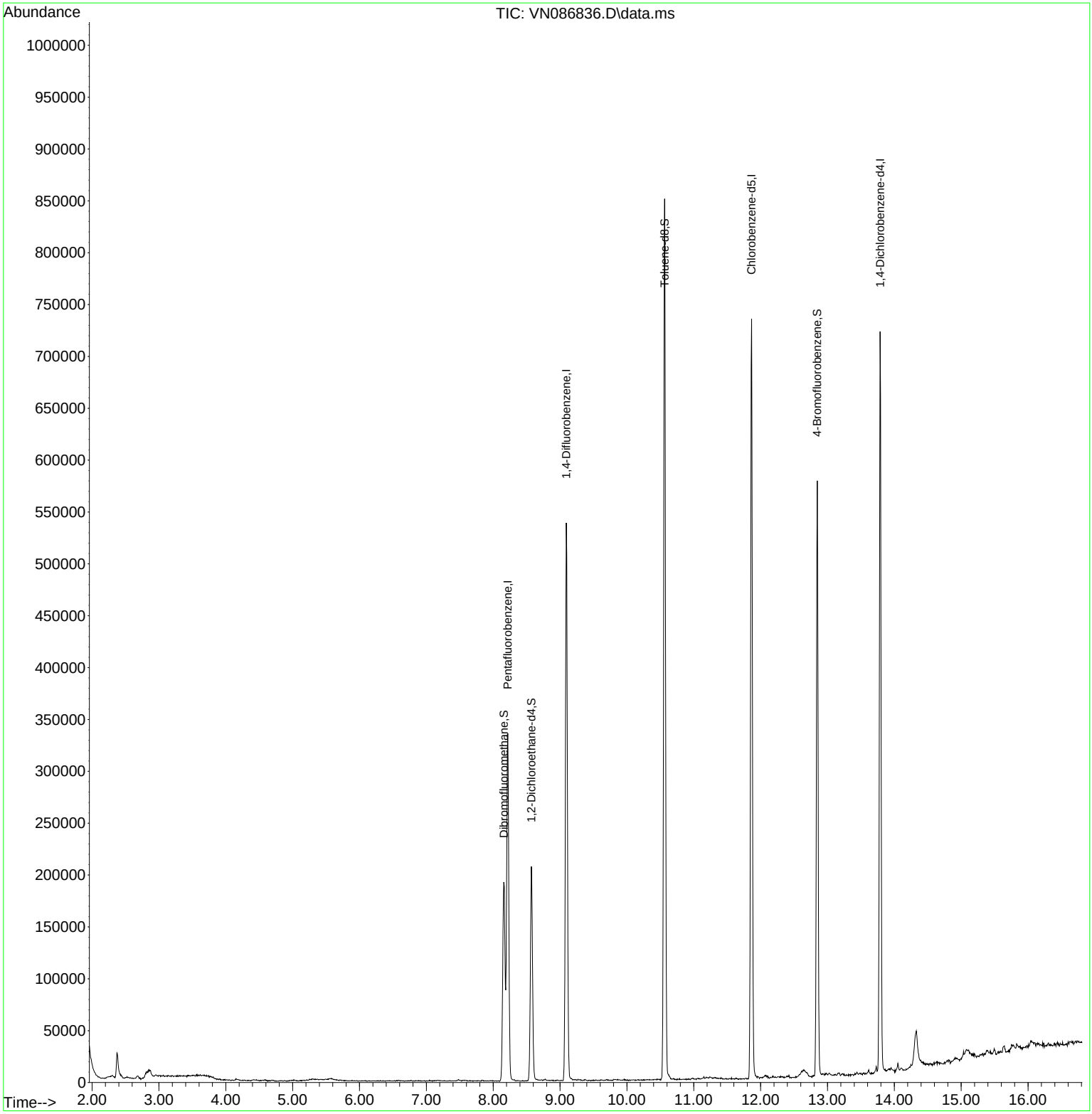
Target Compounds Qvalue

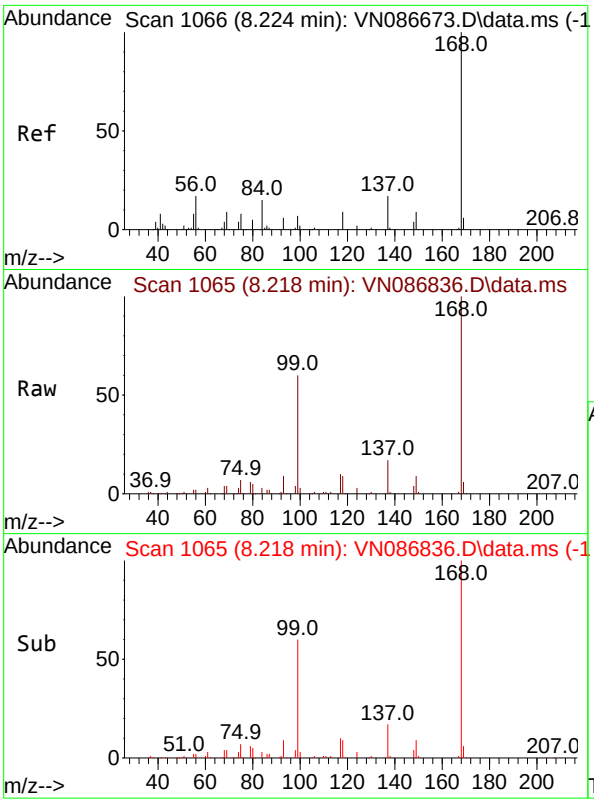
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086836.D
Acq On : 03 Jun 2025 12:10
Operator : JC\MD
Sample : VN0603WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0603WBL01

Quant Time: Jun 04 01:56:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration



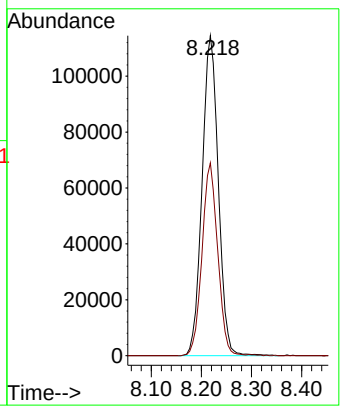


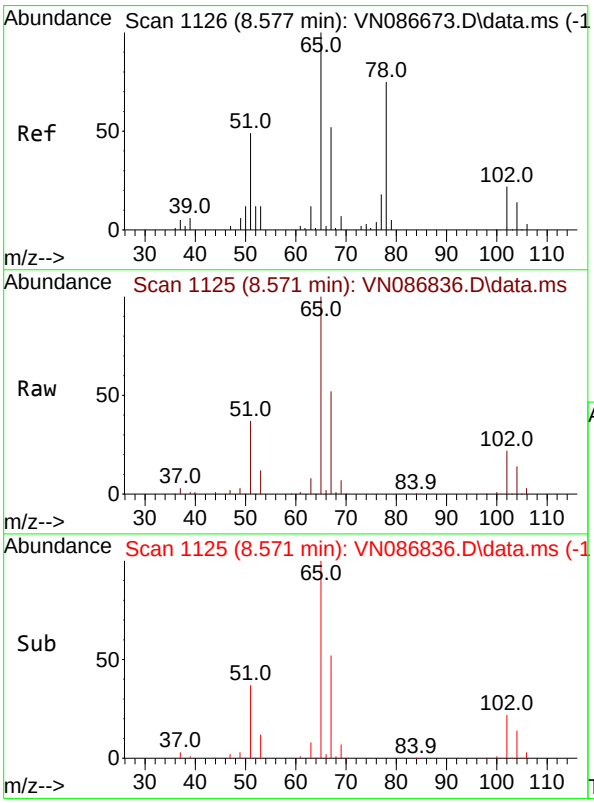

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086836.D
Acq: 03 Jun 2025 12:10

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0603WBL01

Tgt Ion:168 Resp: 257056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.3 | 47.0 | 70.4 |

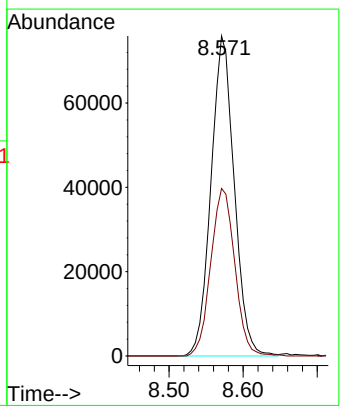


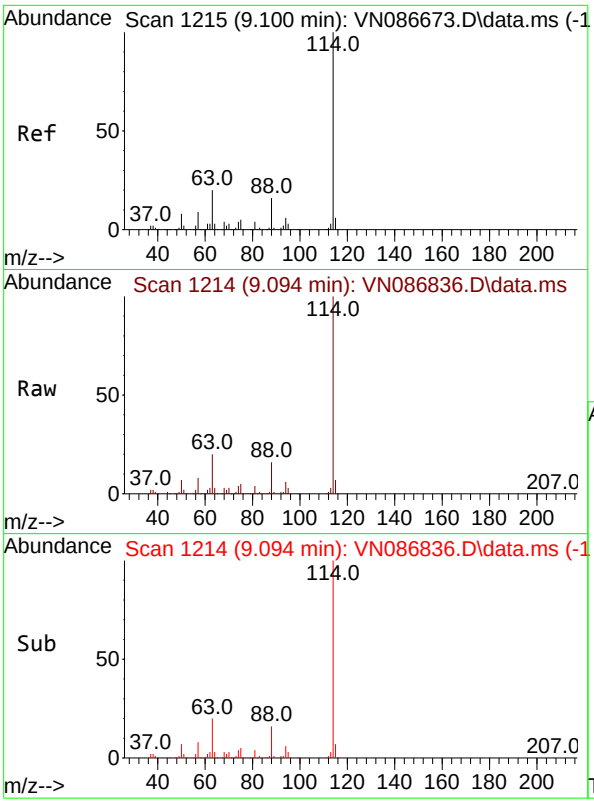




#33
1,2-Dichloroethane-d4
Concen: 46.582 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN086836.D
Acq: 03 Jun 2025 12:10

Tgt Ion: 65 Resp: 165463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.1 | 0.0 | 106.4 |



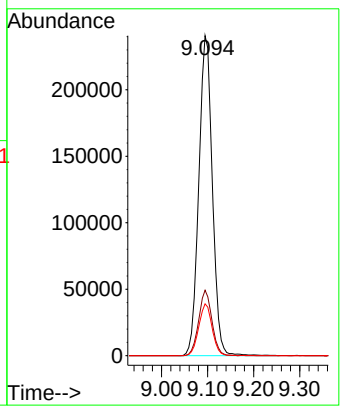


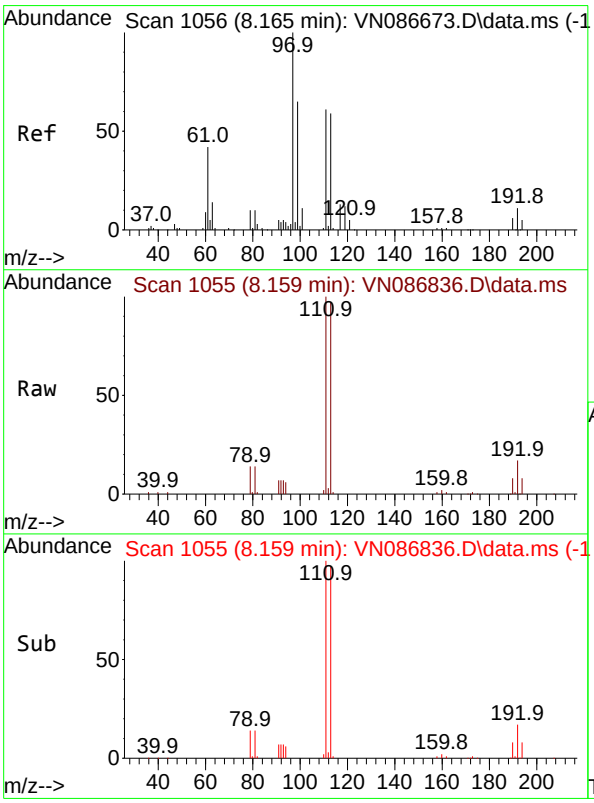

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086836.D
Acq: 03 Jun 2025 12:10

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0603WBL01

Tgt Ion:114 Resp: 493879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.4 | 0.0 | 40.2 |
| 88 | 16.2 | 0.0 | 31.2 |

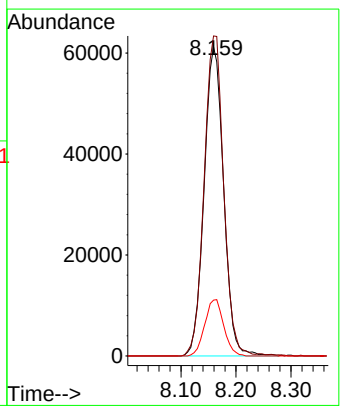


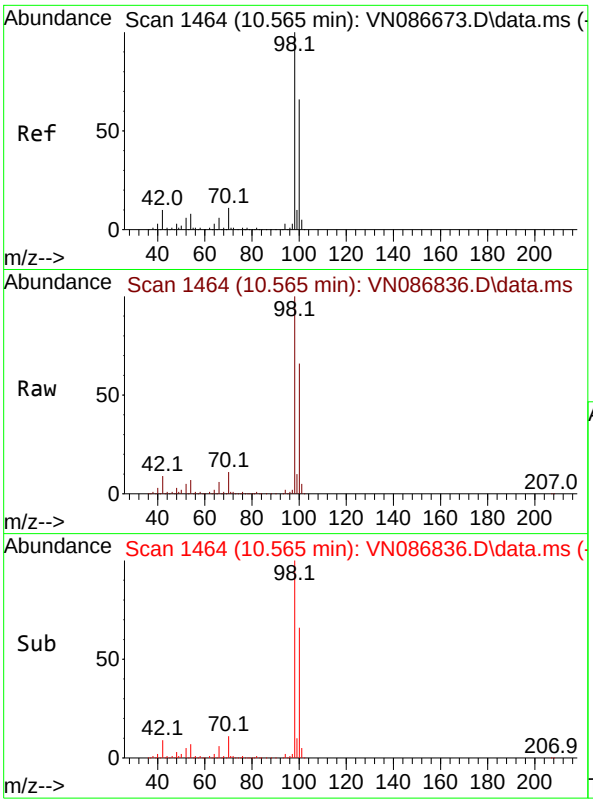




#35
Dibromofluoromethane
Concen: 51.294 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN086836.D
Acq: 03 Jun 2025 12:10

Tgt Ion:113 Resp: 150868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.4 | 82.2 | 123.2 |
| 192 | 17.7 | 13.8 | 20.8 |



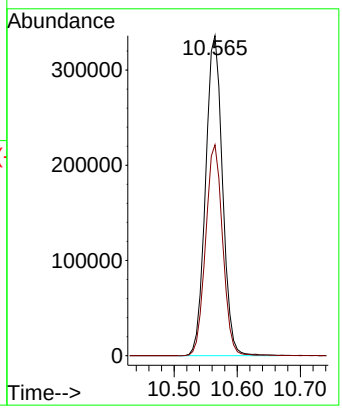


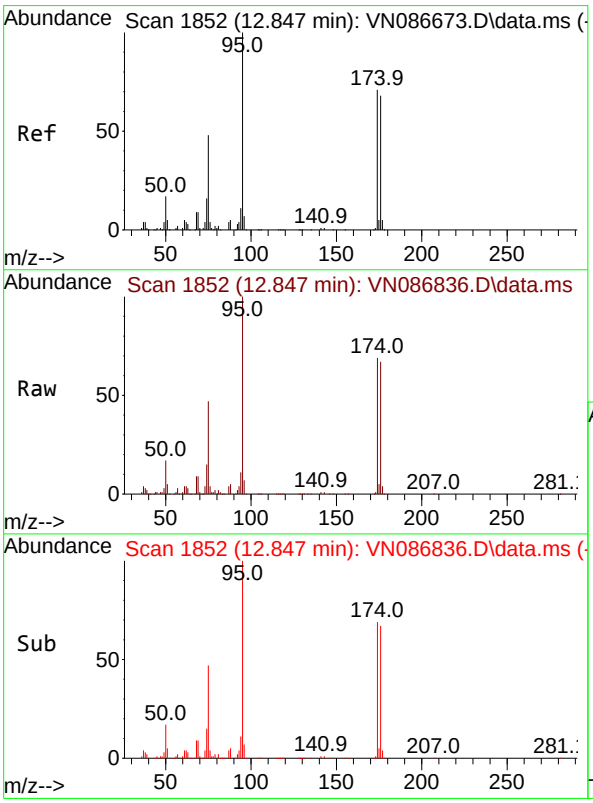

#50
Toluene-d8
Concen: 51.290 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN086836.D
Acq: 03 Jun 2025 12:10

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0603WBL01

Tgt Ion: 98 Resp: 625163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.4 | 52.9 | 79.3 |

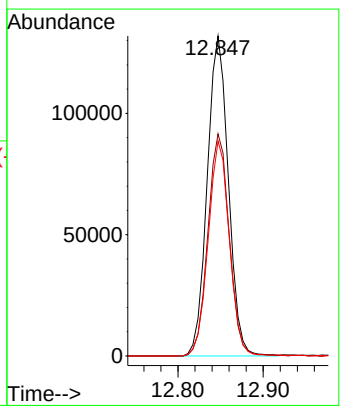


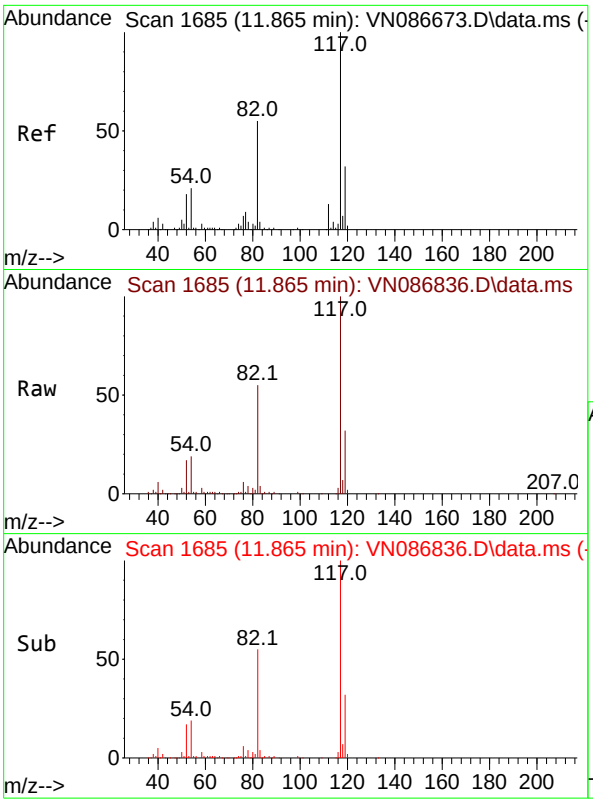




#62
4-Bromofluorobenzene
Concen: 52.849 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086836.D
Acq: 03 Jun 2025 12:10

Tgt Ion: 95 Resp: 227449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 70.1 | 0.0 | 145.4 |
| 176 | 67.1 | 0.0 | 137.8 |



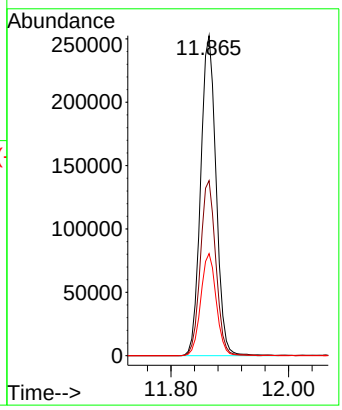


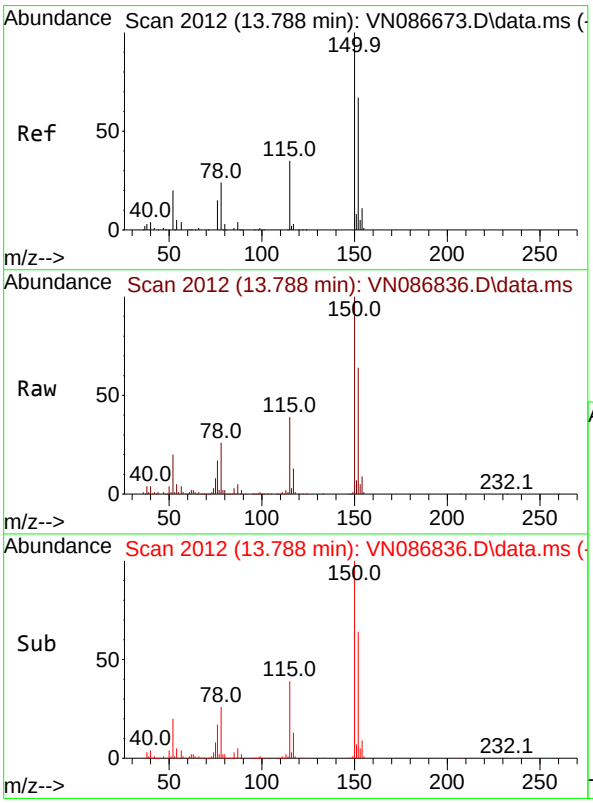

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086836.D
Acq: 03 Jun 2025 12:10

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0603WBL01

Tgt Ion:117 Resp: 460882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.7 | 44.2 | 66.2 |
| 119 | 31.9 | 25.4 | 38.2 |

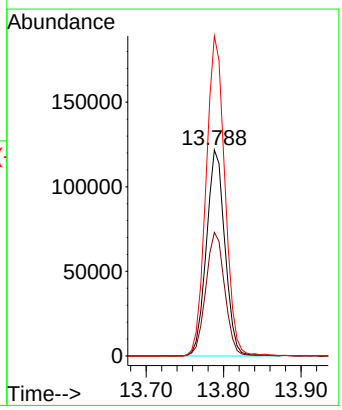



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086836.D
Acq: 03 Jun 2025 12:10

Tgt Ion:152 Resp: 202290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.5 | 30.0 | 90.1 |
| 150 | 158.2 | 0.0 | 347.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086837.D
Acq On : 03 Jun 2025 12:46
Operator : JC\MD
Sample : VN0603WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 01:56:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0603WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 311874 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.094 | 114 | 552803 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 467842 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 208414 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.571 | 65 | 196901 | 45.690 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 91.380% | | | |
| 35) Dibromofluoromethane | 8.159 | 113 | 162966 | 49.501 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 99.000% | | | |
| 50) Toluene-d8 | 10.565 | 98 | 650044 | 47.647 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 95.300% | | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 227930 | 47.315 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 94.640% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.130 | 85 | 61689 | 18.316 | ug/l | 99 |
| 3) Chloromethane | 2.371 | 50 | 124743 | 24.487 | ug/l | 99 |
| 4) Vinyl Chloride | 2.530 | 62 | 76314 | 16.680 | ug/l | 96 |
| 5) Bromomethane | 2.977 | 94 | 35389 | 13.418 | ug/l | 92 |
| 6) Chloroethane | 3.136 | 64 | 50742 | 16.931 | ug/l | 89 |
| 7) Trichlorofluoromethane | 3.501 | 101 | 99083 | 18.122 | ug/l | 98 |
| 8) Diethyl Ether | 3.948 | 74 | 44442 | 19.676 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.353 | 101 | 62543 | 19.108 | ug/l | 97 |
| 10) Methyl Iodide | 4.571 | 142 | 27330 | 6.712 | ug/l | 94 |
| 11) Tert butyl alcohol | 5.512 | 59 | 70823 | 90.235 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.330 | 96 | 64398 | 18.513 | ug/l | 92 |
| 13) Acrolein | 4.159 | 56 | 55618 | 66.287 | ug/l | 100 |
| 14) Allyl chloride | 5.006 | 41 | 111061 | 21.094 | ug/l | 88 |
| 15) Acrylonitrile | 5.712 | 53 | 179724 | 92.483 | ug/l | 99 |
| 16) Acetone | 4.412 | 43 | 149854 | 92.959 | ug/l | 99 |
| 17) Carbon Disulfide | 4.695 | 76 | 164472 | 17.078 | ug/l | 98 |
| 18) Methyl Acetate | 5.012 | 43 | 84725 | 18.778 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.783 | 73 | 231177 | 19.518 | ug/l | 99 |
| 20) Methylene Chloride | 5.259 | 84 | 72387 | 17.016 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.777 | 96 | 68409 | 18.600 | ug/l | 92 |
| 22) Diisopropyl ether | 6.665 | 45 | 228738 | 19.257 | ug/l | 97 |
| 23) Vinyl Acetate | 6.595 | 43 | 834829 | 93.514 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.559 | 63 | 127319 | 18.256 | ug/l | 99 |
| 25) 2-Butanone | 7.477 | 43 | 234150 | 93.996 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 7.483 | 77 | 115428 | 20.056 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.477 | 96 | 83833 | 18.570 | ug/l | 98 |
| 28) Bromochloromethane | 7.806 | 49 | 63348 | 19.993 | ug/l | 97 |
| 29) Tetrahydrofuran | 7.836 | 42 | 144894 | 89.113 | ug/l | 97 |
| 30) Chloroform | 7.959 | 83 | 127505 | 18.266 | ug/l | 97 |
| 31) Cyclohexane | 8.253 | 56 | 118488 | 18.319 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 109562 | 18.616 | ug/l | 93 |
| 36) 1,1-Dichloropropene | 8.365 | 75 | 92546 | 19.058 | ug/l | 100 |
| 37) Ethyl Acetate | 7.553 | 43 | 93247 | 19.009 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.353 | 117 | 89775 | 18.763 | ug/l | 97 |
| 39) Methylcyclohexane | 9.594 | 83 | 108094 | 20.567 | ug/l | 98 |
| 40) Benzene | 8.600 | 78 | 303496 | 19.158 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086837.D
Acq On : 03 Jun 2025 12:46
Operator : JC\MD
Sample : VN0603WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 01:56:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0603WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.771 | 41 | 52387 | 19.779 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 90068 | 18.250 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.683 | 43 | 161210 | 16.394 | ug/l | | 97 |
| 44) Trichloroethene | 9.347 | 130 | 70515 | 18.455 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 73654 | 19.572 | ug/l | | 97 |
| 46) Dibromomethane | 9.706 | 93 | 47242 | 18.604 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.883 | 83 | 101328 | 19.367 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.677 | 41 | 74790 | 19.627 | ug/l | | 97 |
| 49) 1,4-Dioxane | 9.694 | 88 | 28415 | 352.158 | ug/l | # | 96 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 456160 | 91.985 | ug/l | | 98 |
| 52) Toluene | 10.624 | 92 | 184334 | 18.722 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.835 | 75 | 114600 | 20.688 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 10.306 | 75 | 122048 | 20.183 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 68666 | 18.696 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.877 | 69 | 117944 | 20.001 | ug/l | | 96 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 120199 | 18.997 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 293754 | 111.459 | ug/l | | 100 |
| 59) 2-Hexanone | 11.200 | 43 | 296191 | 81.789 | ug/l | | 96 |
| 60) Dibromochloromethane | 11.359 | 129 | 76418 | 19.853 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 69273 | 18.769 | ug/l | | 99 |
| 64) Tetrachloroethene | 11.100 | 164 | 56471 | 15.757 | ug/l | | 97 |
| 65) Chlorobenzene | 11.888 | 112 | 199999 | 19.495 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 66741 | 20.152 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.959 | 91 | 346395 | 19.713 | ug/l | | 99 |
| 68) m/p-Xylenes | 12.071 | 106 | 264199 | 39.696 | ug/l | | 98 |
| 69) o-Xylene | 12.394 | 106 | 134320 | 20.300 | ug/l | | 98 |
| 70) Styrene | 12.412 | 104 | 216399 | 19.976 | ug/l | | 100 |
| 71) Bromoform | 12.576 | 173 | 48865 | 20.747 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.694 | 105 | 316849 | 19.684 | ug/l | | 99 |
| 74) N-amyl acetate | 12.506 | 43 | 116639 | 17.343 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 99132 | 20.046 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.994 | 75 | 81454m | 17.281 | ug/l | | |
| 77) Bromobenzene | 12.976 | 156 | 74079 | 18.295 | ug/l | | 100 |
| 78) n-propylbenzene | 13.035 | 91 | 369822 | 20.020 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 13.124 | 91 | 227183 | 18.915 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 13.171 | 105 | 257876 | 19.996 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 44806 | 23.990 | ug/l | | 88 |
| 82) 4-Chlorotoluene | 13.218 | 91 | 225346 | 18.937 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.435 | 119 | 219969 | 19.559 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.482 | 105 | 259010 | 20.168 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.612 | 105 | 309139 | 20.500 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.723 | 119 | 263891 | 21.349 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 137032 | 19.544 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.812 | 146 | 135663 | 19.528 | ug/l | | 99 |
| 89) n-Butylbenzene | 14.053 | 91 | 223830 | 21.843 | ug/l | | 99 |
| 90) Hexachloroethane | 14.329 | 117 | 44022 | 21.464 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 128800 | 19.313 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.718 | 75 | 19200 | 23.437 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 15.394 | 180 | 69137 | 24.560 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 24914 | 21.331 | ug/l | | 98 |
| 95) Naphthalene | 15.635 | 128 | 248177 | 25.391 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.841 | 180 | 67095 | 24.338 | ug/l | | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086837.D
Acq On : 03 Jun 2025 12:46
Operator : JC\MD
Sample : VN0603WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 01:56:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0603WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

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

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

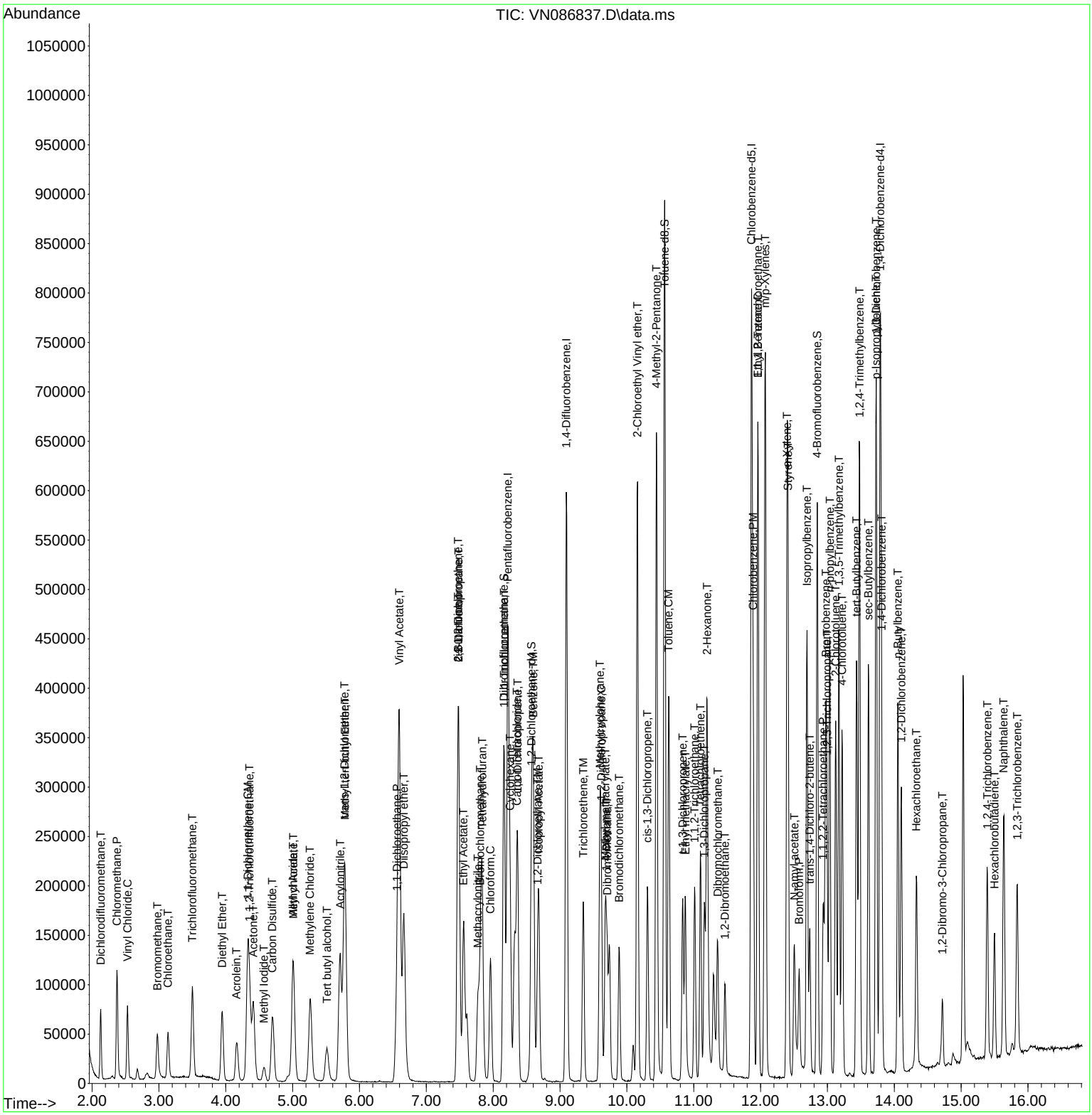
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086837.D
Acq On : 03 Jun 2025 12:46
Operator : JC\MD
Sample : VN0603WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 01:56:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0603WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086838.D
Acq On : 03 Jun 2025 13:20
Operator : JC\MD
Sample : VN0603WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 01:57:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0603WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 283988 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.094 | 114 | 510275 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 430553 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 192303 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.571 | 65 | 181973 | 46.372 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 92.740% | | |
| 35) Dibromofluoromethane | 8.159 | 113 | 151891 | 49.982 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 99.960% | | |
| 50) Toluene-d8 | 10.565 | 98 | 591397 | 46.961 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 93.920% | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 208331 | 46.851 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 93.700% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.130 | 85 | 53812 | 17.546 | ug/l | 98 |
| 3) Chloromethane | 2.371 | 50 | 110222 | 23.761 | ug/l | 100 |
| 4) Vinyl Chloride | 2.530 | 62 | 66995 | 16.081 | ug/l | 96 |
| 5) Bromomethane | 2.977 | 94 | 32163 | 13.392 | ug/l | 97 |
| 6) Chloroethane | 3.136 | 64 | 44514 | 16.311 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.501 | 101 | 88148 | 17.705 | ug/l | 98 |
| 8) Diethyl Ether | 3.948 | 74 | 40628 | 19.754 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 4.353 | 101 | 56654 | 19.008 | ug/l | 98 |
| 10) Methyl Iodide | 4.571 | 142 | 26910 | 7.258 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.512 | 59 | 64897 | 90.804 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.324 | 96 | 56706 | 17.902 | ug/l | 99 |
| 13) Acrolein | 4.159 | 56 | 40557 | 53.083 | ug/l | 96 |
| 14) Allyl chloride | 5.006 | 41 | 98262 | 20.495 | ug/l | 89 |
| 15) Acrylonitrile | 5.712 | 53 | 166222 | 93.934 | ug/l | 99 |
| 16) Acetone | 4.412 | 43 | 125964 | 85.812 | ug/l | 94 |
| 17) Carbon Disulfide | 4.700 | 76 | 150213 | 17.128 | ug/l | 99 |
| 18) Methyl Acetate | 5.012 | 43 | 76462 | 18.611 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.789 | 73 | 214403 | 19.879 | ug/l | 100 |
| 20) Methylene Chloride | 5.259 | 84 | 66446 | 17.153 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.771 | 96 | 60452 | 18.051 | ug/l | 95 |
| 22) Diisopropyl ether | 6.659 | 45 | 211170 | 19.523 | ug/l | 98 |
| 23) Vinyl Acetate | 6.594 | 43 | 785744 | 96.658 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 6.559 | 63 | 116831 | 18.397 | ug/l | 98 |
| 25) 2-Butanone | 7.477 | 43 | 214606 | 94.610 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.483 | 77 | 103280 | 19.707 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.477 | 96 | 76629 | 18.641 | ug/l | 99 |
| 28) Bromochloromethane | 7.812 | 49 | 57682 | 19.992 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.836 | 42 | 141314 | 95.445 | ug/l | 100 |
| 30) Chloroform | 7.959 | 83 | 115571 | 18.183 | ug/l | 98 |
| 31) Cyclohexane | 8.247 | 56 | 106015 | 18.000 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 8.159 | 97 | 98360 | 18.354 | ug/l | 94 |
| 36) 1,1-Dichloropropene | 8.365 | 75 | 83438 | 18.614 | ug/l | 99 |
| 37) Ethyl Acetate | 7.553 | 43 | 85931 | 18.978 | ug/l | 97 |
| 38) Carbon Tetrachloride | 8.353 | 117 | 81872 | 18.537 | ug/l | 96 |
| 39) Methylcyclohexane | 9.600 | 83 | 97899 | 20.179 | ug/l | 96 |
| 40) Benzene | 8.600 | 78 | 274657 | 18.783 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086838.D
Acq On : 03 Jun 2025 13:20
Operator : JC\MD
Sample : VN0603WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 01:57:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0603WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.771 | 41 | 49006 | 20.045 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 83577 | 18.346 | ug/l | | 96 |
| 43) Isopropyl Acetate | 8.683 | 43 | 150999 | 16.635 | ug/l | | 96 |
| 44) Trichloroethene | 9.347 | 130 | 63258 | 17.936 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 67663 | 19.479 | ug/l | | 98 |
| 46) Dibromomethane | 9.706 | 93 | 44596 | 19.026 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.882 | 83 | 93015 | 19.260 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.677 | 41 | 68495 | 19.473 | ug/l | | 97 |
| 49) 1,4-Dioxane | 9.694 | 88 | 27033 | 362.952 | ug/l | # | 81 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 425395 | 92.930 | ug/l | | 99 |
| 52) Toluene | 10.630 | 92 | 168549 | 18.546 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.835 | 75 | 104834 | 20.502 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 10.312 | 75 | 113076 | 20.258 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 63651 | 18.775 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.877 | 69 | 108927 | 20.011 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 112229 | 19.216 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 278884 | 114.636 | ug/l | | 99 |
| 59) 2-Hexanone | 11.200 | 43 | 270873 | 81.032 | ug/l | | 98 |
| 60) Dibromochloromethane | 11.359 | 129 | 68721 | 19.342 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.471 | 107 | 64226 | 18.852 | ug/l | | 100 |
| 64) Tetrachloroethene | 11.100 | 164 | 50645 | 15.355 | ug/l | | 97 |
| 65) Chlorobenzene | 11.888 | 112 | 182720 | 19.353 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 61410 | 20.148 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.965 | 91 | 313319 | 19.375 | ug/l | | 100 |
| 68) m/p-Xylenes | 12.071 | 106 | 239195 | 39.052 | ug/l | | 98 |
| 69) o-Xylene | 12.394 | 106 | 117643 | 19.319 | ug/l | | 99 |
| 70) Styrene | 12.412 | 104 | 196969 | 19.757 | ug/l | | 100 |
| 71) Bromoform | 12.576 | 173 | 44330 | 20.451 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.694 | 105 | 287026 | 19.325 | ug/l | | 99 |
| 74) N-amyl acetate | 12.506 | 43 | 112027 | 18.053 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 93075 | 20.398 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.994 | 75 | 74966m | 17.237 | ug/l | | |
| 77) Bromobenzene | 12.976 | 156 | 67245 | 17.999 | ug/l | | 98 |
| 78) n-propylbenzene | 13.035 | 91 | 329636 | 19.340 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 205023 | 18.500 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 13.171 | 105 | 232803 | 19.564 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 40628 | 23.575 | ug/l | | 90 |
| 82) 4-Chlorotoluene | 13.218 | 91 | 206930 | 18.846 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.435 | 119 | 206598 | 19.909 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.482 | 105 | 233529 | 19.708 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.612 | 105 | 275626 | 19.809 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.729 | 119 | 236095 | 20.700 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 122189 | 18.887 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.812 | 146 | 122295 | 19.079 | ug/l | | 98 |
| 89) n-Butylbenzene | 14.053 | 91 | 202721 | 21.440 | ug/l | | 99 |
| 90) Hexachloroethane | 14.329 | 117 | 38593 | 20.394 | ug/l | | 93 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 118775 | 19.302 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 17995 | 23.806 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.394 | 180 | 63294 | 24.368 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.494 | 225 | 22251 | 20.648 | ug/l | | 98 |
| 95) Naphthalene | 15.635 | 128 | 231862 | 25.709 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.841 | 180 | 61361 | 24.123 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086838.D
Acq On : 03 Jun 2025 13:20
Operator : JC\MD
Sample : VN0603WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 01:57:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0603WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

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

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

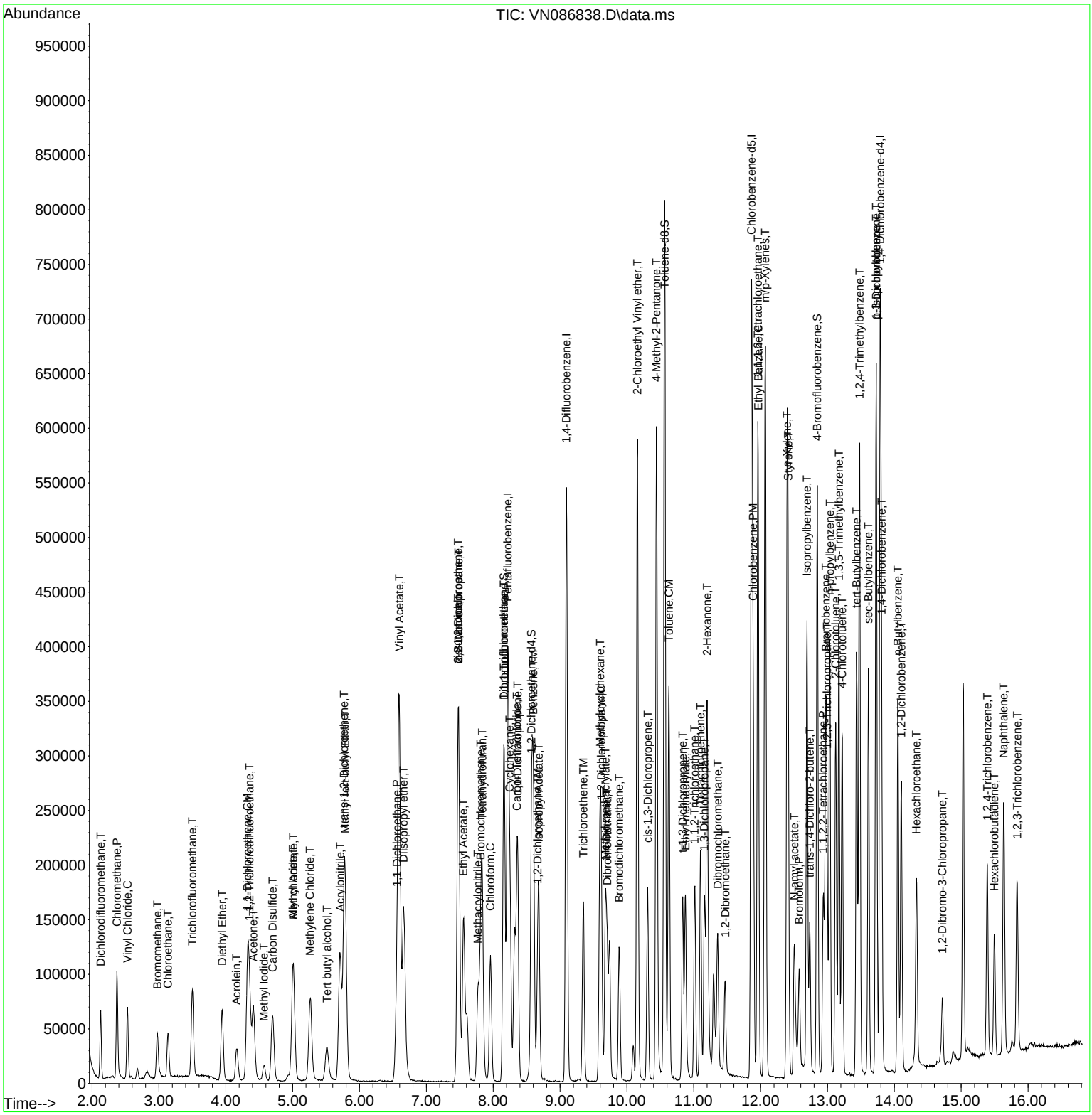
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086838.D
Acq On : 03 Jun 2025 13:20
Operator : JC\MD
Sample : VN0603WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 01:57:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
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**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0603WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025



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

# Manual Integration Report

| Sequence: | vn051625 | Instrument | MSVOA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC020 | VN086661.D | 1,2,3-Trichloropropane | JOHN | 5/19/2025 9:32:47 AM | MMDadoda | 5/19/2025 2:39:59 PM | Peak Integrated by Software |
| VSTDCCC020 | VN086667.D | 1,2,3-Trichloropropane | JOHN | 5/19/2025 9:33:01 AM | MMDadoda | 5/19/2025 2:40:37 PM | Peak Integrated by Software |
| VSTDICC001 | VN086669.D | 1,2,3-Trichloropropane | JOHN | 5/19/2025 9:33:07 AM | MMDadoda | 5/19/2025 2:40:35 PM | Peak Integrated by Software |
| VSTDICC001 | VN086669.D | 1,4-Dichlorobenzene | JOHN | 5/19/2025 9:33:07 AM | MMDadoda | 5/19/2025 2:40:35 PM | Peak Integrated by Software |
| VSTDICC001 | VN086669.D | Isopropyl Acetate | JOHN | 5/19/2025 9:33:07 AM | MMDadoda | 5/19/2025 2:40:35 PM | Peak Integrated by Software |
| VSTDICC005 | VN086670.D | 1,2,3-Trichloropropane | JOHN | 5/19/2025 9:33:13 AM | MMDadoda | 5/19/2025 2:40:36 PM | Peak Integrated by Software |
| VSTDICC005 | VN086670.D | Ethyl Acetate | JOHN | 5/19/2025 9:33:13 AM | MMDadoda | 5/19/2025 2:40:36 PM | Peak Integrated by Software |
| VSTDICC005 | VN086670.D | Vinyl Acetate | JOHN | 5/19/2025 9:33:13 AM | MMDadoda | 5/19/2025 2:40:36 PM | Peak Integrated by Software |
| VSTDICC010 | VN086671.D | 1,2,3-Trichloropropane | JOHN | 5/19/2025 9:33:17 AM | MMDadoda | 5/19/2025 2:40:45 PM | Peak Integrated by Software |
| VSTDICC010 | VN086671.D | Vinyl Acetate | JOHN | 5/19/2025 9:33:17 AM | MMDadoda | 5/19/2025 2:40:45 PM | Peak Integrated by Software |
| VSTDICC020 | VN086672.D | 1,2,3-Trichloropropane | JOHN | 5/19/2025 9:33:24 AM | MMDadoda | 5/19/2025 2:40:35 PM | Peak Integrated by Software |
| VSTDICCC050 | VN086673.D | 1,2,3-Trichloropropane | JOHN | 5/19/2025 9:33:44 AM | MMDadoda | 5/19/2025 2:40:38 PM | Peak Integrated by Software |
| VSTDICC100 | VN086674.D | 1,2,3-Trichloropropane | JOHN | 5/19/2025 9:33:48 AM | MMDadoda | 5/19/2025 2:40:42 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vn051625 | Instrument | MSVOA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICV050 | VN086676.D | 1,2,3-Trichloropropane | JOHN | 5/19/2025 9:33:53 AM | MMDadoda | 5/19/2025 2:40:47 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VN060325 | Instrument | MSVOA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VN086835.D | 1,2,3-Trichloropropane | JOHN | 6/4/2025 9:47:39 AM | MMDadoda | 6/4/2025 4:21:22 PM | Peak Integrated by Software |
| VN0603WBS01 | VN086837.D | 1,2,3-Trichloropropane | JOHN | 6/4/2025 9:47:43 AM | MMDadoda | 6/4/2025 4:21:23 PM | Peak Integrated by Software |
| VN0603WBSD01 | VN086838.D | 1,2,3-Trichloropropane | JOHN | 6/4/2025 9:47:48 AM | MMDadoda | 6/4/2025 4:21:25 PM | Peak Integrated by Software |
| Q2177-07 | VN086857.D | Methylene Chloride | JOHN | 6/4/2025 9:48:04 AM | MMDadoda | 6/4/2025 4:21:29 PM | Peak Integrated by Software |
| VSTDCCC050 | VN086860.D | 1,2,3-Trichloropropane | JOHN | 6/4/2025 9:48:08 AM | MMDadoda | 6/4/2025 4:21:30 PM | Peak Integrated by Software |

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**Instrument ID: MSVOA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # VN051625

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/19/2025 9:34:08 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/19/2025 2:40:58 PM | | |
| SubDirectory | VN051625 | HP Acquire Method | | HP Processing Method | 624N042325W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133946,VP133952 |
| Initial Calibration Stds | |
| CCC | VP133947,VP133948 |
| Internal Standard/PEM | |
| ICV/I.BLK | VP133981 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VN086660.D | 16 May 2025 09:17 | JC\MD | Ok |
| 2 | VSTDCCC020 | VN086661.D | 16 May 2025 11:37 | JC\MD | Ok,M |
| 3 | VN0516WBS01 | VN086662.D | 16 May 2025 12:13 | JC\MD | Ok,M |
| 4 | VN0516WBSD01 | VN086663.D | 16 May 2025 12:46 | JC\MD | Ok,M |
| 5 | VN0516WBL01 | VN086664.D | 16 May 2025 13:20 | JC\MD | Ok |
| 6 | Q2006-01 | VN086665.D | 16 May 2025 13:54 | JC\MD | Ok |
| 7 | IBLK | VN086666.D | 16 May 2025 14:46 | JC\MD | Ok |
| 8 | VSTDCCC020 | VN086667.D | 16 May 2025 15:09 | JC\MD | Ok,M |
| 9 | BFB | VN086668.D | 16 May 2025 15:33 | JC\MD | Ok |
| 10 | VSTDICC001 | VN086669.D | 16 May 2025 16:31 | JC\MD | Ok,M |
| 11 | VSTDICC005 | VN086670.D | 16 May 2025 16:55 | JC\MD | Ok,M |
| 12 | VSTDICC010 | VN086671.D | 16 May 2025 17:19 | JC\MD | Ok,M |
| 13 | VSTDICC020 | VN086672.D | 16 May 2025 17:43 | JC\MD | Ok,M |
| 14 | VSTDICCC050 | VN086673.D | 16 May 2025 18:08 | JC\MD | Ok,M |
| 15 | VSTDICC100 | VN086674.D | 16 May 2025 18:32 | JC\MD | Ok,M |
| 16 | IBLK | VN086675.D | 16 May 2025 18:56 | JC\MD | Ok |
| 17 | VSTDICV050 | VN086676.D | 16 May 2025 19:20 | JC\MD | Ok,M |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID: MSVOA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # VN060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 6/4/2025 9:49:12 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 6/4/2025 4:21:37 PM | | |
| SubDirectory | VN060325 | HP Acquire Method | | HP Processing Method | 82N051625W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134103 |
| Initial Calibration Stds | |
| CCC | VP134104,VP134105 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VN086834.D | 03 Jun 2025 10:47 | JC\MD | Ok |
| 2 | VSTDCCC050 | VN086835.D | 03 Jun 2025 11:30 | JC\MD | Ok,M |
| 3 | VN0603WBL01 | VN086836.D | 03 Jun 2025 12:10 | JC\MD | Ok |
| 4 | VN0603WBS01 | VN086837.D | 03 Jun 2025 12:46 | JC\MD | Ok,M |
| 5 | VN0603WBSD01 | VN086838.D | 03 Jun 2025 13:20 | JC\MD | Ok,M |
| 6 | PB168225TB | VN086839.D | 03 Jun 2025 13:44 | JC\MD | Ok |
| 7 | PB168225ZHE#01 | VN086840.D | 03 Jun 2025 14:08 | JC\MD | Ok |
| 8 | PB168225ZHE#02 | VN086841.D | 03 Jun 2025 14:33 | JC\MD | Ok |
| 9 | PB168225ZHE#03 | VN086842.D | 03 Jun 2025 14:57 | JC\MD | Ok |
| 10 | PB168225ZHE#04 | VN086843.D | 03 Jun 2025 15:21 | JC\MD | Ok |
| 11 | PB168225ZHE#05 | VN086844.D | 03 Jun 2025 15:45 | JC\MD | Ok |
| 12 | PB168225ZHE#06 | VN086845.D | 03 Jun 2025 16:09 | JC\MD | Ok |
| 13 | PB168225ZHE#07 | VN086846.D | 03 Jun 2025 16:34 | JC\MD | Ok |
| 14 | PB168225ZHE#08 | VN086847.D | 03 Jun 2025 16:58 | JC\MD | Ok |
| 15 | PB168225ZHE#09 | VN086848.D | 03 Jun 2025 17:22 | JC\MD | Ok |
| 16 | PB168225ZHE#10 | VN086849.D | 03 Jun 2025 17:46 | JC\MD | Ok |
| 17 | PB168225ZHE#11 | VN086850.D | 03 Jun 2025 18:11 | JC\MD | Ok |
| 18 | PB168225ZHE#12 | VN086851.D | 03 Jun 2025 18:36 | JC\MD | Ok,M |
| 19 | PB168225ZHE#13 | VN086852.D | 03 Jun 2025 18:59 | JC\MD | Ok |
| 20 | PB168225ZHE#14 | VN086853.D | 03 Jun 2025 19:23 | JC\MD | Ok |
| 21 | PB168225ZHE#15 | VN086854.D | 03 Jun 2025 19:48 | JC\MD | Ok |

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**Instrument ID: MSVOA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # VN060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 6/4/2025 9:49:12 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 6/4/2025 4:21:37 PM | | |
| SubDirectory | VN060325 | HP Acquire Method | | HP Processing Method | 82N051625W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134103 |
| Initial Calibration Stds | |
| CCC | VP134104,VP134105 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2177-03 | VN086855.D | 03 Jun 2025 20:12 | JC\MD | Ok |
| 23 | Q2177-05 | VN086856.D | 03 Jun 2025 20:36 | JC\MD | Ok |
| 24 | Q2177-07 | VN086857.D | 03 Jun 2025 21:00 | JC\MD | Ok,M |
| 25 | Q2185-04 | VN086858.D | 03 Jun 2025 21:25 | JC\MD | Ok |
| 26 | Q2185-08 | VN086859.D | 03 Jun 2025 21:49 | JC\MD | Ok |
| 27 | VSTDCCC050 | VN086860.D | 03 Jun 2025 22:13 | JC\MD | Ok,M |

M : Manual Integration

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**Instrument ID:** MSVOA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN051625

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/19/2025 9:34:08 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/19/2025 2:40:58 PM | | |
| SubDirectory | VN051625 | HP Acquire Method | | HP Processing Method | 624N042325W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133946,VP133952 |
| Initial Calibration Stds | |
| CCC | VP133947,VP133948 |
| Internal Standard/PEM | |
| ICV/I.BLK | VP133981 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VN086660.D | 16 May 2025 09:17 | | JC\MD | Ok |
| 2 | VSTDCCC020 | VSTDCCC020 | VN086661.D | 16 May 2025 11:37 | pH#Lot#V12668 | JC\MD | Ok,M |
| 3 | VN0516WBS01 | VN0516WBS01 | VN086662.D | 16 May 2025 12:13 | | JC\MD | Ok,M |
| 4 | VN0516WBSD01 | VN0516WBSD01 | VN086663.D | 16 May 2025 12:46 | | JC\MD | Ok,M |
| 5 | VN0516WBL01 | VN0516WBL01 | VN086664.D | 16 May 2025 13:20 | | JC\MD | Ok |
| 6 | Q2006-01 | EFF-WW | VN086665.D | 16 May 2025 13:54 | vial A pH<2 | JC\MD | Ok |
| 7 | IBLK | IBLK | VN086666.D | 16 May 2025 14:46 | | JC\MD | Ok |
| 8 | VSTDCCC020 | VSTDCCC020EC | VN086667.D | 16 May 2025 15:09 | | JC\MD | Ok,M |
| 9 | BFB | BFB | VN086668.D | 16 May 2025 15:33 | | JC\MD | Ok |
| 10 | VSTDICC001 | VSTDICC001 | VN086669.D | 16 May 2025 16:31 | | JC\MD | Ok,M |
| 11 | VSTDICC005 | VSTDICC005 | VN086670.D | 16 May 2025 16:55 | | JC\MD | Ok,M |
| 12 | VSTDICC010 | VSTDICC010 | VN086671.D | 16 May 2025 17:19 | | JC\MD | Ok,M |
| 13 | VSTDICC020 | VSTDICC020 | VN086672.D | 16 May 2025 17:43 | | JC\MD | Ok,M |
| 14 | VSTDICCC050 | VSTDICCC050 | VN086673.D | 16 May 2025 18:08 | | JC\MD | Ok,M |
| 15 | VSTDICC100 | VSTDICC100 | VN086674.D | 16 May 2025 18:32 | | JC\MD | Ok,M |
| 16 | IBLK | IBLK | VN086675.D | 16 May 2025 18:56 | | JC\MD | Ok |
| 17 | VSTDICV050 | ICVVN051625 | VN086676.D | 16 May 2025 19:20 | | JC\MD | Ok,M |

M : Manual Integration

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**Instrument ID:** MSVOA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 6/4/2025 9:49:12 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 6/4/2025 4:21:37 PM | | |
| SubDirectory | VN060325 | HP Acquire Method | | HP Processing Method | 82N051625W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134103 |
| Initial Calibration Stds | |
| CCC | VP134104,VP134105 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VN086834.D | 03 Jun 2025 10:47 | | JC\MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VN086835.D | 03 Jun 2025 11:30 | pH#Lot#V12668 | JC\MD | Ok,M |
| 3 | VN0603WBL01 | VN0603WBL01 | VN086836.D | 03 Jun 2025 12:10 | | JC\MD | Ok |
| 4 | VN0603WBS01 | VN0603WBS01 | VN086837.D | 03 Jun 2025 12:46 | | JC\MD | Ok,M |
| 5 | VN0603WBSD01 | VN0603WBSD01 | VN086838.D | 03 Jun 2025 13:20 | | JC\MD | Ok,M |
| 6 | PB168225TB | PB168225TB | VN086839.D | 03 Jun 2025 13:44 | | JC\MD | Ok |
| 7 | PB168225ZHE#01 | PB168225ZHE#01 | VN086840.D | 03 Jun 2025 14:08 | | JC\MD | Ok |
| 8 | PB168225ZHE#02 | PB168225ZHE#02 | VN086841.D | 03 Jun 2025 14:33 | | JC\MD | Ok |
| 9 | PB168225ZHE#03 | PB168225ZHE#03 | VN086842.D | 03 Jun 2025 14:57 | | JC\MD | Ok |
| 10 | PB168225ZHE#04 | PB168225ZHE#04 | VN086843.D | 03 Jun 2025 15:21 | | JC\MD | Ok |
| 11 | PB168225ZHE#05 | PB168225ZHE#05 | VN086844.D | 03 Jun 2025 15:45 | | JC\MD | Ok |
| 12 | PB168225ZHE#06 | PB168225ZHE#06 | VN086845.D | 03 Jun 2025 16:09 | | JC\MD | Ok |
| 13 | PB168225ZHE#07 | PB168225ZHE#07 | VN086846.D | 03 Jun 2025 16:34 | | JC\MD | Ok |
| 14 | PB168225ZHE#08 | PB168225ZHE#08 | VN086847.D | 03 Jun 2025 16:58 | | JC\MD | Ok |
| 15 | PB168225ZHE#09 | PB168225ZHE#09 | VN086848.D | 03 Jun 2025 17:22 | | JC\MD | Ok |
| 16 | PB168225ZHE#10 | PB168225ZHE#10 | VN086849.D | 03 Jun 2025 17:46 | | JC\MD | Ok |
| 17 | PB168225ZHE#11 | PB168225ZHE#11 | VN086850.D | 03 Jun 2025 18:11 | | JC\MD | Ok |
| 18 | PB168225ZHE#12 | PB168225ZHE#12 | VN086851.D | 03 Jun 2025 18:36 | | JC\MD | Ok,M |

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**Instrument ID:** MSVOA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 6/4/2025 9:49:12 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 6/4/2025 4:21:37 PM | | |
| SubDirectory | VN060325 | HP Acquire Method | | HP Processing Method | 82N051625W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134103 |
| Initial Calibration Stds | |
| CCC | VP134104,VP134105 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | PB168225ZHE#13 | PB168225ZHE#13 | VN086852.D | 03 Jun 2025 18:59 | | JC\MD | Ok |
| 20 | PB168225ZHE#14 | PB168225ZHE#14 | VN086853.D | 03 Jun 2025 19:23 | | JC\MD | Ok |
| 21 | PB168225ZHE#15 | PB168225ZHE#15 | VN086854.D | 03 Jun 2025 19:48 | | JC\MD | Ok |
| 22 | Q2177-03 | B-187-SB01 | VN086855.D | 03 Jun 2025 20:12 | vial A pH#5.0 | JC\MD | Ok |
| 23 | Q2177-05 | B-187-SB02 | VN086856.D | 03 Jun 2025 20:36 | vial A pH#5.0 | JC\MD | Ok |
| 24 | Q2177-07 | B-202-SB01 | VN086857.D | 03 Jun 2025 21:00 | vial A pH#5.0 | JC\MD | Ok,M |
| 25 | Q2185-04 | TP02-MHB-WC | VN086858.D | 03 Jun 2025 21:25 | vial A pH#5.0 | JC\MD | Ok |
| 26 | Q2185-08 | TP01-MHB-WC | VN086859.D | 03 Jun 2025 21:49 | vial A pH#5.0 | JC\MD | Ok |
| 27 | VSTDCCC050 | VSTDCCC050EC | VN086860.D | 03 Jun 2025 22:13 | | JC\MD | Ok,M |

M : Manual Integration

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2177 | **OrderDate:** | 6/2/2025 11:19:00 AM |
| **Client:** | Portal Partners Tri-Venture | **Project:** | Amtrak Sawtooth Bridges 2025 |
| **Contact:** | Joseph Krupansky | **Location:** | L41,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2177-03** | **B-187-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP VOA | 8260D | | | 06/03/25 | |
| **Q2177-05** | **B-187-SB02** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP VOA | 8260D | | | 06/03/25 | |
| **Q2177-07** | **B-202-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP VOA | 8260D | | | 06/03/25 | |

Alliance TECHNICAL GROUP

**TCLP EXTRACTION LOGPAGE**

PB168225

**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 :** ZHE-1 / ZHE-2

**TCLP Filter ID :** 50223706

**Start Prep Date :** 06/02/2025 **Time :** 16:00

**End Prep Date :** 06/03/2025 **Time :** 09:15

**Combination Ratio :** 20

**ZHE Cleaning Batch :** ~~N/A~~ JP JN060325,

**Initial Room Temperature:** 22 °C

**Final Room Temperature:** 21 °C

**TCLP Technician Signature :** JP

**Supervisor By :** SJ

| 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 | WP112795 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| 40ml VOA Vials | 430992 | N/A |

**Extraction Conformance/Non-Conformance Comments:**

TUMBLER ZHE-1 /ZHE-2 checked,30 rpm. ALL ZHE samples are extracted and given as vial A & B. Leak checked after 10 minutes of tumbling.

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 06/03/25 11:00 | JP TCLP Room | SJ VOC Lab |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**TCLP EXTRACTION LOGPAGE**

PB168225

| Sample ID | ClientID | ZHE Vessel ID | Sample Wt (g) | Volume Extraction Fluid #1 (mL) | Multi phasic | Phase Miscible | Phases Combined | Final Leachate PH | Metals Leachate Adj. PH | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| PB168225TB | LEB225 | 16 | N/A | 500 | N/A | N/A | N/A | 4.93 | N/A | ZHE-2 |
| Q2159-04 | TP05-MHO-WC | 01 | 25.03 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| Q2160-04 | TP04-MHG-WC | 02 | 25.02 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| Q2160-08 | TP05-MHH-WC | 03 | 25.01 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| Q2168-04 | A3 | 04 | 25.02 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| Q2168-08 | B3 | 05 | 25.03 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| Q2168-12 | C2 | 06 | 25.04 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| Q2172-04 | TP06-MHQ | 07 | 25.03 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | 08 | 25.04 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | 09 | 25.03 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | 10 | 25.02 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-1 |
| Q2177-03 | B-187-SB01 | 11 | 25.02 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-2 |
| Q2177-05 | B-187-SB02 | 12 | 25.01 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-2 |
| Q2177-07 | B-202-SB01 | 13 | 25.03 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-2 |
| Q2185-04 | TP02-MHB-WC | 14 | 25.02 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-2 |
| Q2185-08 | TP01-MHB-WC | 15 | 25.03 | 500 | N/A | N/A | N/A | N/A | N/A | ZHE-2 |

| SampleID | ClientID | Sample Weight (g) | Filter Weight (g) | Filtrate (mL) | Filter + Solid (After 100°C) | % solids | % Dry Solids |
|---|---|---|---|---|---|---|---|
| PB168225TB | LEB225 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2159-04 | TP05-MHO-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2160-04 | TP04-MHG-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2160-08 | TP05-MHH-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2168-04 | A3 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2168-08 | B3 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2168-12 | C2 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2172-04 | TP06-MHQ | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2173-06 | OR-400-CF-402B-COMP-23 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2173-12 | OR-400-CF-402B-COMP-24 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2173-18 | OR-400-CF-402B-COMP-25 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2177-03 | B-187-SB01 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2177-05 | B-187-SB02 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2177-07 | B-202-SB01 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2185-04 | TP02-MHB-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2185-08 | TP01-MHB-WC | N/A | N/A | N/A | N/A | 100 | N/A |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** tclp zhe q2177 **WorkList ID :** 189872 **Department :** TCLP Extraction **Date :** 06-02-2025 12:11:51

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2159-04 | TP05-MHO-WC | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 | 1311 ZHE |
| Q2160-04 | TP04-MHG-WC | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 | 1311 ZHE |
| Q2160-08 | TP05-MHH-WC | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 | 1311 ZHE |
| Q2168-04 | A3 | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 | 1311 ZHE |
| Q2168-08 | B3 | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 1311 ZHE |
| Q2168-12 | C2 | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 1311 ZHE |
| Q2172-04 | TP06-MHQ | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 1311 ZHE |
| Q2173-06 | OR-400-CF-402B-COMP-23 | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 1311 ZHE |
| Q2173-12 | OR-400-CF-402B-COMP-24 | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 1311 ZHE |
| Q2173-18 | OR-400-CF-402B-COMP-25 | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 1311 ZHE |
| Q2177-03 | B-187-SB01 | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 1311 ZHE |
| Q2177-05 | B-187-SB02 | Solid | TCLP ZHE Extraction | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 1311 ZHE |
| Q2177-07 | B-202-SB01 | Solid | TCLP ZHE Extraction | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 1311 ZHE |
| Q2185-04 | TP02-MHB-WC | Solid | TCLP ZHE Extraction | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 1311 ZHE |
| Q2185-08 | TP01-MHB-WC | Solid | TCLP ZHE Extraction | Cool 4 deg C | PSEG03 | L31 | 06/02/2025 | 1311 ZHE |
| | | | | | PSEG03 | L31 | 06/02/2025 | 1311 ZHE |

**Date/Time** 06/02/25 15:00
**Raw Sample Received by:** [signature]
**Raw Sample Relinquished by:** [signature] SM



**Date/Time** 06/02/25 17:30
**Raw Sample Received by:** [signature] SM
**Raw Sample Relinquished by:** [signature]

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Fax : 908 789 8922

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID :** | **B-187-SB01** | | | | | | | | |
| Q2177-02 | B-187-SB01 | SOIL | Naphthalene | | 640.000 | | 26.9 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | 2-Methylnaphthalene | | 250.000 | | 30.3 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | 1,1-Biphenyl | | 100.000 | J | 25.8 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Acenaphthene | | 1,500.000 | | 25.2 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Dibenzofuran | | 880.000 | | 26.9 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Fluorene | | 1,200.000 | | 30 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Phenanthrene | | 8,800.000 | E | 24.8 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Anthracene | | 2,700.000 | | 39.5 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Carbazole | | 1,000.000 | | 37 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Fluoranthene | | 8,200.000 | E | 35.6 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Pyrene | | 7,400.000 | E | 42.7 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Benzo(a)anthracene | | 3,800.000 | E | 27.3 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Chrysene | | 3,300.000 | E | 23.6 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Benzo(b)fluoranthene | | 3,900.000 | E | 22.5 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Benzo(k)fluoranthene | | 1,400.000 | | 26.6 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Benzo(a)pyrene | | 3,400.000 | E | 35 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Indeno(1,2,3-cd)pyrene | | 1,700.000 | | 34.5 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Dibenzo(a,h)anthracene | | 480.000 | | 32.5 | 200 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Benzo(g,h,i)perylene | | 2,000.000 | | 30.5 | 200 | ug/Kg |
| | | | **Total Svoc :** | | **52,650.00** | | | | |
| Q2177-02 | B-187-SB01 | SOIL | 1H-Cyclopropa[l]phenanthrene,1a | * | 500.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 250.000 | AB | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | 4H-Cyclopenta[def]phenanthrene | * | 1,700.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | 9,10-Anthracenedione | * | 420.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | 9H-Fluoren-9-one | * | 250.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | 9H-Fluorene, 2-methyl- | * | 380.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Acridine | * | 270.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Benzo[e]pyrene | * | 760.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Benzo[j]fluoranthene | * | 1,400.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Benzophenone | * | 630.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Cyclopenta(def)phenanthrenone | * | 370.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Dibenzo[a,e]cyclooctene | * | 280.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Dibenzothiophene | * | 660.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Phenanthrene, 1-methyl- | * | 1,300.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Phenanthrene, 2,5-dimethyl- | * | 350.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Phenanthrene, 2-methyl- | * | 810.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Phenanthrene, 4-methyl- | * | 430.000 | J | 0 | 0 | ug/Kg |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q2177-02 | B-187-SB01 | SOIL | Tridecane | * | 450.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Naphthalene, 2-phenyl- | * | 750.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Perylene | * | 2,900.000 | J | 0 | 0 | ug/Kg |
| Q2177-02 | B-187-SB01 | SOIL | 1-Methylnaphthalene | * | 190.000 | J | 30.6 | 200 | ug/Kg |
| | | | **Total Tics :** | | **15,050.00** | | | | |
| | | | **Total Concentration:** | | **67,700.00** | | | | |
| **Client ID :** | **B-187-SB01DL** | | | | | | | | |
| Q2177-02DL | B-187-SB01DL | SOIL | Naphthalene | | 670.000 | JD | 130 | 1000 | ug/Kg |
| Q2177-02DL | B-187-SB01DL | SOIL | Acenaphthene | | 1,700.000 | D | 130 | 1000 | ug/Kg |
| Q2177-02DL | B-187-SB01DL | SOIL | Dibenzofuran | | 930.000 | JD | 130 | 1000 | ug/Kg |
| Q2177-02DL | B-187-SB01DL | SOIL | Fluorene | | 1,200.000 | D | 150 | 1000 | ug/Kg |
| Q2177-02DL | B-187-SB01DL | SOIL | Phenanthrene | | 11,700.000 | D | 120 | 1000 | ug/Kg |
| Q2177-02DL | B-187-SB01DL | SOIL | Anthracene | | 3,000.000 | D | 200 | 1000 | ug/Kg |
| Q2177-02DL | B-187-SB01DL | SOIL | Carbazole | | 1,100.000 | D | 180 | 1000 | ug/Kg |
| Q2177-02DL | B-187-SB01DL | SOIL | Fluoranthene | | 11,900.000 | D | 180 | 1000 | ug/Kg |
| Q2177-02DL | B-187-SB01DL | SOIL | Pyrene | | 9,000.000 | D | 210 | 1000 | ug/Kg |
| Q2177-02DL | B-187-SB01DL | SOIL | Benzo(a)anthracene | | 4,100.000 | D | 140 | 1000 | ug/Kg |
| Q2177-02DL | B-187-SB01DL | SOIL | Chrysene | | 3,600.000 | D | 120 | 1000 | ug/Kg |
| Q2177-02DL | B-187-SB01DL | SOIL | Benzo(b)fluoranthene | | 4,200.000 | D | 110 | 1000 | ug/Kg |
| Q2177-02DL | B-187-SB01DL | SOIL | Benzo(k)fluoranthene | | 1,500.000 | D | 130 | 1000 | ug/Kg |
| Q2177-02DL | B-187-SB01DL | SOIL | Benzo(a)pyrene | | 3,600.000 | D | 170 | 1000 | ug/Kg |
| Q2177-02DL | B-187-SB01DL | SOIL | Indeno(1,2,3-cd)pyrene | | 1,800.000 | D | 170 | 1000 | ug/Kg |
| Q2177-02DL | B-187-SB01DL | SOIL | Dibenzo(a,h)anthracene | | 490.000 | JD | 160 | 1000 | ug/Kg |
| Q2177-02DL | B-187-SB01DL | SOIL | Benzo(g,h,i)perylene | | 2,100.000 | D | 150 | 1000 | ug/Kg |
| | | | **Total Svoc :** | | **62,590.00** | | | | |
| | | | **Total Concentration:** | | **62,590.00** | | | | |
| **Client ID :** | **B-187-SB02** | | | | | | | | |
| Q2177-04 | B-187-SB02 | SOIL | 1,1-Biphenyl, 5,2,3,4-tetramet | * | 280.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | 1,2,4,8-Tetramethylbicyclo[6.3.0]u | * | 180.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | 1,2-Dodecanediol | * | 130.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | 10,18-Bisnorabieta-5,7,9(10),11,1 | * | 690.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | 12-Tricosanol | * | 1,000.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | 16-Hentriacontanol | * | 260.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 340.000 | AB | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | 4b,8-Dimethyl-2-isopropylphenan | * | 1,600.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | 6-Isopropenyl-4,8a-dimethyl-4a,5, | * | 270.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Benzophenone | * | 340.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | n-Hexadecanoic acid | * | 210.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Octadecyl trifluoroacetate | * | 510.000 | J | 0 | 0 | ug/Kg |

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# Hit Summary Sheet
## SW-846

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q2177-04 | B-187-SB02 | SOIL | p-Cymene | * | 590.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Retene | * | 1,100.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Tetrahydroabietic acid | * | 150.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | unknown12.174 | * | 210.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | unknown14.239 | * | 130.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | unknown17.674 | * | 200.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | unknown17.762 | * | 150.000 | J | 0 | 0 | ug/Kg |
| Q2177-04 | B-187-SB02 | SOIL | unknown18.274 | * | 550.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **8,890.00** | | | | |
| | | | **Total Concentration:** | | **8,890.00** | | | | |
| **Client ID :** | **B-202-SB01** | | | | | | | | |
| Q2177-06 | B-202-SB01 | SOIL | Phenanthrene | | 230.000 | | 24.4 | 200 | ug/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Fluoranthene | | 250.000 | | 35 | 200 | ug/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Pyrene | | 220.000 | | 42 | 200 | ug/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Benzo(a)anthracene | | 92.000 | J | 26.9 | 200 | ug/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Chrysene | | 95.100 | J | 23.2 | 200 | ug/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Benzo(b)fluoranthene | | 99.000 | J | 22.2 | 200 | ug/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Benzo(a)pyrene | | 87.100 | J | 34.5 | 200 | ug/Kg |
| | | | **Total Svoc :** | | **1,073.20** | | | | |
| Q2177-06 | B-202-SB01 | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 250.000 | AB | 0 | 0 | ug/Kg |
| Q2177-06 | B-202-SB01 | SOIL | n-Hexadecanoic acid | * | 260.000 | J | 0 | 0 | ug/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Benzophenone | * | 380.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **890.00** | | | | |
| | | | **Total Concentration:** | | **1,963.20** | | | | |
| **Client ID :** | **EB05312025** | | | | | | | | |
| Q2177-08 | EB05312025 | WATER | 1-Ethyl-2-pyrrolidinone | * | 5.500 | J | 0 | 0 | ug/L |
| Q2177-08 | EB05312025 | WATER | 1-Propanol, 2-(2-hydroxypropoxy | * | 30.400 | J | 0 | 0 | ug/L |
| Q2177-08 | EB05312025 | WATER | 2-Pentanone, 4-hydroxy-4-methyl | * | 3.700 | AB | 0 | 0 | ug/L |
| Q2177-08 | EB05312025 | WATER | 2-Propanol, 1-(2-butoxy-1-methyl | * | 24.300 | J | 0 | 0 | ug/L |
| Q2177-08 | EB05312025 | WATER | 2-Propanol, 1-butoxy- | * | 4.200 | J | 0 | 0 | ug/L |
| | | | **Total Tics :** | | **68.10** | | | | |
| | | | **Total Concentration:** | | **68.10** | | | | |

# SAMPLE DATA

Raw Data: **BP024895.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 84.2 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BP024895.D | 1 | 06/04/25 12:45 | 06/10/25 15:46 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 180 | U | 180 | 390 | ug/Kg |
| 108-95-2 | Phenol | 26.2 | U | 26.2 | 200 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 28.8 | U | 28.8 | 200 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 28.9 | U | 28.9 | 200 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 35.4 | U | 35.4 | 200 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 44.4 | U | 44.4 | 200 | ug/Kg |
| 98-86-2 | Acetophenone | 35.0 | U | 35.0 | 200 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 48.7 | U | 48.7 | 390 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 56.2 | U | 56.2 | 94.8 | ug/Kg |
| 67-72-1 | Hexachloroethane | 20.9 | U | 20.9 | 200 | ug/Kg |
| 98-95-3 | Nitrobenzene | 21.7 | U | 21.7 | 200 | ug/Kg |
| 78-59-1 | Isophorone | 38.9 | U | 38.9 | 200 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 69.0 | U | 69.0 | 200 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 76.8 | U | 76.8 | 200 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 36.5 | U | 36.5 | 200 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 33.5 | U | 33.5 | 200 | ug/Kg |
| 91-20-3 | Naphthalene | 640 | | 26.9 | 200 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 42.0 | UQ | 42.0 | 200 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 30.0 | U | 30.0 | 200 | ug/Kg |
| 105-60-2 | Caprolactam | 61.8 | U | 61.8 | 390 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 34.0 | U | 34.0 | 200 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 250 | | 30.3 | 200 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 140 | U | 140 | 390 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 23.5 | U | 23.5 | 200 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 34.5 | U | 34.5 | 200 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 100 | J | 25.8 | 200 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 26.7 | U | 26.7 | 200 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 57.0 | U | 57.0 | 200 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 32.1 | U | 32.1 | 200 | ug/Kg |

Raw Data: **BP024895.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 84.2 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BP024895.D | 1 | 06/04/25 12:45 | 06/10/25 15:46 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 34.3 | U | 34.3 | 200 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 39.8 | U | 39.8 | 200 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 54.5 | UQ | 54.5 | 200 | ug/Kg |
| 83-32-9 | Acenaphthene | 1500 | | 25.2 | 200 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 270 | U | 270 | 390 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 130 | U | 130 | 390 | ug/Kg |
| 132-64-9 | Dibenzofuran | 880 | | 26.9 | 200 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 59.4 | U | 59.4 | 200 | ug/Kg |
| 84-66-2 | Diethylphthalate | 33.5 | U | 33.5 | 200 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 31.6 | U | 31.6 | 200 | ug/Kg |
| 86-73-7 | Fluorene | 1200 | | 30.0 | 200 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 76.1 | U | 76.1 | 200 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 120 | 390 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 39.0 | U | 39.0 | 200 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 33.0 | U | 33.0 | 200 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 30.0 | U | 30.0 | 200 | ug/Kg |
| 1912-24-9 | Atrazine | 40.3 | U | 40.3 | 200 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 60.8 | U | 60.8 | 390 | ug/Kg |
| 85-01-8 | Phenanthrene | 8800 | E | 24.8 | 200 | ug/Kg |
| 120-12-7 | Anthracene | 2700 | | 39.5 | 200 | ug/Kg |
| 86-74-8 | Carbazole | 1000 | | 37.0 | 200 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 56.8 | U | 56.8 | 200 | ug/Kg |
| 206-44-0 | Fluoranthene | 8200 | E | 35.6 | 200 | ug/Kg |
| 129-00-0 | Pyrene | 7400 | E | 42.7 | 200 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 84.6 | U | 84.6 | 200 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 43.5 | UQ | 43.5 | 390 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 3800 | E | 27.3 | 200 | ug/Kg |
| 218-01-9 | Chrysene | 3300 | E | 23.6 | 200 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 70.2 | U | 70.2 | 200 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 100 | U | 100 | 390 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 3900 | E | 22.5 | 200 | ug/Kg |

Raw Data: **BP024895.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 84.2 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BP024895.D | 1 | 06/04/25 12:45 | 06/10/25 15:46 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1400 | | 26.6 | 200 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 3400 | E | 35.0 | 200 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1700 | | 34.5 | 200 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 480 | | 32.5 | 200 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 2000 | | 30.5 | 200 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 30.3 | U | 30.3 | 200 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 53.6 | U | 53.6 | 200 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 32.5 | U | 32.5 | 200 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 106 | | 30 (18) - 130 (112) | 70% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 105 | | 30 (15) - 130 (107) | 70% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 62.0 | | 30 (18) - 130 (107) | 62% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 59.3 | | 30 (20) - 130 (109) | 59% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 112 | | 30 (10) - 130 (116) | 74% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 56.2 | | 30 (10) - 130 (105) | 56% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 260000 | 7.607 | | | |
| 1146-65-2 | Naphthalene-d8 | 1060000 | 10.378 | | | |
| 15067-26-2 | Acenaphthene-d10 | 672000 | 14.26 | | | |
| 1517-22-2 | Phenanthrene-d10 | 1300000 | 17.072 | | | |
| 1719-03-5 | Chrysene-d12 | 1320000 | 21.507 | | | |
| 1520-96-3 | Perylene-d12 | 1600000 | 24.76 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 250 | AB | | 4.77 | ug/Kg |
| 000629-50-5 | Tridecane | 450 | J | | 11.8 | ug/Kg |
| 90-12-0 | 1-Methylnaphthalene | 190 | J | | 12.3 | ug/Kg |
| 000119-61-9 | Benzophenone | 630 | J | | 15.6 | ug/Kg |
| 001430-97-3 | 9H-Fluorene, 2-methyl- | 380 | J | | 16.4 | ug/Kg |
| 000486-25-9 | 9H-Fluoren-9-one | 250 | J | | 16.7 | ug/Kg |
| 000132-65-0 | Dibenzothiophene | 660 | J | | 16.9 | ug/Kg |

Raw Data: **BP024895.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 84.2 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BP024895.D | 1 | 06/04/25 12:45 | 06/10/25 15:46 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 000260-94-6 | Acridine | 270 | J | | 17.3 | ug/Kg |
| 000262-89-5 | Dibenzo[a,e]cyclooctene | 280 | J | | 17.6 | ug/Kg |
| 002531-84-2 | Phenanthrene, 2-methyl- | 810 | J | | 18.0 | ug/Kg |
| 000832-69-9 | Phenanthrene, 1-methyl- | 1300 | J | | 18.0 | ug/Kg |
| 000949-41-7 | 1H-Cyclopropa[l]phenanthrene,1a,9b | 500 | J | | 18.1 | ug/Kg |
| 000203-64-5 | 4H-Cyclopenta[def]phenanthrene | 1700 | J | | 18.2 | ug/Kg |
| 000832-64-4 | Phenanthrene, 4-methyl- | 430 | J | | 18.2 | ug/Kg |
| 000612-94-2 | Naphthalene, 2-phenyl- | 750 | J | | 18.5 | ug/Kg |
| 000084-65-1 | 9,10-Anthracenedione | 420 | J | | 18.5 | ug/Kg |
| 003674-66-6 | Phenanthrene, 2,5-dimethyl- | 350 | J | | 18.9 | ug/Kg |
| 005737-13-3 | Cyclopenta(def)phenanthrenone | 370 | J | | 19.1 | ug/Kg |
| 000192-97-2 | Benzo[e]pyrene | 760 | J | | 24.0 | ug/Kg |
| 000198-55-0 | Perylene | 2900 | J | | 24.5 | ug/Kg |
| 000205-82-3 | Benzo[j]fluoranthene | 1400 | J | | 24.8 | 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: **BP024917.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01DL | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02DL | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 84.2 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BP024917.D | 5 | 06/04/25 12:45 | 06/11/25 18:27 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 920 | UD | 920 | 2000 | ug/Kg |
| 108-95-2 | Phenol | 130 | UD | 130 | 1000 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 140 | UD | 140 | 1000 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 140 | UD | 140 | 1000 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 180 | UD | 180 | 1000 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 220 | UD | 220 | 1000 | ug/Kg |
| 98-86-2 | Acetophenone | 170 | UD | 170 | 1000 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 240 | UD | 240 | 2000 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 280 | UD | 280 | 470 | ug/Kg |
| 67-72-1 | Hexachloroethane | 100 | UD | 100 | 1000 | ug/Kg |
| 98-95-3 | Nitrobenzene | 110 | UD | 110 | 1000 | ug/Kg |
| 78-59-1 | Isophorone | 190 | UD | 190 | 1000 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 340 | UD | 340 | 1000 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 380 | UD | 380 | 1000 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 180 | UD | 180 | 1000 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 170 | UD | 170 | 1000 | ug/Kg |
| 91-20-3 | Naphthalene | 670 | JD | 130 | 1000 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 210 | UDQ | 210 | 1000 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 150 | UD | 150 | 1000 | ug/Kg |
| 105-60-2 | Caprolactam | 310 | UD | 310 | 2000 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 170 | UD | 170 | 1000 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 150 | UD | 150 | 1000 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 690 | UD | 690 | 2000 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 120 | UD | 120 | 1000 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 170 | UD | 170 | 1000 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 130 | UD | 130 | 1000 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 130 | UD | 130 | 1000 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 290 | UD | 290 | 1000 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 160 | UD | 160 | 1000 | ug/Kg |

Raw Data: **BP024917.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01DL | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02DL | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 84.2 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BP024917.D | 5 | 06/04/25 12:45 | 06/11/25 18:27 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 170 | UD | 170 | 1000 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 200 | UD | 200 | 1000 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 270 | UDQ | 270 | 1000 | ug/Kg |
| 83-32-9 | Acenaphthene | 1700 | D | 130 | 1000 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 1400 | UD | 1400 | 2000 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 630 | UD | 630 | 2000 | ug/Kg |
| 132-64-9 | Dibenzofuran | 930 | JD | 130 | 1000 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 300 | UD | 300 | 1000 | ug/Kg |
| 84-66-2 | Diethylphthalate | 170 | UD | 170 | 1000 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 160 | UD | 160 | 1000 | ug/Kg |
| 86-73-7 | Fluorene | 1200 | D | 150 | 1000 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 380 | UD | 380 | 1000 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 610 | UD | 610 | 2000 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 190 | UD | 190 | 1000 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 160 | UD | 160 | 1000 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 150 | UD | 150 | 1000 | ug/Kg |
| 1912-24-9 | Atrazine | 200 | UD | 200 | 1000 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 300 | UD | 300 | 2000 | ug/Kg |
| 85-01-8 | Phenanthrene | 11700 | D | 120 | 1000 | ug/Kg |
| 120-12-7 | Anthracene | 3000 | D | 200 | 1000 | ug/Kg |
| 86-74-8 | Carbazole | 1100 | D | 180 | 1000 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 280 | UD | 280 | 1000 | ug/Kg |
| 206-44-0 | Fluoranthene | 11900 | D | 180 | 1000 | ug/Kg |
| 129-00-0 | Pyrene | 9000 | D | 210 | 1000 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 420 | UD | 420 | 1000 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 220 | UDQ | 220 | 2000 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 4100 | D | 140 | 1000 | ug/Kg |
| 218-01-9 | Chrysene | 3600 | D | 120 | 1000 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 350 | UD | 350 | 1000 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 510 | UD | 510 | 2000 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 4200 | D | 110 | 1000 | ug/Kg |

Raw Data: **BP024917.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01DL | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02DL | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 84.2 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BP024917.D | 5 | 06/04/25 12:45 | 06/11/25 18:27 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1500 | D | 130 | 1000 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 3600 | D | 170 | 1000 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1800 | D | 170 | 1000 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 490 | JD | 160 | 1000 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 2100 | D | 150 | 1000 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 150 | UD | 150 | 1000 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 270 | UD | 270 | 1000 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 160 | UD | 160 | 1000 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 108 | | 30 (18) - 130 (112) | 72% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 104 | | 30 (15) - 130 (107) | 69% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 61.0 | | 30 (18) - 130 (107) | 61% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 63.1 | | 30 (20) - 130 (109) | 63% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 112 | | 30 (10) - 130 (116) | 75% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 58.1 | | 30 (10) - 130 (105) | 58% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 220000 | 7.613 | | | |
| 1146-65-2 | Naphthalene-d8 | 880000 | 10.384 | | | |
| 15067-26-2 | Acenaphthene-d10 | 533000 | 14.254 | | | |
| 1517-22-2 | Phenanthrene-d10 | 1070000 | 17.06 | | | |
| 1719-03-5 | Chrysene-d12 | 1300000 | 21.489 | | | |
| 1520-96-3 | Perylene-d12 | 1570000 | 24.754 | | | |

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: **BF142652.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-04 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 62.8 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142652.D | 1 | 06/04/25 12:45 | 06/06/25 18:01 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 250 | U | 250 | 530 | ug/Kg |
| 108-95-2 | Phenol | 35.2 | U | 35.2 | 270 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 38.7 | U | 38.7 | 270 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 38.8 | U | 38.8 | 270 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 47.6 | U | 47.6 | 270 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 59.7 | U | 59.7 | 270 | ug/Kg |
| 98-86-2 | Acetophenone | 46.9 | U | 46.9 | 270 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 65.4 | U | 65.4 | 530 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 75.4 | U | 75.4 | 130 | ug/Kg |
| 67-72-1 | Hexachloroethane | 28.0 | U | 28.0 | 270 | ug/Kg |
| 98-95-3 | Nitrobenzene | 29.1 | U | 29.1 | 270 | ug/Kg |
| 78-59-1 | Isophorone | 52.2 | U | 52.2 | 270 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 92.6 | U | 92.6 | 270 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 100 | U | 100 | 270 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 49.0 | U | 49.0 | 270 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 45.0 | U | 45.0 | 270 | ug/Kg |
| 91-20-3 | Naphthalene | 36.1 | U | 36.1 | 270 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 56.3 | UQ | 56.3 | 270 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 40.3 | U | 40.3 | 270 | ug/Kg |
| 105-60-2 | Caprolactam | 82.9 | U | 82.9 | 530 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 45.7 | U | 45.7 | 270 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 40.7 | U | 40.7 | 270 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 180 | U | 180 | 530 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 31.5 | U | 31.5 | 270 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 46.3 | U | 46.3 | 270 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 34.7 | U | 34.7 | 270 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 35.8 | U | 35.8 | 270 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 76.5 | U | 76.5 | 270 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 43.1 | U | 43.1 | 270 | ug/Kg |

Raw Data: **BF142652.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-04 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 62.8 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142652.D | 1 | 06/04/25 12:45 | 06/06/25 18:01 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 46.0 | U | 46.0 | 270 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 53.5 | U | 53.5 | 270 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 73.2 | UQ | 73.2 | 270 | ug/Kg |
| 83-32-9 | Acenaphthene | 33.9 | U | 33.9 | 270 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 360 | U | 360 | 530 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 170 | U | 170 | 530 | ug/Kg |
| 132-64-9 | Dibenzofuran | 36.1 | U | 36.1 | 270 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 79.7 | U | 79.7 | 270 | ug/Kg |
| 84-66-2 | Diethylphthalate | 45.0 | U | 45.0 | 270 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 42.5 | U | 42.5 | 270 | ug/Kg |
| 86-73-7 | Fluorene | 40.3 | U | 40.3 | 270 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 100 | U | 100 | 270 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 160 | U | 160 | 530 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 52.4 | U | 52.4 | 270 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 44.2 | U | 44.2 | 270 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 40.3 | U | 40.3 | 270 | ug/Kg |
| 1912-24-9 | Atrazine | 54.1 | U | 54.1 | 270 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 81.6 | U | 81.6 | 530 | ug/Kg |
| 85-01-8 | Phenanthrene | 33.3 | U | 33.3 | 270 | ug/Kg |
| 120-12-7 | Anthracene | 53.0 | U | 53.0 | 270 | ug/Kg |
| 86-74-8 | Carbazole | 49.6 | U | 49.6 | 270 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 76.2 | U | 76.2 | 270 | ug/Kg |
| 206-44-0 | Fluoranthene | 47.7 | U | 47.7 | 270 | ug/Kg |
| 129-00-0 | Pyrene | 57.3 | U | 57.3 | 270 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 110 | U | 110 | 270 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 58.4 | UQ | 58.4 | 530 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 36.6 | U | 36.6 | 270 | ug/Kg |
| 218-01-9 | Chrysene | 31.7 | U | 31.7 | 270 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 94.2 | U | 94.2 | 270 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 140 | U | 140 | 530 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 30.2 | U | 30.2 | 270 | ug/Kg |

Raw Data: **BF142652.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-04 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 62.8 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142652.D | 1 | 06/04/25 12:45 | 06/06/25 18:01 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 35.6 | U | 35.6 | 270 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 46.9 | U | 46.9 | 270 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 46.3 | U | 46.3 | 270 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 43.6 | U | 43.6 | 270 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 40.9 | U | 40.9 | 270 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 40.7 | U | 40.7 | 270 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 71.9 | U | 71.9 | 270 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 43.6 | U | 43.6 | 270 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 75.3 | | 30 (18) - 130 (112) | 50% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 78.1 | | 30 (15) - 130 (107) | 52% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 49.1 | | 30 (18) - 130 (107) | 49% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 47.2 | | 30 (20) - 130 (109) | 47% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 71.7 | | 30 (10) - 130 (116) | 48% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 32.0 | | 30 (10) - 130 (105) | 32% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 127000 | 6.892 | | | |
| 1146-65-2 | Naphthalene-d8 | 464000 | 8.175 | | | |
| 15067-26-2 | Acenaphthene-d10 | 242000 | 9.933 | | | |
| 1517-22-2 | Phenanthrene-d10 | 342000 | 11.422 | | | |
| 1719-03-5 | Chrysene-d12 | 233000 | 14.063 | | | |
| 1520-96-3 | Perylene-d12 | 282000 | 15.562 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 340 | AB | | 5.10 | ug/Kg |
| 000099-87-6 | p-Cymene | 590 | J | | 6.97 | ug/Kg |
| 000119-61-9 | Benzophenone | 340 | J | | 10.6 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 210 | J | | 11.9 | ug/Kg |
| | unknown12.174 | 210 | J | | 12.2 | ug/Kg |
| 1000197-14-1 | 4b,8-Dimethyl-2-isopropylphenanthr | 1600 | J | | 12.4 | ug/Kg |
| 006566-19-4 | 10,18-Bisnorabieta-5,7,9(10),11,13 | 690 | J | | 12.7 | ug/Kg |

Raw Data: **BF142652.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-04 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 62.8 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142652.D | 1 | 06/04/25 12:45 | 06/06/25 18:01 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 000483-65-8 | Retene | 1100 | J | | 13.1 | ug/Kg |
| 1000251-96-9 | Tetrahydroabietic acid | 150 | J | | 13.8 | ug/Kg |
| 079392-43-1 | Octadecyl trifluoroacetate | 510 | J | | 13.9 | ug/Kg |
| | unknown14.239 | 130 | J | | 14.2 | ug/Kg |
| 024897-74-3 | 12-Tricosanol | 1000 | J | | 14.5 | ug/Kg |
| 119101-30-3 | 1,1-Biphenyl, 5,2,3,4-tetramet | 280 | J | | 14.6 | ug/Kg |
| 001119-87-5 | 1,2-Dodecanediol | 130 | J | | 14.9 | ug/Kg |
| 001070-54-8 | 16-Hentriacontanol | 260 | J | | 15.2 | ug/Kg |
| 086917-79-5 | 6-Isopropenyl-4,8a-dimethyl-4a,5,6 | 270 | J | | 17.4 | ug/Kg |
| | unknown17.674 | 200 | J | | 17.7 | ug/Kg |
| | unknown17.762 | 150 | J | | 17.8 | ug/Kg |
| 137235-51-9 | 1,2,4,8-Tetramethylbicyclo[6.3.0]u | 180 | J | | 18.0 | ug/Kg |
| | unknown18.274 | 550 | J | | 18.3 | 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: **BP024899.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-06 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 85.4 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BP024899.D | 1 | 06/04/25 12:45 | 06/10/25 18:30 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 180 | U | 180 | 390 | ug/Kg |
| 108-95-2 | Phenol | 25.8 | U | 25.8 | 200 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 28.4 | U | 28.4 | 200 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 28.5 | U | 28.5 | 200 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 34.9 | U | 34.9 | 200 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 43.8 | U | 43.8 | 200 | ug/Kg |
| 98-86-2 | Acetophenone | 34.5 | U | 34.5 | 200 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 48.0 | U | 48.0 | 390 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 55.4 | U | 55.4 | 93.4 | ug/Kg |
| 67-72-1 | Hexachloroethane | 20.6 | U | 20.6 | 200 | ug/Kg |
| 98-95-3 | Nitrobenzene | 21.4 | U | 21.4 | 200 | ug/Kg |
| 78-59-1 | Isophorone | 38.3 | U | 38.3 | 200 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 68.0 | U | 68.0 | 200 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 75.7 | U | 75.7 | 200 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 36.0 | U | 36.0 | 200 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 33.1 | U | 33.1 | 200 | ug/Kg |
| 91-20-3 | Naphthalene | 26.5 | U | 26.5 | 200 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 41.3 | UQ | 41.3 | 200 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 29.5 | U | 29.5 | 200 | ug/Kg |
| 105-60-2 | Caprolactam | 60.8 | U | 60.8 | 390 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 33.5 | U | 33.5 | 200 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 29.9 | U | 29.9 | 200 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 140 | U | 140 | 390 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 23.1 | U | 23.1 | 200 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 34.0 | U | 34.0 | 200 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 25.5 | U | 25.5 | 200 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 26.3 | U | 26.3 | 200 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 56.2 | U | 56.2 | 200 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 31.6 | U | 31.6 | 200 | ug/Kg |

Raw Data: **BP024899.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-06 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 85.4 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BP024899.D | 1 | 06/04/25 12:45 | 06/10/25 18:30 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 33.8 | U | 33.8 | 200 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 39.2 | U | 39.2 | 200 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 53.7 | UQ | 53.7 | 200 | ug/Kg |
| 83-32-9 | Acenaphthene | 24.9 | U | 24.9 | 200 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 270 | U | 270 | 390 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 390 | ug/Kg |
| 132-64-9 | Dibenzofuran | 26.5 | U | 26.5 | 200 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 58.5 | U | 58.5 | 200 | ug/Kg |
| 84-66-2 | Diethylphthalate | 33.1 | U | 33.1 | 200 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 31.2 | U | 31.2 | 200 | ug/Kg |
| 86-73-7 | Fluorene | 29.5 | U | 29.5 | 200 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 75.0 | U | 75.0 | 200 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 120 | 390 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 38.4 | U | 38.4 | 200 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 32.5 | U | 32.5 | 200 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 29.5 | U | 29.5 | 200 | ug/Kg |
| 1912-24-9 | Atrazine | 39.7 | U | 39.7 | 200 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 59.9 | U | 59.9 | 390 | ug/Kg |
| 85-01-8 | Phenanthrene | 230 | | 24.4 | 200 | ug/Kg |
| 120-12-7 | Anthracene | 38.9 | U | 38.9 | 200 | ug/Kg |
| 86-74-8 | Carbazole | 36.4 | U | 36.4 | 200 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 55.9 | U | 55.9 | 200 | ug/Kg |
| 206-44-0 | Fluoranthene | 250 | | 35.0 | 200 | ug/Kg |
| 129-00-0 | Pyrene | 220 | | 42.0 | 200 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 83.4 | U | 83.4 | 200 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 42.9 | UQ | 42.9 | 390 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 92.0 | J | 26.9 | 200 | ug/Kg |
| 218-01-9 | Chrysene | 95.1 | J | 23.2 | 200 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 69.1 | U | 69.1 | 200 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 100 | U | 100 | 390 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 99.0 | J | 22.2 | 200 | ug/Kg |

Raw Data: **BP024899.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-06 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 85.4 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BP024899.D | 1 | 06/04/25 12:45 | 06/10/25 18:30 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 26.2 | U | 26.2 | 200 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 87.1 | J | 34.5 | 200 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 34.0 | U | 34.0 | 200 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 32.0 | U | 32.0 | 200 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 30.0 | U | 30.0 | 200 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 29.9 | U | 29.9 | 200 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 52.8 | U | 52.8 | 200 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 32.0 | U | 32.0 | 200 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 107 | | 30 (18) - 130 (112) | 71% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 107 | | 30 (15) - 130 (107) | 71% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 60.5 | | 30 (18) - 130 (107) | 61% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 57.6 | | 30 (20) - 130 (109) | 58% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 113 | | 30 (10) - 130 (116) | 75% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 55.9 | | 30 (10) - 130 (105) | 56% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 259000 | 7.608 | | | |
| 1146-65-2 | Naphthalene-d8 | 1050000 | 10.378 | | | |
| 15067-26-2 | Acenaphthene-d10 | 660000 | 14.248 | | | |
| 1517-22-2 | Phenanthrene-d10 | 1280000 | 17.054 | | | |
| 1719-03-5 | Chrysene-d12 | 1410000 | 21.489 | | | |
| 1520-96-3 | Perylene-d12 | 1730000 | 24.766 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 250 | AB | | 4.77 | ug/Kg |
| 000119-61-9 | Benzophenone | 380 | J | | 15.6 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 260 | J | | 18.0 | ug/Kg |

Raw Data: **BP024899.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-06 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 85.4 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BP024899.D | 1 | 06/04/25 12:45 | 06/10/25 18:30 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|

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

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

Raw Data: **BF142658.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | EB05312025 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-08 | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 490 Units: mL | Final Vol: | 500 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142658.D | 1 | 06/04/25 11:45 | 06/06/25 21:02 | PB168285 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 4.00 | U | 4.00 | 10.2 | ug/L |
| 108-95-2 | Phenol | 0.93 | U | 0.93 | 5.10 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 0.83 | U | 0.83 | 5.10 | ug/L |
| 95-57-8 | 2-Chlorophenol | 0.59 | U | 0.59 | 5.10 | ug/L |
| 95-48-7 | 2-Methylphenol | 1.10 | U | 1.10 | 5.10 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1.30 | U | 1.30 | 5.10 | ug/L |
| 98-86-2 | Acetophenone | 0.76 | U | 0.76 | 5.10 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 1.10 | U | 1.10 | 10.2 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1.40 | U | 1.40 | 2.60 | ug/L |
| 67-72-1 | Hexachloroethane | 0.66 | U | 0.66 | 5.10 | ug/L |
| 98-95-3 | Nitrobenzene | 0.78 | U | 0.78 | 5.10 | ug/L |
| 78-59-1 | Isophorone | 0.77 | U | 0.77 | 5.10 | ug/L |
| 88-75-5 | 2-Nitrophenol | 1.80 | U | 1.80 | 5.10 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 1.90 | U | 1.90 | 5.10 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 0.69 | U | 0.69 | 5.10 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 0.53 | U | 0.53 | 5.10 | ug/L |
| 91-20-3 | Naphthalene | 0.51 | U | 0.51 | 5.10 | ug/L |
| 106-47-8 | 4-Chloroaniline | 0.86 | UQ | 0.86 | 5.10 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 0.55 | U | 0.55 | 5.10 | ug/L |
| 105-60-2 | Caprolactam | 1.20 | U | 1.20 | 10.2 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.60 | U | 0.60 | 5.10 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 0.57 | U | 0.57 | 5.10 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 3.70 | U | 3.70 | 10.2 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.52 | U | 0.52 | 5.10 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.63 | U | 0.63 | 5.10 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 0.54 | U | 0.54 | 5.10 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 0.62 | U | 0.62 | 5.10 | ug/L |
| 88-74-4 | 2-Nitroaniline | 1.30 | U | 1.30 | 5.10 | ug/L |
| 131-11-3 | Dimethylphthalate | 0.62 | U | 0.62 | 5.10 | ug/L |

Raw Data: **BF142658.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | EB05312025 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-08 | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 490 Units: mL | Final Vol: | 500 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142658.D | 1 | 06/04/25 11:45 | 06/06/25 21:02 | PB168285 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 0.77 | U | 0.77 | 5.10 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 0.94 | U | 0.94 | 5.10 | ug/L |
| 99-09-2 | 3-Nitroaniline | 1.10 | UQ | 1.10 | 5.10 | ug/L |
| 83-32-9 | Acenaphthene | 0.56 | U | 0.56 | 5.10 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 6.10 | U | 6.10 | 10.2 | ug/L |
| 100-02-7 | 4-Nitrophenol | 2.40 | U | 2.40 | 10.2 | ug/L |
| 132-64-9 | Dibenzofuran | 0.62 | U | 0.62 | 5.10 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 1.20 | U | 1.20 | 5.10 | ug/L |
| 84-66-2 | Diethylphthalate | 0.70 | U | 0.70 | 5.10 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.69 | U | 0.69 | 5.10 | ug/L |
| 86-73-7 | Fluorene | 0.64 | U | 0.64 | 5.10 | ug/L |
| 100-01-6 | 4-Nitroaniline | 1.50 | U | 1.50 | 5.10 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2.90 | U | 2.90 | 10.2 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 0.59 | U | 0.59 | 5.10 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.41 | U | 0.41 | 5.10 | ug/L |
| 118-74-1 | Hexachlorobenzene | 0.53 | U | 0.53 | 5.10 | ug/L |
| 1912-24-9 | Atrazine | 1.00 | U | 1.00 | 5.10 | ug/L |
| 87-86-5 | Pentachlorophenol | 1.60 | U | 1.60 | 10.2 | ug/L |
| 85-01-8 | Phenanthrene | 0.51 | U | 0.51 | 5.10 | ug/L |
| 120-12-7 | Anthracene | 0.62 | U | 0.62 | 5.10 | ug/L |
| 86-74-8 | Carbazole | 0.73 | U | 0.73 | 5.10 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 1.20 | U | 1.20 | 5.10 | ug/L |
| 206-44-0 | Fluoranthene | 0.84 | U | 0.84 | 5.10 | ug/L |
| 129-00-0 | Pyrene | 0.51 | U | 0.51 | 5.10 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 2.00 | U | 2.00 | 5.10 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 0.95 | UQ | 0.95 | 10.2 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 0.46 | U | 0.46 | 5.10 | ug/L |
| 218-01-9 | Chrysene | 0.45 | U | 0.45 | 5.10 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1.60 | U | 1.60 | 5.10 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 2.40 | U | 2.40 | 10.2 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 0.50 | U | 0.50 | 5.10 | ug/L |

Raw Data: **BF142658.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | EB05312025 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-08 | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 490 Units: mL | Final Vol: | 500 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142658.D | 1 | 06/04/25 11:45 | 06/06/25 21:02 | PB168285 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 0.49 | U | 0.49 | 5.10 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 0.56 | U | 0.56 | 5.10 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.60 | U | 0.60 | 5.10 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.68 | U | 0.68 | 5.10 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 0.70 | U | 0.70 | 5.10 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.53 | U | 0.53 | 5.10 | ug/L |
| 123-91-1 | 1,4-Dioxane | 1.00 | U | 1.00 | 5.10 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.73 | U | 0.73 | 5.10 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 15.9 | * | 15 (23) - 110 (138) | 11% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 11.1 | * | 15 (10) - 110 (134) | 7% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 17.6 | * | 30 (67) - 130 (132) | 18% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 17.7 | * | 30 (52) - 130 (132) | 18% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 26.0 | | 15 (44) - 110 (137) | 17% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 14.9 | * | 30 (42) - 130 (152) | 15% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 110000 | 6.892 | | | |
| 1146-65-2 | Naphthalene-d8 | 419000 | 8.181 | | | |
| 15067-26-2 | Acenaphthene-d10 | 222000 | 9.933 | | | |
| 1517-22-2 | Phenanthrene-d10 | 326000 | 11.422 | | | |
| 1719-03-5 | Chrysene-d12 | 209000 | 14.063 | | | |
| 1520-96-3 | Perylene-d12 | 250000 | 15.562 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 3.70 | AB | | 5.10 | ug/L |
| 005131-66-8 | 2-Propanol, 1-butoxy- | 4.20 | J | | 6.19 | ug/L |
| 002687-91-4 | 1-Ethyl-2-pyrrolidinone | 5.50 | J | | 7.53 | ug/L |
| 029911-28-2 | 2-Propanol, 1-(2-butoxy-1-methylet | 24.3 | J | | 8.40 | ug/L |
| 000106-62-7 | 1-Propanol, 2-(2-hydroxypropoxy)- | 30.4 | J | | 8.42 | ug/L |

Raw Data: **BF142658.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | EB05312025 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-08 | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 490 Units: mL | Final Vol: | 500 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142658.D | 1 | 06/04/25 11:45 | 06/06/25 21:02 | PB168285 |

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

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

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

# QC SUMMARY

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

# Surrogate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| PB168259BL | PB168259BL | 2-Fluorophenol | 150 | 124 | 83 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 126 | 84 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 78.1 | 78 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 74.4 | 74 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 127 | 84 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 78.9 | 79 | | 30 (10) | 130 (105) |
| PB168259BS | PB168259BS | 2-Fluorophenol | 150 | 135 | 90 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 134 | 89 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 85.0 | 85 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 85.4 | 85 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 125 | 84 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 72.5 | 73 | | 30 (10) | 130 (105) |
| Q2177-02 | B-187-SB01 | 2-Fluorophenol | 150 | 106 | 70 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 105 | 70 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 62.0 | 62 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 59.3 | 59 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 112 | 74 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 56.2 | 56 | | 30 (10) | 130 (105) |
| Q2177-02DL | B-187-SB01DL | 2-Fluorophenol | 150 | 108 | 72 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 104 | 69 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 61.0 | 61 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 63.1 | 63 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 112 | 75 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 58.1 | 58 | | 30 (10) | 130 (105) |
| Q2177-04 | B-187-SB02 | 2-Fluorophenol | 150 | 75.3 | 50 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 78.1 | 52 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 49.1 | 49 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 47.2 | 47 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 71.7 | 48 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 32.0 | 32 | | 30 (10) | 130 (105) |
| Q2177-06 | B-202-SB01 | 2-Fluorophenol | 150 | 107 | 71 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 107 | 71 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 60.5 | 61 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 57.6 | 58 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 113 | 75 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 55.9 | 56 | | 30 (10) | 130 (105) |
| Q2194-03MS | COMP-13MS | 2-Fluorophenol | 150 | 82.7 | 55 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 81.8 | 55 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 52.9 | 53 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 51.7 | 52 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 78.7 | 52 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 36.8 | 37 | | 30 (10) | 130 (105) |
| Q2194-03MSD | COMP-13MSD | 2-Fluorophenol | 150 | 82.9 | 55 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 82.3 | 55 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 52.1 | 52 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 50.1 | 50 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 77.4 | 52 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 39.9 | 40 | | 30 (10) | 130 (105) |

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# Surrogate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| PB168285BL | PB168285BL | 2-Fluorophenol | 150 | 125 | 83 | | 15 (23) | 110 (138) |
| | | Phenol-d6 | 150 | 124 | 83 | | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 78.6 | 79 | | 30 (67) | 130 (132) |
| | | 2-Fluorobiphenyl | 100 | 75.2 | 75 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 122 | 82 | | 15 (44) | 110 (137) |
| | | Terphenyl-d14 | 100 | 78.1 | 78 | | 30 (42) | 130 (152) |
| PB168285BS | PB168285BS | 2-Fluorophenol | 150 | 126 | 84 | | 15 (23) | 110 (138) |
| | | Phenol-d6 | 150 | 127 | 85 | | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 77.8 | 78 | | 30 (67) | 130 (132) |
| | | 2-Fluorobiphenyl | 100 | 76.2 | 76 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 129 | 86 | | 15 (44) | 110 (137) |
| | | Terphenyl-d14 | 100 | 81.8 | 82 | | 30 (42) | 130 (152) |
| PB168285BSD | PB168285BSD | 2-Fluorophenol | 150 | 125 | 83 | | 15 (23) | 110 (138) |
| | | Phenol-d6 | 150 | 127 | 84 | | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 79.4 | 79 | | 30 (67) | 130 (132) |
| | | 2-Fluorobiphenyl | 100 | 77.6 | 78 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 129 | 86 | | 15 (44) | 110 (137) |
| | | Terphenyl-d14 | 100 | 79.2 | 79 | | 30 (42) | 130 (152) |
| Q2177-08 | EB05312025 | 2-Fluorophenol | 150 | 15.9 | 11 | * | 15 (23) | 110 (138) |
| | | Phenol-d6 | 150 | 11.1 | 7 | * | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 17.6 | 18 | * | 30 (67) | 130 (132) |
| | | 2-Fluorobiphenyl | 100 | 17.7 | 18 | * | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 26.0 | 17 | | 15 (44) | 110 (137) |
| | | Terphenyl-d14 | 100 | 14.9 | 15 | * | 30 (42) | 130 (152) |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: Q2194-03MS** | | **Client Sample ID: COMP-13MS** | | | | | | **DataFile: BF142629.D** | | | |
| Benzaldehyde | 1100 | 0 | 800 | ug/Kg | 73 | | | | 20 (10) | 160 (171) | |
| Phenol | 1100 | 0 | 970 | ug/Kg | 88 | | | | 20 (51) | 160 (122) | |
| bis(2-Chloroethyl)ether | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (54) | 130 (125) | |
| 2-Chlorophenol | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (51) | 130 (121) | |
| 2-Methylphenol | 1100 | 0 | 950 | ug/Kg | 86 | | | | 70 (47) | 130 (125) | |
| 2,2-oxybis(1-Chloropropane) | 1100 | 0 | 970 | ug/Kg | 88 | | | | 70 (46) | 130 (119) | |
| Acetophenone | 1100 | 0 | 980 | ug/Kg | 89 | | | | 70 (55) | 130 (128) | |
| 3+4-Methylphenols | 1100 | 0 | 910 | ug/Kg | 83 | | | | 20 (49) | 160 (125) | |
| N-Nitroso-di-n-propylamine | 1100 | 0 | 900 | ug/Kg | 82 | | | | 70 (59) | 130 (119) | |
| Hexachloroethane | 1100 | 0 | 990 | ug/Kg | 90 | | | | 20 (51) | 160 (116) | |
| Nitrobenzene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (47) | 130 (124) | |
| Isophorone | 1100 | 0 | 960 | ug/Kg | 87 | | | | 70 (49) | 130 (127) | |
| 2-Nitrophenol | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (43) | 130 (131) | |
| 2,4-Dimethylphenol | 1100 | 0 | 980 | ug/Kg | 89 | | | | 70 (63) | 130 (151) | |
| bis(2-Chloroethoxy)methane | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (51) | 130 (119) | |
| 2,4-Dichlorophenol | 1100 | 0 | 980 | ug/Kg | 89 | | | | 70 (50) | 130 (122) | |
| Naphthalene | 1100 | 0 | 990 | ug/Kg | 90 | | | | 70 (51) | 130 (121) | |
| 4-Chloroaniline | 1100 | 0 | 570 | ug/Kg | 52 | * | | | 70 (10) | 130 (100) | |
| Hexachlorobutadiene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (44) | 130 (126) | |
| Caprolactam | 1100 | 0 | 990 | ug/Kg | 90 | | | | 20 (51) | 160 (134) | |
| 4-Chloro-3-methylphenol | 1100 | 0 | 900 | ug/Kg | 82 | | | | 70 (57) | 130 (132) | |
| 2-Methylnaphthalene | 1100 | 0 | 960 | ug/Kg | 87 | | | | 70 (59) | 130 (123) | |
| Hexachlorocyclopentadiene | 2300 | 0 | 2000 | ug/Kg | 87 | | | | 20 (10) | 160 (175) | |
| 2,4,6-Trichlorophenol | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (33) | 130 (141) | |
| 2,4,5-Trichlorophenol | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (38) | 130 (135) | |
| 1,1-Biphenyl | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (55) | 130 (131) | |
| 2-Chloronaphthalene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (48) | 130 (124) | |
| 2-Nitroaniline | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (47) | 130 (134) | |
| Dimethylphthalate | 1100 | 0 | 980 | ug/Kg | 89 | | | | 70 (54) | 130 (120) | |
| Acenaphthylene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (57) | 130 (125) | |
| 2,6-Dinitrotoluene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (48) | 130 (127) | |
| 3-Nitroaniline | 1100 | 0 | 680 | ug/Kg | 62 | * | | | 70 (10) | 130 (112) | |
| Acenaphthene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (70) | 130 (121) | |
| 2,4-Dinitrophenol | 2300 | 0 | 2200 | ug/Kg | 96 | | | | 20 (10) | 160 (155) | |
| 4-Nitrophenol | 2300 | 0 | 2000 | ug/Kg | 87 | | | | 20 (10) | 160 (175) | |
| Dibenzofuran | 1100 | 0 | 990 | ug/Kg | 90 | | | | 70 (52) | 130 (114) | |
| 2,4-Dinitrotoluene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (41) | 130 (140) | |
| Diethylphthalate | 1100 | 0 | 940 | ug/Kg | 85 | | | | 70 (51) | 130 (119) | |
| 4-Chlorophenyl-phenylether | 1100 | 0 | 960 | ug/Kg | 87 | | | | 70 (48) | 130 (122) | |
| Fluorene | 1100 | 0 | 970 | ug/Kg | 88 | | | | 70 (53) | 130 (118) | |
| 4-Nitroaniline | 1100 | 0 | 990 | ug/Kg | 90 | | | | 70 (29) | 130 (140) | |
| 4,6-Dinitro-2-methylphenol | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 70 (10) | 130 (160) | |
| N-Nitrosodiphenylamine | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (73) | 130 (118) | |
| 4-Bromophenyl-phenylether | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (65) | 130 (121) | |
| Hexachlorobenzene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (67) | 130 (118) | |
| Atrazine | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (45) | 130 (175) | |

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 2300 | 0 | 2000 | ug/Kg | 87 | | | | 20 (13) | 160 (153) | |
| Phenanthrene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (52) | 130 (128) | |
| Anthracene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (62) | 130 (124) | |
| Carbazole | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (59) | 130 (119) | |
| Di-n-butylphthalate | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (55) | 130 (125) | |
| Fluoranthene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (44) | 130 (125) | |
| Pyrene | 1100 | 0 | 770 | ug/Kg | 70 | | | | 70 (37) | 130 (122) | |
| Butylbenzylphthalate | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (44) | 130 (135) | |
| 3,3-Dichlorobenzidine | 1100 | 0 | 790 | ug/Kg | 72 | | | | 70 (15) | 130 (112) | |
| Benzo(a)anthracene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (53) | 130 (119) | |
| Chrysene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (57) | 130 (121) | |
| bis(2-Ethylhexyl)phthalate | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 70 (42) | 130 (169) | |
| Di-n-octyl phthalate | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (51) | 130 (156) | |
| Benzo(b)fluoranthene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (52) | 130 (117) | |
| Benzo(k)fluoranthene | 1100 | 0 | 980 | ug/Kg | 89 | | | | 70 (57) | 130 (134) | |
| Benzo(a)pyrene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (70) | 130 (142) | |
| Indeno(1,2,3-cd)pyrene | 1100 | 0 | 970 | ug/Kg | 88 | | | | 70 (40) | 130 (129) | |
| Dibenz(a,h)anthracene | 1100 | 0 | 980 | ug/Kg | 89 | | | | 70 (43) | 130 (123) | |
| Benzo(g,h,i)perylene | 1100 | 0 | 970 | ug/Kg | 88 | | | | 70 (24) | 130 (125) | |
| 1,2,4,5-Tetrachlorobenzene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (52) | 130 (134) | |
| 1,4-Dioxane | 1100 | 0 | 910 | ug/Kg | 83 | | | | 20 (46) | 160 (112) | |
| 2,3,4,6-Tetrachlorophenol | 1100 | 0 | 970 | ug/Kg | 88 | | | | 70 (24) | 130 (146) | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: Q2194-03MSD** | | **Client Sample ID: COMP-13MSD** | | | | | | **DataFile: BF142630.D** | | | |
| Benzaldehyde | 1100 | 0 | 800 | ug/Kg | 73 | | 0 | | 20 (10) | 160 (171) | 30 (20) |
| Phenol | 1100 | 0 | 970 | ug/Kg | 88 | | 0 | | 20 (51) | 160 (122) | 30 (20) |
| bis(2-Chloroethyl)ether | 1100 | 0 | 990 | ug/Kg | 90 | | 1 | | 70 (54) | 130 (125) | 30 (20) |
| 2-Chlorophenol | 1100 | 0 | 1000 | ug/Kg | 91 | | 0 | | 70 (51) | 130 (121) | 30 (20) |
| 2-Methylphenol | 1100 | 0 | 970 | ug/Kg | 88 | | 2 | | 70 (47) | 130 (125) | 30 (20) |
| 2,2-oxybis(1-Chloropropane) | 1100 | 0 | 980 | ug/Kg | 89 | | 1 | | 70 (46) | 130 (119) | 30 (20) |
| Acetophenone | 1100 | 0 | 970 | ug/Kg | 88 | | 1 | | 70 (55) | 130 (128) | 30 (20) |
| 3+4-Methylphenols | 1100 | 0 | 920 | ug/Kg | 84 | | 1 | | 20 (49) | 160 (125) | 30 (20) |
| N-Nitroso-di-n-propylamine | 1100 | 0 | 910 | ug/Kg | 83 | | 1 | | 70 (59) | 130 (119) | 30 (20) |
| Hexachloroethane | 1100 | 0 | 990 | ug/Kg | 90 | | 0 | | 20 (51) | 160 (116) | 30 (20) |
| Nitrobenzene | 1100 | 0 | 990 | ug/Kg | 90 | | 1 | | 70 (47) | 130 (124) | 30 (20) |
| Isophorone | 1100 | 0 | 950 | ug/Kg | 86 | | 1 | | 70 (49) | 130 (127) | 30 (20) |
| 2-Nitrophenol | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 70 (43) | 130 (131) | 30 (20) |
| 2,4-Dimethylphenol | 1100 | 0 | 970 | ug/Kg | 88 | | 1 | | 70 (63) | 130 (151) | 30 (20) |
| bis(2-Chloroethoxy)methane | 1100 | 0 | 980 | ug/Kg | 89 | | 2 | | 70 (51) | 130 (119) | 30 (20) |
| 2,4-Dichlorophenol | 1100 | 0 | 990 | ug/Kg | 90 | | 1 | | 70 (50) | 130 (122) | 30 (20) |
| Naphthalene | 1100 | 0 | 980 | ug/Kg | 89 | | 1 | | 70 (51) | 130 (121) | 30 (20) |
| 4-Chloroaniline | 1100 | 0 | 540 | ug/Kg | 49 | * | 6 | | 70 (10) | 130 (100) | 30 (20) |
| Hexachlorobutadiene | 1100 | 0 | 970 | ug/Kg | 88 | | 3 | | 70 (44) | 130 (126) | 30 (20) |
| Caprolactam | 1100 | 0 | 1000 | ug/Kg | 91 | | 1 | | 20 (51) | 160 (134) | 30 (20) |
| 4-Chloro-3-methylphenol | 1100 | 0 | 930 | ug/Kg | 85 | | 4 | | 70 (57) | 130 (132) | 30 (20) |
| 2-Methylnaphthalene | 1100 | 0 | 950 | ug/Kg | 86 | | 1 | | 70 (59) | 130 (123) | 30 (20) |
| Hexachlorocyclopentadiene | 2300 | 0 | 1900 | ug/Kg | 83 | | 5 | | 20 (10) | 160 (175) | 30 (20) |
| 2,4,6-Trichlorophenol | 1100 | 0 | 1000 | ug/Kg | 91 | | 0 | | 70 (33) | 130 (141) | 30 (20) |
| 2,4,5-Trichlorophenol | 1100 | 0 | 990 | ug/Kg | 90 | | 1 | | 70 (38) | 130 (135) | 30 (20) |
| 1,1-Biphenyl | 1100 | 0 | 1000 | ug/Kg | 91 | | 9 | | 70 (55) | 130 (131) | 30 (20) |
| 2-Chloronaphthalene | 1100 | 0 | 1000 | ug/Kg | 91 | | 9 | | 70 (48) | 130 (124) | 30 (20) |
| 2-Nitroaniline | 1100 | 0 | 1000 | ug/Kg | 91 | | 0 | | 70 (47) | 130 (134) | 30 (20) |
| Dimethylphthalate | 1100 | 0 | 980 | ug/Kg | 89 | | 0 | | 70 (54) | 130 (120) | 30 (20) |
| Acenaphthylene | 1100 | 0 | 990 | ug/Kg | 90 | | 1 | | 70 (57) | 130 (125) | 30 (20) |
| 2,6-Dinitrotoluene | 1100 | 0 | 1000 | ug/Kg | 91 | | 0 | | 70 (48) | 130 (127) | 30 (20) |
| 3-Nitroaniline | 1100 | 0 | 670 | ug/Kg | 61 | * | 2 | | 70 (10) | 130 (112) | 30 (20) |
| Acenaphthene | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 70 (70) | 130 (121) | 30 (20) |
| 2,4-Dinitrophenol | 2300 | 0 | 2300 | ug/Kg | 100 | | 4 | | 20 (10) | 160 (155) | 30 (20) |
| 4-Nitrophenol | 2300 | 0 | 2100 | ug/Kg | 91 | | 4 | | 20 (10) | 160 (175) | 30 (20) |
| Dibenzofuran | 1100 | 0 | 970 | ug/Kg | 88 | | 2 | | 70 (52) | 130 (114) | 30 (20) |
| 2,4-Dinitrotoluene | 1100 | 0 | 1000 | ug/Kg | 91 | | 0 | | 70 (41) | 130 (140) | 30 (20) |
| Diethylphthalate | 1100 | 0 | 960 | ug/Kg | 87 | | 2 | | 70 (51) | 130 (119) | 30 (20) |
| 4-Chlorophenyl-phenylether | 1100 | 0 | 940 | ug/Kg | 85 | | 2 | | 70 (48) | 130 (122) | 30 (20) |
| Fluorene | 1100 | 0 | 960 | ug/Kg | 87 | | 1 | | 70 (53) | 130 (118) | 30 (20) |
| 4-Nitroaniline | 1100 | 0 | 1000 | ug/Kg | 91 | | 1 | | 70 (29) | 130 (140) | 30 (20) |
| 4,6-Dinitro-2-methylphenol | 1100 | 0 | 1200 | ug/Kg | 109 | | 0 | | 70 (10) | 130 (160) | 30 (20) |
| N-Nitrosodiphenylamine | 1100 | 0 | 1000 | ug/Kg | 91 | | 9 | | 70 (73) | 130 (118) | 30 (20) |
| 4-Bromophenyl-phenylether | 1100 | 0 | 1000 | ug/Kg | 91 | | 9 | | 70 (65) | 130 (121) | 30 (20) |
| Hexachlorobenzene | 1100 | 0 | 1000 | ug/Kg | 91 | | 9 | | 70 (67) | 130 (118) | 30 (20) |
| Atrazine | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 70 (45) | 130 (175) | 30 (20) |

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 2300 | 0 | 2000 | ug/Kg | 87 | | 0 | | 20 (13) | 160 (153) | 30 (20) |
| Phenanthrene | 1100 | 0 | 990 | ug/Kg | 90 | | 1 | | 70 (52) | 130 (128) | 30 (20) |
| Anthracene | 1100 | 0 | 990 | ug/Kg | 90 | | 1 | | 70 (62) | 130 (124) | 30 (20) |
| Carbazole | 1100 | 0 | 1000 | ug/Kg | 91 | | 0 | | 70 (59) | 130 (119) | 30 (20) |
| Di-n-butylphthalate | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 70 (55) | 130 (125) | 30 (20) |
| Fluoranthene | 1100 | 0 | 1000 | ug/Kg | 91 | | 9 | | 70 (44) | 130 (125) | 30 (20) |
| Pyrene | 1100 | 0 | 840 | ug/Kg | 76 | | 8 | | 70 (37) | 130 (122) | 30 (20) |
| Butylbenzylphthalate | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 70 (44) | 130 (135) | 30 (20) |
| 3,3-Dichlorobenzidine | 1100 | 0 | 790 | ug/Kg | 72 | | 0 | | 70 (15) | 130 (112) | 30 (20) |
| Benzo(a)anthracene | 1100 | 0 | 1000 | ug/Kg | 91 | | 0 | | 70 (53) | 130 (119) | 30 (20) |
| Chrysene | 1100 | 0 | 1000 | ug/Kg | 91 | | 0 | | 70 (57) | 130 (121) | 30 (20) |
| bis(2-Ethylhexyl)phthalate | 1100 | 0 | 1300 | ug/Kg | 118 | | 8 | | 70 (42) | 130 (169) | 30 (20) |
| Di-n-octyl phthalate | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 70 (51) | 130 (156) | 30 (20) |
| Benzo(b)fluoranthene | 1100 | 0 | 980 | ug/Kg | 89 | | 12 | | 70 (52) | 130 (117) | 30 (20) |
| Benzo(k)fluoranthene | 1100 | 0 | 1000 | ug/Kg | 91 | | 2 | | 70 (57) | 130 (134) | 30 (20) |
| Benzo(a)pyrene | 1100 | 0 | 1000 | ug/Kg | 91 | | 0 | | 70 (70) | 130 (142) | 30 (20) |
| Indeno(1,2,3-cd)pyrene | 1100 | 0 | 980 | ug/Kg | 89 | | 1 | | 70 (40) | 130 (129) | 30 (20) |
| Dibenz(a,h)anthracene | 1100 | 0 | 980 | ug/Kg | 89 | | 0 | | 70 (43) | 130 (123) | 30 (20) |
| Benzo(g,h,i)perylene | 1100 | 0 | 970 | ug/Kg | 88 | | 0 | | 70 (24) | 130 (125) | 30 (20) |
| 1,2,4,5-Tetrachlorobenzene | 1100 | 0 | 1000 | ug/Kg | 91 | | 9 | | 70 (52) | 130 (134) | 30 (20) |
| 1,4-Dioxane | 1100 | 0 | 910 | ug/Kg | 83 | | 0 | | 20 (46) | 160 (112) | 30 (20) |
| 2,3,4,6-Tetrachlorophenol | 1100 | 0 | 990 | ug/Kg | 90 | | 2 | | 70 (24) | 130 (146) | 30 (20) |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8270E **DataFile:** BF142727.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168285BS | Benzaldehyde | 50 | 32.2 | ug/L | 64 | | | | 20 (10) | 160 (162) | |
| | Phenol | 50 | 44.1 | ug/L | 88 | | | | 20 (66) | 160 (118) | |
| | bis(2-Chloroethyl)ether | 50 | 44.2 | ug/L | 88 | | | | 70 (62) | 130 (103) | |
| | 2-Chlorophenol | 50 | 45.9 | ug/L | 92 | | | | 70 (70) | 130 (117) | |
| | 2-Methylphenol | 50 | 45.4 | ug/L | 91 | | | | 70 (69) | 130 (109) | |
| | 2,2-oxybis(1-Chloropropane) | 50 | 43.1 | ug/L | 86 | | | | 70 (65) | 130 (100) | |
| | Acetophenone | 50 | 44.3 | ug/L | 89 | | | | 70 (60) | 130 (104) | |
| | 3+4-Methylphenols | 50 | 45.6 | ug/L | 91 | | | | 20 (67) | 160 (106) | |
| | N-Nitroso-di-n-propylamine | 50 | 43.7 | ug/L | 87 | | | | 70 (57) | 130 (107) | |
| | Hexachloroethane | 50 | 43.4 | ug/L | 87 | | | | 20 (76) | 160 (118) | |
| | Nitrobenzene | 50 | 44.6 | ug/L | 89 | | | | 70 (58) | 130 (106) | |
| | Isophorone | 50 | 43.8 | ug/L | 88 | | | | 70 (61) | 130 (102) | |
| | 2-Nitrophenol | 50 | 46.1 | ug/L | 92 | | | | 70 (70) | 130 (115) | |
| | 2,4-Dimethylphenol | 50 | 45.3 | ug/L | 91 | | | | 70 (42) | 130 (142) | |
| | bis(2-Chloroethoxy)methane | 50 | 44.3 | ug/L | 89 | | | | 70 (58) | 130 (109) | |
| | 2,4-Dichlorophenol | 50 | 45.4 | ug/L | 91 | | | | 70 (66) | 130 (115) | |
| | Naphthalene | 50 | 43.8 | ug/L | 88 | | | | 70 (64) | 130 (107) | |
| | 4-Chloroaniline | 50 | 14.3 | ug/L | 29 | | * | | 70 (10) | 130 (85) | |
| | Hexachlorobutadiene | 50 | 43.1 | ug/L | 86 | | | | 70 (69) | 130 (101) | |
| | Caprolactam | 50 | 50.0 | ug/L | 100 | | | | 20 (58) | 160 (128) | |
| | 4-Chloro-3-methylphenol | 50 | 44.9 | ug/L | 90 | | | | 70 (65) | 130 (114) | |
| | 2-Methylnaphthalene | 50 | 43.3 | ug/L | 87 | | | | 70 (64) | 130 (107) | |
| | Hexachlorocyclopentadiene | 100 | 90.6 | ug/L | 91 | | | | 20 (36) | 160 (160) | |
| | 2,4,6-Trichlorophenol | 50 | 46.7 | ug/L | 93 | | | | 70 (61) | 130 (110) | |
| | 2,4,5-Trichlorophenol | 50 | 44.9 | ug/L | 90 | | | | 70 (70) | 130 (106) | |
| | 1,1-Biphenyl | 50 | 44.3 | ug/L | 89 | | | | 70 (72) | 130 (98) | |
| | 2-Chloronaphthalene | 50 | 44.3 | ug/L | 89 | | | | 70 (59) | 130 (106) | |
| | 2-Nitroaniline | 50 | 45.3 | ug/L | 91 | | | | 70 (73) | 130 (114) | |
| | Dimethylphthalate | 50 | 45.8 | ug/L | 92 | | | | 70 (64) | 130 (103) | |
| | Acenaphthylene | 50 | 44.7 | ug/L | 89 | | | | 70 (79) | 130 (103) | |
| | 2,6-Dinitrotoluene | 50 | 46.3 | ug/L | 93 | | | | 70 (64) | 130 (110) | |
| | 3-Nitroaniline | 50 | 26.2 | ug/L | 52 | | * | | 70 (28) | 130 (100) | |
| | Acenaphthene | 50 | 50.3 | ug/L | 101 | | | | 70 (59) | 130 (113) | |
| | 2,4-Dinitrophenol | 100 | 110 | ug/L | 110 | | | | 20 (36) | 160 (166) | |
| | 4-Nitrophenol | 100 | 98.9 | ug/L | 99 | | | | 20 (45) | 160 (147) | |
| | Dibenzofuran | 50 | 44.4 | ug/L | 89 | | | | 70 (65) | 130 (106) | |
| | 2,4-Dinitrotoluene | 50 | 48.0 | ug/L | 96 | | | | 70 (60) | 130 (115) | |
| | Diethylphthalate | 50 | 46.4 | ug/L | 93 | | | | 70 (63) | 130 (105) | |
| | 4-Chlorophenyl-phenylether | 50 | 44.1 | ug/L | 88 | | | | 70 (61) | 130 (104) | |
| | Fluorene | 50 | 43.9 | ug/L | 88 | | | | 70 (64) | 130 (107) | |
| | 4-Nitroaniline | 50 | 47.5 | ug/L | 95 | | | | 70 (55) | 130 (125) | |
| | 4,6-Dinitro-2-methylphenol | 50 | 48.0 | ug/L | 96 | | | | 70 (62) | 130 (132) | |
| | N-Nitrosodiphenylamine | 50 | 44.4 | ug/L | 89 | | | | 70 (61) | 130 (109) | |
| | 4-Bromophenyl-phenylether | 50 | 43.9 | ug/L | 88 | | | | 70 (73) | 130 (103) | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8270E **DataFile:** BF142727.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168285BS | Hexachlorobenzene | 50 | 44.1 | ug/L | 88 | | | | 70 (73) | 130 (106) | |
| | Atrazine | 50 | 50.6 | ug/L | 101 | | | | 70 (76) | 130 (120) | |
| | Pentachlorophenol | 100 | 93.6 | ug/L | 94 | | | | 20 (47) | 160 (114) | |
| | Phenanthrene | 50 | 44.5 | ug/L | 89 | | | | 70 (62) | 130 (109) | |
| | Anthracene | 50 | 44.2 | ug/L | 88 | | | | 70 (65) | 130 (110) | |
| | Carbazole | 50 | 45.7 | ug/L | 91 | | | | 70 (62) | 130 (106) | |
| | Di-n-butylphthalate | 50 | 49.3 | ug/L | 99 | | | | 70 (64) | 130 (106) | |
| | Fluoranthene | 50 | 45.7 | ug/L | 91 | | | | 70 (64) | 130 (110) | |
| | Pyrene | 50 | 46.5 | ug/L | 93 | | | | 70 (71) | 130 (103) | |
| | Butylbenzylphthalate | 50 | 50.4 | ug/L | 101 | | | | 70 (61) | 130 (105) | |
| | 3,3-Dichlorobenzidine | 50 | 21.6 | ug/L | 43 | | * | | 70 (43) | 130 (108) | |
| | Benzo(a)anthracene | 50 | 45.7 | ug/L | 91 | | | | 70 (62) | 130 (107) | |
| | Chrysene | 50 | 46.7 | ug/L | 93 | | | | 70 (61) | 130 (108) | |
| | bis(2-Ethylhexyl)phthalate | 50 | 46.3 | ug/L | 93 | | | | 70 (59) | 130 (110) | |
| | Di-n-octyl phthalate | 50 | 44.5 | ug/L | 89 | | | | 70 (52) | 130 (139) | |
| | Benzo(b)fluoranthene | 50 | 48.8 | ug/L | 98 | | | | 70 (77) | 130 (113) | |
| | Benzo(k)fluoranthene | 50 | 44.1 | ug/L | 88 | | | | 70 (77) | 130 (105) | |
| | Benzo(a)pyrene | 50 | 46.7 | ug/L | 93 | | | | 70 (72) | 130 (131) | |
| | Indeno(1,2,3-cd)pyrene | 50 | 45.0 | ug/L | 90 | | | | 70 (72) | 130 (105) | |
| | Dibenz(a,h)anthracene | 50 | 45.1 | ug/L | 90 | | | | 70 (78) | 130 (115) | |
| | Benzo(g,h,i)perylene | 50 | 44.1 | ug/L | 88 | | | | 70 (75) | 130 (118) | |
| | 1,2,4,5-Tetrachlorobenzene | 50 | 44.7 | ug/L | 89 | | | | 70 (72) | 130 (101) | |
| | 1,4-Dioxane | 50 | 36.8 | ug/L | 74 | | | | 20 (38) | 160 (125) | |
| | 2,3,4,6-Tetrachlorophenol | 50 | 46.1 | ug/L | 92 | | | | 70 (63) | 130 (116) | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8270E **DataFile:** BF142728.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168285BSD | Benzaldehyde | 50 | 31.8 | ug/L | 64 | 1 | | | 20 (10) | 160 (162) | 20 (20) |
| | Phenol | 50 | 44.2 | ug/L | 88 | 0 | | | 20 (66) | 160 (118) | 20 (20) |
| | bis(2-Chloroethyl)ether | 50 | 44.3 | ug/L | 89 | 0 | | | 70 (62) | 130 (103) | 20 (20) |
| | 2-Chlorophenol | 50 | 45.8 | ug/L | 92 | 0 | | | 70 (70) | 130 (117) | 20 (20) |
| | 2-Methylphenol | 50 | 46.2 | ug/L | 92 | 2 | | | 70 (69) | 130 (109) | 20 (20) |
| | 2,2-oxybis(1-Chloropropane) | 50 | 42.8 | ug/L | 86 | 1 | | | 70 (65) | 130 (100) | 20 (20) |
| | Acetophenone | 50 | 45.1 | ug/L | 90 | 2 | | | 70 (60) | 130 (104) | 20 (20) |
| | 3+4-Methylphenols | 50 | 46.1 | ug/L | 92 | 1 | | | 20 (67) | 160 (106) | 20 (20) |
| | N-Nitroso-di-n-propylamine | 50 | 43.6 | ug/L | 87 | 0 | | | 70 (57) | 130 (107) | 20 (20) |
| | Hexachloroethane | 50 | 43.1 | ug/L | 86 | 1 | | | 20 (76) | 160 (118) | 20 (20) |
| | Nitrobenzene | 50 | 45.4 | ug/L | 91 | 2 | | | 70 (58) | 130 (106) | 20 (20) |
| | Isophorone | 50 | 44.8 | ug/L | 90 | 2 | | | 70 (61) | 130 (102) | 20 (20) |
| | 2-Nitrophenol | 50 | 46.5 | ug/L | 93 | 1 | | | 70 (70) | 130 (115) | 20 (20) |
| | 2,4-Dimethylphenol | 50 | 46.3 | ug/L | 93 | 2 | | | 70 (42) | 130 (142) | 20 (20) |
| | bis(2-Chloroethoxy)methane | 50 | 45.2 | ug/L | 90 | 2 | | | 70 (58) | 130 (109) | 20 (20) |
| | 2,4-Dichlorophenol | 50 | 47.1 | ug/L | 94 | 4 | | | 70 (66) | 130 (115) | 20 (20) |
| | Naphthalene | 50 | 44.8 | ug/L | 90 | 2 | | | 70 (64) | 130 (107) | 20 (20) |
| | 4-Chloroaniline | 50 | 14.4 | ug/L | 29 | 1 | * | | 70 (10) | 130 (85) | 20 (20) |
| | Hexachlorobutadiene | 50 | 43.9 | ug/L | 88 | 2 | | | 70 (69) | 130 (101) | 20 (20) |
| | Caprolactam | 50 | 49.9 | ug/L | 100 | 0 | | | 20 (58) | 160 (128) | 20 (20) |
| | 4-Chloro-3-methylphenol | 50 | 45.8 | ug/L | 92 | 2 | | | 70 (65) | 130 (114) | 20 (20) |
| | 2-Methylnaphthalene | 50 | 44.9 | ug/L | 90 | 4 | | | 70 (64) | 130 (107) | 20 (20) |
| | Hexachlorocyclopentadiene | 100 | 94.2 | ug/L | 94 | 4 | | | 20 (36) | 160 (160) | 20 (20) |
| | 2,4,6-Trichlorophenol | 50 | 47.2 | ug/L | 94 | 1 | | | 70 (61) | 130 (110) | 20 (20) |
| | 2,4,5-Trichlorophenol | 50 | 45.9 | ug/L | 92 | 2 | | | 70 (70) | 130 (106) | 20 (20) |
| | 1,1-Biphenyl | 50 | 45.0 | ug/L | 90 | 2 | | | 70 (72) | 130 (98) | 20 (20) |
| | 2-Chloronaphthalene | 50 | 45.3 | ug/L | 91 | 2 | | | 70 (59) | 130 (106) | 20 (20) |
| | 2-Nitroaniline | 50 | 45.4 | ug/L | 91 | 0 | | | 70 (73) | 130 (114) | 20 (20) |
| | Dimethylphthalate | 50 | 46.6 | ug/L | 93 | 2 | | | 70 (64) | 130 (103) | 20 (20) |
| | Acenaphthylene | 50 | 45.4 | ug/L | 91 | 2 | | | 70 (79) | 130 (103) | 20 (20) |
| | 2,6-Dinitrotoluene | 50 | 46.1 | ug/L | 92 | 0 | | | 70 (64) | 130 (110) | 20 (20) |
| | 3-Nitroaniline | 50 | 25.6 | ug/L | 51 | 2 | * | | 70 (28) | 130 (100) | 20 (20) |
| | Acenaphthene | 50 | 49.9 | ug/L | 100 | 1 | | | 70 (59) | 130 (113) | 20 (20) |
| | 2,4-Dinitrophenol | 100 | 110 | ug/L | 110 | 0 | | | 20 (36) | 160 (166) | 20 (20) |
| | 4-Nitrophenol | 100 | 96.9 | ug/L | 97 | 2 | | | 20 (45) | 160 (147) | 20 (20) |
| | Dibenzofuran | 50 | 44.7 | ug/L | 89 | 1 | | | 70 (65) | 130 (106) | 20 (20) |
| | 2,4-Dinitrotoluene | 50 | 47.6 | ug/L | 95 | 1 | | | 70 (60) | 130 (115) | 20 (20) |
| | Diethylphthalate | 50 | 46.6 | ug/L | 93 | 0 | | | 70 (63) | 130 (105) | 20 (20) |
| | 4-Chlorophenyl-phenylether | 50 | 45.1 | ug/L | 90 | 2 | | | 70 (61) | 130 (104) | 20 (20) |
| | Fluorene | 50 | 44.7 | ug/L | 89 | 2 | | | 70 (64) | 130 (107) | 20 (20) |
| | 4-Nitroaniline | 50 | 46.6 | ug/L | 93 | 2 | | | 70 (55) | 130 (125) | 20 (20) |
| | 4,6-Dinitro-2-methylphenol | 50 | 48.8 | ug/L | 98 | 2 | | | 70 (62) | 130 (132) | 20 (20) |
| | N-Nitrosodiphenylamine | 50 | 45.1 | ug/L | 90 | 2 | | | 70 (61) | 130 (109) | 20 (20) |
| | 4-Bromophenyl-phenylether | 50 | 45.2 | ug/L | 90 | 3 | | | 70 (73) | 130 (103) | 20 (20) |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8270E **DataFile:** BF142728.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168285BSD | Hexachlorobenzene | 50 | 44.6 | ug/L | 89 | 1 | | | 70 (73) | 130 (106) | 20 (20) |
| | Atrazine | 50 | 49.8 | ug/L | 100 | 2 | | | 70 (76) | 130 (120) | 20 (20) |
| | Pentachlorophenol | 100 | 92.4 | ug/L | 92 | 1 | | | 20 (47) | 160 (114) | 20 (20) |
| | Phenanthrene | 50 | 44.9 | ug/L | 90 | 1 | | | 70 (62) | 130 (109) | 20 (20) |
| | Anthracene | 50 | 44.9 | ug/L | 90 | 2 | | | 70 (65) | 130 (110) | 20 (20) |
| | Carbazole | 50 | 46.0 | ug/L | 92 | 1 | | | 70 (62) | 130 (106) | 20 (20) |
| | Di-n-butylphthalate | 50 | 47.9 | ug/L | 96 | 3 | | | 70 (64) | 130 (106) | 20 (20) |
| | Fluoranthene | 50 | 44.9 | ug/L | 90 | 2 | | | 70 (64) | 130 (110) | 20 (20) |
| | Pyrene | 50 | 45.6 | ug/L | 91 | 2 | | | 70 (71) | 130 (103) | 20 (20) |
| | Butylbenzylphthalate | 50 | 50.3 | ug/L | 101 | 0 | | | 70 (61) | 130 (105) | 20 (20) |
| | 3,3-Dichlorobenzidine | 50 | 22.2 | ug/L | 44 | 3 | * | | 70 (43) | 130 (108) | 20 (20) |
| | Benzo(a)anthracene | 50 | 47.6 | ug/L | 95 | 4 | | | 70 (62) | 130 (107) | 20 (20) |
| | Chrysene | 50 | 44.8 | ug/L | 90 | 4 | | | 70 (61) | 130 (108) | 20 (20) |
| | bis(2-Ethylhexyl)phthalate | 50 | 48.5 | ug/L | 97 | 5 | | | 70 (59) | 130 (110) | 20 (20) |
| | Di-n-octyl phthalate | 50 | 47.1 | ug/L | 94 | 6 | | | 70 (52) | 130 (139) | 20 (20) |
| | Benzo(b)fluoranthene | 50 | 46.5 | ug/L | 93 | 5 | | | 70 (77) | 130 (113) | 20 (20) |
| | Benzo(k)fluoranthene | 50 | 47.3 | ug/L | 95 | 7 | | | 70 (77) | 130 (105) | 20 (20) |
| | Benzo(a)pyrene | 50 | 47.5 | ug/L | 95 | 2 | | | 70 (72) | 130 (131) | 20 (20) |
| | Indeno(1,2,3-cd)pyrene | 50 | 46.3 | ug/L | 93 | 3 | | | 70 (72) | 130 (105) | 20 (20) |
| | Dibenz(a,h)anthracene | 50 | 46.6 | ug/L | 93 | 3 | | | 70 (78) | 130 (115) | 20 (20) |
| | Benzo(g,h,i)perylene | 50 | 45.6 | ug/L | 91 | 3 | | | 70 (75) | 130 (118) | 20 (20) |
| | 1,2,4,5-Tetrachlorobenzene | 50 | 44.7 | ug/L | 89 | 0 | | | 70 (72) | 130 (101) | 20 (20) |
| | 1,4-Dioxane | 50 | 36.5 | ug/L | 73 | 1 | | | 20 (38) | 160 (125) | 20 (20) |
| | 2,3,4,6-Tetrachlorophenol | 50 | 46.0 | ug/L | 92 | 0 | | | 70 (63) | 130 (116) | 20 (20) |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8270E **DataFile:** BF142750.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168259BS | Benzaldehyde | 1700 | 1100 | ug/Kg | 65 | | | | 20 (10) | 160 (133) | |
| | Phenol | 1700 | 1600 | ug/Kg | 94 | | | | 20 (62) | 160 (112) | |
| | bis(2-Chloroethyl)ether | 1700 | 1600 | ug/Kg | 94 | | | | 70 (60) | 130 (101) | |
| | 2-Chlorophenol | 1700 | 1600 | ug/Kg | 94 | | | | 70 (65) | 130 (112) | |
| | 2-Methylphenol | 1700 | 1600 | ug/Kg | 94 | | | | 70 (61) | 130 (108) | |
| | 2,2-oxybis(1-Chloropropane) | 1700 | 1500 | ug/Kg | 88 | | | | 70 (51) | 130 (100) | |
| | Acetophenone | 1700 | 1600 | ug/Kg | 94 | | | | 70 (66) | 130 (98) | |
| | 3+4-Methylphenols | 1700 | 1600 | ug/Kg | 94 | | | | 20 (58) | 160 (111) | |
| | N-Nitroso-di-n-propylamine | 1700 | 1500 | ug/Kg | 88 | | | | 70 (63) | 130 (95) | |
| | Hexachloroethane | 1700 | 1500 | ug/Kg | 88 | | | | 20 (72) | 160 (108) | |
| | Nitrobenzene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (57) | 130 (101) | |
| | Isophorone | 1700 | 1500 | ug/Kg | 88 | | | | 70 (59) | 130 (99) | |
| | 2-Nitrophenol | 1700 | 1600 | ug/Kg | 94 | | | | 70 (61) | 130 (111) | |
| | 2,4-Dimethylphenol | 1700 | 1600 | ug/Kg | 94 | | | | 70 (46) | 130 (141) | |
| | bis(2-Chloroethoxy)methane | 1700 | 1500 | ug/Kg | 88 | | | | 70 (66) | 130 (97) | |
| | 2,4-Dichlorophenol | 1700 | 1600 | ug/Kg | 94 | | | | 70 (62) | 130 (107) | |
| | Naphthalene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (62) | 130 (100) | |
| | 4-Chloroaniline | 1700 | 700 | ug/Kg | 41 | | * | | 70 (16) | 130 (100) | |
| | Hexachlorobutadiene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (53) | 130 (98) | |
| | Caprolactam | 1700 | 1500 | ug/Kg | 88 | | | | 20 (67) | 160 (110) | |
| | 4-Chloro-3-methylphenol | 1700 | 1500 | ug/Kg | 88 | | | | 70 (58) | 130 (112) | |
| | 2-Methylnaphthalene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (60) | 130 (104) | |
| | Hexachlorocyclopentadiene | 3300 | 3400 | ug/Kg | 103 | | | | 20 (45) | 160 (165) | |
| | 2,4,6-Trichlorophenol | 1700 | 1600 | ug/Kg | 94 | | | | 70 (59) | 130 (102) | |
| | 2,4,5-Trichlorophenol | 1700 | 1600 | ug/Kg | 94 | | | | 70 (61) | 130 (98) | |
| | 1,1-Biphenyl | 1700 | 1700 | ug/Kg | 100 | | | | 70 (57) | 130 (103) | |
| | 2-Chloronaphthalene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (58) | 130 (99) | |
| | 2-Nitroaniline | 1700 | 1600 | ug/Kg | 94 | | | | 70 (66) | 130 (101) | |
| | Dimethylphthalate | 1700 | 1600 | ug/Kg | 94 | | | | 70 (61) | 130 (99) | |
| | Acenaphthylene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (63) | 130 (101) | |
| | 2,6-Dinitrotoluene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (61) | 130 (104) | |
| | 3-Nitroaniline | 1700 | 910 | ug/Kg | 54 | | * | | 70 (28) | 130 (100) | |
| | Acenaphthene | 1700 | 1700 | ug/Kg | 100 | | | | 70 (57) | 130 (104) | |
| | 2,4-Dinitrophenol | 3300 | 3200 | ug/Kg | 97 | | | | 20 (37) | 160 (128) | |
| | 4-Nitrophenol | 3300 | 3000 | ug/Kg | 91 | | | | 20 (48) | 160 (119) | |
| | Dibenzofuran | 1700 | 1600 | ug/Kg | 94 | | | | 70 (63) | 130 (99) | |
| | 2,4-Dinitrotoluene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (60) | 130 (106) | |
| | Diethylphthalate | 1700 | 1500 | ug/Kg | 88 | | | | 70 (60) | 130 (101) | |
| | 4-Chlorophenyl-phenylether | 1700 | 1500 | ug/Kg | 88 | | | | 70 (58) | 130 (98) | |
| | Fluorene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (61) | 130 (101) | |
| | 4-Nitroaniline | 1700 | 1500 | ug/Kg | 88 | | | | 70 (64) | 130 (103) | |
| | 4,6-Dinitro-2-methylphenol | 1700 | 1700 | ug/Kg | 100 | | | | 70 (76) | 130 (113) | |
| | N-Nitrosodiphenylamine | 1700 | 1700 | ug/Kg | 100 | | | | 70 (71) | 130 (99) | |
| | 4-Bromophenyl-phenylether | 1700 | 1700 | ug/Kg | 100 | | | | 70 (66) | 130 (102) | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8270E **DataFile:** BF142750.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168259BS | Hexachlorobenzene | 1700 | 1700 | ug/Kg | 100 | | | | 70 (64) | 130 (98) | |
| | Atrazine | 1700 | 1700 | ug/Kg | 100 | | | | 70 (47) | 130 (152) | |
| | Pentachlorophenol | 3300 | 3300 | ug/Kg | 100 | | | | 20 (67) | 160 (105) | |
| | Phenanthrene | 1700 | 1700 | ug/Kg | 100 | | | | 70 (59) | 130 (103) | |
| | Anthracene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (61) | 130 (105) | |
| | Carbazole | 1700 | 1700 | ug/Kg | 100 | | | | 70 (61) | 130 (99) | |
| | Di-n-butylphthalate | 1700 | 1600 | ug/Kg | 94 | | | | 70 (58) | 130 (104) | |
| | Fluoranthene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (57) | 130 (107) | |
| | Pyrene | 1700 | 1400 | ug/Kg | 82 | | | | 70 (59) | 130 (103) | |
| | Butylbenzylphthalate | 1700 | 1800 | ug/Kg | 106 | | | | 70 (55) | 130 (103) | |
| | 3,3-Dichlorobenzidine | 1700 | 950 | ug/Kg | 56 | | * | | 70 (42) | 130 (91) | |
| | Benzo(a)anthracene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (60) | 130 (102) | |
| | Chrysene | 1700 | 1700 | ug/Kg | 100 | | | | 70 (59) | 130 (101) | |
| | bis(2-Ethylhexyl)phthalate | 1700 | 1800 | ug/Kg | 106 | | | | 70 (54) | 130 (135) | |
| | Di-n-octyl phthalate | 1700 | 1700 | ug/Kg | 100 | | | | 70 (52) | 130 (137) | |
| | Benzo(b)fluoranthene | 1700 | 1800 | ug/Kg | 106 | | | | 70 (62) | 130 (109) | |
| | Benzo(k)fluoranthene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (62) | 130 (109) | |
| | Benzo(a)pyrene | 1700 | 1700 | ug/Kg | 100 | | | | 70 (63) | 130 (103) | |
| | Indeno(1,2,3-cd)pyrene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (63) | 130 (101) | |
| | Dibenz(a,h)anthracene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (61) | 130 (112) | |
| | Benzo(g,h,i)perylene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (70) | 130 (108) | |
| | 1,2,4,5-Tetrachlorobenzene | 1700 | 1700 | ug/Kg | 100 | | | | 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 (59) | 130 (108) | |

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168259BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BF142641.D Lab Sample ID: PB168259BL

Instrument ID: BNA_F Date Extracted: 06/04/2025

Matrix: (soil/water) SOIL Date Analyzed: 06/06/2025

Level: (low/med) LOW Time Analyzed: 12:06

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| B-187-SB02 | Q2177-04 | BF142652.D | 06/06/2025 |
| COMP-13MS | Q2194-03MS | BF142629.D | 06/05/2025 |
| COMP-13MSD | Q2194-03MSD | BF142630.D | 06/05/2025 |
| PB168259BS | PB168259BS | BF142750.D | 06/12/2025 |
| B-187-SB01 | Q2177-02 | BP024895.D | 06/10/2025 |
| B-202-SB01 | Q2177-06 | BP024899.D | 06/10/2025 |

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168285BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BF142626.D Lab Sample ID: PB168285BL

Instrument ID: BNA_F Date Extracted: 06/04/2025

Matrix: (soil/water) Water Date Analyzed: 06/05/2025

Level: (low/med) LOW Time Analyzed: 11:04

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| EB05312025 | Q2177-08 | BF142658.D | 06/06/2025 |
| PB168285BS | PB168285BS | BF142727.D | 06/11/2025 |
| PB168285BSD | PB168285BSD | BF142728.D | 06/11/2025 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BF142465.D DFTPP Injection Date: 05/20/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:13

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 36.8 |
| 68 | Less than 2.0% of mass 69 | 0.5 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 33.1 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 44.9 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.6 |
| 275 | 10.0 - 60.0% of mass 198 | 29.9 |
| 365 | Greater than 1% of mass 198 | 4.2 |
| 441 | Present, but less than mass 443 | 19.9 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19 ( 19 ) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BF142467.D | 05/20/2025 | 12:10 |
| SSTDICC005 | SSTDICC005 | BF142468.D | 05/20/2025 | 12:38 |
| SSTDICC010 | SSTDICC010 | BF142469.D | 05/20/2025 | 13:07 |
| SSTDICC020 | SSTDICC020 | BF142470.D | 05/20/2025 | 13:36 |
| SSTDICCC040 | SSTDICCC040 | BF142471.D | 05/20/2025 | 14:05 |
| SSTDICC050 | SSTDICC050 | BF142472.D | 05/20/2025 | 14:34 |
| SSTDICC060 | SSTDICC060 | BF142473.D | 05/20/2025 | 15:03 |
| SSTDICC080 | SSTDICC080 | BF142474.D | 05/20/2025 | 15:31 |

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5B

# SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BF142624.D DFTPP Injection Date: 06/05/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:07

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 38.0 |
| 68 | Less than 2.0% of mass 69 | 0.5 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 33.2 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 45.4 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 |
| 275 | 10.0 - 60.0% of mass 198 | 27.9 |
| 365 | Greater than 1% of mass 198 | 3.5 |
| 441 | Present, but less than mass 443 | 17.5 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.6 (19.6) 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 | BF142625.D | 06/05/2025 | 09:37 |
| PB168285BL | PB168285BL | BF142626.D | 06/05/2025 | 11:04 |
| COMP-13MS | Q2194-03MS | BF142629.D | 06/05/2025 | 12:38 |
| COMP-13MSD | Q2194-03MSD | BF142630.D | 06/05/2025 | 13:07 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BF142639.D DFTPP Injection Date: 06/06/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:01

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 37.0 |
| 68 | Less than 2.0% of mass 69 | 0.5 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 32.3 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 45.2 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.6 |
| 275 | 10.0 - 60.0% of mass 198 | 28.0 |
| 365 | Greater than 1% of mass 198 | 3.6 |
| 441 | Present, but less than mass 443 | 17.0 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 18.9 (18.9) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF142640.D | 06/06/2025 | 11:36 |
| PB168259BL | PB168259BL | BF142641.D | 06/06/2025 | 12:06 |
| B-187-SB02 | Q2177-04 | BF142652.D | 06/06/2025 | 18:01 |
| EB05312025 | Q2177-08 | BF142658.D | 06/06/2025 | 21:02 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BF142710.D DFTPP Injection Date: 06/10/2025

Instrument ID: BNA_F DFTPP Injection Time: 15:42

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 36.0 |
| 68 | Less than 2.0% of mass 69 | 0.5 ( 1.7 ) 1 |
| 69 | Mass 69 relative abundance | 33.2 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.2 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 45.7 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 |
| 275 | 10.0 - 60.0% of mass 198 | 28.7 |
| 365 | Greater than 1% of mass 198 | 3.9 |
| 441 | Present, but less than mass 443 | 18.0 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19 ( 19 ) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BF142712.D | 06/10/2025 | 16:54 |
| SSTDICC005 | SSTDICC005 | BF142713.D | 06/10/2025 | 17:24 |
| SSTDICC010 | SSTDICC010 | BF142714.D | 06/10/2025 | 17:53 |
| SSTDICC020 | SSTDICC020 | BF142715.D | 06/10/2025 | 18:22 |
| SSTDICCC040 | SSTDICCC040 | BF142716.D | 06/10/2025 | 18:52 |
| SSTDICC050 | SSTDICC050 | BF142717.D | 06/10/2025 | 19:21 |
| SSTDICC060 | SSTDICC060 | BF142718.D | 06/10/2025 | 19:50 |
| SSTDICC080 | SSTDICC080 | BF142719.D | 06/10/2025 | 20:19 |

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5B

# SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BF142722.D DFTPP Injection Date: 06/11/2025

Instrument ID: BNA_F DFTPP Injection Time: 08:56

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 37.2 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 34.1 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.4 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 47.9 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.6 |
| 275 | 10.0 - 60.0% of mass 198 | 27.9 |
| 365 | Greater than 1% of mass 198 | 3.7 |
| 441 | Present, but less than mass 443 | 17.6 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 18.6 (18.6) 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 | BF142723.D | 06/11/2025 | 09:24 |
| PB168285BS | PB168285BS | BF142727.D | 06/11/2025 | 11:21 |
| PB168285BSD | PB168285BSD | BF142728.D | 06/11/2025 | 11:50 |

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5B

# SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BF142747.D DFTPP Injection Date: 06/12/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:21

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 35.5 |
| 68 | Less than 2.0% of mass 69 | 0.5 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 34.0 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.2 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48.0 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.6 |
| 275 | 10.0 - 60.0% of mass 198 | 28.1 |
| 365 | Greater than 1% of mass 198 | 4.0 |
| 441 | Present, but less than mass 443 | 17.8 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.5 (19.5) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF142748.D | 06/12/2025 | 09:50 |
| PB168259BS | PB168259BS | BF142750.D | 06/12/2025 | 11:25 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BP024859.D DFTPP Injection Date: 06/06/2025

Instrument ID: BNA_P DFTPP Injection Time: 09:49

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 32.2 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 36.9 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 47.9 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.6 |
| 275 | 10.0 - 60.0% of mass 198 | 31.2 |
| 365 | Greater than 1% of mass 198 | 4.6 |
| 441 | Present, but less than mass 443 | 13.1 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 16.1 (19.2) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BP024860.D | 06/06/2025 | 10:30 |
| SSTDICC005 | SSTDICC005 | BP024861.D | 06/06/2025 | 11:11 |
| SSTDICC010 | SSTDICC010 | BP024862.D | 06/06/2025 | 11:52 |
| SSTDICC020 | SSTDICC020 | BP024863.D | 06/06/2025 | 12:33 |
| SSTDICCC040 | SSTDICCC040 | BP024864.D | 06/06/2025 | 13:14 |
| SSTDICC050 | SSTDICC050 | BP024865.D | 06/06/2025 | 13:56 |
| SSTDICC060 | SSTDICC060 | BP024866.D | 06/06/2025 | 14:37 |
| SSTDICC080 | SSTDICC080 | BP024867.D | 06/06/2025 | 15:18 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BP024887.D DFTPP Injection Date: 06/10/2025

Instrument ID: BNA_P DFTPP Injection Time: 10:12

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 30.5 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 35 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 46.2 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 |
| 275 | 10.0 - 60.0% of mass 198 | 30.9 |
| 365 | Greater than 1% of mass 198 | 4.1 |
| 441 | Present, but less than mass 443 | 12 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 15.3 (19.4) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BP024888.D | 06/10/2025 | 10:53 |
| B-187-SB01 | Q2177-02 | BP024895.D | 06/10/2025 | 15:46 |
| B-202-SB01 | Q2177-06 | BP024899.D | 06/10/2025 | 18:30 |

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5B

# SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BP024904.D DFTPP Injection Date: 06/11/2025

Instrument ID: BNA_P DFTPP Injection Time: 09:29

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 29.9 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 34.6 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 45.8 |
| 197 | Less than 2.0% of mass 198 | 0.2 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.7 |
| 275 | 10.0 - 60.0% of mass 198 | 30.8 |
| 365 | Greater than 1% of mass 198 | 4.4 |
| 441 | Present, but less than mass 443 | 13.2 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 16.1 (19.1) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BP024905.D | 06/11/2025 | 10:09 |
| B-187-SB01DL | Q2177-02DL | BP024917.D | 06/11/2025 | 18:27 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/05/2025

Lab File ID: BF142625.D Time Analyzed: 09:37

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 | 122240 | 6.898 | 479356 | 8.18 | 254347 | 9.94 |
| | UPPER LIMIT | 244480 | 7.398 | 958712 | 8.681 | 508694 | 10.439 |
| | LOWER LIMIT | 61120 | 6.398 | 239678 | 7.681 | 127174 | 9.439 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB168285BL | 122182 | 6.89 | 466755 | 8.18 | 253840 | 9.93 |
| 02 | COMP-13MS | 122190 | 6.90 | 451779 | 8.18 | 216895 | 9.94 |
| 03 | COMP-13MSD | 123357 | 6.90 | 463790 | 8.18 | 232069 | 9.94 |

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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Fax : 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/05/2025

Lab File ID: BF142625.D Time Analyzed: 09:37

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 | 415186 | 11.427 | 211462 | 14.068 | 258069 | 15.562 |
| | UPPER LIMIT | 830372 | 11.927 | 422924 | 14.568 | 516138 | 16.062 |
| | LOWER LIMIT | 207593 | 10.927 | 105731 | 13.568 | 129035 | 15.062 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB168285BL | 433273 | 11.42 | 225137 | 14.07 | 234045 | 15.56 |
| 02 | COMP-13MS | 322012 | 11.43 | 234738 | 14.07 | 279656 | 15.56 |
| 03 | COMP-13MSD | 359383 | 11.43 | 228816 | 14.07 | 274428 | 15.56 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/06/2025

Lab File ID: BF142640.D Time Analyzed: 11:36

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 | 126582 | 6.893 | 487381 | 8.18 | 254808 | 9.94 |
| | UPPER LIMIT | 253164 | 7.393 | 974762 | 8.681 | 509616 | 10.439 |
| | LOWER LIMIT | 63291 | 6.393 | 243691 | 7.681 | 127404 | 9.439 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB168259BL | 125991 | 6.89 | 479451 | 8.18 | 262840 | 9.93 |
| 02 | B-187-SB02 | 127118 | 6.89 | 464348 | 8.18 | 242206 | 9.93 |
| 03 | EB05312025 | 110379 | 6.89 | 418699 | 8.18 | 221656 | 9.93 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/06/2025

Lab File ID: BF142640.D Time Analyzed: 11:36

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 | 375492 | 11.428 | 207998 | 14.069 | 270482 | 15.563 |
| | UPPER LIMIT | 750984 | 11.928 | 415996 | 14.569 | 540964 | 16.063 |
| | LOWER LIMIT | 187746 | 10.928 | 103999 | 13.569 | 135241 | 15.063 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB168259BL | 462327 | 11.42 | 248067 | 14.07 | 250839 | 15.56 |
| 02 | B-187-SB02 | 341702 | 11.42 | 233121 | 14.06 | 281873 | 15.56 |
| 03 | EB05312025 | 326437 | 11.42 | 208673 | 14.06 | 249927 | 15.56 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/11/2025

Lab File ID: BF142723.D Time Analyzed: 09:24

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 | 78219 | 6.892 | 306828 | 8.18 | 172169 | 9.94 |
| | UPPER LIMIT | 156438 | 7.392 | 613656 | 8.681 | 344338 | 10.439 |
| | LOWER LIMIT | 39109.5 | 6.392 | 153414 | 7.681 | 86084.5 | 9.439 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB168285BS | 75631 | 6.89 | 294551 | 8.18 | 162704 | 9.93 |
| 02 | PB168285BSD | 79958 | 6.89 | 304653 | 8.18 | 167586 | 9.94 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/11/2025

Lab File ID: BF142723.D Time Analyzed: 09:24

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 | 291189 | 11.427 | 151467 | 14.068 | 144700 | 15.562 |
| | UPPER LIMIT | 582378 | 11.927 | 302934 | 14.568 | 289400 | 16.062 |
| | LOWER LIMIT | 145595 | 10.927 | 75733.5 | 13.568 | 72350 | 15.062 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB168285BS | 278222 | 11.43 | 147780 | 14.07 | 156697 | 15.56 |
| 02 | PB168285BSD | 281985 | 11.43 | 148975 | 14.07 | 159540 | 15.56 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/12/2025

Lab File ID: BF142748.D Time Analyzed: 09:50

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 | 70133 | 6.892 | 258971 | 8.18 | 130776 | 9.93 |
| | UPPER LIMIT | 140266 | 7.392 | 517942 | 8.675 | 261552 | 10.433 |
| | LOWER LIMIT | 35066.5 | 6.392 | 129486 | 7.675 | 65388 | 9.433 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB168259BS | 68728 | 6.89 | 259756 | 8.18 | 133412 | 9.93 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/12/2025

Lab File ID: BF142748.D Time Analyzed: 09:50

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 | 201441 | 11.422 | 120471 | 14.068 | 146263 | 15.562 |
| | UPPER LIMIT | 402882 | 11.922 | 240942 | 14.568 | 292526 | 16.062 |
| | LOWER LIMIT | 100721 | 10.922 | 60235.5 | 13.568 | 73131.5 | 15.062 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB168259BS | 196055 | 11.42 | 125134 | 14.07 | 151859 | 15.56 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/10/2025

Lab File ID: BP024888.D Time Analyzed: 10:53

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 264162 | 7.602 | 1106060 | 10.37 | 714331 | 14.24 |
| | UPPER LIMIT | 528324 | 8.102 | 2212120 | 10.872 | 1428660 | 14.742 |
| | LOWER LIMIT | 132081 | 7.102 | 553030 | 9.872 | 357166 | 13.742 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | B-187-SB01 | 259952 | 7.61 | 1064330 | 10.38 | 672188 | 14.26 |
| 02 | B-202-SB01 | 258806 | 7.61 | 1052780 | 10.38 | 660296 | 14.25 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/10/2025

Lab File ID: BP024888.D Time Analyzed: 10:53

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 1406880 | 17.048 | 1508870 | 21.466 | 1759120 | 24.707 |
| | UPPER LIMIT | 2813760 | 17.548 | 3017740 | 21.966 | 3518240 | 25.207 |
| | LOWER LIMIT | 703440 | 16.548 | 754435 | 20.966 | 879560 | 24.207 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | B-187-SB01 | 1296140 | 17.07 | 1315800 | 21.51 | 1598310 | 24.76 |
| 02 | B-202-SB01 | 1279800 | 17.05 | 1406580 | 21.49 | 1730550 | 24.77 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/11/2025

Lab File ID: BP024905.D Time Analyzed: 10:09

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 246136 | 7.607 | 989564 | 10.38 | 627529 | 14.25 |
| | UPPER LIMIT | 492272 | 8.107 | 1979130 | 10.878 | 1255060 | 14.754 |
| | LOWER LIMIT | 123068 | 7.107 | 494782 | 9.878 | 313765 | 13.754 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | B-187-SB01DL | 219933 | 7.61 | 879842 | 10.38 | 533152 | 14.25 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/11/2025

Lab File ID: BP024905.D Time Analyzed: 10:09

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 1260450 | 17.06 | 1315010 | 21.501 | 1616000 | 24.765 |
| | UPPER LIMIT | 2520900 | 17.56 | 2630020 | 22.001 | 3232000 | 25.265 |
| | LOWER LIMIT | 630225 | 16.56 | 657505 | 21.001 | 808000 | 24.265 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | B-187-SB01DL | 1070450 | 17.06 | 1300160 | 21.49 | 1571240 | 24.75 |

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: **BF142641.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168259BL | SDG No.: | Q2177 |
| Lab Sample ID: | PB168259BL | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142641.D | 1 | 06/04/25 12:45 | 06/06/25 12:06 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 160 | U | 160 | 330 | ug/Kg |
| 108-95-2 | Phenol | 22.1 | U | 22.1 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 24.3 | U | 24.3 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 24.4 | U | 24.4 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 29.9 | U | 29.9 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 37.5 | U | 37.5 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 29.5 | U | 29.5 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 41.1 | U | 41.1 | 330 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 47.4 | U | 47.4 | 80.0 | ug/Kg |
| 67-72-1 | Hexachloroethane | 17.6 | U | 17.6 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 18.3 | U | 18.3 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 32.8 | U | 32.8 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 58.2 | U | 58.2 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 64.8 | U | 64.8 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 30.8 | U | 30.8 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 28.3 | U | 28.3 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 22.7 | U | 22.7 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 35.4 | U | 35.4 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 25.3 | U | 25.3 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 52.1 | U | 52.1 | 330 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 28.7 | U | 28.7 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 25.6 | U | 25.6 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 120 | U | 120 | 330 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 19.8 | U | 19.8 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 29.1 | U | 29.1 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 21.8 | U | 21.8 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 22.5 | U | 22.5 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 48.1 | U | 48.1 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 27.1 | U | 27.1 | 170 | ug/Kg |

Raw Data: **BF142641.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168259BL | SDG No.: | Q2177 |
| Lab Sample ID: | PB168259BL | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142641.D | 1 | 06/04/25 12:45 | 06/06/25 12:06 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 28.9 | U | 28.9 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 33.6 | U | 33.6 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 46.0 | U | 46.0 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 21.3 | U | 21.3 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 230 | U | 230 | 330 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 110 | U | 110 | 330 | ug/Kg |
| 132-64-9 | Dibenzofuran | 22.7 | U | 22.7 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 50.1 | U | 50.1 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 28.3 | U | 28.3 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 26.7 | U | 26.7 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 25.3 | U | 25.3 | 170 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 64.2 | U | 64.2 | 170 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 100 | U | 100 | 330 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 32.9 | U | 32.9 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 27.8 | U | 27.8 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 25.3 | U | 25.3 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 34.0 | U | 34.0 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 51.3 | U | 51.3 | 330 | ug/Kg |
| 85-01-8 | Phenanthrene | 20.9 | U | 20.9 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 33.3 | U | 33.3 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 31.2 | U | 31.2 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 47.9 | U | 47.9 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 30.0 | U | 30.0 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 36.0 | U | 36.0 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 71.4 | U | 71.4 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 36.7 | U | 36.7 | 330 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 23.0 | U | 23.0 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 19.9 | U | 19.9 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 59.2 | U | 59.2 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 86.8 | U | 86.8 | 330 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 19.0 | U | 19.0 | 170 | ug/Kg |

Raw Data: **BF142641.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168259BL | SDG No.: | Q2177 |
| Lab Sample ID: | PB168259BL | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142641.D | 1 | 06/04/25 12:45 | 06/06/25 12:06 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 22.4 | U | 22.4 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 29.5 | U | 29.5 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 29.1 | U | 29.1 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 27.4 | U | 27.4 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 25.7 | U | 25.7 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 25.6 | U | 25.6 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 45.2 | U | 45.2 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 27.4 | U | 27.4 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 124 | | 30 (18) - 130 (112) | 83% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 126 | | 30 (15) - 130 (107) | 84% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 78.1 | | 30 (18) - 130 (107) | 78% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 74.4 | | 30 (20) - 130 (109) | 74% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 127 | | 30 (10) - 130 (116) | 84% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 78.9 | | 30 (10) - 130 (105) | 79% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 126000 | 6.892 | | | |
| 1146-65-2 | Naphthalene-d8 | 479000 | 8.175 | | | |
| 15067-26-2 | Acenaphthene-d10 | 263000 | 9.933 | | | |
| 1517-22-2 | Phenanthrene-d10 | 462000 | 11.422 | | | |
| 1719-03-5 | Chrysene-d12 | 248000 | 14.068 | | | |
| 1520-96-3 | Perylene-d12 | 251000 | 15.562 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 340 | A | | 5.13 | ug/Kg |
| 006311-48-4 | (1,1-Biphenyl)-4,4-diamine, N,N | 95.3 | J | | 17.3 | ug/Kg |

Raw Data: **BF142641.D**

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | | | Date Received: | |
| Client Sample ID: | PB168259BL | | | SDG No.: | Q2177 |
| Lab Sample ID: | PB168259BL | | | Matrix: | SOIL |
| Analytical Method: | 8270E | | | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3541 | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142641.D | 1 | 06/04/25 12:45 | 06/06/25 12:06 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|

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

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

Raw Data: **BF142626.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168285BL | SDG No.: | Q2177 |
| Lab Sample ID: | PB168285BL | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142626.D | 1 | 06/04/25 11:45 | 06/05/25 11:04 | PB168285 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 3.90 | U | 3.90 | 10.0 | ug/L |
| 108-95-2 | Phenol | 0.91 | U | 0.91 | 5.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 0.81 | U | 0.81 | 5.00 | ug/L |
| 95-57-8 | 2-Chlorophenol | 0.58 | U | 0.58 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 1.10 | U | 1.10 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1.30 | U | 1.30 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 0.74 | U | 0.74 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 1.10 | U | 1.10 | 10.0 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1.40 | U | 1.40 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 0.65 | U | 0.65 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 0.76 | U | 0.76 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 0.75 | U | 0.75 | 5.00 | ug/L |
| 88-75-5 | 2-Nitrophenol | 1.80 | U | 1.80 | 5.00 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 1.90 | U | 1.90 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 0.68 | U | 0.68 | 5.00 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 0.52 | U | 0.52 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 0.50 | U | 0.50 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 0.84 | U | 0.84 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 0.54 | U | 0.54 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 1.10 | U | 1.10 | 10.0 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.59 | U | 0.59 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 0.56 | U | 0.56 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 3.60 | U | 3.60 | 10.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.51 | U | 0.51 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.62 | U | 0.62 | 5.00 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 0.53 | U | 0.53 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 0.61 | U | 0.61 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 1.30 | U | 1.30 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 0.61 | U | 0.61 | 5.00 | ug/L |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168285BL | SDG No.: | Q2177 |
| Lab Sample ID: | PB168285BL | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142626.D | 1 | 06/04/25 11:45 | 06/05/25 11:04 | PB168285 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 0.75 | U | 0.75 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 0.92 | U | 0.92 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 1.10 | U | 1.10 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 0.55 | U | 0.55 | 5.00 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 6.00 | U | 6.00 | 10.0 | ug/L |
| 100-02-7 | 4-Nitrophenol | 2.40 | U | 2.40 | 10.0 | ug/L |
| 132-64-9 | Dibenzofuran | 0.61 | U | 0.61 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 0.69 | U | 0.69 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.68 | U | 0.68 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 0.63 | U | 0.63 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 1.50 | U | 1.50 | 5.00 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2.90 | U | 2.90 | 10.0 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 0.58 | U | 0.58 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.40 | U | 0.40 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 0.52 | U | 0.52 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 1.00 | U | 1.00 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 1.60 | U | 1.60 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 0.50 | U | 0.50 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 0.61 | U | 0.61 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 0.72 | U | 0.72 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 1.20 | U | 1.20 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 0.82 | U | 0.82 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 0.50 | U | 0.50 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 1.90 | U | 1.90 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 0.93 | U | 0.93 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 0.45 | U | 0.45 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 0.44 | U | 0.44 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1.60 | U | 1.60 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 2.30 | U | 2.30 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 0.49 | U | 0.49 | 5.00 | ug/L |

Raw Data: **BF142626.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168285BL | SDG No.: | Q2177 |
| Lab Sample ID: | PB168285BL | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142626.D | 1 | 06/04/25 11:45 | 06/05/25 11:04 | PB168285 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 0.48 | U | 0.48 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 0.55 | U | 0.55 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.59 | U | 0.59 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.67 | U | 0.67 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 0.69 | U | 0.69 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.52 | U | 0.52 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 1.00 | U | 1.00 | 5.00 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.72 | U | 0.72 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 125 | | 15 (23) - 110 (138) | 83% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 124 | | 15 (10) - 110 (134) | 83% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 78.6 | | 30 (67) - 130 (132) | 79% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 75.2 | | 30 (52) - 130 (132) | 75% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 122 | | 15 (44) - 110 (137) | 82% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 78.1 | | 30 (42) - 130 (152) | 78% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 122000 | 6.892 | | | |
| 1146-65-2 | Naphthalene-d8 | 467000 | 8.181 | | | |
| 15067-26-2 | Acenaphthene-d10 | 254000 | 9.933 | | | |
| 1517-22-2 | Phenanthrene-d10 | 433000 | 11.421 | | | |
| 1719-03-5 | Chrysene-d12 | 225000 | 14.068 | | | |
| 1520-96-3 | Perylene-d12 | 234000 | 15.562 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 9.90 | A | | 5.13 | ug/L |

Raw Data: **BF142626.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168285BL | SDG No.: | Q2177 |
| Lab Sample ID: | PB168285BL | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142626.D | 1 | 06/04/25 11:45 | 06/05/25 11:04 | PB168285 |

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

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

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

Raw Data: **BF142750.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168259BS | SDG No.: | Q2177 |
| Lab Sample ID: | PB168259BS | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142750.D | 1 | 06/04/25 12:45 | 06/12/25 11:25 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 1100 | | 160 | 330 | ug/Kg |
| 108-95-2 | Phenol | 1600 | | 22.1 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1600 | | 24.3 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1600 | | 24.4 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1600 | | 29.9 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1500 | | 37.5 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 1600 | | 29.5 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1600 | | 41.1 | 330 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1500 | | 47.4 | 79.9 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1500 | | 17.6 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1600 | | 18.3 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 1500 | | 32.8 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1600 | | 58.1 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 1600 | | 64.7 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1500 | | 30.8 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1600 | | 28.3 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 1600 | | 22.7 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 700 | | 35.4 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1600 | | 25.3 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 1500 | | 52.0 | 330 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1500 | | 28.7 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1500 | | 25.6 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 3400 | E | 120 | 330 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1600 | | 19.8 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1600 | | 29.1 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1700 | | 21.8 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1600 | | 22.5 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1600 | | 48.1 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1600 | | 27.1 | 170 | ug/Kg |

Raw Data: **BF142750.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168259BS | SDG No.: | Q2177 |
| Lab Sample ID: | PB168259BS | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142750.D | 1 | 06/04/25 12:45 | 06/12/25 11:25 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1600 | | 28.9 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1600 | | 33.6 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 910 | | 46.0 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 1700 | | 21.3 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 3200 | E | 230 | 330 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 3000 | E | 110 | 330 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1600 | | 22.7 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1600 | | 50.0 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1500 | | 28.3 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1500 | | 26.7 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 1500 | | 25.3 | 170 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 1500 | | 64.1 | 170 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700 | | 100 | 330 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1700 | | 32.9 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1700 | | 27.8 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1700 | | 25.3 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 1700 | | 34.0 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 3300 | E | 51.2 | 330 | ug/Kg |
| 85-01-8 | Phenanthrene | 1700 | | 20.9 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 1600 | | 33.3 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 1700 | | 31.2 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1600 | | 47.9 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 1600 | | 30.0 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 1400 | | 36.0 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1800 | | 71.3 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 950 | | 36.7 | 330 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1600 | | 23.0 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 1700 | | 19.9 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1800 | | 59.1 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1700 | | 86.7 | 330 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1800 | | 19.0 | 170 | ug/Kg |

Raw Data: **BF142750.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168259BS | SDG No.: | Q2177 |
| Lab Sample ID: | PB168259BS | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142750.D | 1 | 06/04/25 12:45 | 06/12/25 11:25 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1500 | | 22.4 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1700 | | 29.5 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1600 | | 29.1 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1600 | | 27.4 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1600 | | 25.7 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1700 | | 25.6 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1300 | | 45.2 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1500 | | 27.4 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 135 | | 30 (18) - 130 (112) | 90% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 134 | | 30 (15) - 130 (107) | 89% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 85.0 | | 30 (18) - 130 (107) | 85% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 85.4 | | 30 (20) - 130 (109) | 85% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 125 | | 30 (10) - 130 (116) | 84% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 72.5 | | 30 (10) - 130 (105) | 73% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 68700 | 6.893 | | | |
| 1146-65-2 | Naphthalene-d8 | 260000 | 8.175 | | | |
| 15067-26-2 | Acenaphthene-d10 | 133000 | 9.934 | | | |
| 1517-22-2 | Phenanthrene-d10 | 196000 | 11.422 | | | |
| 1719-03-5 | Chrysene-d12 | 125000 | 14.069 | | | |
| 1520-96-3 | Perylene-d12 | 152000 | 15.563 | | | |

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168285BS | SDG No.: | Q2177 |
| Lab Sample ID: | PB168285BS | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142727.D | 1 | 06/04/25 11:45 | 06/11/25 11:21 | PB168285 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 32.2 | | 3.90 | 10.0 | ug/L |
| 108-95-2 | Phenol | 44.1 | | 0.91 | 5.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 44.2 | | 0.81 | 5.00 | ug/L |
| 95-57-8 | 2-Chlorophenol | 45.9 | | 0.58 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 45.4 | | 1.10 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 43.1 | | 1.30 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 44.3 | | 0.74 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 45.6 | | 1.10 | 10.0 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 43.7 | | 1.40 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 43.4 | | 0.65 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 44.6 | | 0.76 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 43.8 | | 0.75 | 5.00 | ug/L |
| 88-75-5 | 2-Nitrophenol | 46.1 | | 1.80 | 5.00 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 45.3 | | 1.90 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 44.3 | | 0.68 | 5.00 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 45.4 | | 0.52 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 43.8 | | 0.50 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 14.3 | | 0.84 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 43.1 | | 0.54 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 50.0 | | 1.10 | 10.0 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 44.9 | | 0.59 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 43.3 | | 0.56 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 90.6 | E | 3.60 | 10.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 46.7 | | 0.51 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 44.9 | | 0.62 | 5.00 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 44.3 | | 0.53 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 44.3 | | 0.61 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 45.3 | | 1.30 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 45.8 | | 0.61 | 5.00 | ug/L |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168285BS | SDG No.: | Q2177 |
| Lab Sample ID: | PB168285BS | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142727.D | 1 | 06/04/25 11:45 | 06/11/25 11:21 | PB168285 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 44.7 | | 0.75 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 46.3 | | 0.92 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 26.2 | | 1.10 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 50.3 | | 0.55 | 5.00 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 110 | E | 6.00 | 10.0 | ug/L |
| 100-02-7 | 4-Nitrophenol | 98.9 | E | 2.40 | 10.0 | ug/L |
| 132-64-9 | Dibenzofuran | 44.4 | | 0.61 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 48.0 | | 1.20 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 46.4 | | 0.69 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 44.1 | | 0.68 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 43.9 | | 0.63 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 47.5 | | 1.50 | 5.00 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 48.0 | | 2.90 | 10.0 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 44.4 | | 0.58 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 43.9 | | 0.40 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 44.1 | | 0.52 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 50.6 | | 1.00 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 93.6 | E | 1.60 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 44.5 | | 0.50 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 44.2 | | 0.61 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 45.7 | | 0.72 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 49.3 | | 1.20 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 45.7 | | 0.82 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 46.5 | | 0.50 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 50.4 | | 1.90 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 21.6 | | 0.93 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 45.7 | | 0.45 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 46.7 | | 0.44 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 46.3 | | 1.60 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 44.5 | | 2.30 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 48.8 | | 0.49 | 5.00 | ug/L |

Raw Data: **BF142727.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168285BS | SDG No.: | Q2177 |
| Lab Sample ID: | PB168285BS | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142727.D | 1 | 06/04/25 11:45 | 06/11/25 11:21 | PB168285 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 44.1 | | 0.48 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 46.7 | | 0.55 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 45.0 | | 0.59 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 45.1 | | 0.67 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 44.1 | | 0.69 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 44.7 | | 0.52 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 36.8 | | 1.00 | 5.00 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 46.1 | | 0.72 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 126 | | 15 (23) - 110 (138) | 84% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 127 | | 15 (10) - 110 (134) | 85% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 77.8 | | 30 (67) - 130 (132) | 78% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 76.2 | | 30 (52) - 130 (132) | 76% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 129 | | 15 (44) - 110 (137) | 86% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 81.8 | | 30 (42) - 130 (152) | 82% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 75600 | 6.892 | | | |
| 1146-65-2 | Naphthalene-d8 | 295000 | 8.175 | | | |
| 15067-26-2 | Acenaphthene-d10 | 163000 | 9.933 | | | |
| 1517-22-2 | Phenanthrene-d10 | 278000 | 11.427 | | | |
| 1719-03-5 | Chrysene-d12 | 148000 | 14.068 | | | |
| 1520-96-3 | Perylene-d12 | 157000 | 15.562 | | | |

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: **BF142728.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168285BSD | SDG No.: | Q2177 |
| Lab Sample ID: | PB168285BSD | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142728.D | 1 | 06/04/25 11:45 | 06/11/25 11:50 | PB168285 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 31.8 | | 3.90 | 10.0 | ug/L |
| 108-95-2 | Phenol | 44.2 | | 0.91 | 5.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 44.3 | | 0.81 | 5.00 | ug/L |
| 95-57-8 | 2-Chlorophenol | 45.8 | | 0.58 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 46.2 | | 1.10 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 42.8 | | 1.30 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 45.1 | | 0.74 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 46.1 | | 1.10 | 10.0 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 43.6 | | 1.40 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 43.1 | | 0.65 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 45.4 | | 0.76 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 44.8 | | 0.75 | 5.00 | ug/L |
| 88-75-5 | 2-Nitrophenol | 46.5 | | 1.80 | 5.00 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 46.3 | | 1.90 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 45.2 | | 0.68 | 5.00 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 47.1 | | 0.52 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 44.8 | | 0.50 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 14.4 | | 0.84 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 43.9 | | 0.54 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 49.9 | | 1.10 | 10.0 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 45.8 | | 0.59 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 44.9 | | 0.56 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 94.2 | E | 3.60 | 10.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 47.2 | | 0.51 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 45.9 | | 0.62 | 5.00 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 45.0 | | 0.53 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 45.3 | | 0.61 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 45.4 | | 1.30 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 46.6 | | 0.61 | 5.00 | ug/L |

Raw Data: **BF142728.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168285BSD | SDG No.: | Q2177 |
| Lab Sample ID: | PB168285BSD | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142728.D | 1 | 06/04/25 11:45 | 06/11/25 11:50 | PB168285 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 45.4 | | 0.75 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 46.1 | | 0.92 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 25.6 | | 1.10 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 49.9 | | 0.55 | 5.00 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 110 | E | 6.00 | 10.0 | ug/L |
| 100-02-7 | 4-Nitrophenol | 96.9 | E | 2.40 | 10.0 | ug/L |
| 132-64-9 | Dibenzofuran | 44.7 | | 0.61 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 47.6 | | 1.20 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 46.6 | | 0.69 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 45.1 | | 0.68 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 44.7 | | 0.63 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 46.6 | | 1.50 | 5.00 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 48.8 | | 2.90 | 10.0 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 45.1 | | 0.58 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 45.2 | | 0.40 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 44.6 | | 0.52 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 49.8 | | 1.00 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 92.4 | E | 1.60 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 44.9 | | 0.50 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 44.9 | | 0.61 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 46.0 | | 0.72 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 47.9 | | 1.20 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 44.9 | | 0.82 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 45.6 | | 0.50 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 50.3 | | 1.90 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 22.2 | | 0.93 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 47.6 | | 0.45 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 44.8 | | 0.44 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 48.5 | | 1.60 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 47.1 | | 2.30 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 46.5 | | 0.49 | 5.00 | ug/L |

Raw Data: **BF142728.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168285BSD | SDG No.: | Q2177 |
| Lab Sample ID: | PB168285BSD | Matrix: | Water |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142728.D | 1 | 06/04/25 11:45 | 06/11/25 11:50 | PB168285 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 47.3 | | 0.48 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 47.5 | | 0.55 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 46.3 | | 0.59 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 46.6 | | 0.67 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 45.6 | | 0.69 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 44.7 | | 0.52 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 36.5 | | 1.00 | 5.00 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 46.0 | | 0.72 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 125 | | 15 (23) - 110 (138) | 83% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 127 | | 15 (10) - 110 (134) | 84% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 79.4 | | 30 (67) - 130 (132) | 79% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 77.6 | | 30 (52) - 130 (132) | 78% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 129 | | 15 (44) - 110 (137) | 86% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 79.2 | | 30 (42) - 130 (152) | 79% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 80000 | 6.893 | | | |
| 1146-65-2 | Naphthalene-d8 | 305000 | 8.181 | | | |
| 15067-26-2 | Acenaphthene-d10 | 168000 | 9.939 | | | |
| 1517-22-2 | Phenanthrene-d10 | 282000 | 11.428 | | | |
| 1719-03-5 | Chrysene-d12 | 149000 | 14.069 | | | |
| 1520-96-3 | Perylene-d12 | 160000 | 15.563 | | | |

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: **BF142629.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/03/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/03/25 |
| Client Sample ID: | COMP-13MS | SDG No.: | Q2177 |
| Lab Sample ID: | Q2194-03MS | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 88.3 |
| Sample Wt/Vol: | 50.06 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142629.D | 1 | 06/04/25 12:45 | 06/05/25 12:38 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 800 | | 110 | 220 | ug/Kg |
| 108-95-2 | Phenol | 970 | | 15.0 | 120 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1000 | | 16.5 | 120 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1000 | | 16.6 | 120 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 950 | | 20.3 | 120 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 970 | | 25.5 | 120 | ug/Kg |
| 98-86-2 | Acetophenone | 980 | | 20.0 | 120 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 910 | | 27.9 | 220 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 900 | | 32.2 | 54.3 | ug/Kg |
| 67-72-1 | Hexachloroethane | 990 | | 11.9 | 120 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1000 | | 12.4 | 120 | ug/Kg |
| 78-59-1 | Isophorone | 960 | | 22.3 | 120 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1100 | | 39.5 | 120 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 980 | | 44.0 | 120 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1000 | | 20.9 | 120 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 980 | | 19.2 | 120 | ug/Kg |
| 91-20-3 | Naphthalene | 990 | | 15.4 | 120 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 570 | | 24.0 | 120 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1000 | | 17.2 | 120 | ug/Kg |
| 105-60-2 | Caprolactam | 990 | | 35.4 | 220 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 900 | | 19.5 | 120 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 960 | | 17.4 | 120 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 2000 | E | 78.7 | 220 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1000 | | 13.4 | 120 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1000 | | 19.7 | 120 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1100 | | 14.8 | 120 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1100 | | 15.3 | 120 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1000 | | 32.6 | 120 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 980 | | 18.4 | 120 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/03/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/03/25 |
| Client Sample ID: | COMP-13MS | SDG No.: | Q2177 |
| Lab Sample ID: | Q2194-03MS | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 88.3 |
| Sample Wt/Vol: | 50.06 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142629.D | 1 | 06/04/25 12:45 | 06/05/25 12:38 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1000 | | 19.6 | 120 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | | 22.8 | 120 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 680 | | 31.2 | 120 | ug/Kg |
| 83-32-9 | Acenaphthene | 1100 | | 14.5 | 120 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 2200 | E | 160 | 220 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 2000 | E | 72.6 | 220 | ug/Kg |
| 132-64-9 | Dibenzofuran | 990 | | 15.4 | 120 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1000 | | 34.0 | 120 | ug/Kg |
| 84-66-2 | Diethylphthalate | 940 | | 19.2 | 120 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 960 | | 18.1 | 120 | ug/Kg |
| 86-73-7 | Fluorene | 970 | | 17.2 | 120 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 990 | | 43.6 | 120 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1200 | | 69.9 | 220 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1100 | | 22.3 | 120 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1100 | | 18.9 | 120 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1100 | | 17.2 | 120 | ug/Kg |
| 1912-24-9 | Atrazine | 1100 | | 23.1 | 120 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 2000 | E | 34.8 | 220 | ug/Kg |
| 85-01-8 | Phenanthrene | 1000 | | 14.2 | 120 | ug/Kg |
| 120-12-7 | Anthracene | 1000 | | 22.6 | 120 | ug/Kg |
| 86-74-8 | Carbazole | 1000 | | 21.2 | 120 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1100 | | 32.5 | 120 | ug/Kg |
| 206-44-0 | Fluoranthene | 1100 | | 20.4 | 120 | ug/Kg |
| 129-00-0 | Pyrene | 770 | | 24.4 | 120 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1100 | | 48.5 | 120 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 790 | | 24.9 | 220 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1000 | | 15.6 | 120 | ug/Kg |
| 218-01-9 | Chrysene | 1000 | | 13.5 | 120 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1200 | | 40.2 | 120 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1100 | | 58.9 | 220 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | | 12.9 | 120 | ug/Kg |

Raw Data: **BF142629.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/03/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/03/25 |
| Client Sample ID: | COMP-13MS | SDG No.: | Q2177 |
| Lab Sample ID: | Q2194-03MS | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 88.3 |
| Sample Wt/Vol: | 50.06 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142629.D | 1 | 06/04/25 12:45 | 06/05/25 12:38 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 980 | | 15.2 | 120 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1000 | | 20.0 | 120 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 970 | | 19.7 | 120 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 980 | | 18.6 | 120 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 970 | | 17.4 | 120 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1100 | | 17.4 | 120 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 910 | | 30.7 | 120 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 970 | | 18.6 | 120 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 82.7 | | 30 (18) - 130 (112) | 55% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 81.8 | | 30 (15) - 130 (107) | 55% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 52.9 | | 30 (18) - 130 (107) | 53% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 51.7 | | 30 (20) - 130 (109) | 52% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 78.7 | | 30 (10) - 130 (116) | 52% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 36.8 | | 30 (10) - 130 (105) | 37% | SPK: 100 |

| **INTERNAL STANDARDS** | | | |
|---|---|---|---|
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 122000 | 6.898 |
| 1146-65-2 | Naphthalene-d8 | 452000 | 8.181 |
| 15067-26-2 | Acenaphthene-d10 | 217000 | 9.939 |
| 1517-22-2 | Phenanthrene-d10 | 322000 | 11.428 |
| 1719-03-5 | Chrysene-d12 | 235000 | 14.069 |
| 1520-96-3 | Perylene-d12 | 280000 | 15.563 |

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: **BF142630.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/03/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/03/25 |
| Client Sample ID: | COMP-13MSD | SDG No.: | Q2177 |
| Lab Sample ID: | Q2194-03MSD | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 88.3 |
| Sample Wt/Vol: | 50.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142630.D | 1 | 06/04/25 12:45 | 06/05/25 13:07 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 800 | | 110 | 220 | ug/Kg |
| 108-95-2 | Phenol | 970 | | 15.0 | 120 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 990 | | 16.5 | 120 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1000 | | 16.6 | 120 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 970 | | 20.3 | 120 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 980 | | 25.4 | 120 | ug/Kg |
| 98-86-2 | Acetophenone | 970 | | 20.0 | 120 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 920 | | 27.9 | 220 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 910 | | 32.2 | 54.3 | ug/Kg |
| 67-72-1 | Hexachloroethane | 990 | | 11.9 | 120 | ug/Kg |
| 98-95-3 | Nitrobenzene | 990 | | 12.4 | 120 | ug/Kg |
| 78-59-1 | Isophorone | 950 | | 22.3 | 120 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1100 | | 39.5 | 120 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 970 | | 44.0 | 120 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 980 | | 20.9 | 120 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 990 | | 19.2 | 120 | ug/Kg |
| 91-20-3 | Naphthalene | 980 | | 15.4 | 120 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 540 | | 24.0 | 120 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 970 | | 17.2 | 120 | ug/Kg |
| 105-60-2 | Caprolactam | 1000 | | 35.3 | 220 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 930 | | 19.5 | 120 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 950 | | 17.4 | 120 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 1900 | E | 78.7 | 220 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1000 | | 13.4 | 120 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 990 | | 19.7 | 120 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1000 | | 14.8 | 120 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1000 | | 15.3 | 120 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1000 | | 32.6 | 120 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 980 | | 18.4 | 120 | ug/Kg |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/03/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/03/25 |
| Client Sample ID: | COMP-13MSD | SDG No.: | Q2177 |
| Lab Sample ID: | Q2194-03MSD | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 88.3 |
| Sample Wt/Vol: | 50.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142630.D | 1 | 06/04/25 12:45 | 06/05/25 13:07 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 990 | | 19.6 | 120 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | | 22.8 | 120 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 670 | | 31.2 | 120 | ug/Kg |
| 83-32-9 | Acenaphthene | 1100 | | 14.5 | 120 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 2300 | E | 160 | 220 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 2100 | E | 72.6 | 220 | ug/Kg |
| 132-64-9 | Dibenzofuran | 970 | | 15.4 | 120 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1000 | | 34.0 | 120 | ug/Kg |
| 84-66-2 | Diethylphthalate | 960 | | 19.2 | 120 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 940 | | 18.1 | 120 | ug/Kg |
| 86-73-7 | Fluorene | 960 | | 17.2 | 120 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 1000 | | 43.6 | 120 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1200 | | 69.9 | 220 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1000 | | 22.3 | 120 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1000 | | 18.9 | 120 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1000 | | 17.2 | 120 | ug/Kg |
| 1912-24-9 | Atrazine | 1100 | | 23.1 | 120 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 2000 | E | 34.8 | 220 | ug/Kg |
| 85-01-8 | Phenanthrene | 990 | | 14.2 | 120 | ug/Kg |
| 120-12-7 | Anthracene | 990 | | 22.6 | 120 | ug/Kg |
| 86-74-8 | Carbazole | 1000 | | 21.2 | 120 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1100 | | 32.5 | 120 | ug/Kg |
| 206-44-0 | Fluoranthene | 1000 | | 20.4 | 120 | ug/Kg |
| 129-00-0 | Pyrene | 840 | | 24.4 | 120 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1200 | | 48.4 | 120 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 790 | | 24.9 | 220 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1000 | | 15.6 | 120 | ug/Kg |
| 218-01-9 | Chrysene | 1000 | | 13.5 | 120 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1300 | | 40.2 | 120 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1100 | | 58.9 | 220 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 980 | | 12.9 | 120 | ug/Kg |

Raw Data: **BF142630.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/03/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/03/25 |
| Client Sample ID: | COMP-13MSD | SDG No.: | Q2177 |
| Lab Sample ID: | Q2194-03MSD | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 88.3 |
| Sample Wt/Vol: | 50.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142630.D | 1 | 06/04/25 12:45 | 06/05/25 13:07 | PB168259 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1000 | | 15.2 | 120 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1000 | | 20.0 | 120 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 980 | | 19.7 | 120 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 980 | | 18.6 | 120 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 970 | | 17.4 | 120 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1000 | | 17.4 | 120 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 910 | | 30.7 | 120 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 990 | | 18.6 | 120 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 82.9 | | 30 (18) - 130 (112) | 55% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 82.3 | | 30 (15) - 130 (107) | 55% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 52.1 | | 30 (18) - 130 (107) | 52% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 50.1 | | 30 (20) - 130 (109) | 50% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 77.4 | | 30 (10) - 130 (116) | 52% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 39.9 | | 30 (10) - 130 (105) | 40% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 123000 | 6.898 | | | |
| 1146-65-2 | Naphthalene-d8 | 464000 | 8.181 | | | |
| 15067-26-2 | Acenaphthene-d10 | 232000 | 9.939 | | | |
| 1517-22-2 | Phenanthrene-d10 | 359000 | 11.427 | | | |
| 1719-03-5 | Chrysene-d12 | 229000 | 14.068 | | | |
| 1520-96-3 | Perylene-d12 | 274000 | 15.557 | | | |

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

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

# CALIBRATION SUMMARY

# Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue May 20 16:26:47 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142467.D 5 =BF142468.D 10 =BF142469.D 20 =BF142470.D 40 =BF142471.D 50 =BF142472.D 60 =BF142473.D 80 =BF1424
74.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.493 | 0.460 | 0.474 | 0.458 | 0.500 | 0.486 | 0.456 | 0.475 | 3.79 |
| 3) | | Pyridine | | 1.237 | 1.150 | 1.212 | 1.170 | 1.273 | 1.234 | 1.190 | 1.210 | 3.52 |
| 4) | | n-Nitrosodimet... | | 0.612 | 0.593 | 0.627 | 0.619 | 0.673 | 0.652 | 0.621 | 0.628 | 4.21 |
| 5) | S | 2-Fluorophenol | | 1.264 | 1.214 | 1.225 | 1.125 | 1.220 | 1.164 | 1.098 | 1.187 | 5.03 |
| 6) | | Aniline | | 2.044 | 1.889 | 1.963 | 1.844 | 1.993 | 1.910 | 1.808 | 1.921 | 4.35 |
| 7) | S | Phenol-d6 | | 1.530 | 1.449 | 1.459 | 1.367 | 1.467 | 1.403 | 1.328 | 1.429 | 4.77 |
| 8) | | 2-Chlorophenol | | 1.345 | 1.293 | 1.315 | 1.252 | 1.338 | 1.285 | 1.223 | 1.293 | 3.44 |
| 9) | | Benzaldehyde | | 1.035 | 0.975 | 0.969 | 0.817 | 0.872 | 0.758 | 0.591 | 0.859 | 17.81 |
| 10) | C | Phenol | | 1.716 | 1.621 | 1.646 | 1.530 | 1.657 | 1.597 | 1.487 | 1.608 | 4.85 |
| 11) | | bis(2-Chloroet... | | 1.202 | 1.155 | 1.168 | 1.108 | 1.209 | 1.156 | 1.105 | 1.157 | 3.52 |
| 12) | | 1,3-Dichlorobe... | | 1.562 | 1.470 | 1.473 | 1.389 | 1.482 | 1.407 | 1.317 | 1.443 | 5.48 |
| 13) | C | 1,4-Dichlorobe... | | 1.540 | 1.476 | 1.491 | 1.407 | 1.495 | 1.430 | 1.335 | 1.453 | 4.70 |
| 14) | | 1,2-Dichlorobe... | | 1.495 | 1.405 | 1.436 | 1.327 | 1.432 | 1.357 | 1.284 | 1.391 | 5.20 |
| 15) | | Benzyl Alcohol | | 1.059 | 1.024 | 1.058 | 1.021 | 1.131 | 1.073 | 1.026 | 1.056 | 3.69 |
| 16) | | 2,2'-oxybis(1-... | | 2.082 | 1.978 | 1.983 | 1.868 | 2.011 | 1.898 | 1.786 | 1.944 | 5.11 |
| 17) | | 2-Methylphenol | | 1.040 | 0.992 | 1.026 | 0.976 | 1.053 | 1.015 | 0.965 | 1.010 | 3.27 |
| 18) | | Hexachloroethane | | 0.533 | 0.503 | 0.523 | 0.489 | 0.529 | 0.497 | 0.477 | 0.507 | 4.23 |
| 19) | P | n-Nitroso-di-n... | 0.923 | 0.941 | 0.880 | 0.900 | 0.843 | 0.912 | 0.866 | 0.819 | 0.886 | 4.69 |
| 20) | | 3+4-Methylphenols | | 1.412 | 1.319 | 1.337 | 1.246 | 1.337 | 1.250 | 1.149 | 1.293 | 6.59 |
| 21) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | |
| 22) | | Acetophenone | | 0.480 | 0.453 | 0.459 | 0.429 | 0.452 | 0.428 | 0.399 | 0.443 | 5.98 |
| 23) | S | Nitrobenzene-d5 | | 0.376 | 0.365 | 0.379 | 0.356 | 0.382 | 0.363 | 0.347 | 0.367 | 3.51 |
| 24) | | Nitrobenzene | | 0.338 | 0.328 | 0.338 | 0.323 | 0.343 | 0.331 | 0.316 | 0.331 | 2.94 |
| 25) | | Isophorone | | 0.636 | 0.615 | 0.620 | 0.593 | 0.638 | 0.607 | 0.585 | 0.613 | 3.26 |
| 26) | C | 2-Nitrophenol | | 0.167 | 0.170 | 0.180 | 0.175 | 0.190 | 0.182 | 0.173 | 0.177 | 4.44 |
| 27) | | 2,4-Dimethylph... | | 0.315 | 0.315 | 0.318 | 0.303 | 0.325 | 0.312 | 0.295 | 0.312 | 3.22 |
| 28) | | bis(2-Chloroet... | | 0.406 | 0.394 | 0.394 | 0.364 | 0.391 | 0.375 | 0.358 | 0.383 | 4.63 |
| 29) | C | 2,4-Dichloroph... | | 0.288 | 0.282 | 0.290 | 0.276 | 0.300 | 0.283 | 0.266 | 0.283 | 3.74 |
| 30) | | 1,2,4-Trichlor... | | 0.325 | 0.313 | 0.317 | 0.295 | 0.320 | 0.300 | 0.284 | 0.308 | 4.89 |
| 31) | | Naphthalene | | 1.061 | 1.021 | 1.020 | 0.941 | 1.007 | 0.953 | 0.891 | 0.985 | 5.94 |
| 32) | | Benzoic acid | | | 0.153 | 0.176 | 0.188 | 0.211 | 0.209 | 0.201 | 0.190 | 11.73 |
| 33) | | 4-Chloroaniline | | 0.424 | 0.409 | 0.416 | 0.389 | 0.415 | 0.397 | 0.343 | 0.399 | 6.87 |
| 34) | C | Hexachlorobuta... | | 0.203 | 0.192 | 0.197 | 0.187 | 0.198 | 0.192 | 0.176 | 0.192 | 4.52 |
| 35) | | Caprolactam | | 0.081 | 0.076 | 0.083 | 0.079 | 0.085 | 0.078 | 0.076 | 0.080 | 4.29 |
| 36) | C | 4-Chloro-3-met... | | 0.304 | 0.290 | 0.299 | 0.282 | 0.301 | 0.287 | 0.271 | 0.291 | 4.02 |
| 37) | | 2-Methylnaphth... | | 0.679 | 0.638 | 0.646 | 0.590 | 0.631 | 0.598 | 0.556 | 0.620 | 6.62 |
| 38) | | 1-Methylnaphth... | | 0.703 | 0.668 | 0.672 | 0.615 | 0.650 | 0.611 | 0.566 | 0.641 | 7.19 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF052025.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.592 | 0.580 | 0.588 | 0.552 | 0.592 | 0.573 | 0.544 | 0.574 | 3.39 |
| 41) | P | Hexachlorocycl... | 0.318 | 0.350 | 0.383 | 0.393 | 0.430 | 0.425 | 0.411 | 0.387 | 10.57 |
| 42) | S | 2,4,6-Tribromo... | 0.230 | 0.225 | 0.234 | 0.211 | 0.233 | 0.218 | 0.202 | 0.222 | 5.39 |
| 43) | C | 2,4,6-Trichlor... | 0.387 | 0.373 | 0.406 | 0.371 | 0.406 | 0.388 | 0.379 | 0.387 | 3.69 |
| 44) | | 2,4,5-Trichlor... | 0.410 | 0.411 | 0.416 | 0.395 | 0.437 | 0.408 | 0.381 | 0.408 | 4.27 |
| 45) | S | 2-Fluorobiphenyl | 1.726 | 1.619 | 1.558 | 1.387 | 1.480 | 1.396 | 1.268 | 1.490 | 10.46 |
| 46) | | 1,1'-Biphenyl | 1.672 | 1.605 | 1.595 | 1.480 | 1.595 | 1.507 | 1.408 | 1.552 | 5.82 |
| 47) | | 2-Chloronaphth... | 1.218 | 1.170 | 1.177 | 1.094 | 1.183 | 1.122 | 1.061 | 1.146 | 4.84 |
| 48) | | 2-Nitroaniline | 0.333 | 0.318 | 0.338 | 0.324 | 0.354 | 0.332 | 0.320 | 0.331 | 3.72 |
| 49) | | Acenaphthylene | 2.064 | 1.982 | 2.027 | 1.851 | 1.998 | 1.885 | 1.745 | 1.936 | 5.85 |
| 50) | | Dimethylphthalate | 1.441 | 1.340 | 1.367 | 1.255 | 1.366 | 1.256 | 1.211 | 1.320 | 6.16 |
| 51) | | 2,6-Dinitrotol... | 0.290 | 0.283 | 0.289 | 0.280 | 0.302 | 0.281 | 0.268 | 0.285 | 3.74 |
| 52) | C | Acenaphthene | 1.259 | 1.222 | 1.227 | 1.120 | 1.223 | 1.146 | 1.077 | 1.182 | 5.72 |
| 53) | | 3-Nitroaniline | 0.320 | 0.309 | 0.327 | 0.299 | 0.330 | 0.305 | 0.287 | 0.311 | 5.02 |
| 54) | P | 2,4-Dinitrophenol | | 0.110 | 0.137 | 0.149 | 0.169 | 0.160 | 0.158 | 0.147 | 14.36 |
| 55) | | Dibenzofuran | 1.886 | 1.766 | 1.768 | 1.606 | 1.736 | 1.635 | 1.509 | 1.701 | 7.38 |
| 56) | P | 4-Nitrophenol | 0.221 | 0.217 | 0.242 | 0.227 | 0.252 | 0.229 | 0.220 | 0.230 | 5.57 |
| 57) | | 2,4-Dinitrotol... | 0.372 | 0.367 | 0.387 | 0.364 | 0.398 | 0.372 | 0.344 | 0.372 | 4.62 |
| 58) | | Fluorene | 1.477 | 1.399 | 1.372 | 1.231 | 1.343 | 1.238 | 1.140 | 1.314 | 8.85 |
| 59) | | 2,3,4,6-Tetrac... | 0.347 | 0.336 | 0.360 | 0.333 | 0.361 | 0.333 | 0.317 | 0.341 | 4.71 |
| 60) | | Diethylphthalate | 1.422 | 1.310 | 1.359 | 1.231 | 1.343 | 1.218 | 1.140 | 1.289 | 7.51 |
| 61) | | 4-Chlorophenyl... | 0.724 | 0.678 | 0.676 | 0.609 | 0.653 | 0.612 | 0.566 | 0.646 | 8.25 |
| 62) | | 4-Nitroaniline | 0.303 | 0.283 | 0.303 | 0.277 | 0.294 | 0.265 | 0.251 | 0.282 | 6.95 |
| 63) | | Azobenzene | 1.239 | 1.194 | 1.188 | 1.107 | 1.197 | 1.123 | 1.055 | 1.158 | 5.55 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | 0.086 | 0.094 | 0.110 | 0.115 | 0.129 | 0.125 | 0.123 | 0.112 | 14.72 |
| 66) | c | n-Nitrosodiphe... | 0.712 | 0.682 | 0.696 | 0.649 | 0.697 | 0.694 | 0.660 | 0.684 | 3.30 |
| 67) | | 4-Bromophenyl-... | 0.240 | 0.235 | 0.239 | 0.222 | 0.246 | 0.243 | 0.230 | 0.236 | 3.45 |
| 68) | | Hexachlorobenzene | 0.265 | 0.267 | 0.263 | 0.251 | 0.273 | 0.262 | 0.250 | 0.262 | 3.19 |
| 69) | | Atrazine | 0.184 | 0.174 | 0.186 | 0.178 | 0.196 | 0.181 | 0.174 | 0.182 | 4.29 |
| 70) | C | Pentachlorophenol | 0.130 | 0.135 | 0.149 | 0.147 | 0.162 | 0.157 | 0.154 | 0.148 | 7.88 |
| 71) | | Phenanthrene | 1.196 | 1.094 | 1.100 | 1.012 | 1.085 | 1.033 | 0.964 | 1.069 | 7.00 |
| 72) | | Anthracene | 1.191 | 1.132 | 1.124 | 1.036 | 1.110 | 1.048 | 0.996 | 1.091 | 6.15 |
| 73) | | Carbazole | 1.030 | 0.968 | 0.982 | 0.889 | 0.950 | 0.877 | 0.832 | 0.933 | 7.39 |
| 74) | | Di-n-butylphth... | 1.108 | 1.039 | 1.083 | 0.976 | 1.059 | 0.974 | 0.908 | 1.021 | 6.95 |
| 75) | C | Fluoranthene | 1.177 | 1.081 | 1.052 | 0.938 | 0.997 | 0.901 | 0.846 | 0.999 | 11.41 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.670 | 0.782 | 0.903 | 0.797 | 0.805 | 0.698 | 0.556 | 0.744 | 15.12 |
| 78) | | Pyrene | 1.929 | 1.967 | 2.066 | 1.859 | 1.959 | 1.773 | 1.507 | 1.866 | 9.79 |
| 79) | S | Terphenyl-d14 | 1.624 | 1.582 | 1.660 | 1.423 | 1.492 | 1.337 | 1.126 | 1.464 | 12.80 |
| 80) | | Butylbenzylpht... | 0.462 | 0.453 | 0.525 | 0.526 | 0.575 | 0.550 | 0.517 | 0.516 | 8.54 |
| 81) | | Benzo(a)anthra... | 1.424 | 1.287 | 1.403 | 1.278 | 1.391 | 1.327 | 1.238 | 1.336 | 5.36 |
| 82) | | 3,3'-Dichlorob... | 0.360 | 0.364 | 0.402 | 0.407 | 0.444 | 0.442 | 0.417 | 0.405 | 8.30 |
| 83) | | Chrysene | 1.222 | 1.204 | 1.193 | 1.145 | 1.255 | 1.223 | 1.158 | 1.200 | 3.20 |
| 84) | | Bis(2-ethylhex... | 0.510 | 0.548 | 0.618 | 0.673 | 0.765 | 0.778 | 0.727 | 0.660 | 15.91 |
| 85) | c | Di-n-octyl pht... | | 0.958 | 1.108 | 1.266 | 1.432 | 1.542 | 1.437 | 1.290 | 17.30 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF052025.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.421 | 1.495 | 1.583 | 1.448 | 1.583 | 1.546 | 1.434 | 1.501 | 4.64 |
| 88) | | Benzo(b)fluora... | 1.317 | 1.105 | 1.293 | 1.126 | 1.209 | 1.122 | 1.114 | 1.184 | 7.62 |
| 89) | | Benzo(k)fluora... | 1.191 | 1.166 | 1.032 | 1.042 | 1.178 | 1.128 | 1.023 | 1.109 | 6.68 |
| 90) | C | Benzo(a)pyrene | 1.154 | 1.081 | 1.114 | 1.081 | 1.185 | 1.133 | 1.062 | 1.116 | 4.00 |
| 91) | | Dibenzo(a,h)an... | 1.152 | 1.228 | 1.275 | 1.184 | 1.290 | 1.245 | 1.149 | 1.218 | 4.67 |
| 92) | | Benzo(g,h,i)pe... | 1.154 | 1.220 | 1.270 | 1.180 | 1.299 | 1.245 | 1.158 | 1.218 | 4.64 |

(#) = Out of Range

# Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jun 11 05:56:09 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142712.D 5.0 =BF142713.D 10 =BF142714.D 20 =BF142715.D 40 =BF142716.D 50 =BF142717.D 60 =BF142718.D 80 =BF1427
19.D

| | | Compound | 2.5 | 5.0 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ---------- | ISTD | ---------- | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.499 | 0.448 | 0.472 | 0.455 | 0.481 | 0.460 | 0.439 | 0.465 | 4.40 |
| 3) | | Pyridine | | 1.172 | 1.129 | 1.159 | 1.160 | 1.222 | 1.193 | 1.122 | 1.165 | 3.00 |
| 4) | | n-Nitrosodimet... | | | 0.558 | 0.590 | 0.591 | 0.633 | 0.617 | 0.588 | 0.596 | 4.36 |
| 5) | S | 2-Fluorophenol | | 1.238 | 1.170 | 1.199 | 1.161 | 1.220 | 1.156 | 1.075 | 1.174 | 4.55 |
| 6) | | Aniline | | 1.866 | 1.788 | 1.894 | 1.848 | 1.955 | 1.861 | 1.736 | 1.850 | 3.83 |
| 7) | S | Phenol-d6 | | 1.434 | 1.339 | 1.400 | 1.376 | 1.446 | 1.377 | 1.302 | 1.382 | 3.67 |
| 8) | | 2-Chlorophenol | | 1.288 | 1.254 | 1.300 | 1.290 | 1.347 | 1.286 | 1.219 | 1.283 | 3.09 |
| 9) | | Benzaldehyde | | | 0.943 | 0.950 | 0.839 | 0.839 | 0.708 | | 0.856 | 11.52 |
| 10) | C | Phenol | | 1.550 | 1.503 | 1.577 | 1.522 | 1.607 | 1.547 | 1.446 | 1.536 | 3.42 |
| 11) | | bis(2-Chloroet... | | 1.222 | 1.118 | 1.149 | 1.130 | 1.202 | 1.131 | 1.079 | 1.147 | 4.29 |
| 12) | | 1,3-Dichlorobe... | | 1.557 | 1.483 | 1.504 | 1.451 | 1.513 | 1.411 | 1.333 | 1.465 | 5.08 |
| 13) | C | 1,4-Dichlorobe... | | 1.596 | 1.483 | 1.519 | 1.454 | 1.528 | 1.431 | 1.349 | 1.480 | 5.34 |
| 14) | | 1,2-Dichlorobe... | | 1.554 | 1.418 | 1.444 | 1.401 | 1.457 | 1.375 | 1.282 | 1.419 | 5.83 |
| 15) | | Benzyl Alcohol | | | 0.970 | 1.049 | 1.059 | 1.121 | 1.061 | 1.007 | 1.045 | 4.95 |
| 16) | | 2,2'-oxybis(1-... | | 1.957 | 1.812 | 1.840 | 1.806 | 1.875 | 1.746 | 1.609 | 1.806 | 6.03 |
| 17) | | 2-Methylphenol | | 0.978 | 0.950 | 0.995 | 0.992 | 1.043 | 0.995 | 0.933 | 0.984 | 3.61 |
| 18) | | Hexachloroethane | | 0.562 | 0.521 | 0.545 | 0.524 | 0.552 | 0.522 | 0.488 | 0.530 | 4.69 |
| 19) | P | n-Nitroso-di-n... | 0.885 | 0.912 | 0.870 | 0.886 | 0.878 | 0.921 | 0.863 | 0.823 | 0.880 | 3.43 |
| 20) | | 3+4-Methylphenols | | | 1.261 | 1.285 | 1.246 | 1.299 | 1.218 | 1.134 | 1.240 | 4.80 |
| 21) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | | | |
| 22) | | Acetophenone | | 0.475 | 0.451 | 0.458 | 0.435 | 0.454 | 0.433 | 0.408 | 0.445 | 4.79 |
| 23) | S | Nitrobenzene-d5 | | 0.381 | 0.363 | 0.369 | 0.358 | 0.378 | 0.363 | 0.346 | 0.365 | 3.24 |
| 24) | | Nitrobenzene | | 0.338 | 0.313 | 0.326 | 0.320 | 0.335 | 0.327 | 0.312 | 0.324 | 3.10 |
| 25) | | Isophorone | | 0.657 | 0.621 | 0.628 | 0.603 | 0.630 | 0.606 | 0.585 | 0.619 | 3.77 |
| 26) | C | 2-Nitrophenol | | 0.172 | 0.174 | 0.183 | 0.181 | 0.192 | 0.187 | 0.178 | 0.181 | 3.92 |
| 27) | | 2,4-Dimethylph... | | 0.318 | 0.303 | 0.311 | 0.304 | 0.321 | 0.308 | 0.292 | 0.308 | 3.14 |
| 28) | | bis(2-Chloroet... | | 0.408 | 0.381 | 0.392 | 0.377 | 0.397 | 0.378 | 0.356 | 0.384 | 4.31 |
| 29) | C | 2,4-Dichloroph... | | 0.284 | 0.281 | 0.292 | 0.280 | 0.300 | 0.285 | 0.269 | 0.284 | 3.51 |
| 30) | | 1,2,4-Trichlor... | | 0.337 | 0.313 | 0.322 | 0.306 | 0.322 | 0.307 | 0.294 | 0.314 | 4.42 |
| 31) | | Naphthalene | | 1.065 | 0.997 | 1.021 | 0.972 | 1.008 | 0.958 | 0.903 | 0.989 | 5.20 |
| 32) | | Benzoic acid | | | 0.137 | 0.162 | 0.174 | 0.192 | 0.190 | 0.186 | 0.174 | 12.16 |
| 33) | | 4-Chloroaniline | | 0.429 | 0.389 | 0.399 | 0.399 | 0.408 | 0.386 | 0.370 | 0.397 | 4.68 |
| 34) | C | Hexachlorobuta... | | 0.210 | 0.204 | 0.206 | 0.197 | 0.205 | 0.196 | 0.184 | 0.200 | 4.41 |
| 35) | | Caprolactam | | | 0.077 | 0.079 | 0.075 | 0.079 | 0.077 | 0.074 | 0.077 | 2.82 |
| 36) | C | 4-Chloro-3-met... | | 0.317 | 0.299 | 0.303 | 0.289 | 0.301 | 0.287 | 0.273 | 0.296 | 4.76 |
| 37) | | 2-Methylnaphth... | | 0.674 | 0.649 | 0.641 | 0.618 | 0.636 | 0.599 | 0.565 | 0.626 | 5.72 |
| 38) | | 1-Methylnaphth... | | 0.727 | 0.666 | 0.669 | 0.629 | 0.650 | 0.619 | 0.580 | 0.649 | 7.16 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061125.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.585 | 0.592 | 0.589 | 0.568 | 0.618 | 0.570 | 0.531 | 0.579 | 4.64 |
| 41) | P | Hexachlorocycl... | | 0.297 | 0.348 | 0.375 | 0.414 | 0.400 | 0.396 | 0.372 | 11.64 |
| 42) | S | 2,4,6-Tribromo... | 0.236 | 0.223 | 0.224 | 0.213 | 0.226 | 0.210 | 0.202 | 0.219 | 5.28 |
| 43) | C | 2,4,6-Trichlor... | 0.349 | 0.373 | 0.383 | 0.373 | 0.405 | 0.380 | 0.359 | 0.375 | 4.79 |
| 44) | | 2,4,5-Trichlor... | 0.404 | 0.404 | 0.413 | 0.400 | 0.431 | 0.399 | 0.383 | 0.405 | 3.61 |
| 45) | S | 2-Fluorobiphenyl | 1.690 | 1.610 | 1.569 | 1.444 | 1.535 | 1.402 | 1.289 | 1.505 | 9.04 |
| 46) | | 1,1'-Biphenyl | 1.630 | 1.617 | 1.587 | 1.506 | 1.622 | 1.500 | 1.409 | 1.553 | 5.39 |
| 47) | | 2-Chloronaphth... | 1.190 | 1.172 | 1.178 | 1.117 | 1.197 | 1.108 | 1.047 | 1.144 | 4.82 |
| 48) | | 2-Nitroaniline | 0.320 | 0.321 | 0.333 | 0.323 | 0.345 | 0.325 | 0.311 | 0.325 | 3.38 |
| 49) | | Acenaphthylene | 2.053 | 1.986 | 2.003 | 1.881 | 1.991 | 1.847 | 1.744 | 1.929 | 5.65 |
| 50) | | Dimethylphthalate | 1.444 | 1.368 | 1.359 | 1.291 | 1.379 | 1.273 | 1.234 | 1.336 | 5.42 |
| 51) | | 2,6-Dinitrotol... | 0.307 | 0.283 | 0.295 | 0.285 | 0.299 | 0.283 | 0.268 | 0.289 | 4.49 |
| 52) | C | Acenaphthene | 1.266 | 1.222 | 1.224 | 1.170 | 1.237 | 1.155 | 1.099 | 1.196 | 4.80 |
| 53) | | 3-Nitroaniline | 0.334 | 0.313 | 0.316 | 0.307 | 0.322 | 0.304 | 0.295 | 0.313 | 4.08 |
| 54) | P | 2,4-Dinitrophenol | | 0.123 | 0.154 | 0.157 | 0.176 | 0.170 | 0.169 | 0.158 | 12.18 |
| 55) | | Dibenzofuran | 1.855 | 1.777 | 1.783 | 1.643 | 1.741 | 1.607 | 1.517 | 1.703 | 6.93 |
| 56) | P | 4-Nitrophenol | | 0.203 | 0.219 | 0.210 | 0.222 | 0.212 | 0.208 | 0.212 | 3.42 |
| 57) | | 2,4-Dinitrotol... | 0.396 | 0.383 | 0.399 | 0.377 | 0.396 | 0.372 | 0.348 | 0.382 | 4.73 |
| 58) | | Fluorene | 1.547 | 1.429 | 1.397 | 1.279 | 1.357 | 1.240 | 1.167 | 1.345 | 9.49 |
| 59) | | 2,3,4,6-Tetrac... | 0.364 | 0.339 | 0.357 | 0.327 | 0.354 | 0.332 | 0.311 | 0.340 | 5.58 |
| 60) | | Diethylphthalate | 1.508 | 1.392 | 1.372 | 1.256 | 1.332 | 1.246 | 1.164 | 1.324 | 8.55 |
| 61) | | 4-Chlorophenyl... | 0.748 | 0.692 | 0.680 | 0.633 | 0.663 | 0.610 | 0.571 | 0.657 | 8.84 |
| 62) | | 4-Nitroaniline | 0.297 | 0.281 | 0.294 | 0.270 | 0.283 | 0.275 | 0.261 | 0.280 | 4.58 |
| 63) | | Azobenzene | 1.290 | 1.186 | 1.178 | 1.115 | 1.187 | 1.094 | 1.045 | 1.157 | 6.89 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.104 | 0.123 | 0.125 | 0.137 | 0.133 | 0.129 | 0.125 | 9.17 |
| 66) | c | n-Nitrosodiphe... | 0.710 | 0.679 | 0.693 | 0.672 | 0.722 | 0.685 | 0.651 | 0.687 | 3.45 |
| 67) | | 4-Bromophenyl-... | 0.240 | 0.229 | 0.238 | 0.231 | 0.252 | 0.236 | 0.227 | 0.236 | 3.52 |
| 68) | | Hexachlorobenzene | 0.270 | 0.261 | 0.263 | 0.255 | 0.275 | 0.260 | 0.251 | 0.262 | 3.17 |
| 69) | | Atrazine | 0.185 | 0.174 | 0.188 | 0.179 | 0.191 | 0.188 | 0.178 | 0.183 | 3.33 |
| 70) | C | Pentachlorophenol | | 0.118 | 0.133 | 0.139 | 0.148 | 0.144 | 0.142 | 0.137 | 7.80 |
| 71) | | Phenanthrene | 1.165 | 1.100 | 1.094 | 1.036 | 1.091 | 1.035 | 0.978 | 1.071 | 5.61 |
| 72) | | Anthracene | 1.203 | 1.145 | 1.140 | 1.064 | 1.132 | 1.072 | 1.004 | 1.108 | 5.96 |
| 73) | | Carbazole | 1.003 | 0.960 | 0.968 | 0.898 | 0.931 | 0.903 | 0.832 | 0.928 | 6.07 |
| 74) | | Di-n-butylphth... | 1.105 | 1.048 | 1.072 | 1.005 | 1.053 | 1.017 | 0.953 | 1.036 | 4.76 |
| 75) | C | Fluoranthene | 1.184 | 1.083 | 1.081 | 0.965 | 0.988 | 0.953 | 0.878 | 1.019 | 10.08 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | |
| 77) | | Benzidine | | 0.711 | 0.772 | 0.799 | 0.754 | 0.684 | 0.553 | 0.712 | 12.40 |
| 78) | | Pyrene | 2.014 | 1.918 | 1.928 | 1.883 | 1.878 | 1.753 | 1.635 | 1.859 | 6.75 |
| 79) | S | Terphenyl-d14 | 1.609 | 1.562 | 1.556 | 1.462 | 1.430 | 1.327 | 1.247 | 1.456 | 9.11 |
| 80) | | Butylbenzylpht... | 0.435 | 0.486 | 0.526 | 0.581 | 0.626 | 0.605 | 0.588 | 0.550 | 12.67 |
| 81) | | Benzo(a)anthra... | 1.367 | 1.273 | 1.284 | 1.350 | 1.400 | 1.340 | 1.263 | 1.325 | 3.94 |
| 82) | | 3,3'-Dichlorob... | | 0.370 | 0.403 | 0.442 | 0.473 | 0.459 | 0.418 | 0.427 | 8.88 |
| 83) | | Chrysene | 1.298 | 1.208 | 1.245 | 1.172 | 1.250 | 1.222 | 1.170 | 1.224 | 3.72 |
| 84) | | Bis(2-ethylhex... | 0.616 | 0.709 | 0.756 | 0.895 | 0.977 | 0.926 | 0.896 | 0.825 | 16.02 |
| 85) | c | Di-n-octyl pht... | | 1.284 | 1.385 | 1.677 | 1.816 | 1.680 | 1.654 | 1.582 | 12.84 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061125.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.438 | 1.406 | 1.458 | 1.498 | 1.602 | 1.514 | 1.460 | 1.482 | 4.31 |
| 88) | | Benzo(b)fluora... | 1.256 | 1.094 | 1.112 | 1.162 | 1.230 | 1.251 | 1.139 | 1.178 | 5.71 |
| 89) | | Benzo(k)fluora... | 1.236 | 1.178 | 1.245 | 1.076 | 1.189 | 1.035 | 1.039 | 1.143 | 7.94 |
| 90) | C | Benzo(a)pyrene | 1.164 | 1.085 | 1.122 | 1.104 | 1.184 | 1.111 | 1.068 | 1.120 | 3.70 |
| 91) | | Dibenzo(a,h)an... | 1.134 | 1.176 | 1.214 | 1.236 | 1.318 | 1.222 | 1.172 | 1.210 | 4.87 |
| 92) | | Benzo(g,h,i)pe... | 1.201 | 1.164 | 1.178 | 1.216 | 1.295 | 1.207 | 1.163 | 1.203 | 3.77 |

(#) = Out of Range

# Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP060625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 06 16:20:27 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP024860.D 5 =BP024861.D 10 =BP024862.D 20 =BP024863.D 40 =BP024864.D 50 =BP024865.D 60 =BP024866.D 80 =BP0248
67.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ---------- | ISTD | ---------- | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.564 | 0.529 | 0.524 | 0.495 | 0.546 | 0.515 | 0.517 | 0.527 | 4.21 |
| 3) | | Pyridine | | 1.151 | 1.183 | 1.265 | 1.226 | 1.370 | 1.367 | 1.315 | 1.268 | 6.84 |
| 4) | | n-Nitrosodimet... | | | 0.478 | 0.509 | 0.502 | 0.542 | 0.554 | 0.525 | 0.518 | 5.36 |
| 5) | S | 2-Fluorophenol | | 1.127 | 1.139 | 1.207 | 1.163 | 1.283 | 1.253 | 1.215 | 1.198 | 4.85 |
| 6) | | Aniline | | 1.917 | 1.892 | 2.016 | 1.978 | 2.145 | 2.182 | 2.031 | 2.023 | 5.37 |
| 7) | S | Phenol-d6 | | 1.507 | 1.528 | 1.588 | 1.545 | 1.676 | 1.689 | 1.564 | 1.585 | 4.49 |
| 8) | | 2-Chlorophenol | | 1.336 | 1.290 | 1.346 | 1.314 | 1.453 | 1.422 | 1.348 | 1.358 | 4.29 |
| 9) | | Benzaldehyde | | | 1.038 | 1.071 | 0.873 | 0.985 | 0.869 | 0.646 | 0.914 | 16.98 |
| 10) | C | Phenol | | 1.560 | 1.564 | 1.616 | 1.587 | 1.725 | 1.759 | 1.629 | 1.634 | 4.78 |
| 11) | | bis(2-Chloroet... | | 1.222 | 1.277 | 1.334 | 1.234 | 1.363 | 1.322 | 1.246 | 1.285 | 4.26 |
| 12) | | 1,3-Dichlorobe... | | 1.570 | 1.515 | 1.537 | 1.425 | 1.571 | 1.519 | 1.471 | 1.515 | 3.49 |
| 13) | C | 1,4-Dichlorobe... | | 1.596 | 1.507 | 1.535 | 1.439 | 1.604 | 1.534 | 1.488 | 1.529 | 3.82 |
| 14) | | 1,2-Dichlorobe... | | 1.529 | 1.637 | 1.488 | 1.401 | 1.540 | 1.492 | 1.422 | 1.501 | 5.25 |
| 15) | | Benzyl Alcohol | | | 1.137 | 1.185 | 1.170 | 1.289 | 1.309 | 1.211 | 1.217 | 5.63 |
| 16) | | 2,2'-oxybis(1-... | | 1.748 | 1.732 | 1.722 | 1.583 | 1.751 | 1.667 | 1.574 | 1.682 | 4.54 |
| 17) | | 2-Methylphenol | | 1.053 | 1.149 | 1.138 | 1.106 | 1.210 | 1.211 | 1.121 | 1.141 | 4.94 |
| 18) | | Hexachloroethane | | 0.591 | 0.565 | 0.581 | 0.545 | 0.611 | 0.574 | 0.562 | 0.576 | 3.73 |
| 19) | P | n-Nitroso-di-n... | 0.984 | 1.101 | 1.105 | 1.107 | 1.043 | 1.141 | 1.113 | 1.029 | 1.078 | 4.93 |
| 20) | | 3+4-Methylphenols | | | 1.507 | 1.548 | 1.493 | 1.631 | 1.648 | 1.515 | 1.557 | 4.29 |
| 21) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | | | |
| 22) | | Acetophenone | | 0.506 | 0.521 | 0.511 | 0.491 | 0.535 | 0.510 | 0.463 | 0.505 | 4.58 |
| 23) | S | Nitrobenzene-d5 | | 0.407 | 0.397 | 0.423 | 0.404 | 0.444 | 0.423 | 0.383 | 0.412 | 4.89 |
| 24) | | Nitrobenzene | | 0.366 | 0.351 | 0.375 | 0.360 | 0.392 | 0.376 | 0.339 | 0.366 | 4.81 |
| 25) | | Isophorone | | 0.704 | 0.678 | 0.724 | 0.694 | 0.764 | 0.726 | 0.704 | 0.713 | 3.91 |
| 26) | C | 2-Nitrophenol | | 0.154 | 0.157 | 0.178 | 0.180 | 0.201 | 0.195 | 0.198 | 0.180 | 10.62 |
| 27) | | 2,4-Dimethylph... | | 0.294 | 0.286 | 0.310 | 0.303 | 0.331 | 0.320 | 0.318 | 0.309 | 5.12 |
| 28) | | bis(2-Chloroet... | | 0.414 | 0.408 | 0.438 | 0.414 | 0.465 | 0.423 | 0.416 | 0.426 | 4.70 |
| 29) | C | 2,4-Dichloroph... | | 0.246 | 0.272 | 0.300 | 0.292 | 0.327 | 0.313 | 0.323 | 0.296 | 9.81 |
| 30) | | 1,2,4-Trichlor... | | 0.335 | 0.319 | 0.335 | 0.317 | 0.352 | 0.330 | 0.351 | 0.334 | 4.16 |
| 31) | | Naphthalene | | 1.071 | 1.022 | 1.044 | 0.989 | 1.079 | 1.035 | 0.935 | 1.025 | 4.86 |
| 32) | | Benzoic acid | | | 0.159 | 0.181 | 0.204 | 0.230 | 0.235 | 0.243 | 0.209 | 16.01 |
| 33) | | 4-Chloroaniline | | 0.397 | 0.401 | 0.435 | 0.426 | 0.471 | 0.463 | 0.414 | 0.429 | 6.72 |
| 34) | C | Hexachlorobuta... | | 0.203 | 0.199 | 0.208 | 0.194 | 0.218 | 0.198 | 0.189 | 0.201 | 4.76 |
| 35) | | Caprolactam | | | 0.098 | 0.109 | 0.110 | 0.118 | 0.116 | 0.104 | 0.109 | 6.91 |
| 36) | C | 4-Chloro-3-met... | | 0.312 | 0.322 | 0.351 | 0.341 | 0.374 | 0.363 | 0.329 | 0.342 | 6.58 |
| 37) | | 2-Methylnaphth... | | 0.659 | 0.638 | 0.659 | 0.633 | 0.696 | 0.664 | 0.602 | 0.650 | 4.54 |
| 38) | | 1-Methylnaphth... | | 0.720 | 0.680 | 0.718 | 0.671 | 0.741 | 0.693 | 0.643 | 0.695 | 4.86 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP060625.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.568 | 0.561 | 0.568 | 0.538 | 0.601 | 0.574 | 0.562 | 0.568 | 3.31 |
| 41) | P | Hexachlorocycl... | | 0.259 | 0.315 | 0.337 | 0.404 | 0.369 | 0.394 | 0.346 | 15.74 |
| 42) | S | 2,4,6-Tribromo... | 0.256 | 0.264 | 0.279 | 0.267 | 0.298 | 0.286 | 0.285 | 0.277 | 5.26 |
| 43) | C | 2,4,6-Trichlor... | 0.342 | 0.352 | 0.386 | 0.375 | 0.411 | 0.404 | 0.396 | 0.381 | 6.86 |
| 44) | | 2,4,5-Trichlor... | 0.349 | 0.379 | 0.414 | 0.405 | 0.448 | 0.436 | 0.426 | 0.408 | 8.44 |
| 45) | S | 2-Fluorobiphenyl | 1.542 | 1.507 | 1.517 | 1.390 | 1.563 | 1.464 | 1.409 | 1.485 | 4.44 |
| 46) | | 1,1'-Biphenyl | 1.477 | 1.456 | 1.485 | 1.386 | 1.509 | 1.458 | 1.403 | 1.453 | 3.05 |
| 47) | | 2-Chloronaphth... | 1.123 | 1.104 | 1.135 | 1.069 | 1.171 | 1.136 | 1.081 | 1.117 | 3.16 |
| 48) | | 2-Nitroaniline | 0.289 | 0.324 | 0.344 | 0.346 | 0.371 | 0.374 | 0.355 | 0.343 | 8.59 |
| 49) | | Acenaphthylene | 1.880 | 1.851 | 1.892 | 1.768 | 1.939 | 1.904 | 1.805 | 1.863 | 3.19 |
| 50) | | Dimethylphthalate | 1.515 | 1.450 | 1.501 | 1.400 | 1.550 | 1.473 | 1.438 | 1.475 | 3.45 |
| 51) | | 2,6-Dinitrotol... | 0.299 | 0.301 | 0.326 | 0.312 | 0.339 | 0.333 | 0.317 | 0.318 | 4.86 |
| 52) | C | Acenaphthene | 1.106 | 1.064 | 1.090 | 1.020 | 1.087 | 1.069 | 1.036 | 1.067 | 2.86 |
| 53) | | 3-Nitroaniline | 0.263 | 0.292 | 0.337 | 0.338 | 0.367 | 0.364 | 0.349 | 0.330 | 11.74 |
| 54) | P | 2,4-Dinitrophenol | | 0.117 | 0.155 | 0.179 | 0.203 | 0.208 | 0.205 | 0.178 | 20.23 |
| 55) | | Dibenzofuran | 1.815 | 1.721 | 1.756 | 1.627 | 1.757 | 1.702 | 1.615 | 1.713 | 4.22 |
| 56) | P | 4-Nitrophenol | | 0.142 | 0.213 | 0.248 | 0.276 | 0.281 | 0.275 | 0.239 | 22.62 |
| 57) | | 2,4-Dinitrotol... | 0.390 | 0.416 | 0.457 | 0.437 | 0.487 | 0.470 | 0.458 | 0.445 | 7.45 |
| 58) | | Fluorene | 1.437 | 1.394 | 1.420 | 1.304 | 1.434 | 1.370 | 1.329 | 1.384 | 3.77 |
| 59) | | 2,3,4,6-Tetrac... | 0.343 | 0.350 | 0.360 | 0.354 | 0.395 | 0.381 | 0.370 | 0.365 | 5.04 |
| 60) | | Diethylphthalate | 1.501 | 1.474 | 1.487 | 1.393 | 1.545 | 1.444 | 1.449 | 1.470 | 3.27 |
| 61) | | 4-Chlorophenyl... | 0.711 | 0.668 | 0.689 | 0.637 | 0.709 | 0.665 | 0.658 | 0.677 | 4.06 |
| 62) | | 4-Nitroaniline | 0.239 | 0.235 | 0.307 | 0.311 | 0.336 | 0.333 | 0.334 | 0.299 | 14.69 |
| 63) | | Azobenzene | 1.346 | 1.334 | 1.394 | 1.300 | 1.425 | 1.335 | 1.307 | 1.349 | 3.37 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.102 | 0.125 | 0.130 | 0.147 | 0.143 | 0.142 | 0.131 | 12.78 |
| 66) | c | n-Nitrosodiphe... | 0.627 | 0.608 | 0.633 | 0.597 | 0.659 | 0.622 | 0.594 | 0.620 | 3.68 |
| 67) | | 4-Bromophenyl-... | 0.224 | 0.215 | 0.226 | 0.213 | 0.246 | 0.229 | 0.226 | 0.226 | 4.83 |
| 68) | | Hexachlorobenzene | 0.278 | 0.268 | 0.272 | 0.260 | 0.290 | 0.275 | 0.272 | 0.274 | 3.31 |
| 69) | | Atrazine | 0.213 | 0.212 | 0.231 | 0.217 | 0.244 | 0.228 | 0.228 | 0.225 | 5.16 |
| 70) | C | Pentachlorophenol | | 0.105 | 0.131 | 0.139 | 0.162 | 0.153 | 0.159 | 0.142 | 15.21 |
| 71) | | Phenanthrene | 1.158 | 1.108 | 1.110 | 1.056 | 1.161 | 1.102 | 1.041 | 1.105 | 4.12 |
| 72) | | Anthracene | 1.129 | 1.093 | 1.137 | 1.072 | 1.188 | 1.133 | 1.083 | 1.119 | 3.58 |
| 73) | | Carbazole | 1.023 | 1.013 | 1.057 | 0.998 | 1.112 | 1.052 | 1.007 | 1.038 | 3.83 |
| 74) | | Di-n-butylphth... | 1.178 | 1.245 | 1.326 | 1.272 | 1.421 | 1.273 | 1.284 | 1.285 | 5.81 |
| 75) | C | Fluoranthene | 1.300 | 1.287 | 1.307 | 1.223 | 1.344 | 1.268 | 1.238 | 1.281 | 3.25 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | | 0.512 | 0.669 | 0.653 | 0.690 | 0.663 | 0.529 | 0.619 | 12.54 |
| 78) | | Pyrene | 1.307 | 1.195 | 1.261 | 1.184 | 1.322 | 1.272 | 1.206 | 1.249 | 4.41 |
| 79) | S | Terphenyl-d14 | 1.178 | 1.073 | 1.146 | 1.089 | 1.164 | 1.120 | 1.039 | 1.116 | 4.57 |
| 80) | | Butylbenzylpht... | 0.508 | 0.529 | 0.581 | 0.561 | 0.641 | 0.596 | 0.589 | 0.572 | 7.74 |
| 81) | | Benzo(a)anthra... | 1.312 | 1.234 | 1.288 | 1.219 | 1.347 | 1.310 | 1.243 | 1.279 | 3.73 |
| 82) | | 3,3'-Dichlorob... | | 0.468 | 0.513 | 0.493 | 0.542 | 0.531 | 0.501 | 0.508 | 5.29 |
| 83) | | Chrysene | 1.252 | 1.174 | 1.229 | 1.144 | 1.279 | 1.238 | 1.168 | 1.212 | 4.13 |
| 84) | | Bis(2-ethylhex... | 0.715 | 0.780 | 0.846 | 0.797 | 0.921 | 0.831 | 0.850 | 0.820 | 7.87 |
| 85) | c | Di-n-octyl pht... | | 1.320 | 1.438 | 1.384 | 1.587 | 1.470 | 1.473 | 1.445 | 6.25 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP060625.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.427 | 1.402 | 1.469 | 1.412 | 1.559 | 1.510 | 1.436 | 1.459 | 3.92 |
| 88) | | Benzo(b)fluora... | 1.103 | 1.104 | 1.133 | 1.127 | 1.232 | 1.180 | 1.133 | 1.145 | 4.06 |
| 89) | | Benzo(k)fluora... | 1.165 | 1.144 | 1.180 | 1.106 | 1.259 | 1.158 | 1.144 | 1.165 | 4.05 |
| 90) | C | Benzo(a)pyrene | 1.096 | 1.069 | 1.127 | 1.070 | 1.214 | 1.136 | 1.113 | 1.118 | 4.46 |
| 91) | | Dibenzo(a,h)an... | 1.151 | 1.143 | 1.202 | 1.143 | 1.279 | 1.224 | 1.172 | 1.188 | 4.25 |
| 92) | | Benzo(g,h,i)pe... | 1.172 | 1.127 | 1.183 | 1.136 | 1.261 | 1.214 | 1.157 | 1.179 | 3.95 |

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_F Calibration Date/Time: 06/05/2025 09:37

Lab File ID: BF142625.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.187 | 1.156 | | -2.6 | |
| Benzaldehyde | 0.859 | 0.797 | | -7.2 | |
| Phenol-d6 | 1.429 | 1.381 | | -3.4 | |
| Phenol | 1.608 | 1.568 | | -2.5 | 20.0 |
| bis(2-Chloroethyl)ether | 1.157 | 1.130 | | -2.3 | |
| 2-Chlorophenol | 1.293 | 1.266 | | -2.1 | |
| 2-Methylphenol | 1.010 | 0.977 | | -3.3 | |
| 2,2-oxybis(1-Chloropropane) | 1.944 | 1.876 | | -3.5 | |
| Acetophenone | 0.443 | 0.410 | | -7.4 | |
| 3+4-Methylphenols | 1.293 | 1.213 | | -6.2 | |
| n-Nitroso-di-n-propylamine | 0.886 | 0.819 | 0.050 | -7.6 | |
| Nitrobenzene-d5 | 0.367 | 0.346 | | -5.7 | |
| Hexachloroethane | 0.507 | 0.492 | | -3.0 | |
| Nitrobenzene | 0.331 | 0.312 | | -5.7 | |
| Isophorone | 0.613 | 0.566 | | -7.7 | |
| 2-Nitrophenol | 0.177 | 0.174 | | -1.7 | 20.0 |
| 2,4-Dimethylphenol | 0.312 | 0.301 | | -3.5 | |
| bis(2-Chloroethoxy)methane | 0.383 | 0.362 | | -5.5 | |
| 2,4-Dichlorophenol | 0.283 | 0.271 | | -4.2 | 20.0 |
| Naphthalene | 0.985 | 0.923 | | -6.3 | |
| 4-Chloroaniline | 0.399 | 0.383 | | -4.0 | |
| Hexachlorobutadiene | 0.192 | 0.176 | | -8.3 | 20.0 |
| Caprolactam | 0.080 | 0.076 | | -5.0 | |
| 4-Chloro-3-methylphenol | 0.291 | 0.267 | | -8.2 | 20.0 |
| 2-Methylnaphthalene | 0.620 | 0.579 | | -6.6 | |
| Hexachlorocyclopentadiene | 0.387 | 0.335 | 0.050 | -13.4 | |
| 2,4,6-Trichlorophenol | 0.387 | 0.374 | | -3.4 | 20.0 |
| 2-Fluorobiphenyl | 1.490 | 1.337 | | -10.3 | |
| 2,4,5-Trichlorophenol | 0.408 | 0.388 | | -4.9 | |
| 1,1-Biphenyl | 1.552 | 1.449 | | -6.6 | |
| 2-Chloronaphthalene | 1.146 | 1.076 | | -6.1 | |
| 2-Nitroaniline | 0.331 | 0.320 | | -3.3 | |
| Dimethylphthalate | 1.320 | 1.228 | | -7.0 | |
| Acenaphthylene | 1.936 | 1.816 | | -6.2 | |
| 2,6-Dinitrotoluene | 0.285 | 0.273 | | -4.2 | |
| 3-Nitroaniline | 0.311 | 0.300 | | -3.5 | |
| Acenaphthene | 1.182 | 1.097 | | -7.2 | 20.0 |
| 2,4-Dinitrophenol | 0.147 | 0.132 | 0.050 | -10.2 | |
| 4-Nitrophenol | 0.230 | 0.203 | 0.050 | -11.7 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_F Calibration Date/Time: 06/05/2025 09:37

Lab File ID: BF142625.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.701 | 1.577 | | -7.3 | |
| 2,4-Dinitrotoluene | 0.372 | 0.363 | | -2.4 | |
| Diethylphthalate | 1.289 | 1.178 | | -8.6 | |
| 4-Chlorophenyl-phenylether | 0.646 | 0.598 | | -7.4 | |
| Fluorene | 1.314 | 1.218 | | -7.3 | |
| 4-Nitroaniline | 0.282 | 0.267 | | -5.3 | |
| 4,6-Dinitro-2-methylphenol | 0.112 | 0.112 | | 0.0 | |
| n-Nitrosodiphenylamine | 0.684 | 0.646 | | -5.6 | 20.0 |
| 2,4,6-Tribromophenol | 0.222 | 0.204 | | -8.1 | |
| 4-Bromophenyl-phenylether | 0.236 | 0.225 | | -4.7 | |
| Hexachlorobenzene | 0.262 | 0.250 | | -4.6 | |
| Atrazine | 0.182 | 0.167 | | -8.2 | |
| Pentachlorophenol | 0.148 | 0.131 | | -11.5 | 20.0 |
| Phenanthrene | 1.069 | 0.989 | | -7.5 | |
| Anthracene | 1.091 | 1.031 | | -5.5 | |
| Carbazole | 0.933 | 0.860 | | -7.8 | |
| Di-n-butylphthalate | 1.021 | 0.896 | | -12.2 | |
| Fluoranthene | 0.999 | 0.904 | | -9.5 | 20.0 |
| Pyrene | 1.866 | 1.715 | | -8.1 | |
| Terphenyl-d14 | 1.464 | 1.276 | | -12.8 | |
| Butylbenzylphthalate | 0.516 | 0.506 | | -1.9 | |
| 3,3-Dichlorobenzidine | 0.405 | 0.454 | | 12.1 | |
| Benzo(a)anthracene | 1.336 | 1.249 | | -6.5 | |
| Chrysene | 1.200 | 1.151 | | -4.1 | |
| Bis(2-ethylhexyl)phthalate | 0.660 | 0.753 | | 14.1 | |
| Di-n-octyl phthalate | 1.290 | 1.450 | | 12.4 | 20.0 |
| Benzo(b)fluoranthene | 1.184 | 1.181 | | -0.3 | |
| Benzo(k)fluoranthene | 1.109 | 0.934 | | -15.8 | |
| Benzo(a)pyrene | 1.116 | 1.056 | | -5.4 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.501 | 1.303 | | -13.2 | |
| Dibenzo(a,h)anthracene | 1.218 | 1.058 | | -13.1 | |
| Benzo(g,h,i)perylene | 1.218 | 1.053 | | -13.5 | |
| 1,2,4,5-Tetrachlorobenzene | 0.574 | 0.549 | | -4.4 | |
| 1,4-Dioxane | 0.475 | 0.480 | | 1.1 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.341 | 0.322 | | -5.6 | |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_F Calibration Date/Time: 06/06/2025 11:36

Lab File ID: BF142640.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.187 | 1.121 | | -5.6 | |
| Benzaldehyde | 0.859 | 0.766 | | -10.8 | |
| Phenol-d6 | 1.429 | 1.356 | | -5.1 | |
| Phenol | 1.608 | 1.531 | | -4.8 | 20.0 |
| bis(2-Chloroethyl)ether | 1.157 | 1.138 | | -1.6 | |
| 2-Chlorophenol | 1.293 | 1.241 | | -4.0 | |
| 2-Methylphenol | 1.010 | 0.964 | | -4.6 | |
| 2,2-oxybis(1-Chloropropane) | 1.944 | 1.880 | | -3.3 | |
| Acetophenone | 0.443 | 0.410 | | -7.4 | |
| 3+4-Methylphenols | 1.293 | 1.177 | | -9.0 | |
| n-Nitroso-di-n-propylamine | 0.886 | 0.812 | 0.050 | -8.4 | |
| Nitrobenzene-d5 | 0.367 | 0.343 | | -6.5 | |
| Hexachloroethane | 0.507 | 0.489 | | -3.5 | |
| Nitrobenzene | 0.331 | 0.311 | | -6.0 | |
| Isophorone | 0.613 | 0.566 | | -7.7 | |
| 2-Nitrophenol | 0.177 | 0.174 | | -1.7 | 20.0 |
| 2,4-Dimethylphenol | 0.312 | 0.292 | | -6.4 | |
| bis(2-Chloroethoxy)methane | 0.383 | 0.361 | | -5.7 | |
| 2,4-Dichlorophenol | 0.283 | 0.273 | | -3.5 | 20.0 |
| Naphthalene | 0.985 | 0.926 | | -6.0 | |
| 4-Chloroaniline | 0.399 | 0.381 | | -4.5 | |
| Hexachlorobutadiene | 0.192 | 0.181 | | -5.7 | 20.0 |
| Caprolactam | 0.080 | 0.071 | | -11.3 | |
| 4-Chloro-3-methylphenol | 0.291 | 0.262 | | -10.0 | 20.0 |
| 2-Methylnaphthalene | 0.620 | 0.577 | | -6.9 | |
| Hexachlorocyclopentadiene | 0.387 | 0.355 | 0.050 | -8.3 | |
| 2,4,6-Trichlorophenol | 0.387 | 0.375 | | -3.1 | 20.0 |
| 2-Fluorobiphenyl | 1.490 | 1.353 | | -9.2 | |
| 2,4,5-Trichlorophenol | 0.408 | 0.381 | | -6.6 | |
| 1,1-Biphenyl | 1.552 | 1.469 | | -5.3 | |
| 2-Chloronaphthalene | 1.146 | 1.112 | | -3.0 | |
| 2-Nitroaniline | 0.331 | 0.307 | | -7.3 | |
| Dimethylphthalate | 1.320 | 1.176 | | -10.9 | |
| Acenaphthylene | 1.936 | 1.812 | | -6.4 | |
| 2,6-Dinitrotoluene | 0.285 | 0.258 | | -9.5 | |
| 3-Nitroaniline | 0.311 | 0.273 | | -12.2 | |
| Acenaphthene | 1.182 | 1.087 | | -8.0 | 20.0 |
| 2,4-Dinitrophenol | 0.147 | 0.127 | 0.050 | -13.6 | |
| 4-Nitrophenol | 0.230 | 0.182 | 0.050 | -20.9 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_F Calibration Date/Time: 06/06/2025 11:36

Lab File ID: BF142640.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.701 | 1.563 | | -8.1 | |
| 2,4-Dinitrotoluene | 0.372 | 0.330 | | -11.3 | |
| Diethylphthalate | 1.289 | 1.095 | | -15.1 | |
| 4-Chlorophenyl-phenylether | 0.646 | 0.584 | | -9.6 | |
| Fluorene | 1.314 | 1.186 | | -9.7 | |
| 4-Nitroaniline | 0.282 | 0.233 | | -17.4 | |
| 4,6-Dinitro-2-methylphenol | 0.112 | 0.113 | | 0.9 | |
| n-Nitrosodiphenylamine | 0.684 | 0.680 | | -0.6 | 20.0 |
| 2,4,6-Tribromophenol | 0.222 | 0.192 | | -13.5 | |
| 4-Bromophenyl-phenylether | 0.236 | 0.239 | | 1.3 | |
| Hexachlorobenzene | 0.262 | 0.263 | | 0.4 | |
| Atrazine | 0.182 | 0.168 | | -7.7 | |
| Pentachlorophenol | 0.148 | 0.135 | | -8.8 | 20.0 |
| Phenanthrene | 1.069 | 1.013 | | -5.2 | |
| Anthracene | 1.091 | 1.048 | | -3.9 | |
| Carbazole | 0.933 | 0.847 | | -9.2 | |
| Di-n-butylphthalate | 1.021 | 0.903 | | -11.6 | |
| Fluoranthene | 0.999 | 0.880 | | -11.9 | 20.0 |
| Pyrene | 1.866 | 1.563 | | -16.2 | |
| Terphenyl-d14 | 1.464 | 1.196 | | -18.3 | |
| Butylbenzylphthalate | 0.516 | 0.527 | | 2.1 | |
| 3,3-Dichlorobenzidine | 0.405 | 0.465 | | 14.8 | |
| Benzo(a)anthracene | 1.336 | 1.219 | | -8.8 | |
| Chrysene | 1.200 | 1.183 | | -1.4 | |
| Bis(2-ethylhexyl)phthalate | 0.660 | 0.831 | | 25.9 | |
| Di-n-octyl phthalate | 1.290 | 1.594 | | 23.6 | 20.0 |
| Benzo(b)fluoranthene | 1.184 | 1.106 | | -6.6 | |
| Benzo(k)fluoranthene | 1.109 | 0.999 | | -9.9 | |
| Benzo(a)pyrene | 1.116 | 1.052 | | -5.7 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.501 | 1.380 | | -8.1 | |
| Dibenzo(a,h)anthracene | 1.218 | 1.119 | | -8.1 | |
| Benzo(g,h,i)perylene | 1.218 | 1.111 | | -8.8 | |
| 1,2,4,5-Tetrachlorobenzene | 0.574 | 0.558 | | -2.8 | |
| 1,4-Dioxane | 0.475 | 0.477 | | 0.4 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.341 | 0.306 | | -10.3 | |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_F Calibration Date/Time: 06/11/2025 09:24

Lab File ID: BF142723.D Init. Calib. Date(s): 06/10/2025 06/10/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 16:54 20:19

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.174 | 1.141 | | -2.8 | |
| Benzaldehyde | 0.856 | 0.818 | | -4.4 | |
| Phenol-d6 | 1.382 | 1.367 | | -1.1 | |
| Phenol | 1.536 | 1.528 | | -0.5 | 20.0 |
| bis(2-Chloroethyl)ether | 1.147 | 1.136 | | -1.0 | |
| 2-Chlorophenol | 1.283 | 1.259 | | -1.9 | |
| 2-Methylphenol | 0.984 | 0.985 | | 0.1 | |
| 2,2-oxybis(1-Chloropropane) | 1.806 | 1.799 | | -0.4 | |
| Acetophenone | 0.445 | 0.431 | | -3.1 | |
| 3+4-Methylphenols | 1.240 | 1.242 | | 0.2 | |
| n-Nitroso-di-n-propylamine | 0.880 | 0.889 | 0.050 | 1.0 | |
| Nitrobenzene-d5 | 0.365 | 0.358 | | -1.9 | |
| Hexachloroethane | 0.530 | 0.508 | | -4.2 | |
| Nitrobenzene | 0.324 | 0.320 | | -1.2 | |
| Isophorone | 0.619 | 0.614 | | -0.8 | |
| 2-Nitrophenol | 0.181 | 0.182 | | 0.6 | 20.0 |
| 2,4-Dimethylphenol | 0.308 | 0.305 | | -1.0 | |
| bis(2-Chloroethoxy)methane | 0.384 | 0.380 | | -1.0 | |
| 2,4-Dichlorophenol | 0.284 | 0.284 | | 0.0 | 20.0 |
| Naphthalene | 0.989 | 0.976 | | -1.3 | |
| 4-Chloroaniline | 0.397 | 0.399 | | 0.5 | |
| Hexachlorobutadiene | 0.200 | 0.197 | | -1.5 | 20.0 |
| Caprolactam | 0.077 | 0.080 | | 3.9 | |
| 4-Chloro-3-methylphenol | 0.296 | 0.295 | | -0.3 | 20.0 |
| 2-Methylnaphthalene | 0.626 | 0.619 | | -1.1 | |
| Hexachlorocyclopentadiene | 0.372 | 0.369 | 0.050 | -0.8 | |
| 2,4,6-Trichlorophenol | 0.375 | 0.381 | | 1.6 | 20.0 |
| 2-Fluorobiphenyl | 1.505 | 1.452 | | -3.5 | |
| 2,4,5-Trichlorophenol | 0.405 | 0.395 | | -2.5 | |
| 1,1-Biphenyl | 1.553 | 1.516 | | -2.4 | |
| 2-Chloronaphthalene | 1.144 | 1.134 | | -0.9 | |
| 2-Nitroaniline | 0.325 | 0.326 | | 0.3 | |
| Dimethylphthalate | 1.336 | 1.325 | | -0.8 | |
| Acenaphthylene | 1.929 | 1.891 | | -2.0 | |
| 2,6-Dinitrotoluene | 0.289 | 0.285 | | -1.4 | |
| 3-Nitroaniline | 0.313 | 0.309 | | -1.3 | |
| Acenaphthene | 1.196 | 1.172 | | -2.0 | 20.0 |
| 2,4-Dinitrophenol | 0.158 | 0.159 | 0.050 | 0.6 | |
| 4-Nitrophenol | 0.212 | 0.215 | 0.050 | 1.4 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_F Calibration Date/Time: 06/11/2025 09:24

Lab File ID: BF142723.D Init. Calib. Date(s): 06/10/2025 06/10/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 16:54 20:19

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.703 | 1.673 | | -1.8 | |
| 2,4-Dinitrotoluene | 0.382 | 0.392 | | 2.6 | |
| Diethylphthalate | 1.324 | 1.318 | | -0.5 | |
| 4-Chlorophenyl-phenylether | 0.657 | 0.651 | | -0.9 | |
| Fluorene | 1.345 | 1.301 | | -3.3 | |
| 4-Nitroaniline | 0.280 | 0.290 | | 3.6 | |
| 4,6-Dinitro-2-methylphenol | 0.125 | 0.125 | | 0.0 | |
| n-Nitrosodiphenylamine | 0.687 | 0.667 | | -2.9 | 20.0 |
| 2,4,6-Tribromophenol | 0.219 | 0.218 | | -0.5 | |
| 4-Bromophenyl-phenylether | 0.236 | 0.233 | | -1.3 | |
| Hexachlorobenzene | 0.262 | 0.255 | | -2.7 | |
| Atrazine | 0.183 | 0.192 | | 4.9 | |
| Pentachlorophenol | 0.137 | 0.138 | | 0.7 | 20.0 |
| Phenanthrene | 1.071 | 1.043 | | -2.6 | |
| Anthracene | 1.108 | 1.070 | | -3.4 | |
| Carbazole | 0.928 | 0.921 | | -0.8 | |
| Di-n-butylphthalate | 1.036 | 1.101 | | 6.3 | |
| Fluoranthene | 1.019 | 1.017 | | -0.2 | 20.0 |
| Pyrene | 1.859 | 1.904 | | 2.4 | |
| Terphenyl-d14 | 1.456 | 1.502 | | 3.2 | |
| Butylbenzylphthalate | 0.550 | 0.589 | | 7.1 | |
| 3,3-Dichlorobenzidine | 0.427 | 0.407 | | -4.7 | |
| Benzo(a)anthracene | 1.325 | 1.330 | | 0.4 | |
| Chrysene | 1.224 | 1.168 | | -4.6 | |
| Bis(2-ethylhexyl)phthalate | 0.825 | 0.821 | | -0.5 | |
| Di-n-octyl phthalate | 1.582 | 1.500 | | -5.2 | 20.0 |
| Benzo(b)fluoranthene | 1.178 | 1.192 | | 1.2 | |
| Benzo(k)fluoranthene | 1.143 | 1.132 | | -1.0 | |
| Benzo(a)pyrene | 1.120 | 1.112 | | -0.7 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.482 | 1.501 | | 1.3 | |
| Dibenzo(a,h)anthracene | 1.210 | 1.240 | | 2.5 | |
| Benzo(g,h,i)perylene | 1.203 | 1.196 | | -0.6 | |
| 1,2,4,5-Tetrachlorobenzene | 0.579 | 0.567 | | -2.1 | |
| 1,4-Dioxane | 0.465 | 0.450 | | -3.2 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.340 | 0.335 | | -1.5 | |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_F Calibration Date/Time: 06/12/2025 09:50

Lab File ID: BF142748.D Init. Calib. Date(s): 06/10/2025 06/10/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 16:54 20:19

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.174 | 1.175 | | 0.1 | |
| Benzaldehyde | 0.856 | 0.797 | | -6.9 | |
| Phenol-d6 | 1.382 | 1.342 | | -2.9 | |
| Phenol | 1.536 | 1.497 | | -2.5 | 20.0 |
| bis(2-Chloroethyl)ether | 1.147 | 1.093 | | -4.7 | |
| 2-Chlorophenol | 1.283 | 1.262 | | -1.6 | |
| 2-Methylphenol | 0.984 | 0.951 | | -3.4 | |
| 2,2-oxybis(1-Chloropropane) | 1.806 | 1.699 | | -5.9 | |
| Acetophenone | 0.445 | 0.432 | | -2.9 | |
| 3+4-Methylphenols | 1.240 | 1.171 | | -5.6 | |
| n-Nitroso-di-n-propylamine | 0.880 | 0.795 | 0.050 | -9.7 | |
| Nitrobenzene-d5 | 0.365 | 0.362 | | -0.8 | |
| Hexachloroethane | 0.530 | 0.514 | | -3.0 | |
| Nitrobenzene | 0.324 | 0.324 | | 0.0 | |
| Isophorone | 0.619 | 0.568 | | -8.2 | |
| 2-Nitrophenol | 0.181 | 0.176 | | -2.8 | 20.0 |
| 2,4-Dimethylphenol | 0.308 | 0.303 | | -1.6 | |
| bis(2-Chloroethoxy)methane | 0.384 | 0.365 | | -4.9 | |
| 2,4-Dichlorophenol | 0.284 | 0.278 | | -2.1 | 20.0 |
| Naphthalene | 0.989 | 0.963 | | -2.6 | |
| 4-Chloroaniline | 0.397 | 0.377 | | -5.0 | |
| Hexachlorobutadiene | 0.200 | 0.199 | | -0.5 | 20.0 |
| Caprolactam | 0.077 | 0.066 | | -14.3 | |
| 4-Chloro-3-methylphenol | 0.296 | 0.272 | | -8.1 | 20.0 |
| 2-Methylnaphthalene | 0.626 | 0.589 | | -5.9 | |
| Hexachlorocyclopentadiene | 0.372 | 0.359 | 0.050 | -3.5 | |
| 2,4,6-Trichlorophenol | 0.375 | 0.381 | | 1.6 | 20.0 |
| 2-Fluorobiphenyl | 1.505 | 1.507 | | 0.1 | |
| 2,4,5-Trichlorophenol | 0.405 | 0.402 | | -0.7 | |
| 1,1-Biphenyl | 1.553 | 1.558 | | 0.3 | |
| 2-Chloronaphthalene | 1.144 | 1.155 | | 1.0 | |
| 2-Nitroaniline | 0.325 | 0.314 | | -3.4 | |
| Dimethylphthalate | 1.336 | 1.248 | | -6.6 | |
| Acenaphthylene | 1.929 | 1.913 | | -0.8 | |
| 2,6-Dinitrotoluene | 0.289 | 0.266 | | -8.0 | |
| 3-Nitroaniline | 0.313 | 0.290 | | -7.3 | |
| Acenaphthene | 1.196 | 1.155 | | -3.4 | 20.0 |
| 2,4-Dinitrophenol | 0.158 | 0.125 | 0.050 | -20.9 | |
| 4-Nitrophenol | 0.212 | 0.185 | 0.050 | -12.7 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_F Calibration Date/Time: 06/12/2025 09:50

Lab File ID: BF142748.D Init. Calib. Date(s): 06/10/2025 06/10/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 16:54 20:19

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.703 | 1.644 | | -3.5 | |
| 2,4-Dinitrotoluene | 0.382 | 0.352 | | -7.9 | |
| Diethylphthalate | 1.324 | 1.176 | | -11.2 | |
| 4-Chlorophenyl-phenylether | 0.657 | 0.619 | | -5.8 | |
| Fluorene | 1.345 | 1.257 | | -6.5 | |
| 4-Nitroaniline | 0.280 | 0.254 | | -9.3 | |
| 4,6-Dinitro-2-methylphenol | 0.125 | 0.114 | | -8.8 | |
| n-Nitrosodiphenylamine | 0.687 | 0.684 | | -0.4 | 20.0 |
| 2,4,6-Tribromophenol | 0.219 | 0.199 | | -9.1 | |
| 4-Bromophenyl-phenylether | 0.236 | 0.231 | | -2.1 | |
| Hexachlorobenzene | 0.262 | 0.254 | | -3.1 | |
| Atrazine | 0.183 | 0.167 | | -8.7 | |
| Pentachlorophenol | 0.137 | 0.127 | | -7.3 | 20.0 |
| Phenanthrene | 1.071 | 1.031 | | -3.7 | |
| Anthracene | 1.108 | 1.071 | | -3.3 | |
| Carbazole | 0.928 | 0.892 | | -3.9 | |
| Di-n-butylphthalate | 1.036 | 0.951 | | -8.2 | |
| Fluoranthene | 1.019 | 0.949 | | -6.9 | 20.0 |
| Pyrene | 1.859 | 1.594 | | -14.3 | |
| Terphenyl-d14 | 1.456 | 1.245 | | -14.5 | |
| Butylbenzylphthalate | 0.550 | 0.566 | | 2.9 | |
| 3,3-Dichlorobenzidine | 0.427 | 0.465 | | 8.9 | |
| Benzo(a)anthracene | 1.325 | 1.297 | | -2.1 | |
| Chrysene | 1.224 | 1.214 | | -0.8 | |
| Bis(2-ethylhexyl)phthalate | 0.825 | 0.883 | | 7.0 | |
| Di-n-octyl phthalate | 1.582 | 1.645 | | 4.0 | 20.0 |
| Benzo(b)fluoranthene | 1.178 | 1.089 | | -7.6 | |
| Benzo(k)fluoranthene | 1.143 | 1.134 | | -0.8 | |
| Benzo(a)pyrene | 1.120 | 1.094 | | -2.3 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.482 | 1.417 | | -4.4 | |
| Dibenzo(a,h)anthracene | 1.210 | 1.148 | | -5.1 | |
| Benzo(g,h,i)perylene | 1.203 | 1.125 | | -6.5 | |
| 1,2,4,5-Tetrachlorobenzene | 0.579 | 0.594 | | 2.6 | |
| 1,4-Dioxane | 0.465 | 0.477 | | 2.6 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.340 | 0.314 | | -7.6 | |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_P Calibration Date/Time: 06/10/2025 10:53

Lab File ID: BP024888.D Init. Calib. Date(s): 06/06/2025 06/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 15:18

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.198 | 1.199 | | 0.1 | |
| Benzaldehyde | 0.914 | 0.959 | | 4.9 | |
| Phenol-d6 | 1.585 | 1.573 | | -0.8 | |
| Phenol | 1.634 | 1.630 | | -0.2 | 20.0 |
| bis(2-Chloroethyl)ether | 1.285 | 1.306 | | 1.6 | |
| 2-Chlorophenol | 1.358 | 1.365 | | 0.5 | |
| 2-Methylphenol | 1.141 | 1.143 | | 0.2 | |
| 2,2-oxybis(1-Chloropropane) | 1.682 | 1.667 | | -0.9 | |
| Acetophenone | 0.505 | 0.510 | | 1.0 | |
| 3+4-Methylphenols | 1.557 | 1.543 | | -0.9 | |
| n-Nitroso-di-n-propylamine | 1.078 | 1.086 | 0.050 | 0.7 | |
| Nitrobenzene-d5 | 0.412 | 0.415 | | 0.7 | |
| Hexachloroethane | 0.576 | 0.567 | | -1.6 | |
| Nitrobenzene | 0.366 | 0.363 | | -0.8 | |
| Isophorone | 0.713 | 0.722 | | 1.3 | |
| 2-Nitrophenol | 0.180 | 0.191 | | 6.1 | 20.0 |
| 2,4-Dimethylphenol | 0.309 | 0.317 | | 2.6 | |
| bis(2-Chloroethoxy)methane | 0.426 | 0.432 | | 1.4 | |
| 2,4-Dichlorophenol | 0.296 | 0.306 | | 3.4 | 20.0 |
| Naphthalene | 1.025 | 1.011 | | -1.4 | |
| 4-Chloroaniline | 0.429 | 0.441 | | 2.8 | |
| Hexachlorobutadiene | 0.201 | 0.205 | | 2.0 | 20.0 |
| Caprolactam | 0.109 | 0.110 | | 0.9 | |
| 4-Chloro-3-methylphenol | 0.342 | 0.345 | | 0.9 | 20.0 |
| 2-Methylnaphthalene | 0.650 | 0.651 | | 0.2 | |
| Hexachlorocyclopentadiene | 0.346 | 0.335 | 0.050 | -3.2 | |
| 2,4,6-Trichlorophenol | 0.381 | 0.394 | | 3.4 | 20.0 |
| 2-Fluorobiphenyl | 1.485 | 1.475 | | -0.7 | |
| 2,4,5-Trichlorophenol | 0.408 | 0.423 | | 3.7 | |
| 1,1-Biphenyl | 1.453 | 1.451 | | -0.1 | |
| 2-Chloronaphthalene | 1.117 | 1.112 | | -0.4 | |
| 2-Nitroaniline | 0.343 | 0.341 | | -0.6 | |
| Dimethylphthalate | 1.475 | 1.472 | | -0.2 | |
| Acenaphthylene | 1.863 | 1.865 | | 0.1 | |
| 2,6-Dinitrotoluene | 0.318 | 0.321 | | 0.9 | |
| 3-Nitroaniline | 0.330 | 0.340 | | 3.0 | |
| Acenaphthene | 1.067 | 1.066 | | -0.1 | 20.0 |
| 2,4-Dinitrophenol | 0.178 | 0.187 | 0.050 | 5.1 | |
| 4-Nitrophenol | 0.239 | 0.238 | 0.050 | -0.4 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_P Calibration Date/Time: 06/10/2025 10:53

Lab File ID: BP024888.D Init. Calib. Date(s): 06/06/2025 06/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 15:18

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.713 | 1.701 | | -0.7 | |
| 2,4-Dinitrotoluene | 0.445 | 0.463 | | 4.0 | |
| Diethylphthalate | 1.470 | 1.494 | | 1.6 | |
| 4-Chlorophenyl-phenylether | 0.677 | 0.688 | | 1.6 | |
| Fluorene | 1.384 | 1.390 | | 0.4 | |
| 4-Nitroaniline | 0.299 | 0.338 | | 13.0 | |
| 4,6-Dinitro-2-methylphenol | 0.131 | 0.134 | | 2.3 | |
| n-Nitrosodiphenylamine | 0.620 | 0.609 | | -1.8 | 20.0 |
| 2,4,6-Tribromophenol | 0.277 | 0.294 | | 6.1 | |
| 4-Bromophenyl-phenylether | 0.226 | 0.231 | | 2.2 | |
| Hexachlorobenzene | 0.274 | 0.269 | | -1.8 | |
| Atrazine | 0.225 | 0.233 | | 3.6 | |
| Pentachlorophenol | 0.142 | 0.159 | | 12.0 | 20.0 |
| Phenanthrene | 1.105 | 1.093 | | -1.1 | |
| Anthracene | 1.119 | 1.109 | | -0.9 | |
| Carbazole | 1.038 | 1.036 | | -0.2 | |
| Di-n-butylphthalate | 1.285 | 1.380 | | 7.4 | |
| Fluoranthene | 1.281 | 1.281 | | 0.0 | 20.0 |
| Pyrene | 1.249 | 1.222 | | -2.2 | |
| Terphenyl-d14 | 1.116 | 1.120 | | 0.4 | |
| Butylbenzylphthalate | 0.572 | 0.600 | | 4.9 | |
| 3,3-Dichlorobenzidine | 0.508 | 0.519 | | 2.2 | |
| Benzo(a)anthracene | 1.279 | 1.262 | | -1.3 | |
| Chrysene | 1.212 | 1.194 | | -1.5 | |
| Bis(2-ethylhexyl)phthalate | 0.820 | 0.906 | | 10.5 | |
| Di-n-octyl phthalate | 1.445 | 1.569 | | 8.6 | 20.0 |
| Benzo(b)fluoranthene | 1.145 | 1.151 | | 0.5 | |
| Benzo(k)fluoranthene | 1.165 | 1.135 | | -2.6 | |
| Benzo(a)pyrene | 1.118 | 1.119 | | 0.1 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.459 | 1.445 | | -1.0 | |
| Dibenzo(a,h)anthracene | 1.188 | 1.179 | | -0.8 | |
| Benzo(g,h,i)perylene | 1.179 | 1.134 | | -3.8 | |
| 1,2,4,5-Tetrachlorobenzene | 0.568 | 0.568 | | 0.0 | |
| 1,4-Dioxane | 0.527 | 0.493 | | -6.5 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.365 | 0.377 | | 3.3 | |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_P Calibration Date/Time: 06/11/2025 10:09

Lab File ID: BP024905.D Init. Calib. Date(s): 06/06/2025 06/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 15:18

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.198 | 1.226 | | 2.3 | |
| Benzaldehyde | 0.914 | 0.937 | | 2.5 | |
| Phenol-d6 | 1.585 | 1.563 | | -1.4 | |
| Phenol | 1.634 | 1.618 | | -1.0 | 20.0 |
| bis(2-Chloroethyl)ether | 1.285 | 1.265 | | -1.6 | |
| 2-Chlorophenol | 1.358 | 1.365 | | 0.5 | |
| 2-Methylphenol | 1.141 | 1.112 | | -2.5 | |
| 2,2-oxybis(1-Chloropropane) | 1.682 | 1.580 | | -6.1 | |
| Acetophenone | 0.505 | 0.502 | | -0.6 | |
| 3+4-Methylphenols | 1.557 | 1.486 | | -4.6 | |
| n-Nitroso-di-n-propylamine | 1.078 | 1.023 | 0.050 | -5.1 | |
| Nitrobenzene-d5 | 0.412 | 0.408 | | -1.0 | |
| Hexachloroethane | 0.576 | 0.549 | | -4.7 | |
| Nitrobenzene | 0.366 | 0.359 | | -1.9 | |
| Isophorone | 0.713 | 0.698 | | -2.1 | |
| 2-Nitrophenol | 0.180 | 0.190 | | 5.6 | 20.0 |
| 2,4-Dimethylphenol | 0.309 | 0.313 | | 1.3 | |
| bis(2-Chloroethoxy)methane | 0.426 | 0.416 | | -2.3 | |
| 2,4-Dichlorophenol | 0.296 | 0.307 | | 3.7 | 20.0 |
| Naphthalene | 1.025 | 1.019 | | -0.6 | |
| 4-Chloroaniline | 0.429 | 0.431 | | 0.5 | |
| Hexachlorobutadiene | 0.201 | 0.207 | | 3.0 | 20.0 |
| Caprolactam | 0.109 | 0.111 | | 1.8 | |
| 4-Chloro-3-methylphenol | 0.342 | 0.342 | | 0.0 | 20.0 |
| 2-Methylnaphthalene | 0.650 | 0.650 | | 0.0 | |
| Hexachlorocyclopentadiene | 0.346 | 0.317 | 0.050 | -8.4 | |
| 2,4,6-Trichlorophenol | 0.381 | 0.394 | | 3.4 | 20.0 |
| 2-Fluorobiphenyl | 1.485 | 1.486 | | 0.1 | |
| 2,4,5-Trichlorophenol | 0.408 | 0.432 | | 5.9 | |
| 1,1-Biphenyl | 1.453 | 1.472 | | 1.3 | |
| 2-Chloronaphthalene | 1.117 | 1.114 | | -0.3 | |
| 2-Nitroaniline | 0.343 | 0.347 | | 1.2 | |
| Dimethylphthalate | 1.475 | 1.466 | | -0.6 | |
| Acenaphthylene | 1.863 | 1.851 | | -0.6 | |
| 2,6-Dinitrotoluene | 0.318 | 0.317 | | -0.3 | |
| 3-Nitroaniline | 0.330 | 0.352 | | 6.7 | |
| Acenaphthene | 1.067 | 1.048 | | -1.8 | 20.0 |
| 2,4-Dinitrophenol | 0.178 | 0.185 | 0.050 | 3.9 | |
| 4-Nitrophenol | 0.239 | 0.237 | 0.050 | -0.8 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_P Calibration Date/Time: 06/11/2025 10:09

Lab File ID: BP024905.D Init. Calib. Date(s): 06/06/2025 06/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 15:18

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.713 | 1.692 | | -1.2 | |
| 2,4-Dinitrotoluene | 0.445 | 0.460 | | 3.4 | |
| Diethylphthalate | 1.470 | 1.506 | | 2.4 | |
| 4-Chlorophenyl-phenylether | 0.677 | 0.684 | | 1.0 | |
| Fluorene | 1.384 | 1.387 | | 0.2 | |
| 4-Nitroaniline | 0.299 | 0.338 | | 13.0 | |
| 4,6-Dinitro-2-methylphenol | 0.131 | 0.133 | | 1.5 | |
| n-Nitrosodiphenylamine | 0.620 | 0.603 | | -2.7 | 20.0 |
| 2,4,6-Tribromophenol | 0.277 | 0.297 | | 7.2 | |
| 4-Bromophenyl-phenylether | 0.226 | 0.229 | | 1.3 | |
| Hexachlorobenzene | 0.274 | 0.274 | | 0.0 | |
| Atrazine | 0.225 | 0.226 | | 0.4 | |
| Pentachlorophenol | 0.142 | 0.157 | | 10.6 | 20.0 |
| Phenanthrene | 1.105 | 1.060 | | -4.1 | |
| Anthracene | 1.119 | 1.107 | | -1.1 | |
| Carbazole | 1.038 | 1.030 | | -0.8 | |
| Di-n-butylphthalate | 1.285 | 1.322 | | 2.9 | |
| Fluoranthene | 1.281 | 1.260 | | -1.6 | 20.0 |
| Pyrene | 1.249 | 1.242 | | -0.6 | |
| Terphenyl-d14 | 1.116 | 1.127 | | 1.0 | |
| Butylbenzylphthalate | 0.572 | 0.609 | | 6.5 | |
| 3,3-Dichlorobenzidine | 0.508 | 0.535 | | 5.3 | |
| Benzo(a)anthracene | 1.279 | 1.276 | | -0.2 | |
| Chrysene | 1.212 | 1.188 | | -2.0 | |
| Bis(2-ethylhexyl)phthalate | 0.820 | 0.891 | | 8.7 | |
| Di-n-octyl phthalate | 1.445 | 1.536 | | 6.3 | 20.0 |
| Benzo(b)fluoranthene | 1.145 | 1.113 | | -2.8 | |
| Benzo(k)fluoranthene | 1.165 | 1.124 | | -3.5 | |
| Benzo(a)pyrene | 1.118 | 1.098 | | -1.8 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.459 | 1.454 | | -0.3 | |
| Dibenzo(a,h)anthracene | 1.188 | 1.198 | | 0.8 | |
| Benzo(g,h,i)perylene | 1.179 | 1.152 | | -2.3 | |
| 1,2,4,5-Tetrachlorobenzene | 0.568 | 0.573 | | 0.9 | |
| 1,4-Dioxane | 0.527 | 0.507 | | -3.8 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.365 | 0.375 | | 2.7 | |

All other compounds must meet a minimum RRF of 0.010.

# SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Time: Jun 10 16:31:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

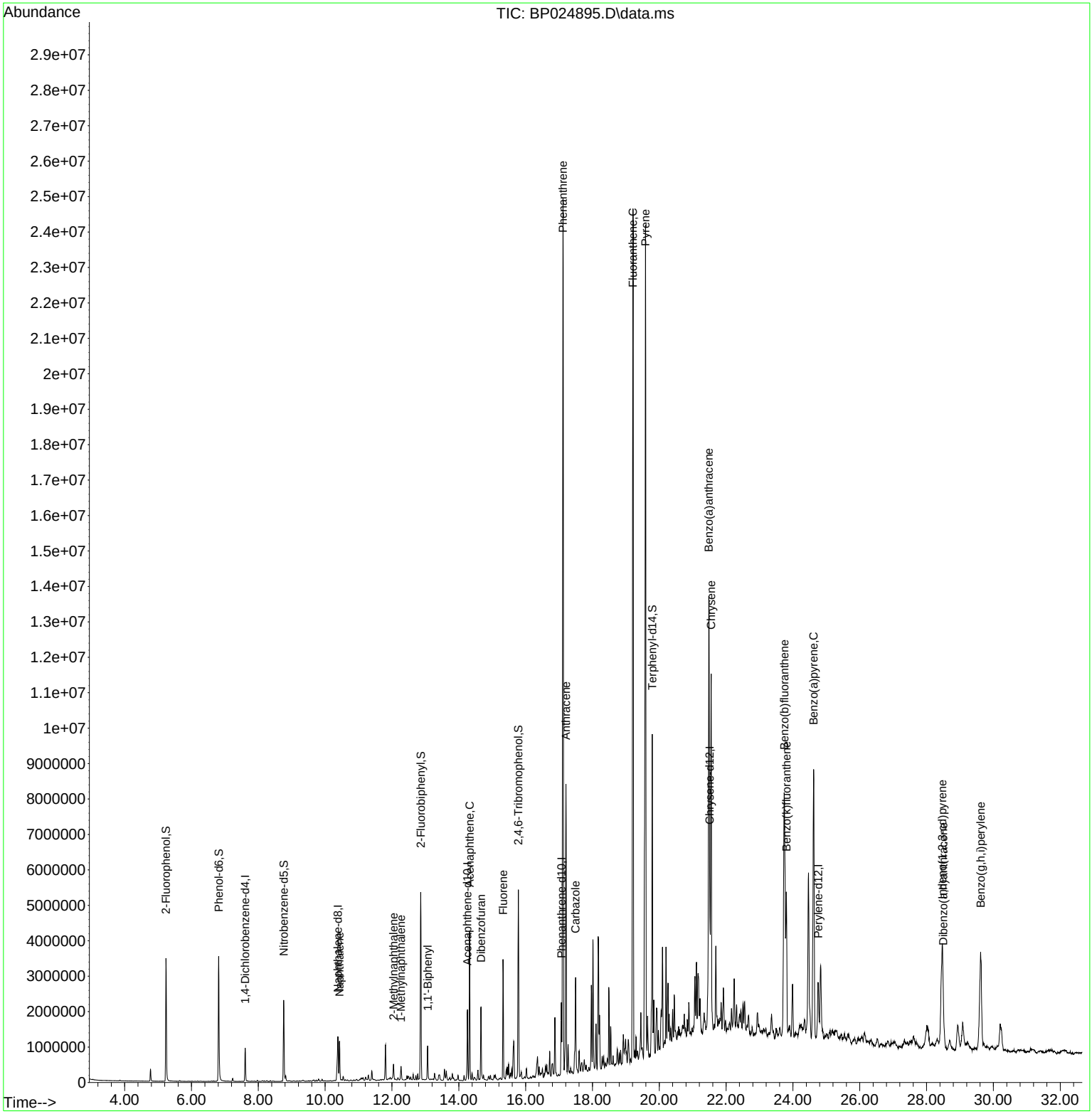
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.607 | 152 | 259952 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.378 | 136 | 1064328 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 14.260 | 164 | 672188 | 20.000 | ng | | 0.01 |
| 64) Phenanthrene-d10 | 17.072 | 188 | 1296135 | 20.000 | ng | | 0.01 |
| 76) Chrysene-d12 | 21.507 | 240 | 1315798 | 20.000 | ng | | 0.02 |
| 86) Perylene-d12 | 24.760 | 264 | 1598305 | 20.000 | ng | | 0.04 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.237 | 112 | 1643118 | 105.508 | ng | | 0.00 |
| 7) Phenol-d6 | 6.813 | 99 | 2167494 | 105.191 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 8.760 | 82 | 1358331 | 62.016 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.784 | 330 | 1038010 | 111.694 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 12.860 | 172 | 2956910 | 59.259 | ng | | 0.00 |
| 79) Terphenyl-d14 | 19.789 | 244 | 4128556 | 56.235 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 31) Naphthalene | 10.431 | 128 | 886539 | 16.254 | ng | | 99 |
| 37) 2-Methylnaphthalene | 12.048 | 142 | 222518 | 6.432 | ng | | 99 |
| 38) 1-Methylnaphthalene | 12.272 | 142 | 176000 | 4.758 | ng | | 100 |
| 46) 1,1'-Biphenyl | 13.072 | 154 | 126040 | 2.580 | ng | | 99 |
| 52) Acenaphthene | 14.325 | 154 | 1406501 | 39.209 | ng | | 99 |
| 55) Dibenzofuran | 14.666 | 168 | 1281218 | 22.250 | ng | | 99 |
| 58) Fluorene | 15.325 | 166 | 1366591 | 29.379 | ng | | 99 |
| 71) Phenanthrene | 17.113 | 178 | 16031932 | 223.828 | ng | | 93 |
| 72) Anthracene | 17.207 | 178 | 5026222 | 69.288 | ng | | 99 |
| 73) Carbazole | 17.495 | 167 | 1759204 | 26.164 | ng | | 100 |
| 75) Fluoranthene | 19.213 | 202 | 17139546 | 206.456 | ng | | 90 |
| 78) Pyrene | 19.583 | 202 | 15441651 | 187.846 | ng | # | 92 |
| 81) Benzo(a)anthracene | 21.483 | 228 | 8125938 | 96.558 | ng | | 98 |
| 83) Chrysene | 21.554 | 228 | 6757136 | 84.740 | ng | | 96 |
| 87) Indeno(1,2,3-cd)pyrene | 28.471 | 276 | 5049444 | 43.300 | ng | | 95 |
| 88) Benzo(b)fluoranthene | 23.742 | 252 | 9105161 | 99.541 | ng | | 98 |
| 89) Benzo(k)fluoranthene | 23.807 | 252 | 3188599 | 34.246 | ng | | 97 |
| 90) Benzo(a)pyrene | 24.618 | 252 | 7622631 | 85.331 | ng | | 97 |
| 91) Dibenzo(a,h)anthracene | 28.501 | 278 | 1152183 | 12.138 | ng | # | 93 |
| 92) Benzo(g,h,i)perylene | 29.618 | 276 | 4866832 | 51.675 | ng | | 100 |

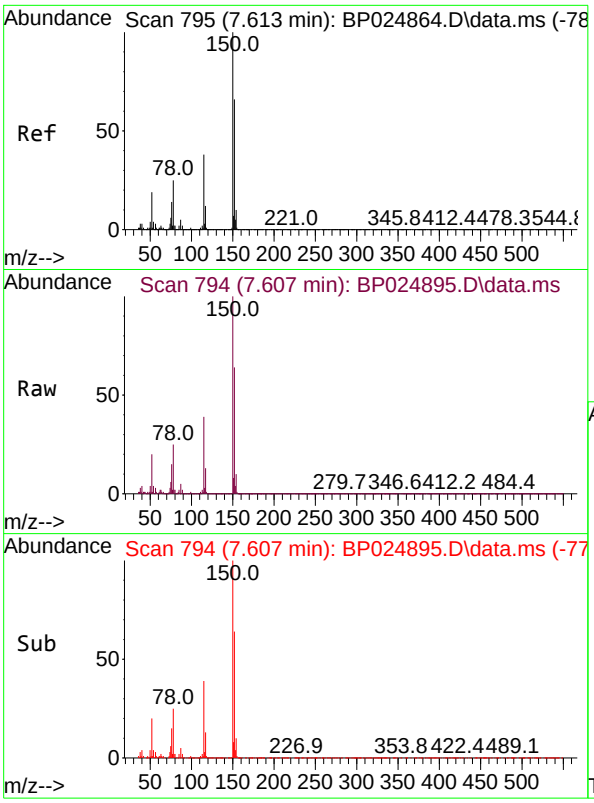
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Time: Jun 10 16:31:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration



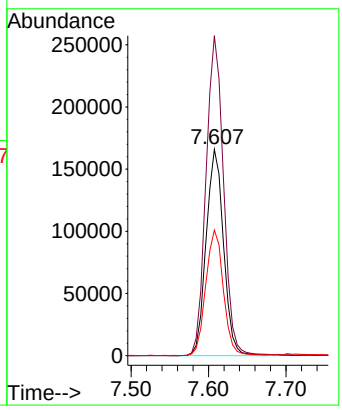


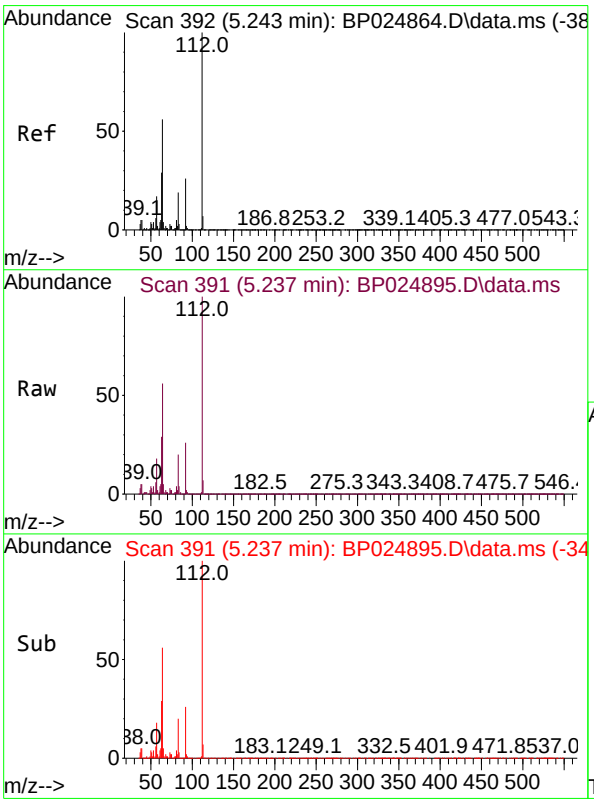

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.607 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Tgt Ion:152 Resp: 259952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.1 | 122.1 | 183.1 |
| 115 | 60.9 | 46.4 | 69.6 |

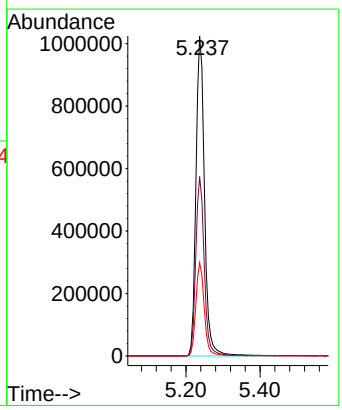


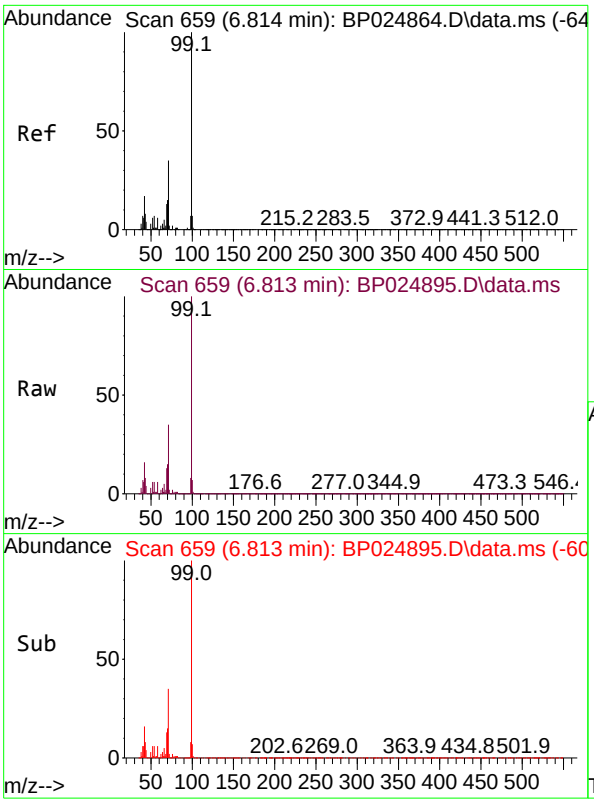




#5
2-Fluorophenol
Concen: 105.508 ng
RT: 5.237 min Scan# 391
Delta R.T. -0.006 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

Tgt Ion:112 Resp: 1643118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 56.1 | 44.7 | 67.1 |
| 63 | 29.2 | 23.5 | 35.3 |



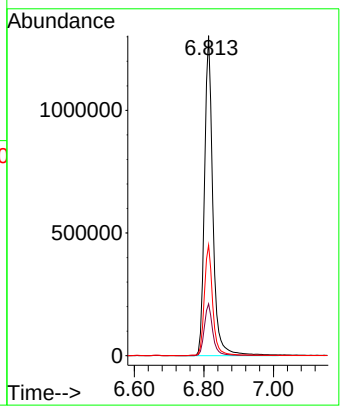


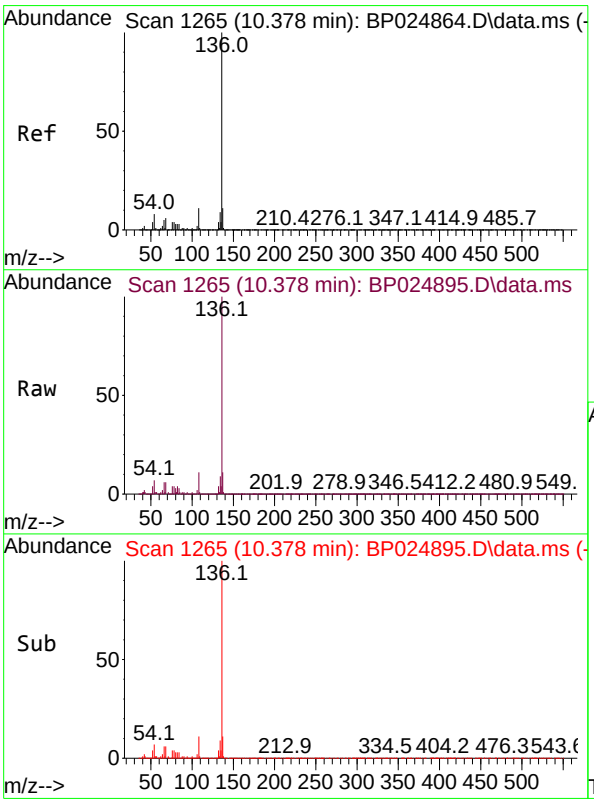

#7
Phenol-d6
Concen: 105.191 ng
RT: 6.813 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Tgt Ion: 99 Resp: 2167494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 16.2 | 13.4 | 20.2 |
| 71 | 34.5 | 27.6 | 41.4 |

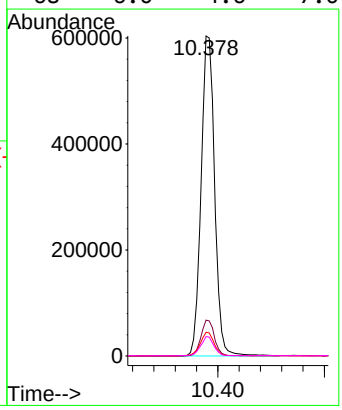


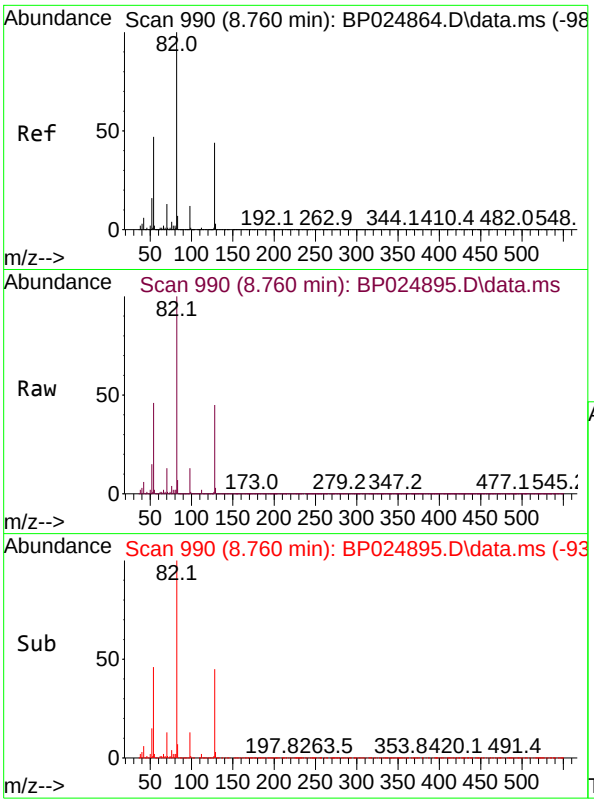




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.378 min Scan# 1265
Delta R.T. -0.000 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

Tgt Ion:136 Resp: 1064328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 8.9 | 13.3 |
| 54 | 7.4 | 6.1 | 9.1 |
| 68 | 6.0 | 4.6 | 7.0 |



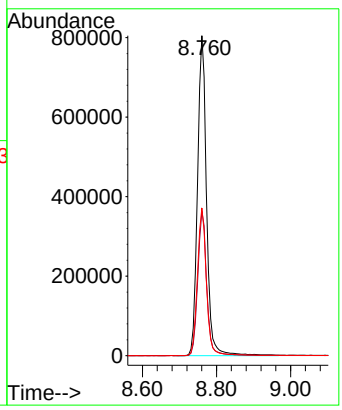


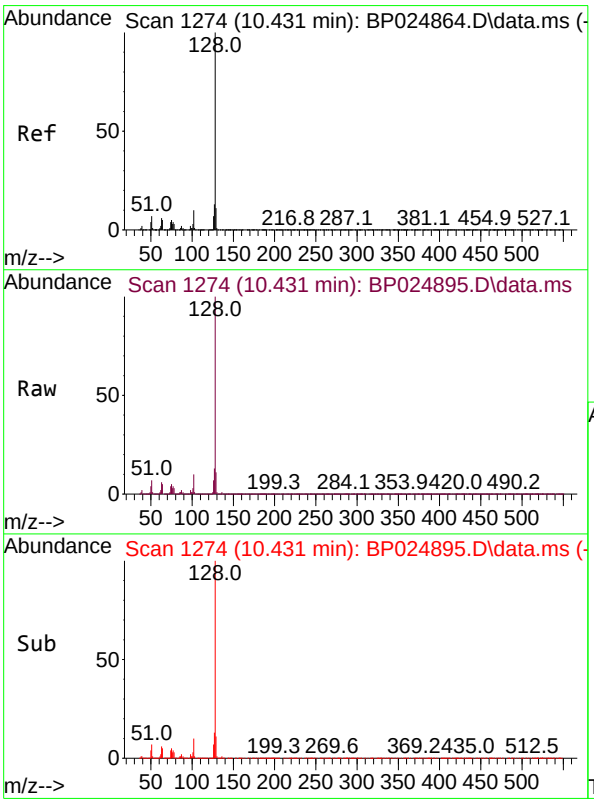

#23
Nitrobenzene-d5
Concen: 62.016 ng
RT: 8.760 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Tgt Ion: 82 Resp: 1358331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.2 | 35.3 | 52.9 |
| 54 | 46.1 | 37.4 | 56.0 |

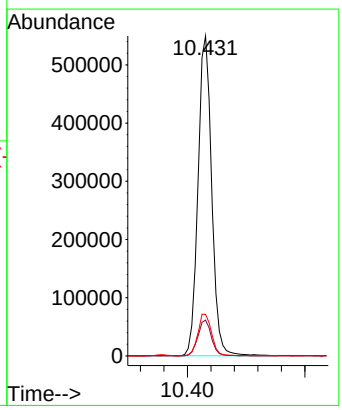


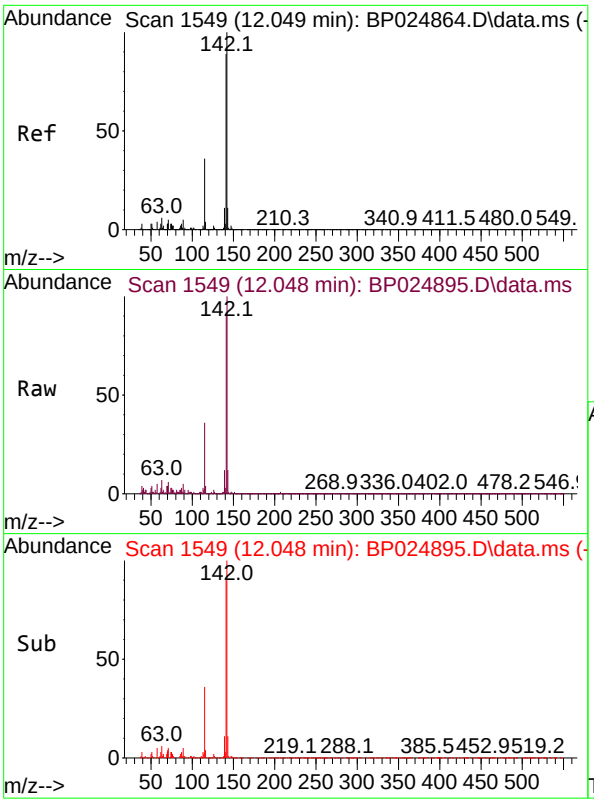




#31
Naphthalene
Concen: 16.254 ng
RT: 10.431 min Scan# 1274
Delta R.T. -0.000 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

Tgt Ion:128 Resp: 886539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.2 | 8.7 | 13.1 |
| 127 | 13.0 | 10.7 | 16.1 |



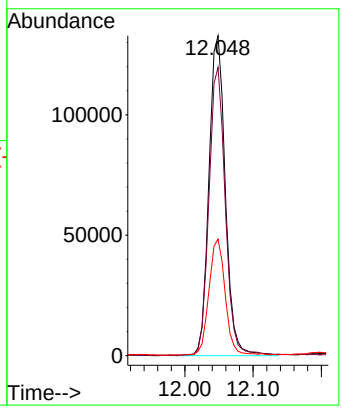


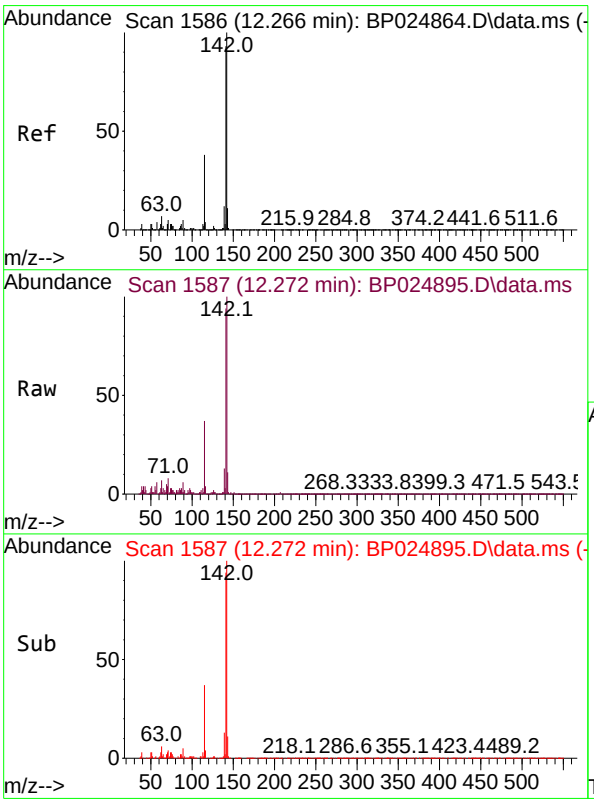

#37
2-Methylnaphthalene
Concen: 6.432 ng
RT: 12.048 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Tgt Ion:142 Resp: 222518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.1 | 71.2 | 106.8 |
| 115 | 36.4 | 28.5 | 42.7 |

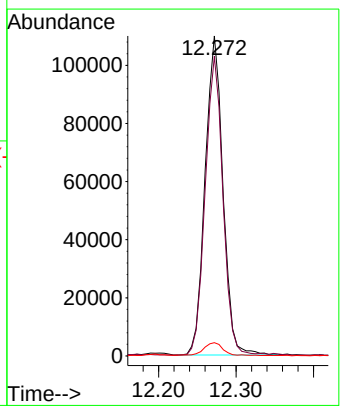


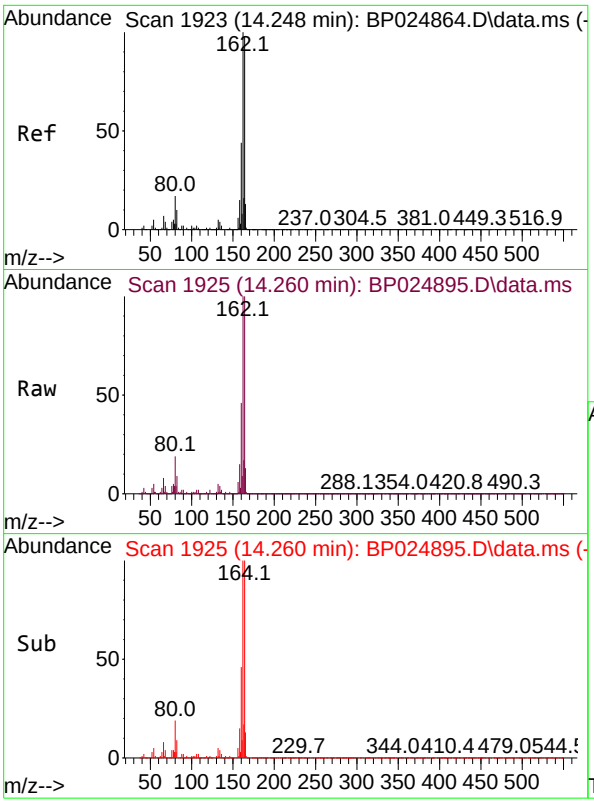




#38
1-Methylnaphthalene
Concen: 4.758 ng
RT: 12.272 min Scan# 1587
Delta R.T. 0.006 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

Tgt Ion:142 Resp: 176000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.7 | 74.7 | 112.1 |
| 116 | 4.2 | 3.4 | 5.0 |



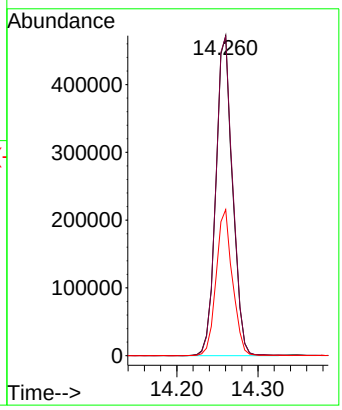


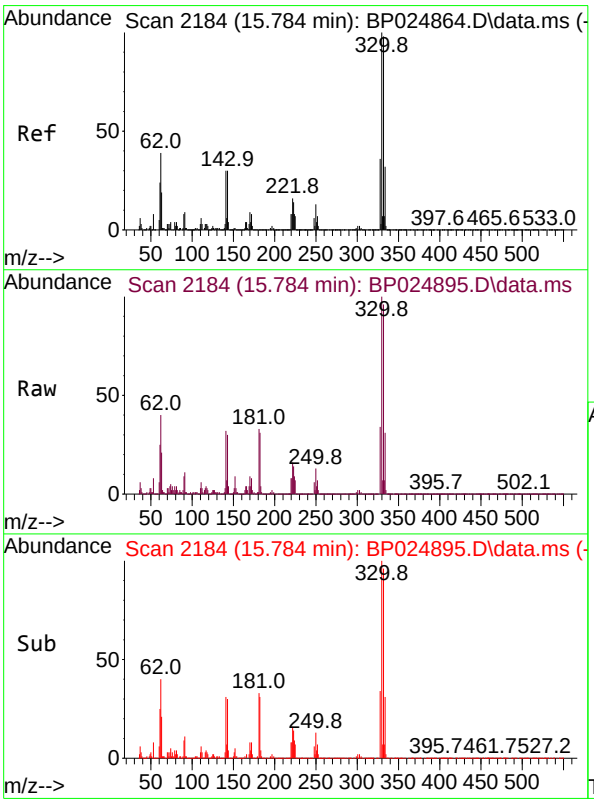

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.260 min Scan# 1
Delta R.T. 0.012 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Tgt Ion:164 Resp: 672188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.8 | 81.6 | 122.4 |
| 160 | 45.7 | 36.2 | 54.2 |

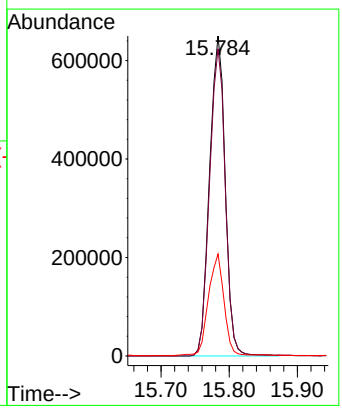


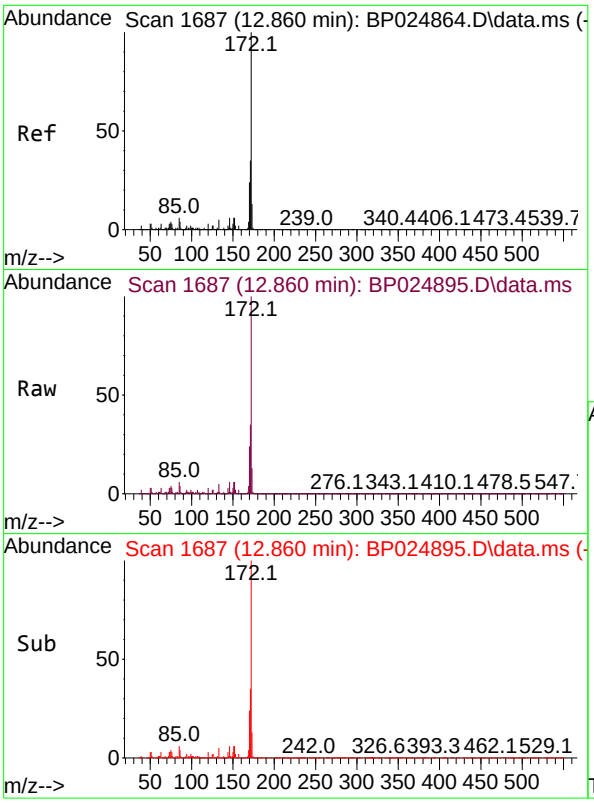




#42
2,4,6-Tribromophenol
Concen: 111.694 ng
RT: 15.784 min Scan# 2184
Delta R.T. -0.000 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

Tgt Ion:330 Resp: 1038010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.8 | 77.7 | 116.5 |
| 141 | 31.4 | 26.4 | 39.6 |



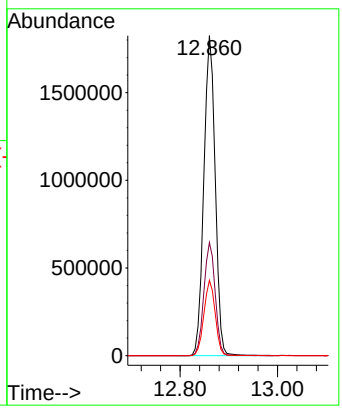


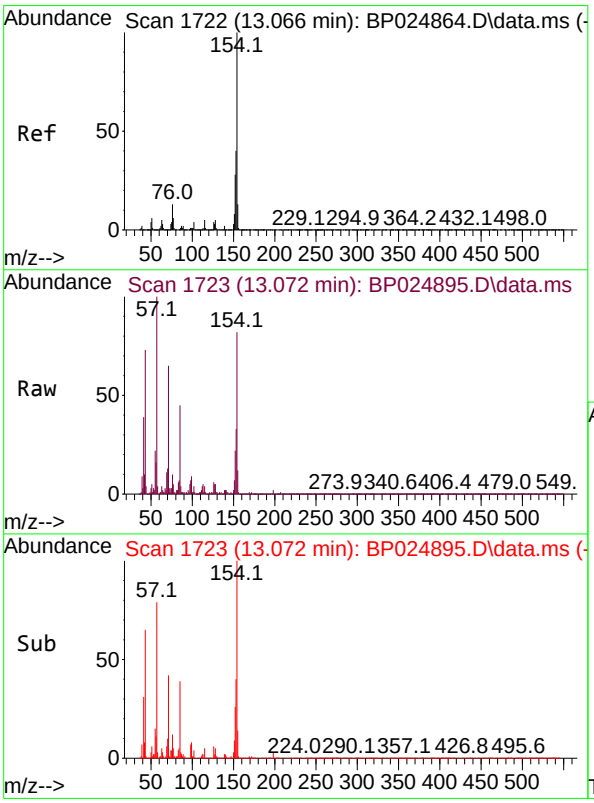

#45
2-Fluorobiphenyl
Concen: 59.259 ng
RT: 12.860 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Tgt Ion:172 Resp: 2956910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.3 | 28.3 | 42.5 |
| 170 | 23.6 | 19.0 | 28.4 |

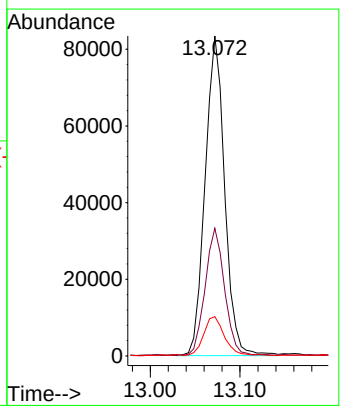


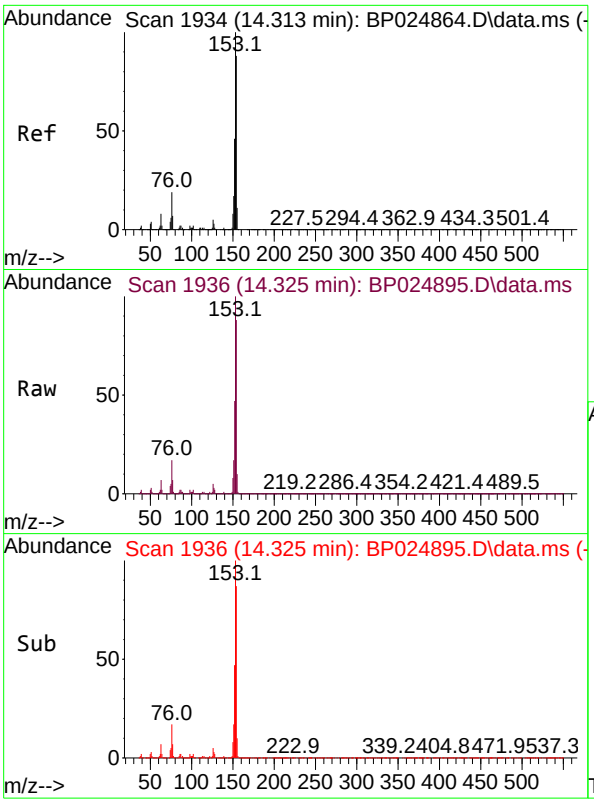




#46
1,1'-Biphenyl
Concen: 2.580 ng
RT: 13.072 min Scan# 1723
Delta R.T. 0.006 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

Tgt Ion:154 Resp: 126040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 39.9 | 20.3 | 60.3 |
| 76 | 12.3 | 0.0 | 33.0 |



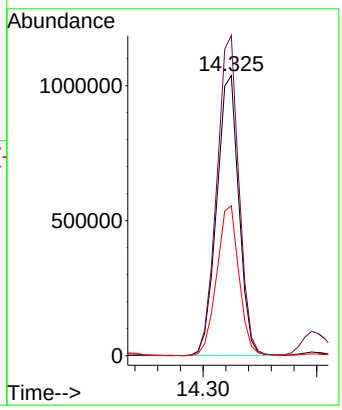


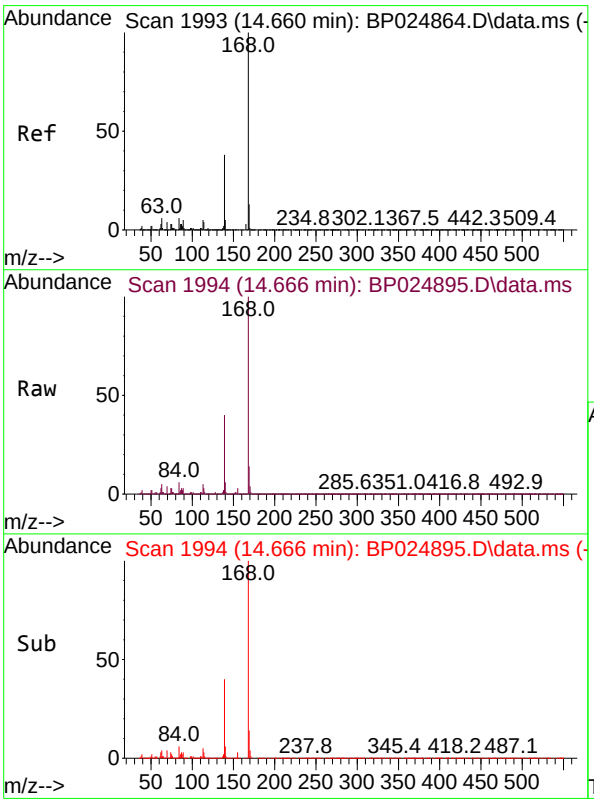

#52
Acenaphthene
Concen: 39.209 ng
RT: 14.325 min Scan# 1
Delta R.T. 0.012 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Tgt Ion:154 Resp: 1406501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.3 | 90.5 | 135.7 |
| 152 | 53.5 | 42.1 | 63.1 |

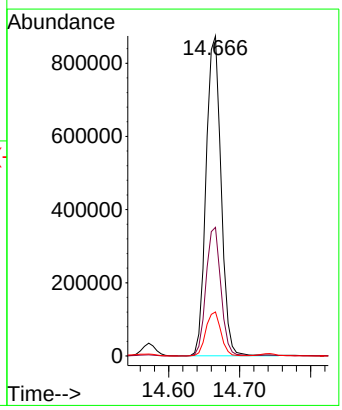


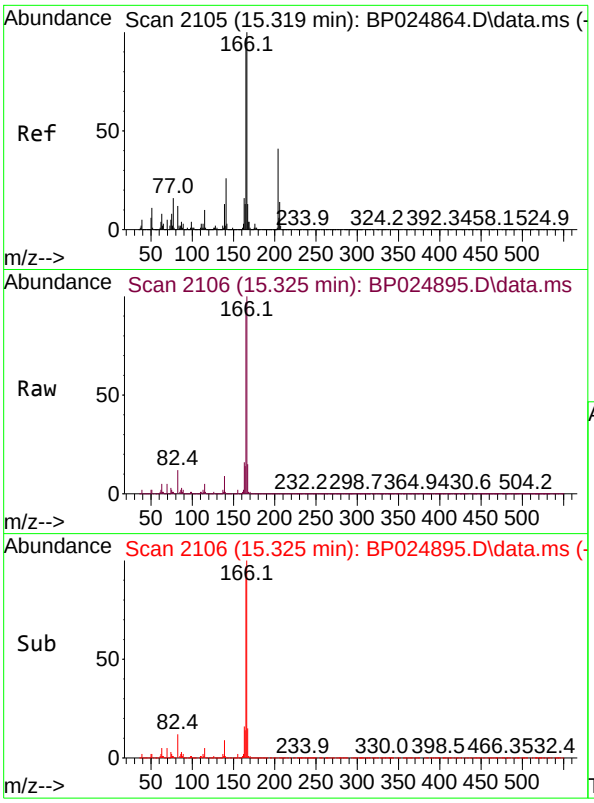




#55
Dibenzofuran
Concen: 22.250 ng
RT: 14.666 min Scan# 1994
Delta R.T. 0.006 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

Tgt Ion:168 Resp: 1281218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 40.2 | 31.6 | 47.4 |
| 169 | 13.8 | 10.6 | 15.8 |



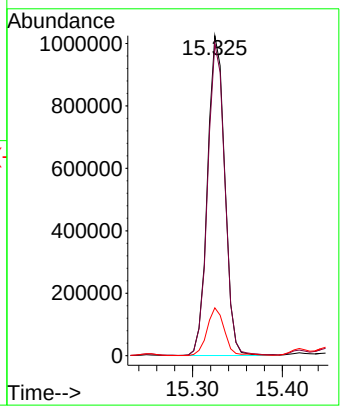


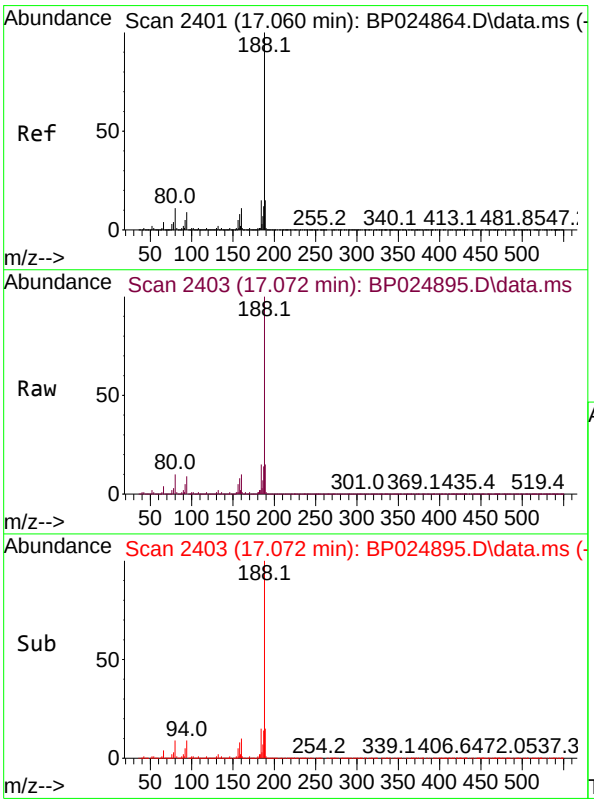

#58
Fluorene
Concen: 29.379 ng
RT: 15.325 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Tgt Ion:166 Resp: 1366591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.5 | 77.7 | 116.5 |
| 167 | 15.0 | 10.6 | 16.0 |

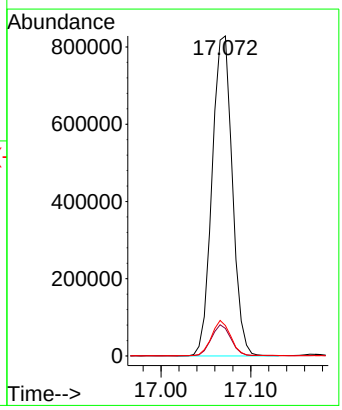


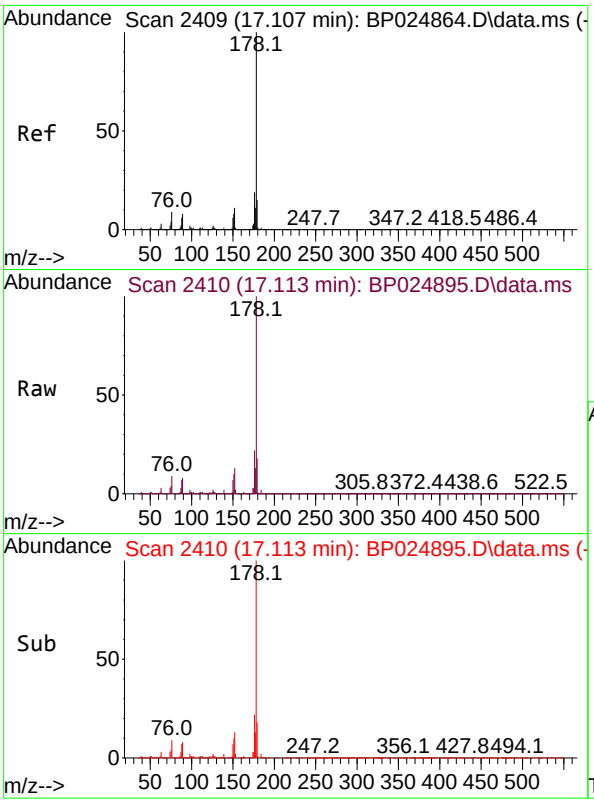




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.072 min Scan# 2403
Delta R.T. 0.012 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

Tgt Ion:188 Resp: 1296135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.6 | 7.3 | 10.9 |
| 80 | 9.5 | 8.5 | 12.7 |



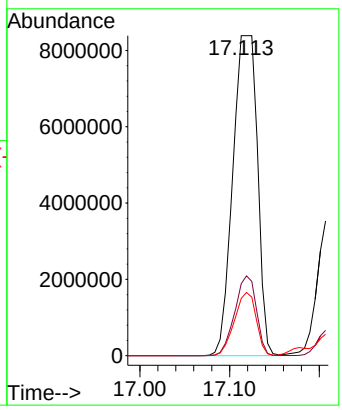


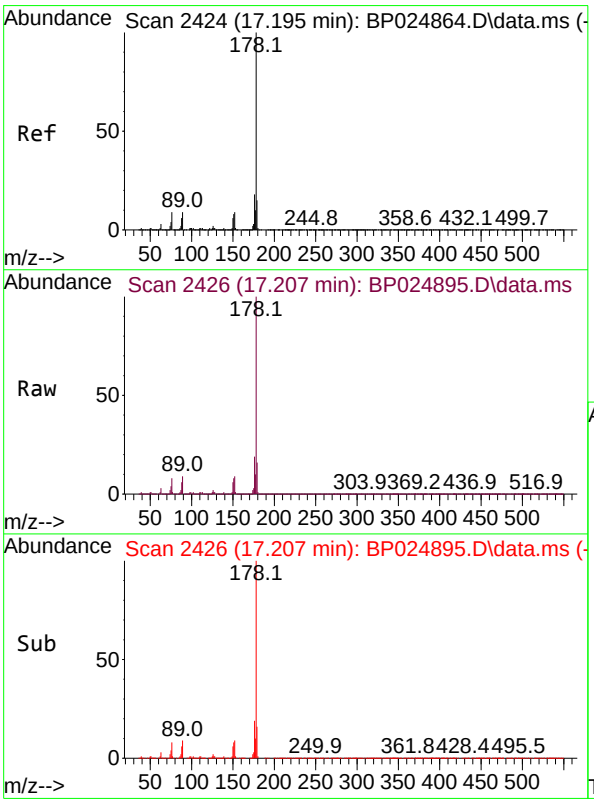

#71
Phenanthrene
Concen: 223.828 ng
RT: 17.113 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Tgt Ion:178 Resp:16031932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 22.5 | 15.3 | 22.9 |
| 179 | 17.9 | 12.1 | 18.1 |

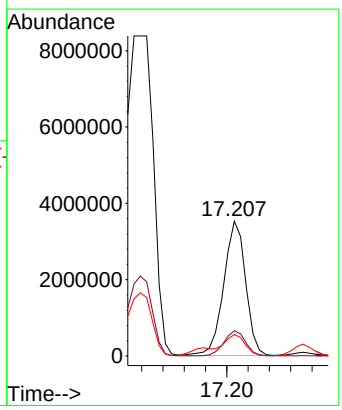


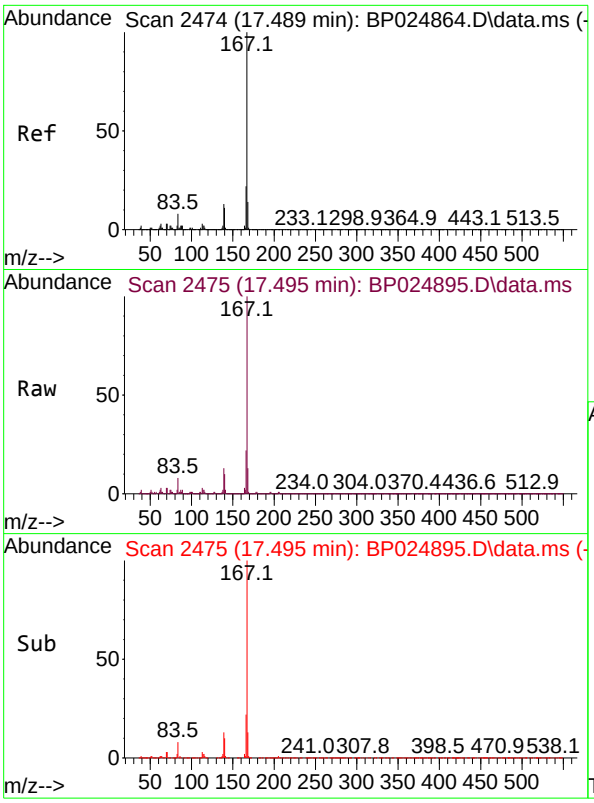




#72
Anthracene
Concen: 69.288 ng
RT: 17.207 min Scan# 2426
Delta R.T. 0.012 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

Tgt Ion:178 Resp: 5026222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 14.7 | 22.1 |
| 179 | 15.9 | 12.3 | 18.5 |



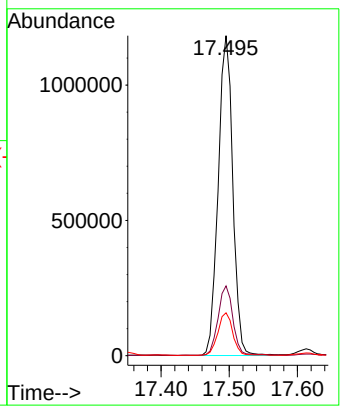


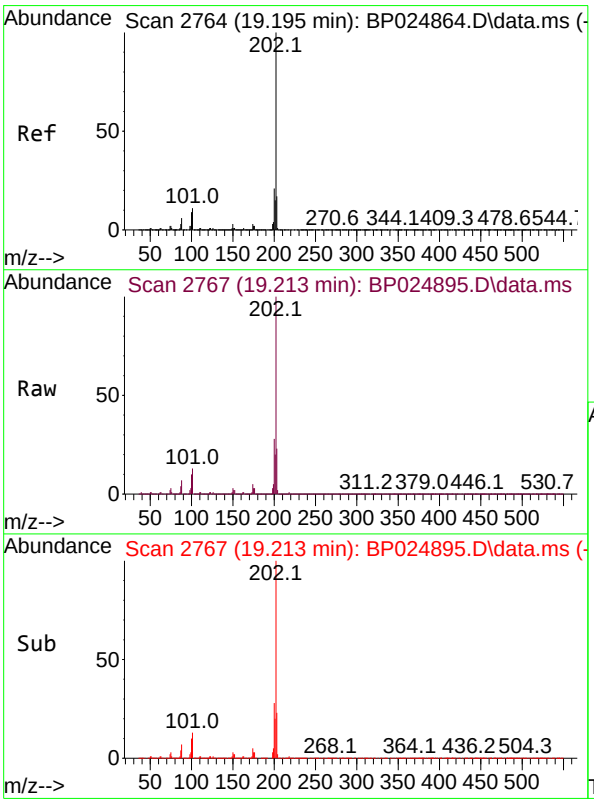

#73
Carbazole
Concen: 26.164 ng
RT: 17.495 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Tgt Ion:167 Resp: 1759204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.8 | 17.3 | 25.9 |
| 139 | 13.4 | 10.8 | 16.2 |

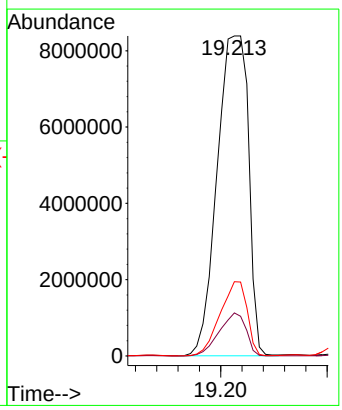


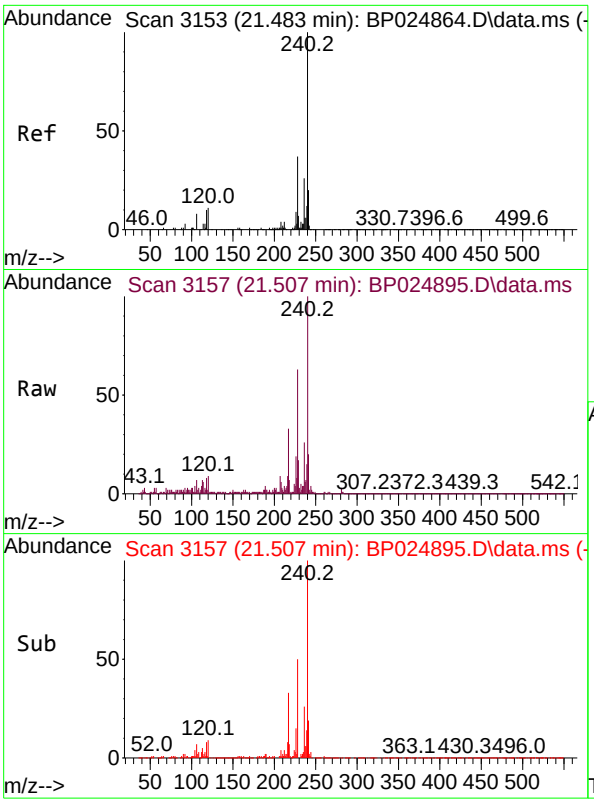




#75
Fluoranthene
Concen: 206.456 ng
RT: 19.213 min Scan# 2767
Delta R.T. 0.018 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

Tgt Ion:202 Resp:17139546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.5 | 0.0 | 31.4 |
| 203 | 23.2 | 0.0 | 37.5 |



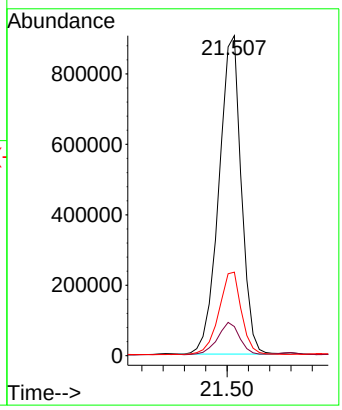


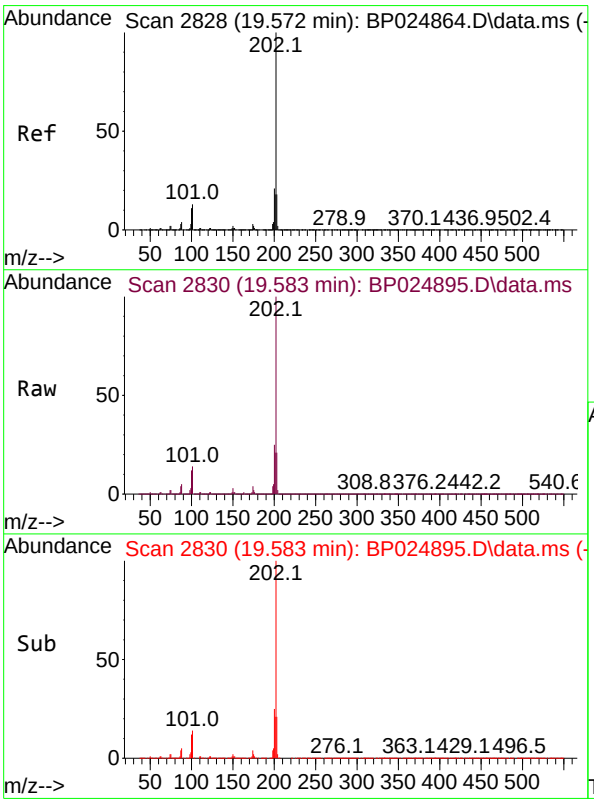

#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.507 min Scan# 3
Delta R.T. 0.023 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Tgt Ion:240 Resp: 1315798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.1 | 8.9 | 13.3 |
| 236 | 26.1 | 20.9 | 31.3 |

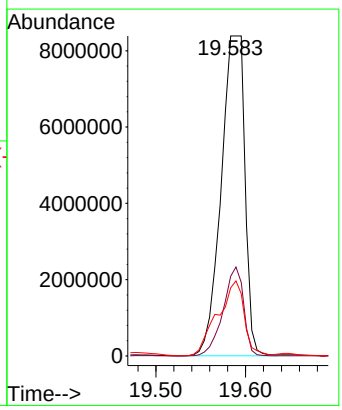


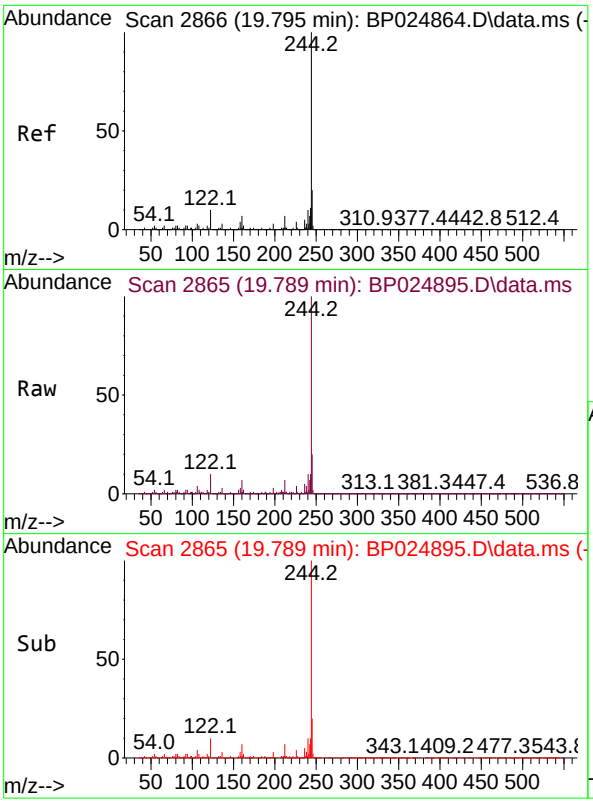




#78
Pyrene
Concen: 187.846 ng
RT: 19.583 min Scan# 2830
Delta R.T. 0.012 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

Tgt Ion:202 Resp:15441651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 24.9 | 17.1 | 25.7 |
| 203 | 21.3 | 14.0 | 21.0# |



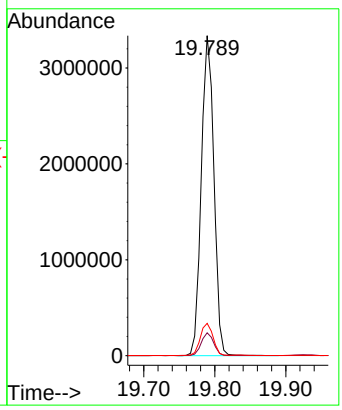


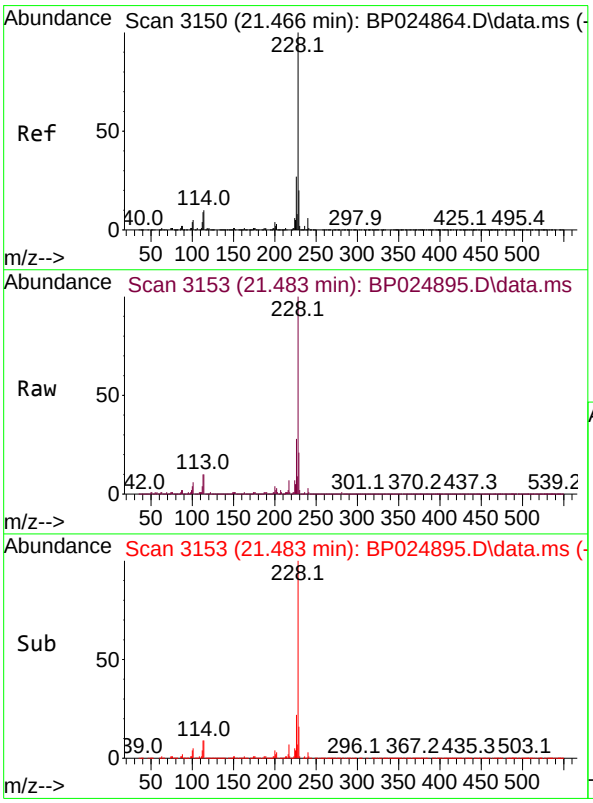

#79
Terphenyl-d14
Concen: 56.235 ng
RT: 19.789 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Tgt Ion:244 Resp: 4128556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.2 | 5.6 | 8.4 |
| 122 | 10.1 | 7.7 | 11.5 |

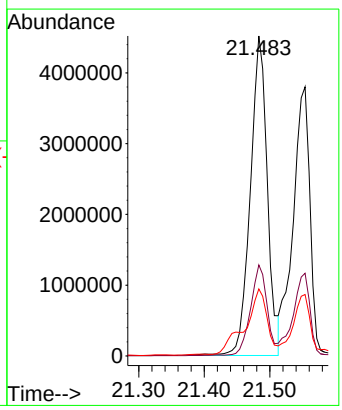


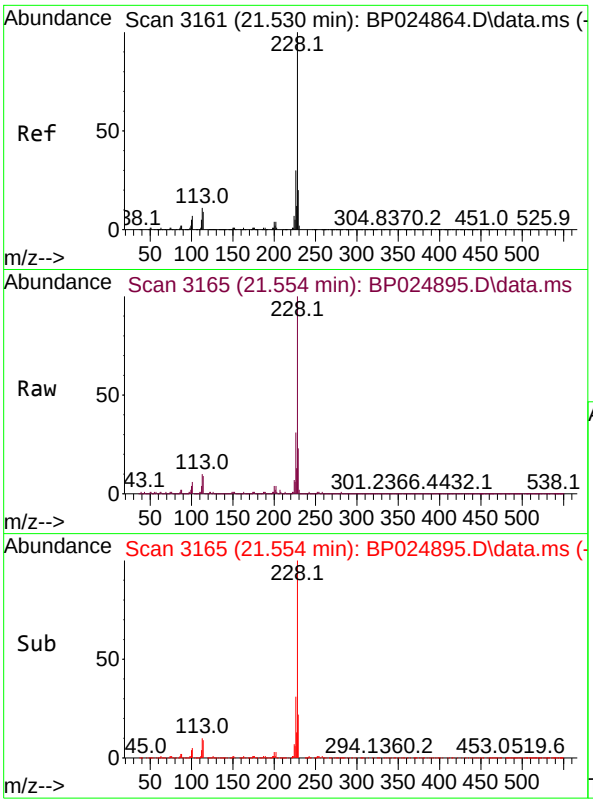




#81
Benzo(a)anthracene
Concen: 96.558 ng
RT: 21.483 min Scan# 3153
Delta R.T. 0.018 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

Tgt Ion:228 Resp: 8125938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.5 | 22.1 | 33.1 |
| 229 | 21.0 | 15.9 | 23.9 |



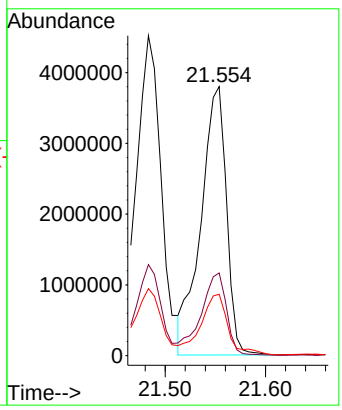


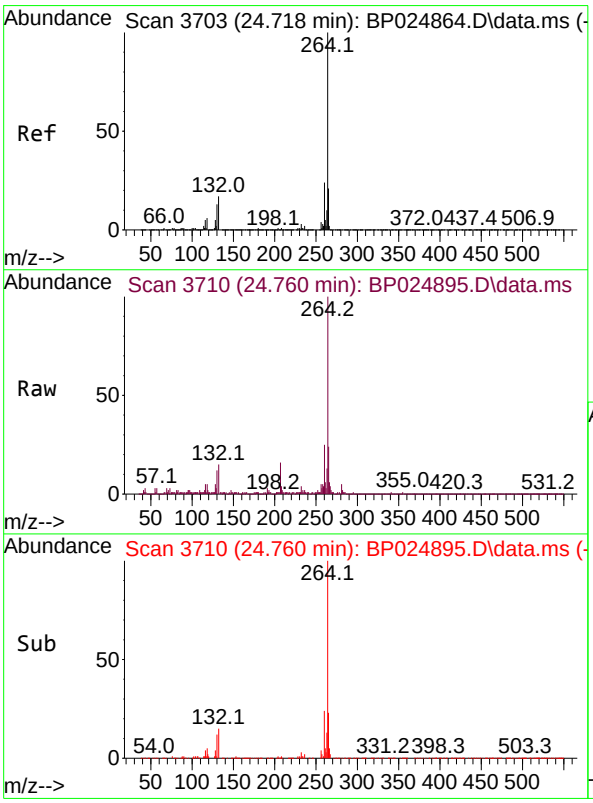

#83
Chrysene
Concen: 84.740 ng
RT: 21.554 min Scan# 3
Delta R.T. 0.023 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Tgt Ion:228 Resp: 6757136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.7 | 23.8 | 35.6 |
| 229 | 22.9 | 15.6 | 23.4 |

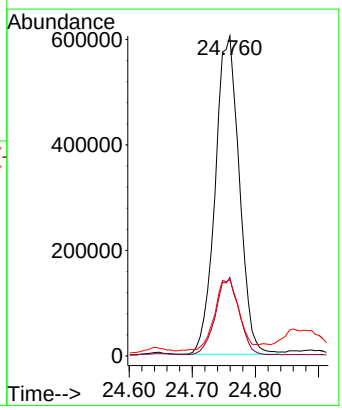


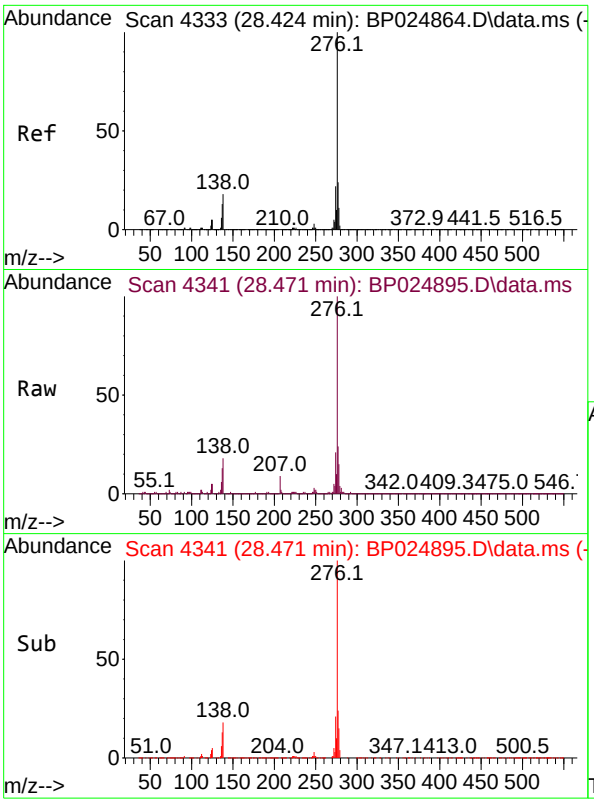




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.760 min Scan# 3710
Delta R.T. 0.041 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

Tgt Ion:264 Resp: 1598305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.5 | 19.0 | 28.4 |
| 265 | 23.8 | 17.4 | 26.0 |



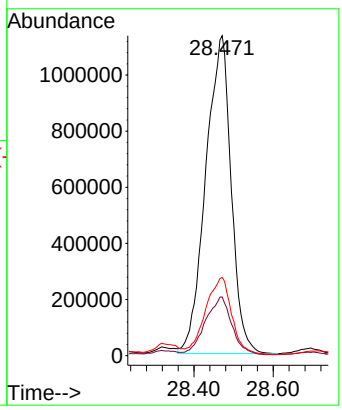


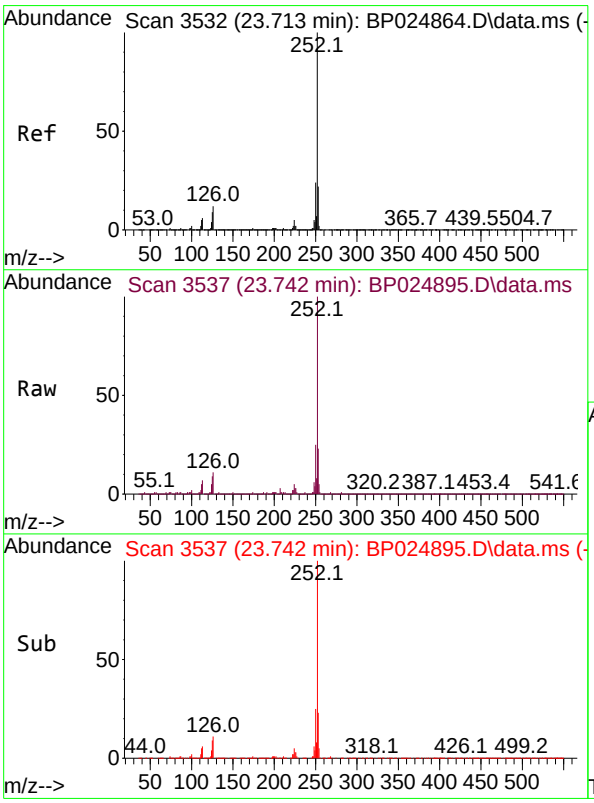

#87
Indeno(1,2,3-cd)pyrene
Concen: 43.300 ng
RT: 28.471 min Scan# 4
Delta R.T. 0.047 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Tgt Ion:276 Resp: 5049444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 18.9 | 18.6 | 27.8 |
| 277 | 25.0 | 20.2 | 30.4 |

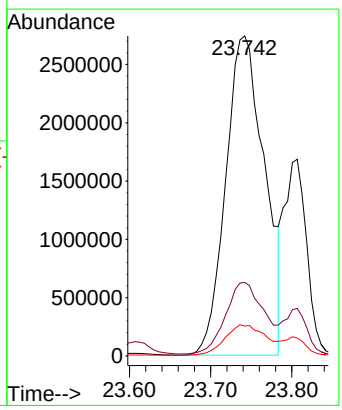


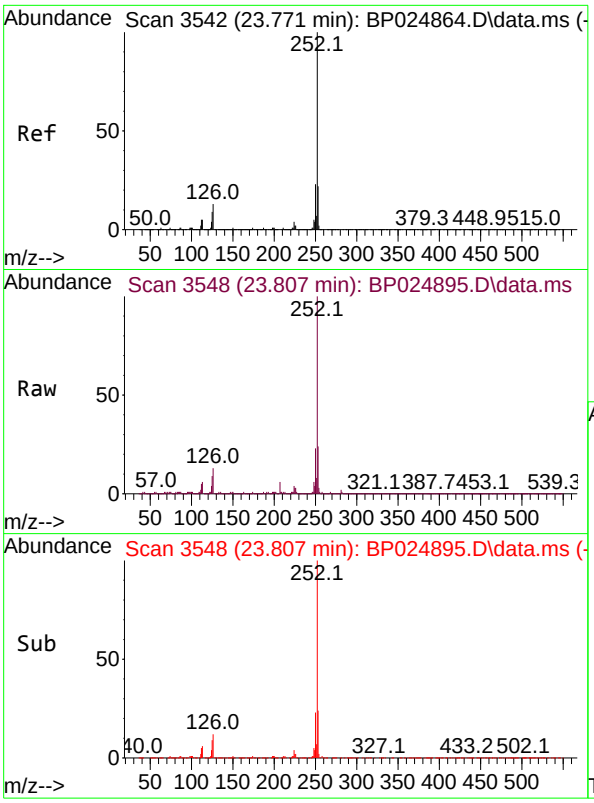




#88
Benzo(b)fluoranthene
Concen: 99.541 ng
RT: 23.742 min Scan# 3537
Delta R.T. 0.029 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

Tgt Ion:252 Resp: 9105161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.0 | 17.6 | 26.4 |
| 125 | 9.4 | 7.1 | 10.7 |



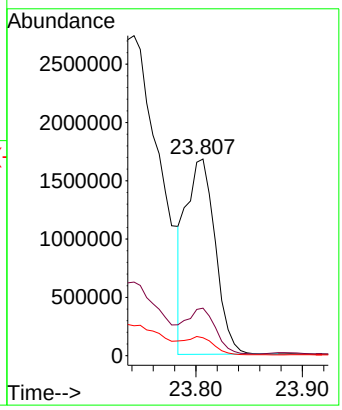


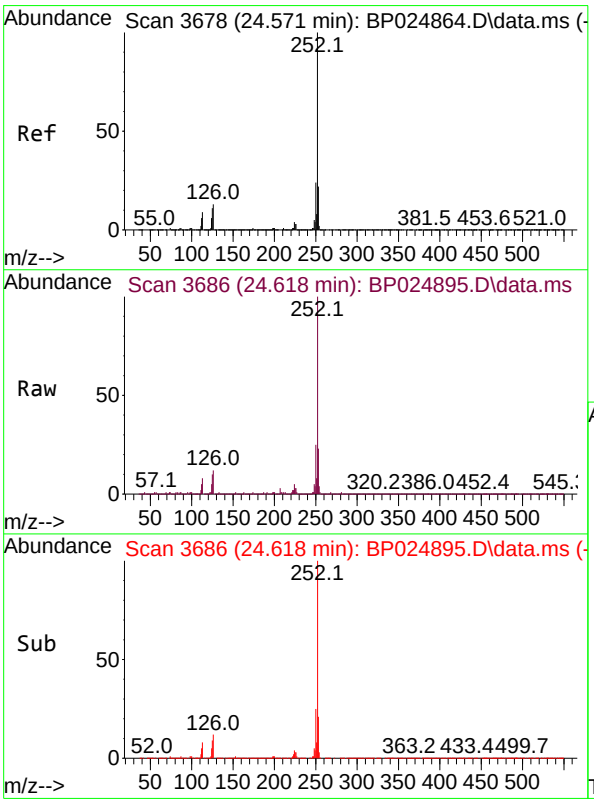

#89
Benzo(k)fluoranthene
Concen: 34.246 ng
RT: 23.807 min Scan# 3
Delta R.T. 0.035 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Tgt Ion:252 Resp: 3188599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.2 | 17.7 | 26.5 |
| 125 | 9.1 | 7.4 | 11.0 |

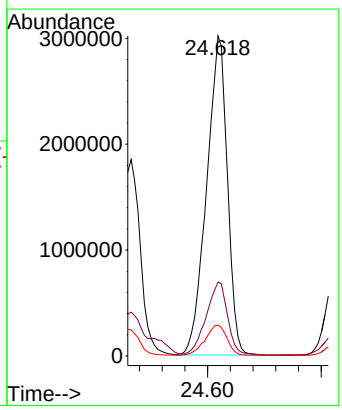


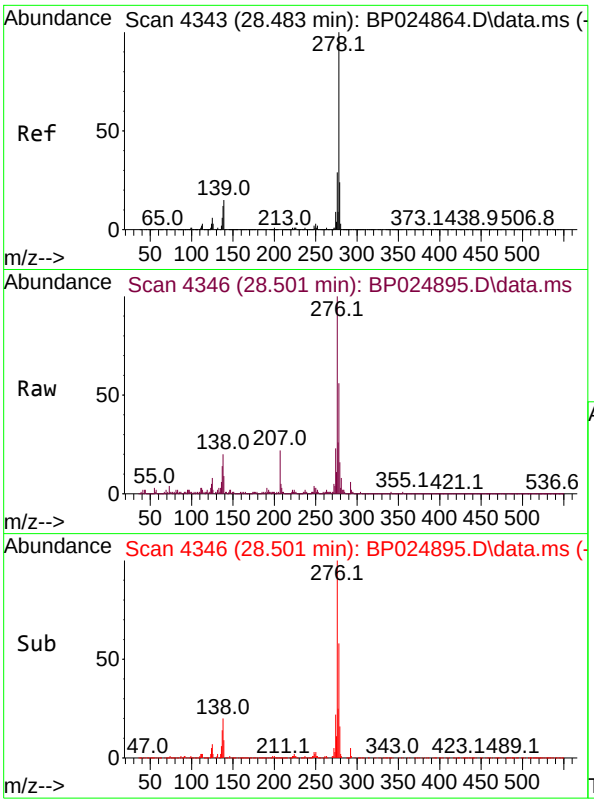




#90
Benzo(a)pyrene
Concen: 85.331 ng
RT: 24.618 min Scan# 3686
Delta R.T. 0.047 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

Tgt Ion:252 Resp: 7622631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.1 | 17.5 | 26.3 |
| 125 | 9.6 | 8.8 | 13.2 |



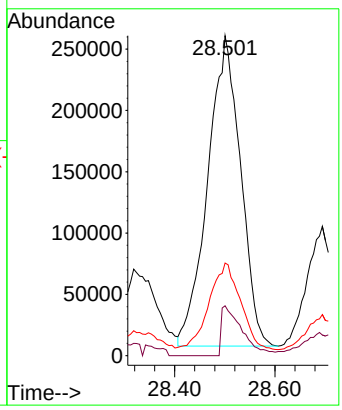


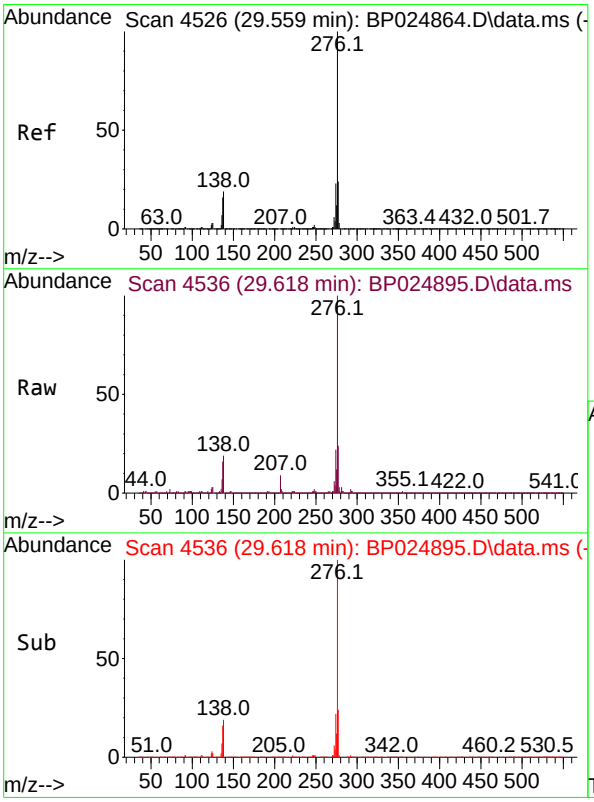

#91
Dibenzo(a,h)anthracene
Concen: 12.138 ng
RT: 28.501 min Scan# 4
Delta R.T. 0.018 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Tgt Ion:278 Resp: 1152183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 15.6 | 12.0 | 18.0 |
| 279 | 28.9 | 19.1 | 28.7# |

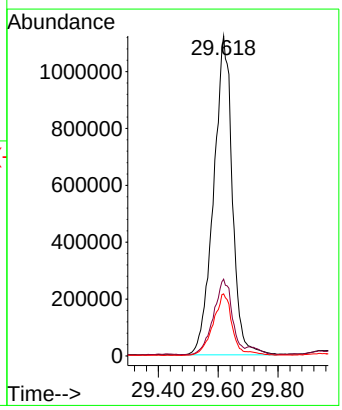



#92
Benzo(g,h,i)perylene
Concen: 51.675 ng
RT: 29.618 min Scan# 4536
Delta R.T. 0.059 min
Lab File: BP024895.D
Acq: 10 Jun 2025 15:46

Tgt Ion:276 Resp: 4866832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.0 | 19.1 | 28.7 |
| 138 | 19.4 | 15.4 | 23.2 |



Sample Results: **BP024895.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024895.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.772 | 306 | 312 | 321 | rBV | 344474 | 482252 | 1.06% | 0.104% |
| 2 | 5.237 | 385 | 391 | 412 | rBV | 3470538 | 5499794 | 12.07% | 1.188% |
| 3 | 6.813 | 653 | 659 | 682 | rVB | 3514733 | 5832274 | 12.80% | 1.260% |
| 4 | 7.607 | 783 | 794 | 802 | rBV | 943058 | 1513175 | 3.32% | 0.327% |
| 5 | 8.760 | 983 | 990 | 997 | rBV | 2287490 | 3778484 | 8.29% | 0.816% |
| 6 | 10.378 | 1254 | 1265 | 1270 | rBV2 | 1244172 | 2781535 | 6.10% | 0.601% |
| 7 | 10.431 | 1270 | 1274 | 1280 | rVB | 1097568 | 1712297 | 3.76% | 0.370% |
| 8 | 11.807 | 1499 | 1508 | 1515 | rBV | 991026 | 1568240 | 3.44% | 0.339% |
| 9 | 12.048 | 1539 | 1549 | 1555 | rVB2 | 425055 | 801228 | 1.76% | 0.173% |
| 10 | 12.272 | 1578 | 1587 | 1594 | rBV | 386663 | 692101 | 1.52% | 0.149% |
| 11 | 12.860 | 1680 | 1687 | 1697 | rVB | 5293763 | 8503041 | 18.66% | 1.837% |
| 12 | 13.066 | 1715 | 1722 | 1734 | rVB2 | 960972 | 1461430 | 3.21% | 0.316% |
| 13 | 13.572 | 1801 | 1808 | 1813 | rBV | 300675 | 596520 | 1.31% | 0.129% |
| 14 | 14.260 | 1916 | 1925 | 1930 | rBV | 1993884 | 3065673 | 6.73% | 0.662% |
| 15 | 14.325 | 1930 | 1936 | 1944 | rVV | 4203389 | 5855468 | 12.85% | 1.265% |
| 16 | 14.572 | 1970 | 1978 | 1983 | rBV | 290874 | 466186 | 1.02% | 0.101% |
| 17 | 14.666 | 1988 | 1994 | 2002 | rVV | 2048141 | 3134490 | 6.88% | 0.677% |
| 18 | 15.325 | 2100 | 2106 | 2111 | rBV | 3393361 | 4583751 | 10.06% | 0.990% |
| 19 | 15.448 | 2124 | 2127 | 2130 | rVV | 324981 | 499606 | 1.10% | 0.108% |
| 20 | 15.489 | 2130 | 2134 | 2139 | rVB | 402089 | 615709 | 1.35% | 0.133% |
| 21 | 15.642 | 2153 | 2160 | 2167 | rVB2 | 1053251 | 2438834 | 5.35% | 0.527% |
| 22 | 15.784 | 2173 | 2184 | 2191 | rBV | 5324062 | 8962708 | 19.67% | 1.936% |
| 23 | 16.354 | 2269 | 2281 | 2286 | rBV3 | 601158 | 1538439 | 3.38% | 0.332% |
| 24 | 16.719 | 2338 | 2343 | 2349 | rVB | 712492 | 1006045 | 2.21% | 0.217% |
| 25 | 16.801 | 2350 | 2357 | 2363 | rVV3 | 357395 | 936661 | 2.06% | 0.202% |
| 26 | 16.878 | 2364 | 2370 | 2380 | rVB | 1648075 | 2658372 | 5.83% | 0.574% |
| 27 | 17.066 | 2397 | 2402 | 2405 | rBV | 2036730 | 3193754 | 7.01% | 0.690% |
| 28 | 17.119 | 2405 | 2411 | 2417 | rVV | 24701911 | 42068695 | 92.32% | 9.087% |
| 29 | 17.207 | 2417 | 2426 | 2432 | rVV | 8156157 | 12182143 | 26.73% | 2.631% |
| 30 | 17.272 | 2432 | 2437 | 2442 | rVB | 790441 | 1095872 | 2.40% | 0.237% |
| 31 | 17.495 | 2465 | 2475 | 2488 | rVB2 | 2694080 | 5166772 | 11.34% | 1.116% |
| 32 | 17.601 | 2488 | 2493 | 2500 | rBV3 | 621182 | 1139987 | 2.50% | 0.246% |
| 33 | 17.683 | 2500 | 2507 | 2512 | rVV4 | 260082 | 641363 | 1.41% | 0.139% |
| 34 | 17.754 | 2513 | 2519 | 2525 | rVV5 | 334272 | 700579 | 1.54% | 0.151% |
| 35 | 17.966 | 2549 | 2555 | 2559 | rBV | 2375918 | 3271275 | 7.18% | 0.707% |
| 36 | 18.013 | 2559 | 2563 | 2571 | rVV | 3652037 | 5433463 | 11.92% | 1.174% |

Sample Results: **BP024895.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 18.107 | 2573 | 2579 | 2584 | rVB | 1276367 | 2040172 | 4.48% | 0.441% |
| 38 | 18.172 | 2584 | 2590 | 2595 | rBV2 | 3740687 | 7012345 | 15.39% | 1.515% |
| 39 | 18.213 | 2595 | 2597 | 2605 | rVB | 1523615 | 1720787 | 3.78% | 0.372% |
| 40 | 18.289 | 2606 | 2610 | 2614 | rBV2 | 363207 | 559362 | 1.23% | 0.121% |
| 41 | 18.489 | 2640 | 2644 | 2649 | rVV | 2226236 | 3025889 | 6.64% | 0.654% |
| 42 | 18.542 | 2649 | 2653 | 2659 | rVV | 1108467 | 1680544 | 3.69% | 0.363% |
| 43 | 18.742 | 2683 | 2687 | 2693 | rVB2 | 434740 | 710985 | 1.56% | 0.154% |
| 44 | 18.842 | 2700 | 2704 | 2708 | rVB2 | 405660 | 527333 | 1.16% | 0.114% |
| 45 | 18.925 | 2713 | 2718 | 2722 | rBV | 791090 | 1411823 | 3.10% | 0.305% |
| 46 | 19.072 | 2738 | 2743 | 2751 | rVB3 | 652399 | 1500260 | 3.29% | 0.324% |
| 47 | 19.213 | 2759 | 2767 | 2772 | rBV | 24097695 | 43219412 | 94.84% | 9.335% |
| 48 | 19.301 | 2779 | 2782 | 2786 | rVV | 670129 | 875938 | 1.92% | 0.189% |
| 49 | 19.342 | 2786 | 2789 | 2795 | rVB3 | 243691 | 465339 | 1.02% | 0.101% |
| 50 | 19.448 | 2802 | 2807 | 2811 | rBV2 | 1050523 | 1416867 | 3.11% | 0.306% |
| 51 | 19.589 | 2820 | 2831 | 2838 | rBV2 | 23513390 | 45569958 | 100.00% | 9.843% |
| 52 | 19.648 | 2838 | 2841 | 2849 | rVB3 | 1169056 | 1836153 | 4.03% | 0.397% |
| 53 | 19.789 | 2856 | 2865 | 2869 | rBV2 | 9062416 | 13511211 | 29.65% | 2.918% |
| 54 | 19.836 | 2869 | 2873 | 2880 | rVB | 1513398 | 2357938 | 5.17% | 0.509% |
| 55 | 19.919 | 2881 | 2887 | 2893 | rBV4 | 1259557 | 3133860 | 6.88% | 0.677% |
| 56 | 19.972 | 2893 | 2896 | 2900 | rVV | 576023 | 757147 | 1.66% | 0.164% |
| 57 | 20.054 | 2905 | 2910 | 2912 | rVV4 | 1085428 | 1836416 | 4.03% | 0.397% |
| 58 | 20.095 | 2913 | 2917 | 2921 | rVB | 2846175 | 4126911 | 9.06% | 0.891% |
| 59 | 20.201 | 2931 | 2935 | 2939 | rBV | 2736876 | 3317185 | 7.28% | 0.716% |
| 60 | 20.260 | 2939 | 2945 | 2949 | rVV2 | 1639096 | 3283302 | 7.20% | 0.709% |
| 61 | 20.295 | 2949 | 2951 | 2955 | rVB | 721993 | 705521 | 1.55% | 0.152% |
| 62 | 20.342 | 2956 | 2959 | 2964 | rVB3 | 361336 | 482360 | 1.06% | 0.104% |
| 63 | 20.401 | 2965 | 2969 | 2973 | rBV | 865616 | 1218168 | 2.67% | 0.263% |
| 64 | 20.448 | 2973 | 2977 | 2982 | rBV3 | 1200214 | 1783852 | 3.91% | 0.385% |
| 65 | 20.748 | 3025 | 3028 | 3032 | rVB2 | 481227 | 644709 | 1.41% | 0.139% |
| 66 | 20.836 | 3040 | 3043 | 3047 | rBV2 | 452490 | 696067 | 1.53% | 0.150% |
| 67 | 20.883 | 3048 | 3051 | 3057 | rVB | 911293 | 1374381 | 3.02% | 0.297% |
| 68 | 21.066 | 3077 | 3082 | 3085 | rBV | 1431821 | 1984114 | 4.35% | 0.429% |
| 69 | 21.113 | 3086 | 3090 | 3093 | rVV | 1691600 | 2245964 | 4.93% | 0.485% |
| 70 | 21.160 | 3093 | 3098 | 3104 | rVV2 | 1298470 | 3240499 | 7.11% | 0.700% |
| 71 | 21.483 | 3143 | 3153 | 3160 | rBV3 | 12110306 | 27662215 | 60.70% | 5.975% |
| 72 | 21.554 | 3160 | 3165 | 3176 | rVB | 10049534 | 17119915 | 37.57% | 3.698% |
| 73 | 21.695 | 3184 | 3189 | 3193 | rBV | 2293495 | 3594586 | 7.89% | 0.776% |
| 74 | 21.848 | 3213 | 3215 | 3220 | rVB | 752213 | 1016824 | 2.23% | 0.220% |
| 75 | 21.919 | 3221 | 3227 | 3233 | rVB2 | 1206823 | 2493383 | 5.47% | 0.539% |
| 76 | 22.242 | 3278 | 3282 | 3287 | rVB | 1330847 | 2243672 | 4.92% | 0.485% |

Sample Results: **BP024895.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 22.313 | 3290 | 3294 | 3300 | rVB | 588569 | 878136 | 1.93% | 0.190% |
| 78 | 22.442 | 3313 | 3316 | 3322 | rVB3 | 517905 | 892822 | 1.96% | 0.193% |
| 79 | 22.507 | 3323 | 3327 | 3331 | rVV | 728460 | 1215000 | 2.67% | 0.262% |
| 80 | 22.554 | 3331 | 3335 | 3343 | rVB3 | 799948 | 1570805 | 3.45% | 0.339% |
| 81 | 23.360 | 3468 | 3472 | 3480 | rVB2 | 530475 | 984699 | 2.16% | 0.213% |
| 82 | 23.736 | 3527 | 3536 | 3543 | rBV | 6707874 | 21210866 | 46.55% | 4.581% |
| 83 | 23.801 | 3545 | 3547 | 3554 | rVB | 3962402 | 6201579 | 13.61% | 1.339% |
| 84 | 23.989 | 3572 | 3579 | 3587 | rVB | 1503725 | 3340090 | 7.33% | 0.721% |
| 85 | 24.465 | 3652 | 3660 | 3674 | rVB | 4665825 | 12871334 | 28.25% | 2.780% |
| 86 | 24.618 | 3676 | 3686 | 3696 | rVB | 7559856 | 19420885 | 42.62% | 4.195% |
| 87 | 24.748 | 3703 | 3708 | 3716 | rBV2 | 1331875 | 3453802 | 7.58% | 0.746% |
| 88 | 24.830 | 3716 | 3722 | 3737 | rVB | 2054149 | 6137463 | 13.47% | 1.326% |
| 89 | 28.471 | 4329 | 4341 | 4360 | rVB2 | 2961582 | 13683609 | 30.03% | 2.956% |
| 90 | 29.618 | 4524 | 4536 | 4548 | rVB | 2632344 | 10320509 | 22.65% | 2.229% |
| 91 | 30.195 | 4632 | 4634 | 4640 | rBV2 | 287919 | 514329 | 1.13% | 0.111% |

Sum of corrected areas: 462977511

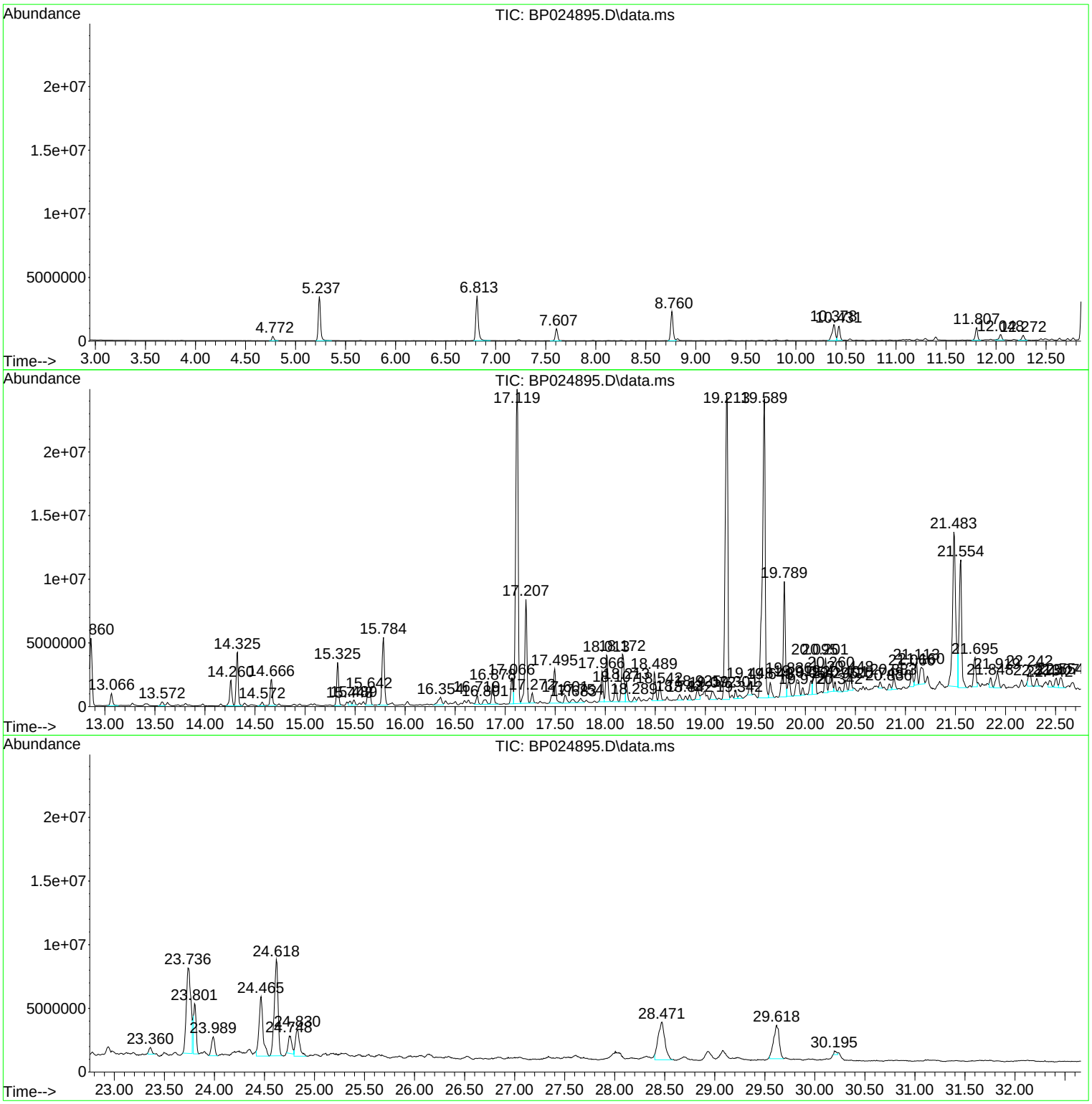
Sample Results: **BP024895.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.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_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

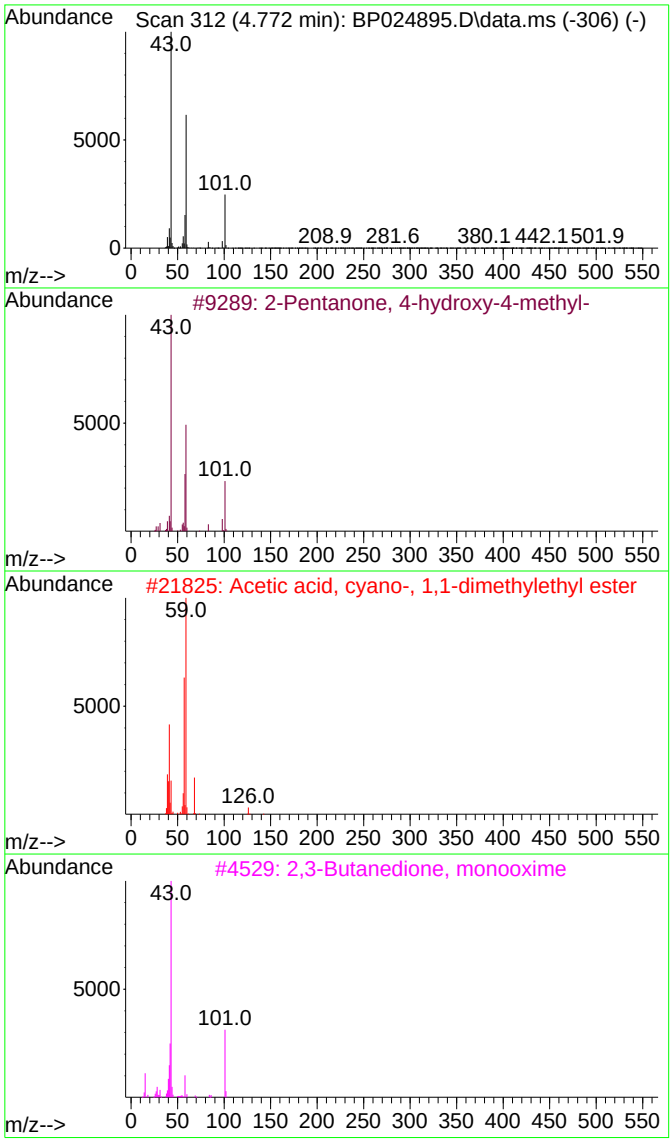
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TIC Integration Parameters: LSCINT.P

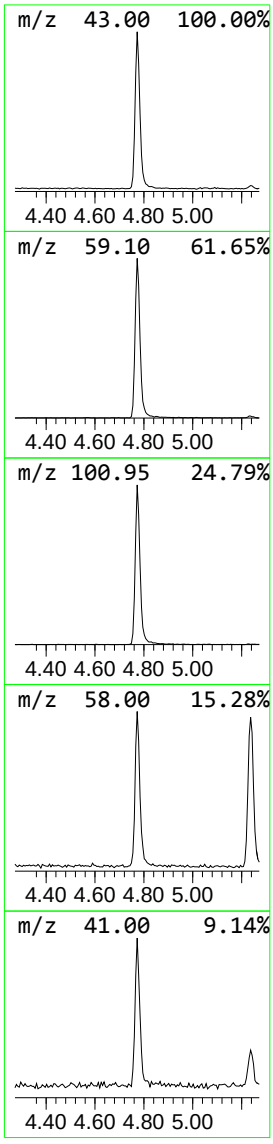
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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.772 | 6.37 ng | 482252 | 1,4-Dichlorobenzene-d4 | 7.607 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 72 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 17 |
| 4 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 10 |
| 5 | (+-)-4-Amino-4,5-dihydro-2(3H)-f... | 101 | C4H7NO2 | 016504-58-8 | 9 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

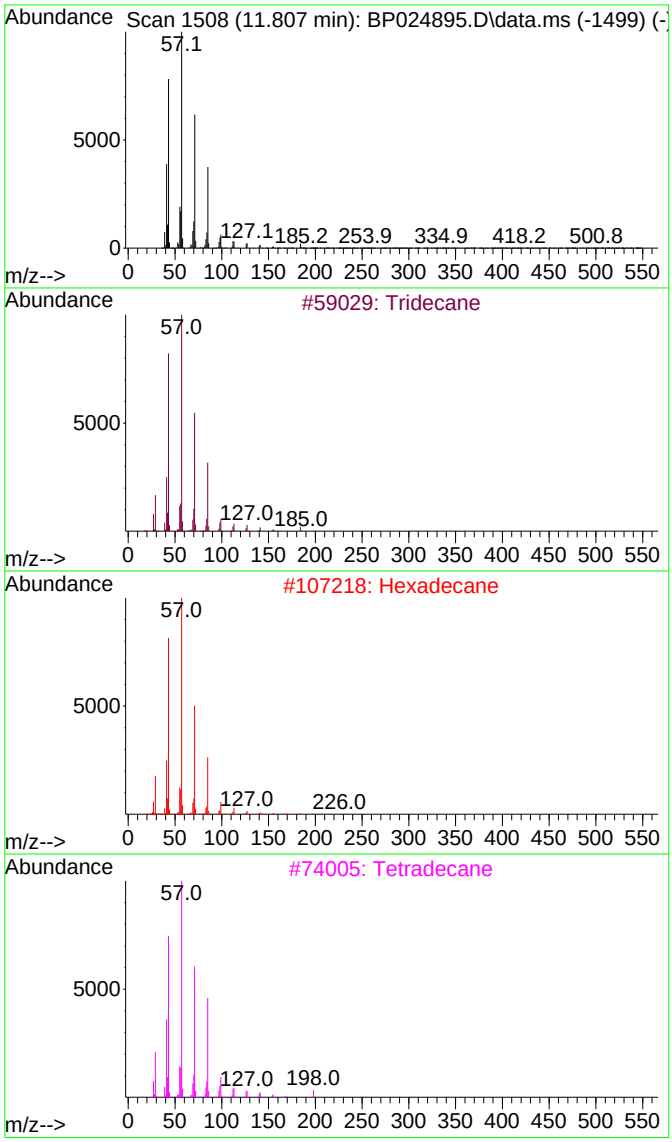
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TIC Integration Parameters: LSCINT.P

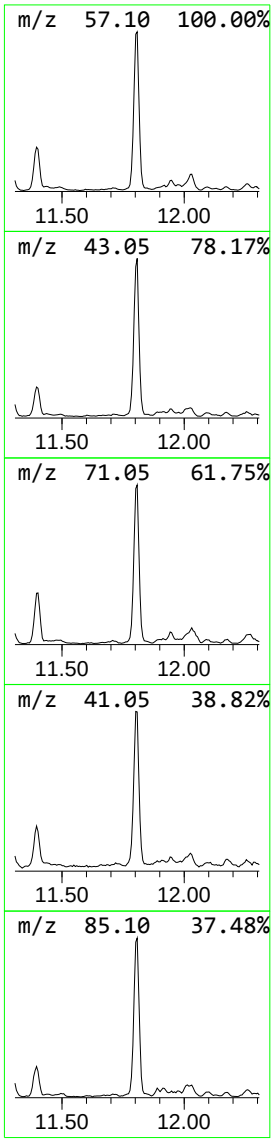
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Peak Number 2 Tridecane Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.807 | 11.28 ng | 1568240 | Naphthalene-d8 | 10.378 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 94 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 3 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 90 |
| 5 | Dodecane | 170 | C12H26 | 000112-40-3 | 72 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

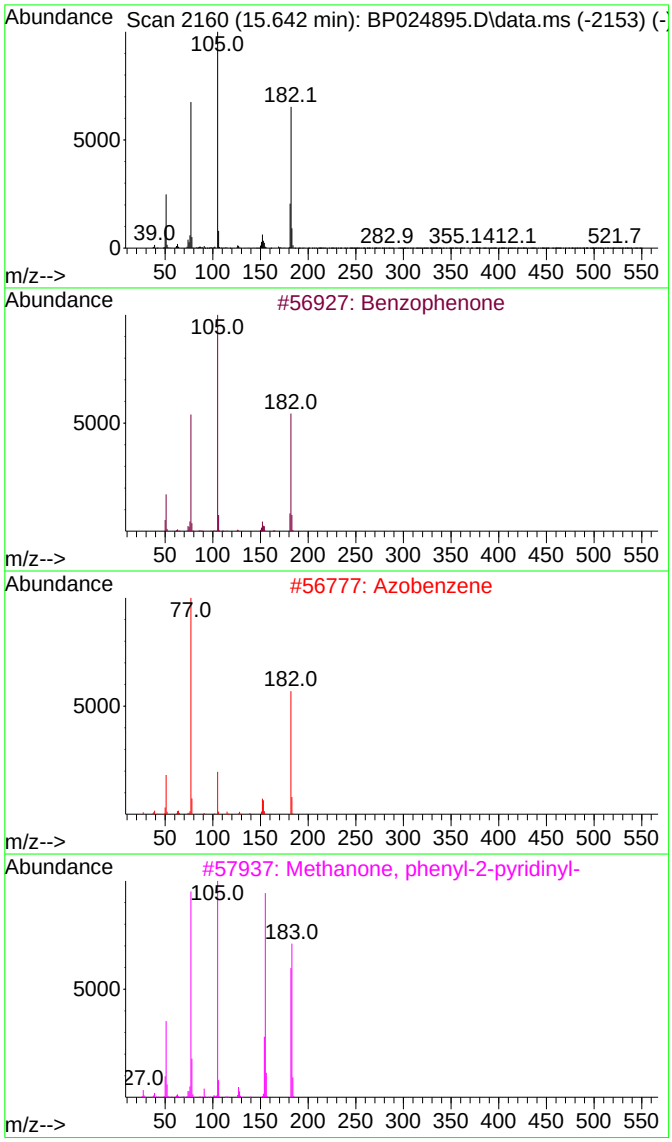
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

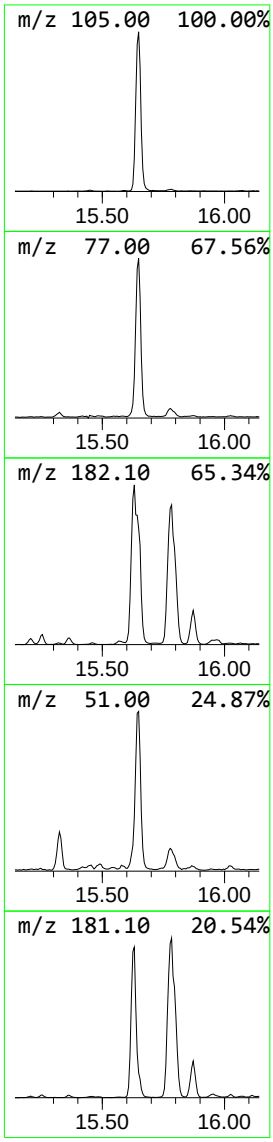
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Peak Number 3 Benzophenone Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.642 | 15.91 ng | 2438830 | Acenaphthene-d10 | 14.260 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 95 |
| 2 | Azobenzene | 182 | C12H10N2 | 000103-33-3 | 52 |
| 3 | Methanone, phenyl-2-pyridinyl- | 183 | C12H9NO | 000091-02-1 | 45 |
| 4 | 1,1'-Biphenyl, 3,4'-dimethyl- | 182 | C14H14 | 007383-90-6 | 43 |
| 5 | 4,4'-Dimethylbiphenyl | 182 | C14H14 | 000613-33-2 | 38 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

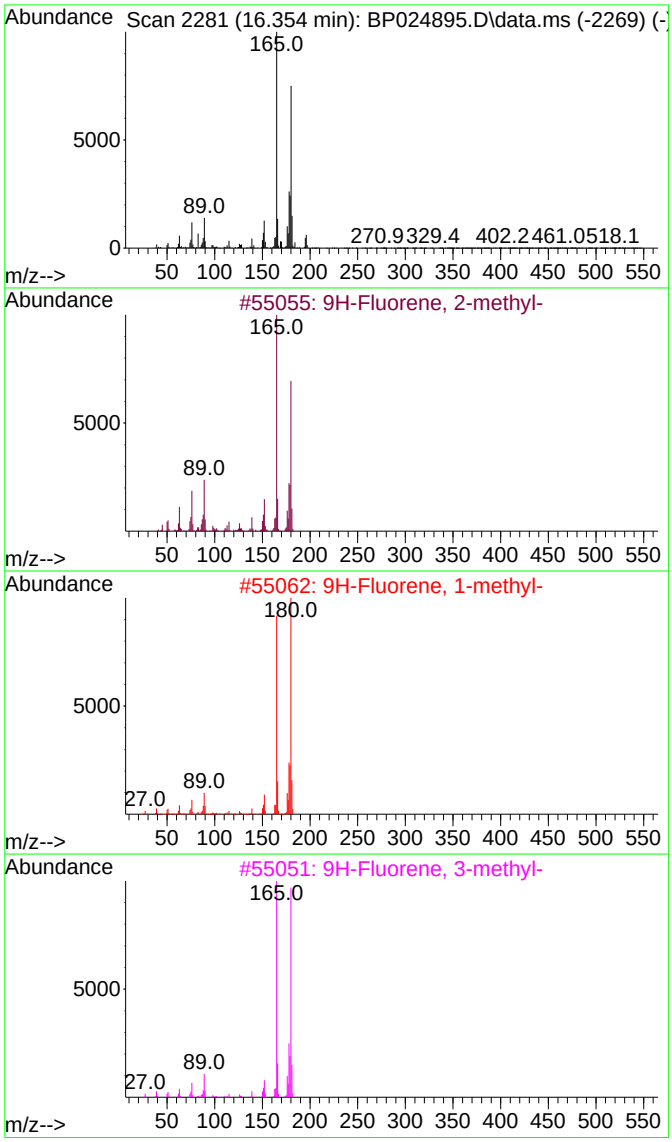
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

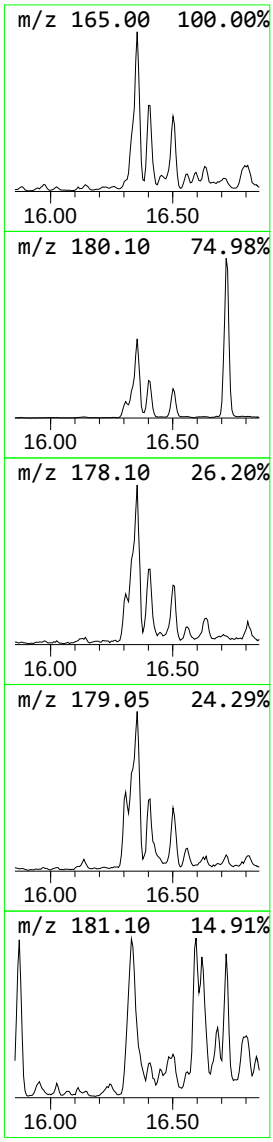
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Peak Number 4 9H-Fluorene, 2-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.354 | 9.63 ng | 1538440 | Phenanthrene-d10 | 17.072 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 97 |
| 2 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 96 |
| 3 | 9H-Fluorene, 3-methyl- | 180 | C14H12 | 002523-39-9 | 94 |
| 4 | 9H-Fluorene, 9-methyl- | 180 | C14H12 | 002523-37-7 | 93 |
| 5 | 4a,9a-Methano-9H-fluorene | 180 | C14H12 | 019540-84-2 | 93 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

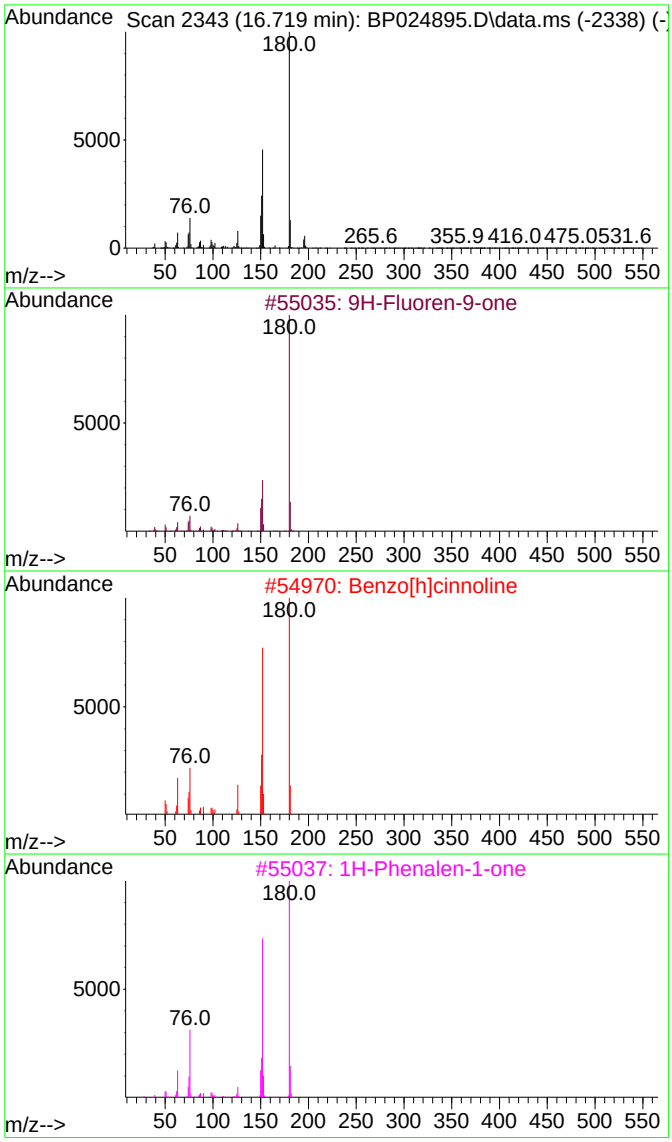
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TIC Integration Parameters: LSCINT.P

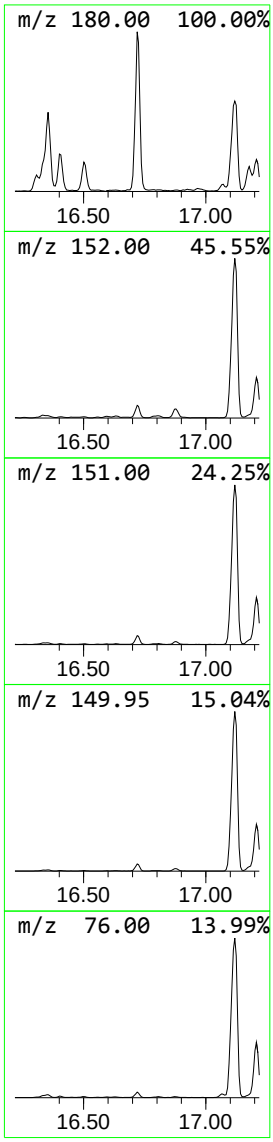
**********

Peak Number 5 9H-Fluoren-9-one Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.719 | 6.30 ng | 1006050 | Phenanthrene-d10 | 17.072 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 96 |
| 2 | Benzo[h]cinnoline | 180 | C12H8N2 | 000230-31-9 | 87 |
| 3 | 1H-Phenalen-1-one | 180 | C13H8O | 000548-39-0 | 58 |
| 4 | Phenanthrene, 9,10-dihydro- | 180 | C14H12 | 000776-35-2 | 50 |
| 5 | 7-Nitro-3H-imidazo[4,5-b]pyridin... | 180 | C6H4N4O3 | 014432-11-2 | 43 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
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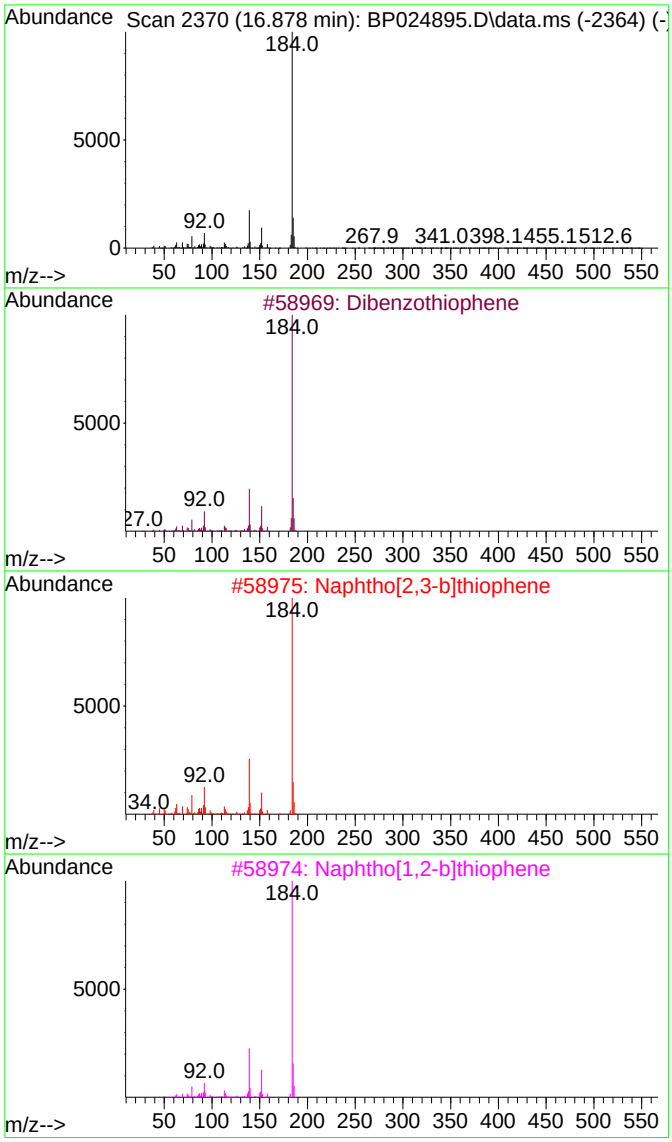
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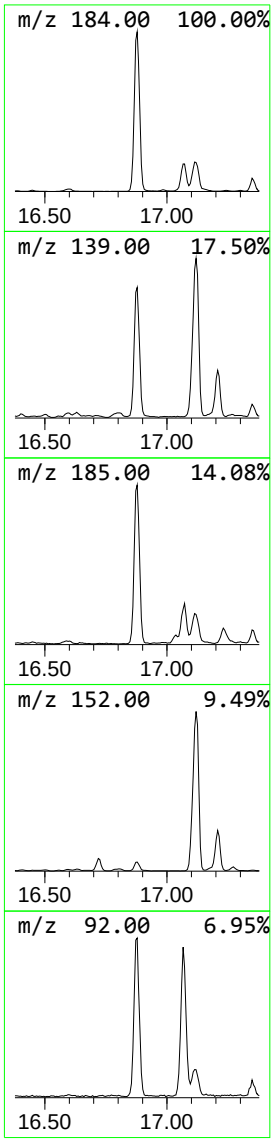
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Peak Number 6 Dibenzothiophene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.878 | 16.65 ng | 2658370 | Phenanthrene-d10 | 17.072 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 97 |
| 2 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 97 |
| 3 | Naphtho[1,2-b]thiophene | 184 | C12H8S | 000234-41-3 | 96 |
| 4 | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 96 |
| 5 | Azuleno(2,1-b)thiophene | 184 | C12H8S | 000248-13-5 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

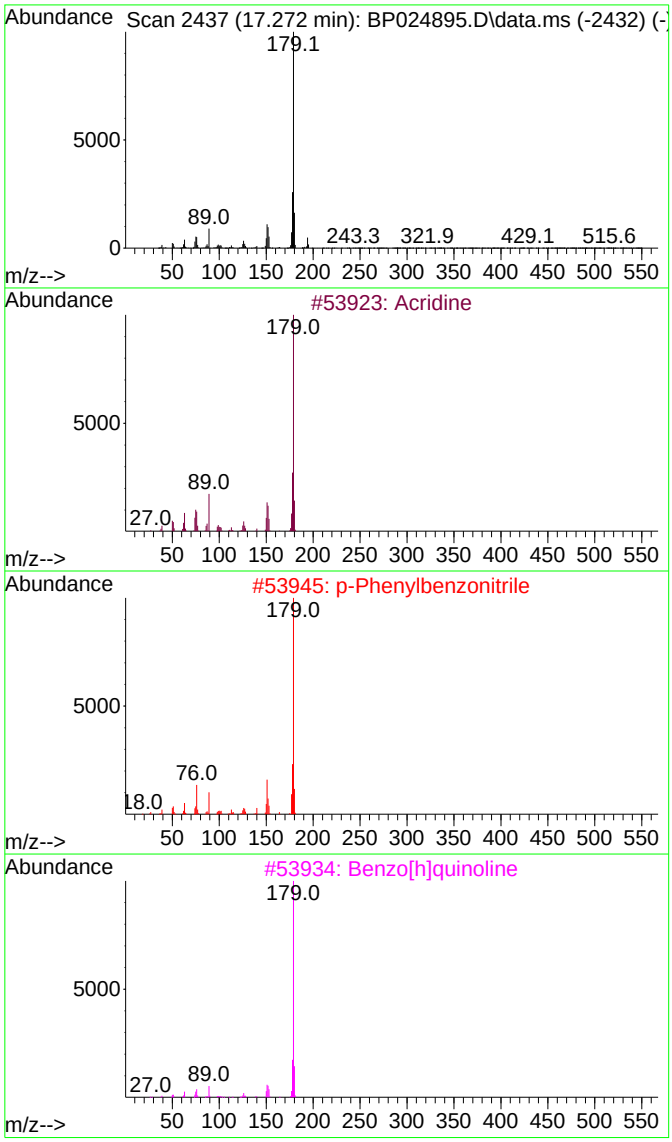
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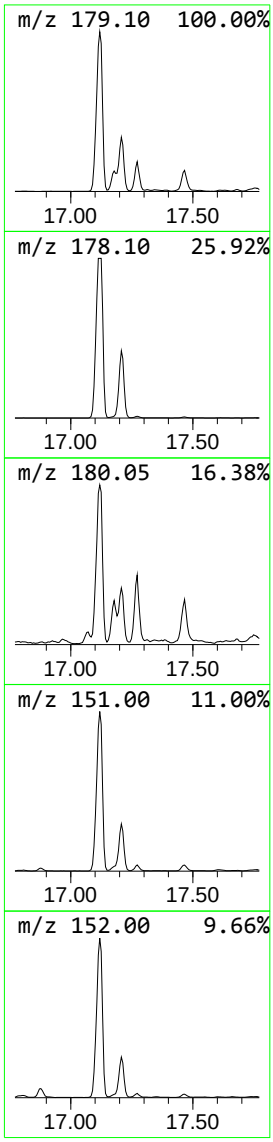
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Peak Number 7 Acridine Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.272 | 6.86 ng | 1095870 | Phenanthrene-d10 | 17.072 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acridine | 179 | C13H9N | 000260-94-6 | 97 |
| 2 | p-Phenylbenzonitrile | 179 | C13H9N | 002920-38-9 | 95 |
| 3 | Benzo[h]quinoline | 179 | C13H9N | 000230-27-3 | 94 |
| 4 | Phenanthridine | 179 | C13H9N | 000229-87-8 | 93 |
| 5 | Benzo[f]quinoline | 179 | C13H9N | 000085-02-9 | 93 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

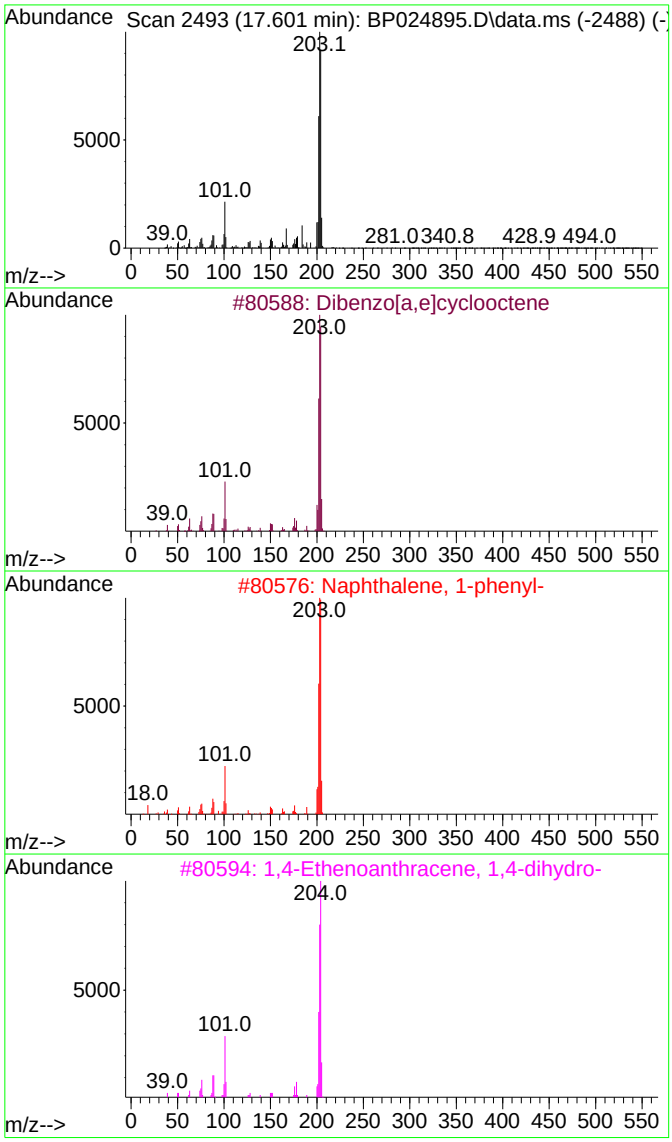
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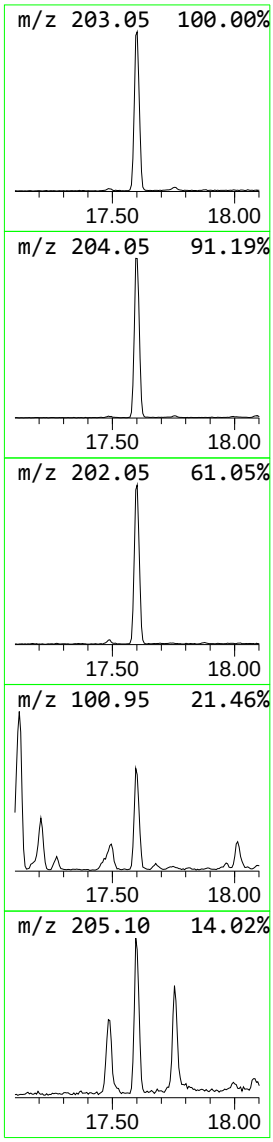
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Peak Number 8 Dibenzo[a,e]cyclooctene Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.601 | 7.14 ng | 1139990 | Phenanthrene-d10 | 17.072 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzo[a,e]cyclooctene | 204 | C16H12 | 000262-89-5 | 98 |
| 2 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 97 |
| 3 | 1,4-Ethenoanthracene, 1,4-dihydro- | 204 | C16H12 | 027765-96-4 | 89 |
| 4 | Cyclobuta[1'',2'':3,4:3'',4'':3'... | 204 | C16H12 | 006574-36-3 | 86 |
| 5 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 83 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

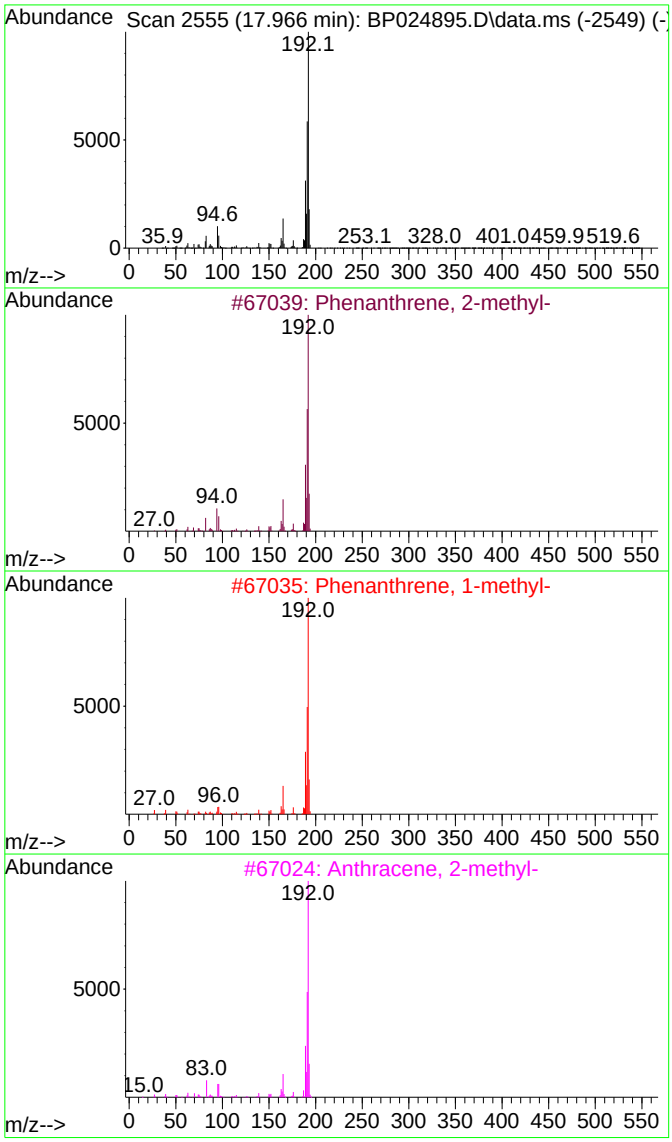
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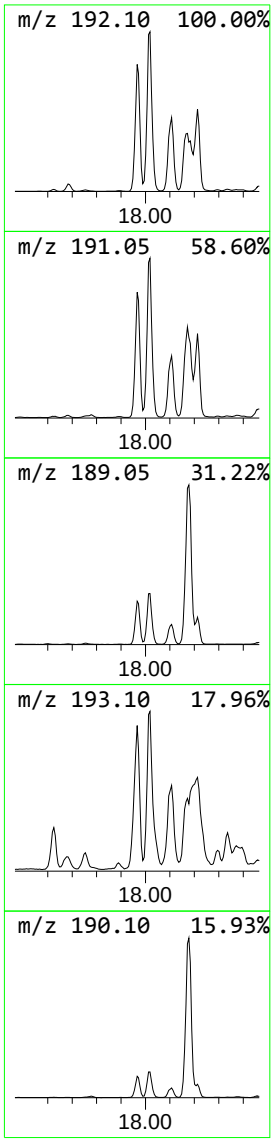
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Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.966 | 20.49 ng | 3271280 | Phenanthrene-d10 | 17.072 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 95 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

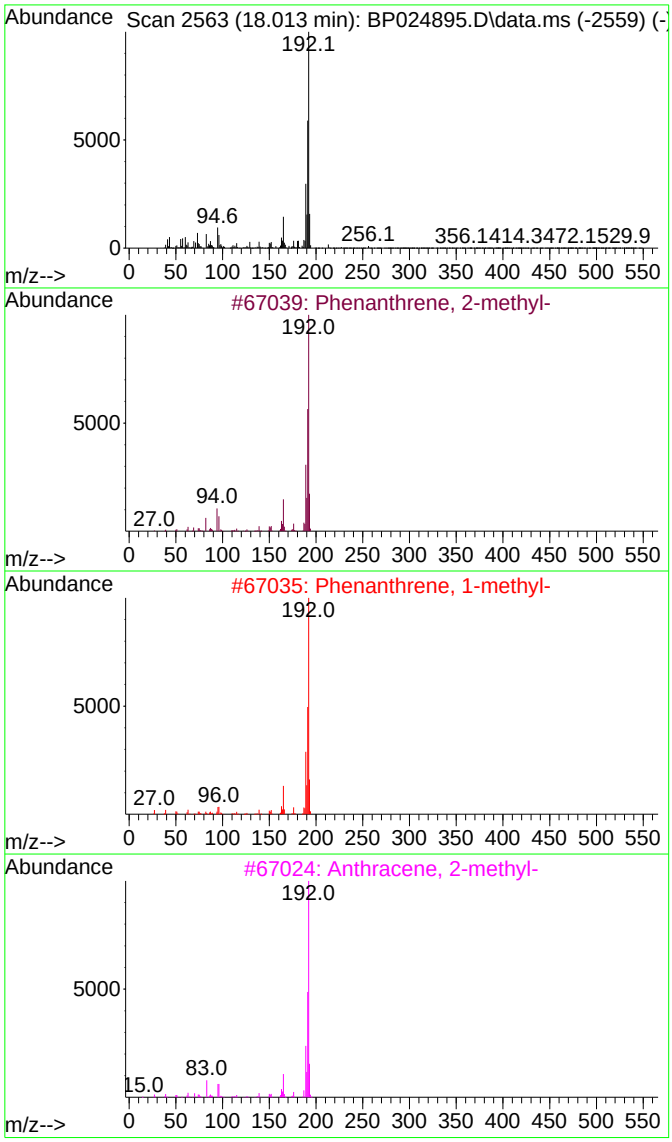
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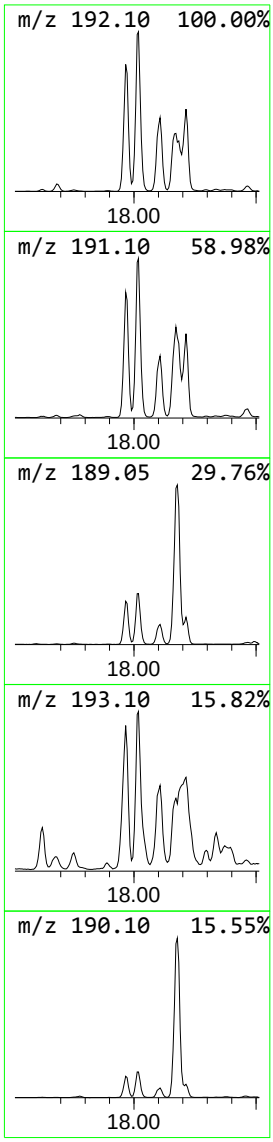
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Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.013 | 34.03 ng | 5433460 | Phenanthrene-d10 | 17.072 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |
| 5 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 95 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

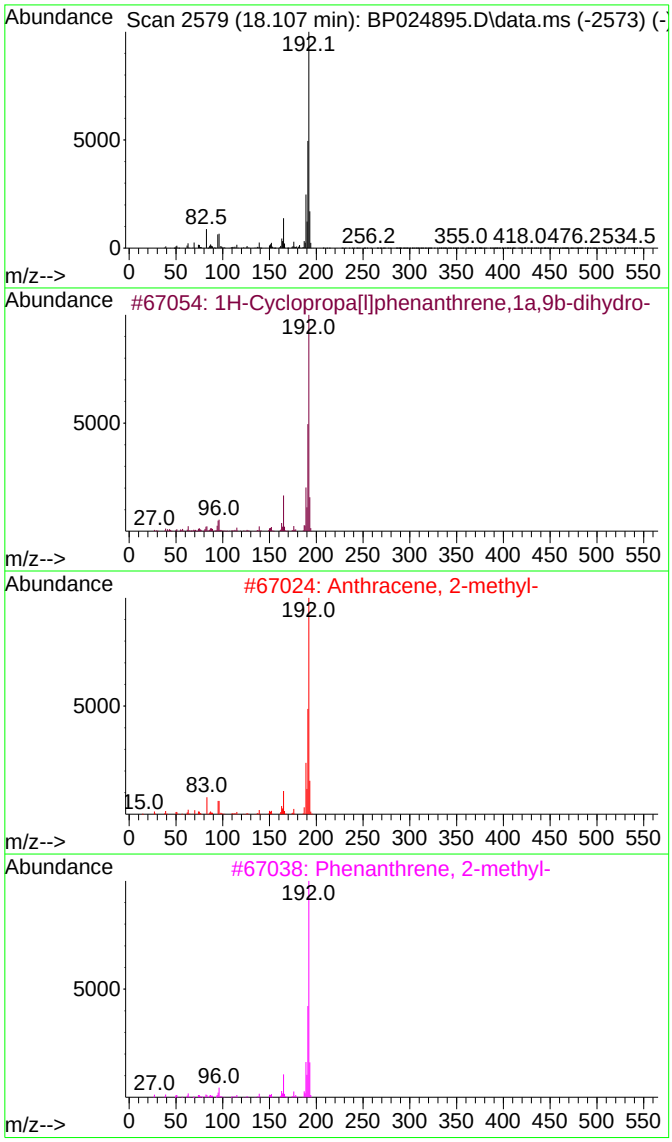
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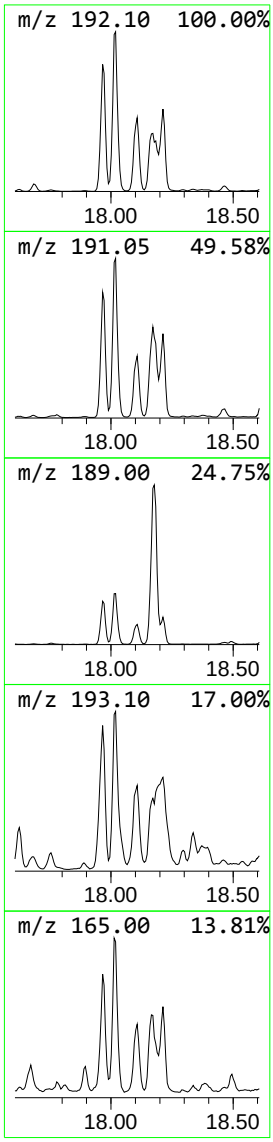
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Peak Number 11 1H-Cyclopropa[l]phenanthren... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.107 | 12.78 ng | 2040170 | Phenanthrene-d10 | 17.072 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 98 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 96 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

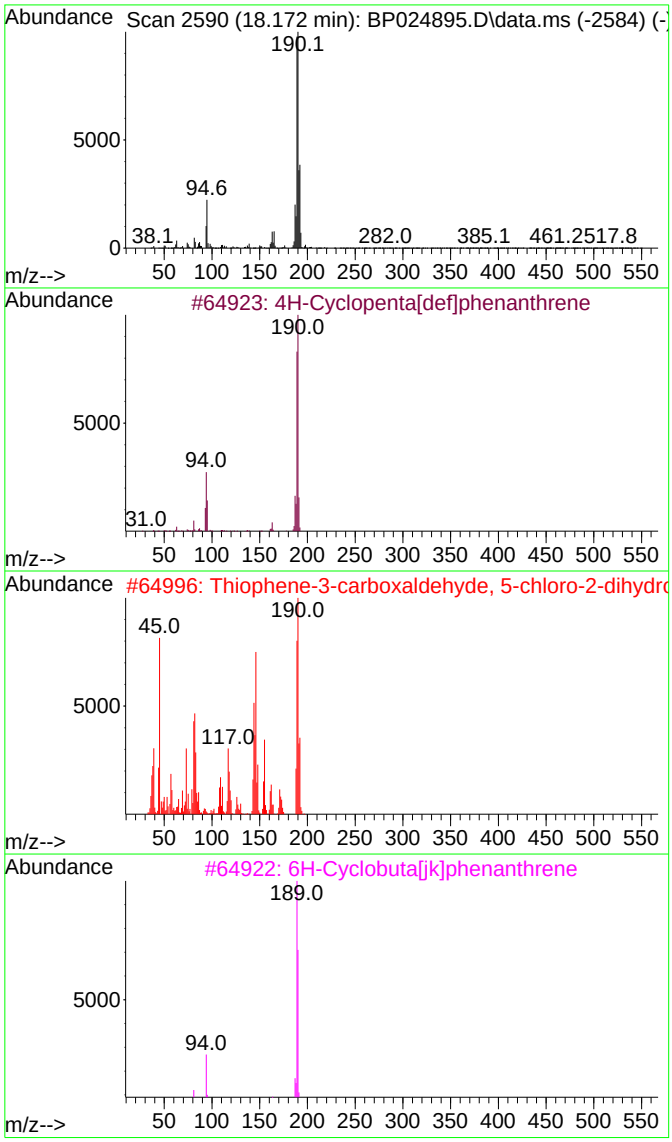
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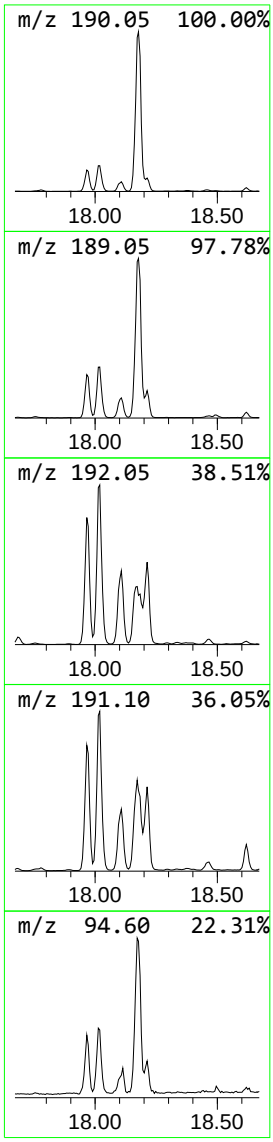
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.172 | 43.91 ng | 7012350 | Phenanthrene-d10 | 17.072 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 94 |
| 2 | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 52 |
| 3 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 45 |
| 4 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 43 |
| 5 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 42 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

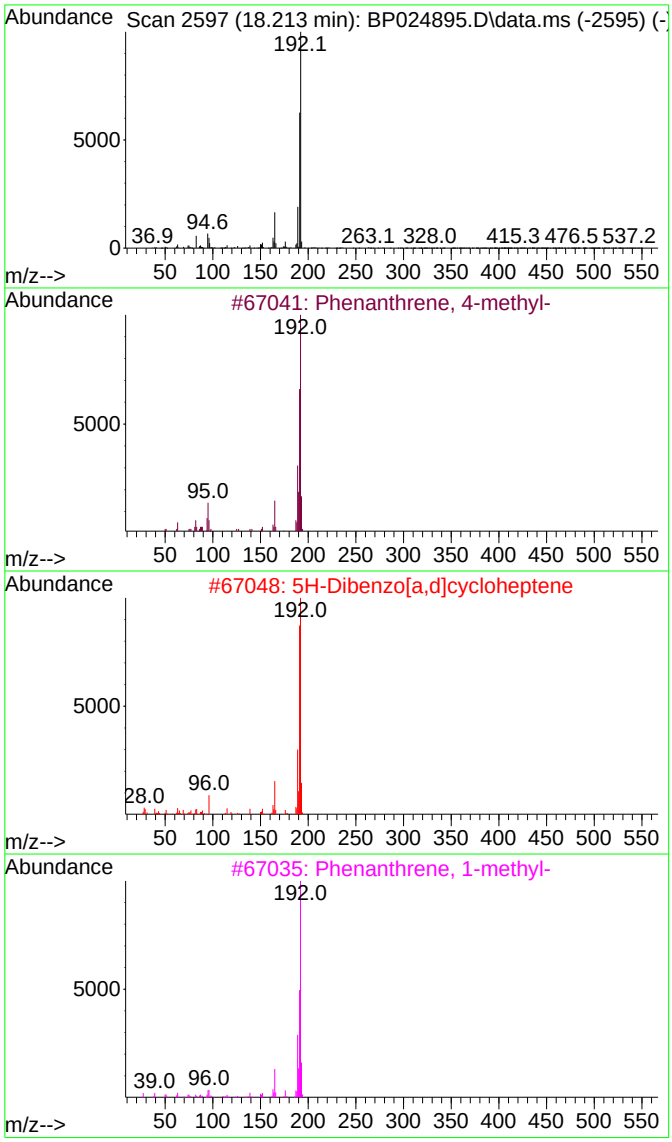
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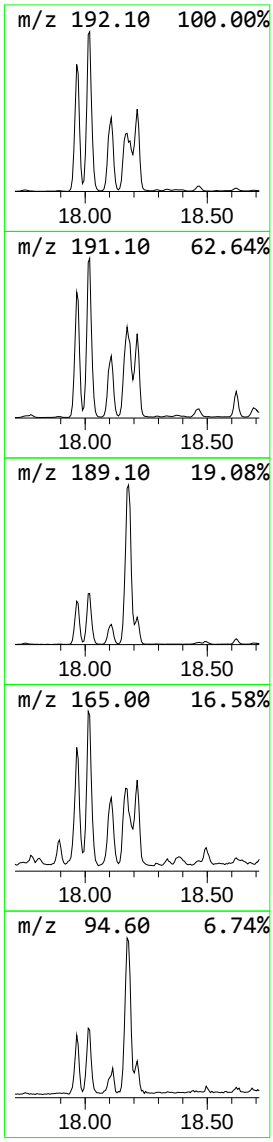
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Peak Number 13 Phenanthrene, 4-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.213 | 10.78 ng | 1720790 | Phenanthrene-d10 | 17.072 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 83 |
| 2 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 81 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 81 |
| 4 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 81 |
| 5 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 81 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

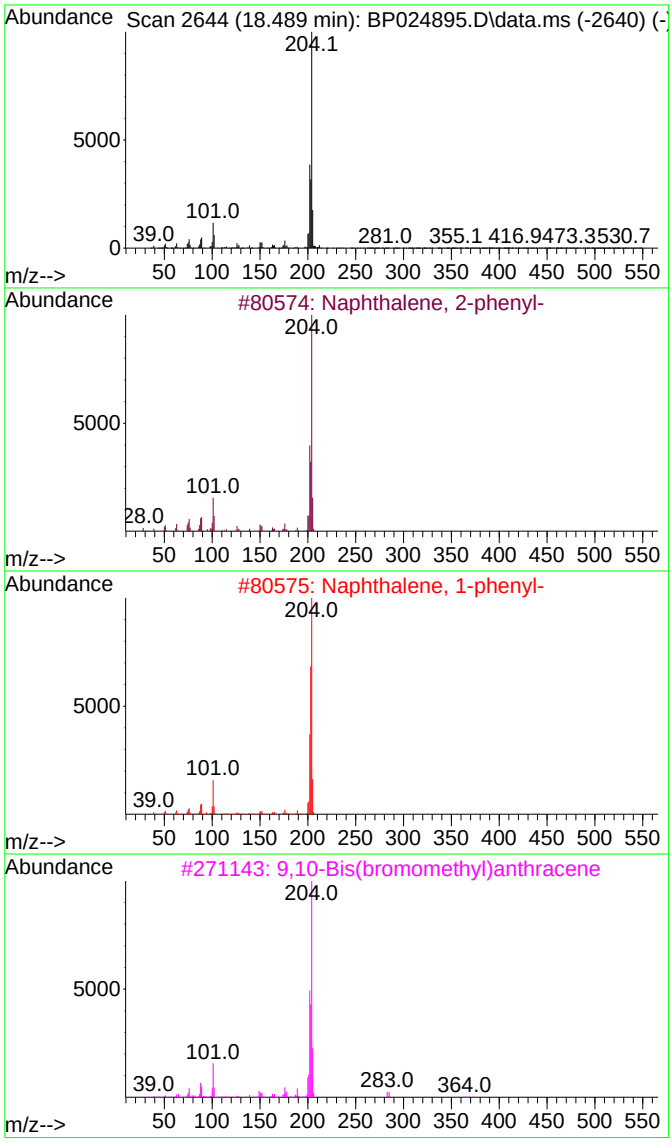
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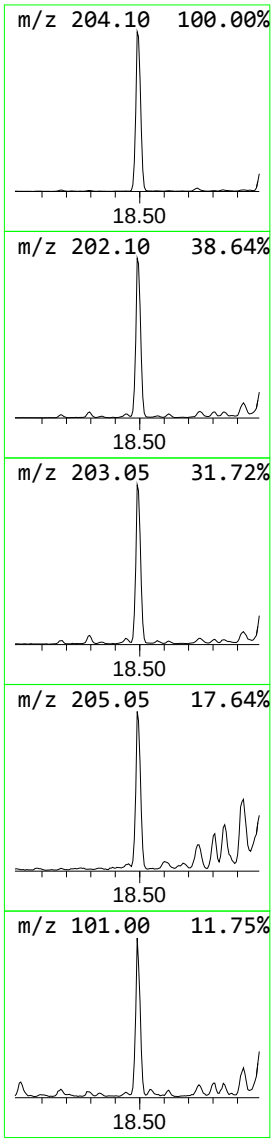
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Peak Number 14 Naphthalene, 2-phenyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.489 | 18.95 ng | 3025890 | Phenanthrene-d10 | 17.072 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 96 |
| 2 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 78 |
| 3 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 59 |
| 4 | Benzene, 1,1'-(1-buten-3-yne-1,4... | 204 | C16H12 | 013141-45-2 | 55 |
| 5 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 52 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

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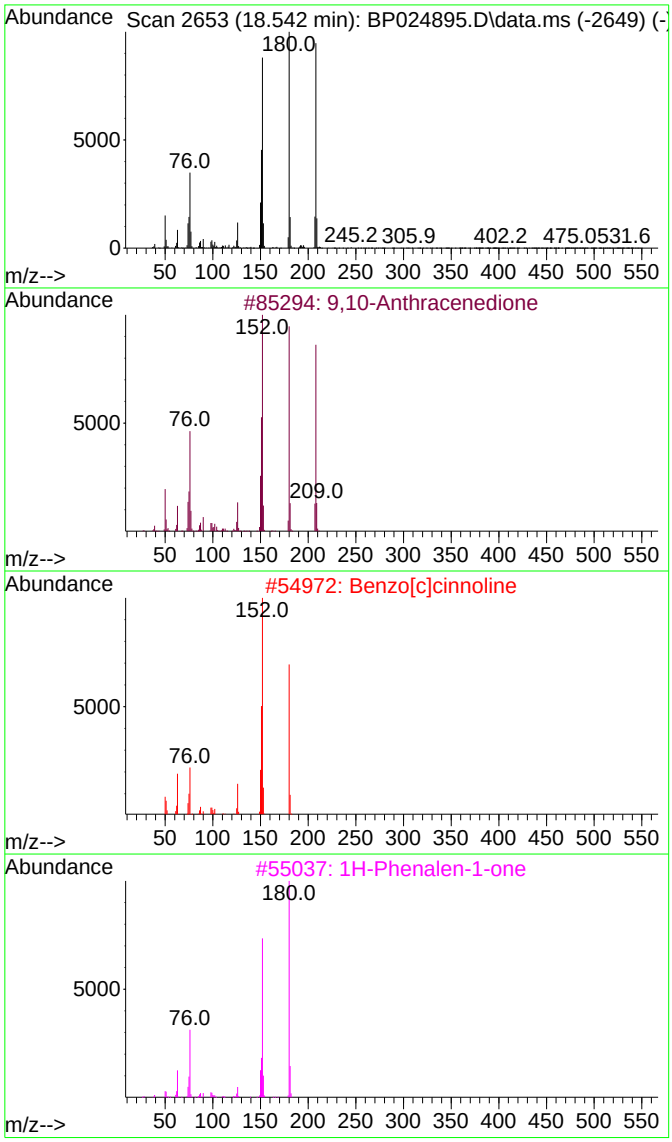
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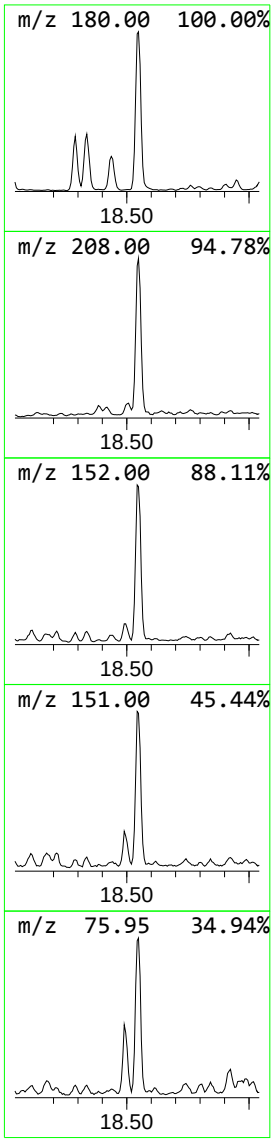
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Peak Number 15 9,10-Anthracenedione Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.542 | 10.52 ng | 1680540 | Phenanthrene-d10 | 17.072 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 96 |
| 2 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 70 |
| 3 | 1H-Phenalen-1-one | 180 | C13H8O | 000548-39-0 | 60 |
| 4 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 58 |
| 5 | Benzo[h]cinnoline | 180 | C12H8N2 | 000230-31-9 | 53 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

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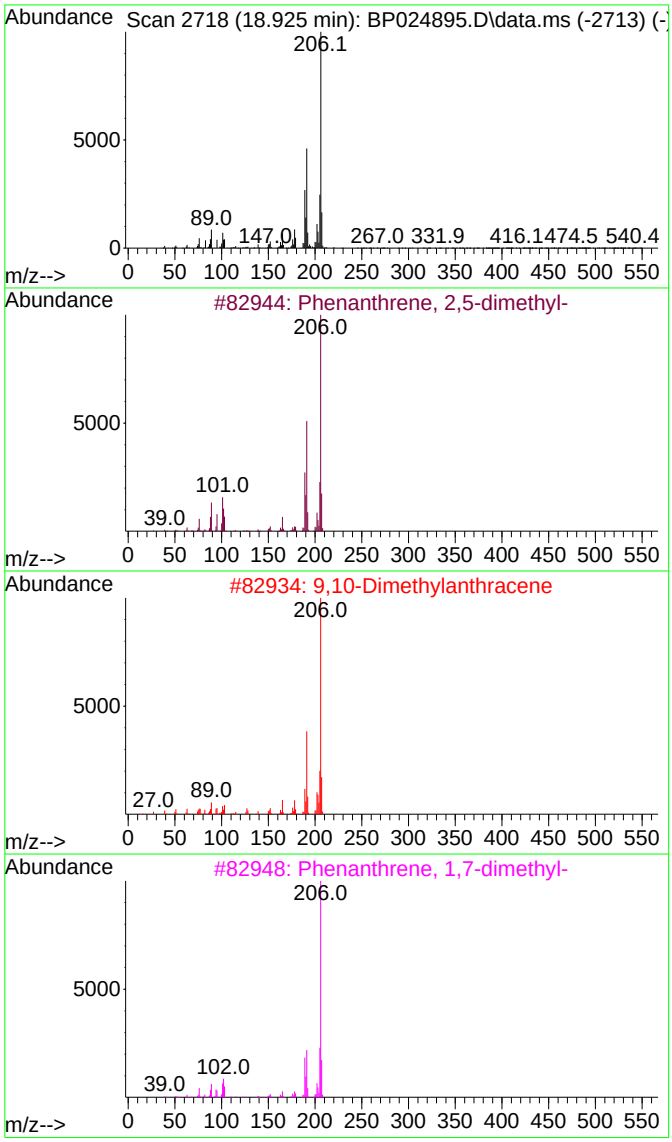
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TIC Integration Parameters: LSCINT.P

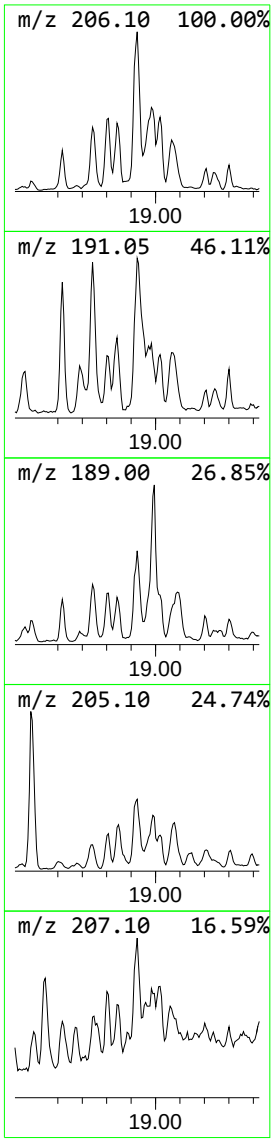
**********

Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.925 | 8.84 ng | 1411820 | Phenanthrene-d10 | 17.072 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 94 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 93 |
| 3 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 93 |
| 4 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 93 |
| 5 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

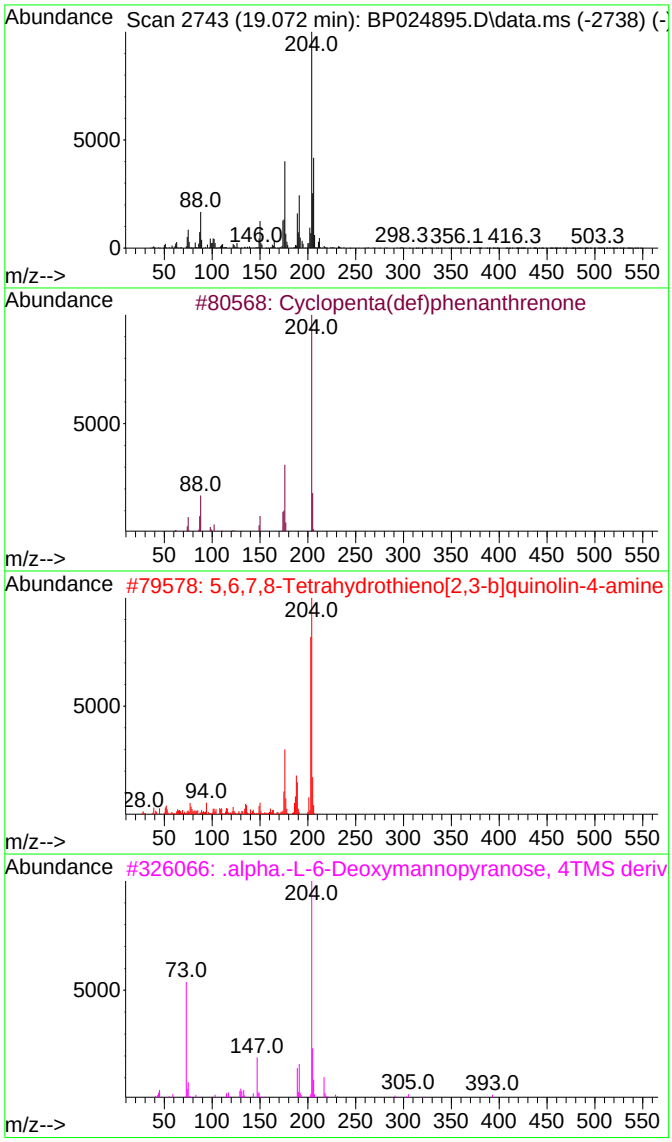
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

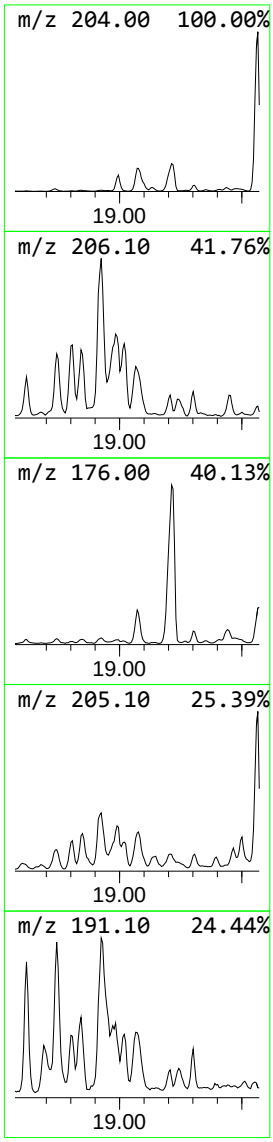
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Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.072 | 9.39 ng | 1500260 | Phenanthrene-d10 | 17.072 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 96 |
| 2 | 5,6,7,8-Tetrahydrothieno[2,3-b]q... | 204 | C11H12N2S | 122914-50-5 | 50 |
| 3 | .alpha.-L-6-Deoxymannopyranose, ... | 452 | C18H44O5Si4 | 055057-21-1 | 47 |
| 4 | Pyrimidine, 4-chloro-6-(4-methyl... | 204 | C11H9ClN2 | 1000380-55-8 | 47 |
| 5 | 2-Chloro-4-phenylphenol | 204 | C12H9ClO | 000092-04-6 | 43 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

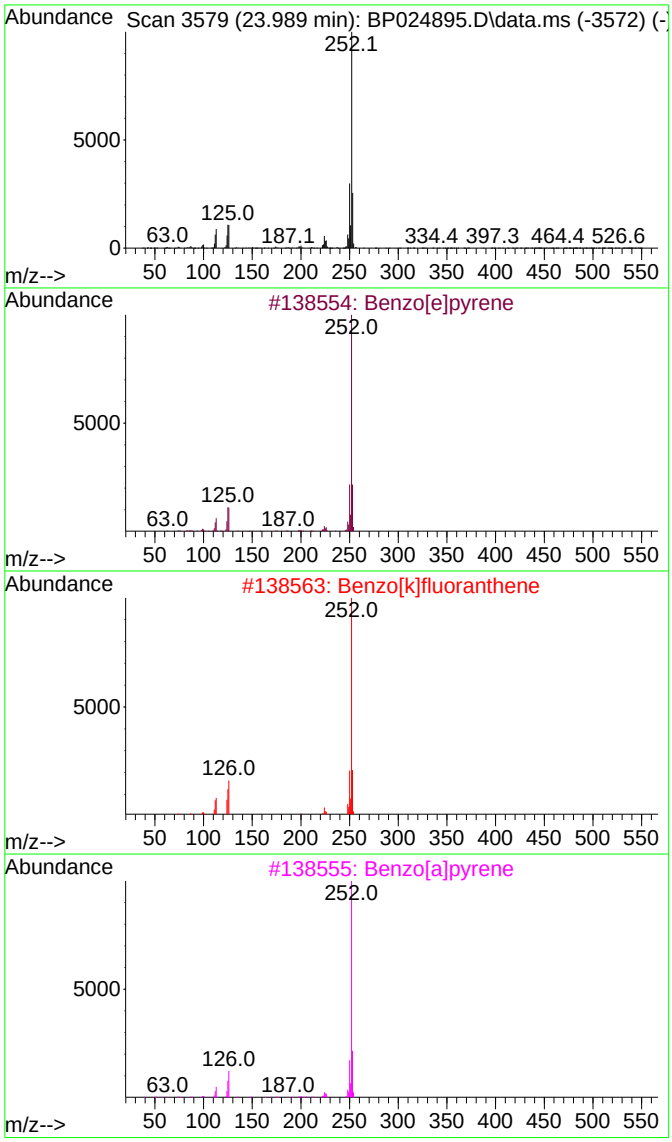
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

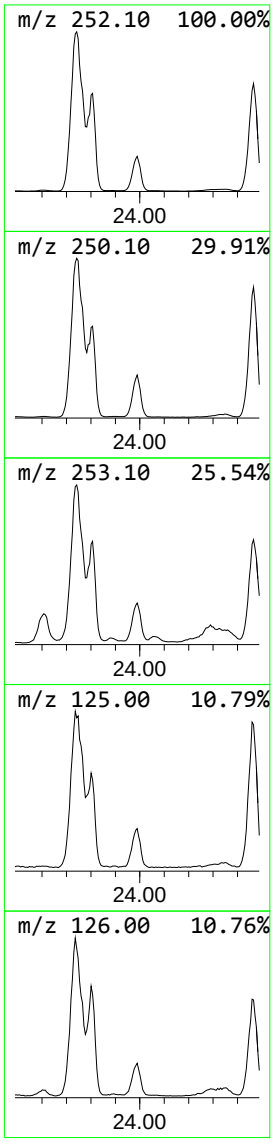
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Peak Number 18 Benzo[e]pyrene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.989 | 19.34 ng | 3340090 | Perylene-d12 | 24.760 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 96 |
| 3 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 95 |
| 4 | Benzo[b]fluoranthene | 252 | C20H12 | 000205-99-2 | 94 |
| 5 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 86 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

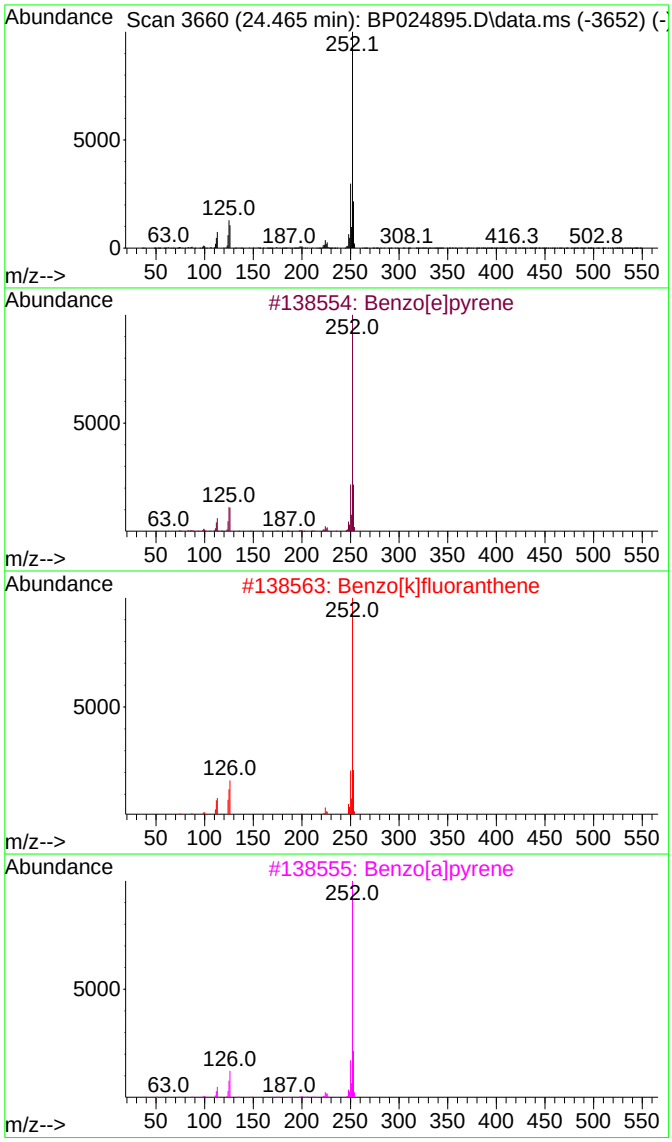
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

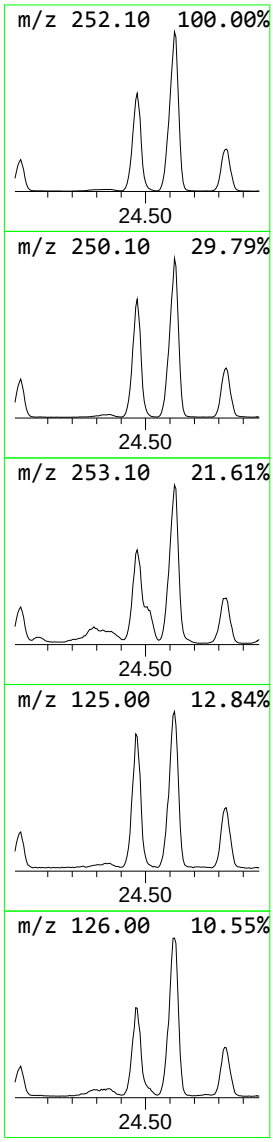
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Peak Number 19 Perylene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 24.465 | 74.53 ng | 12871300 | Perylene-d12 | 24.760 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 99 |
| 2 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 97 |
| 3 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 97 |
| 4 | Perylene | 252 | C20H12 | 000198-55-0 | 96 |
| 5 | Benzo[b]fluoranthene | 252 | C20H12 | 000205-99-2 | 94 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

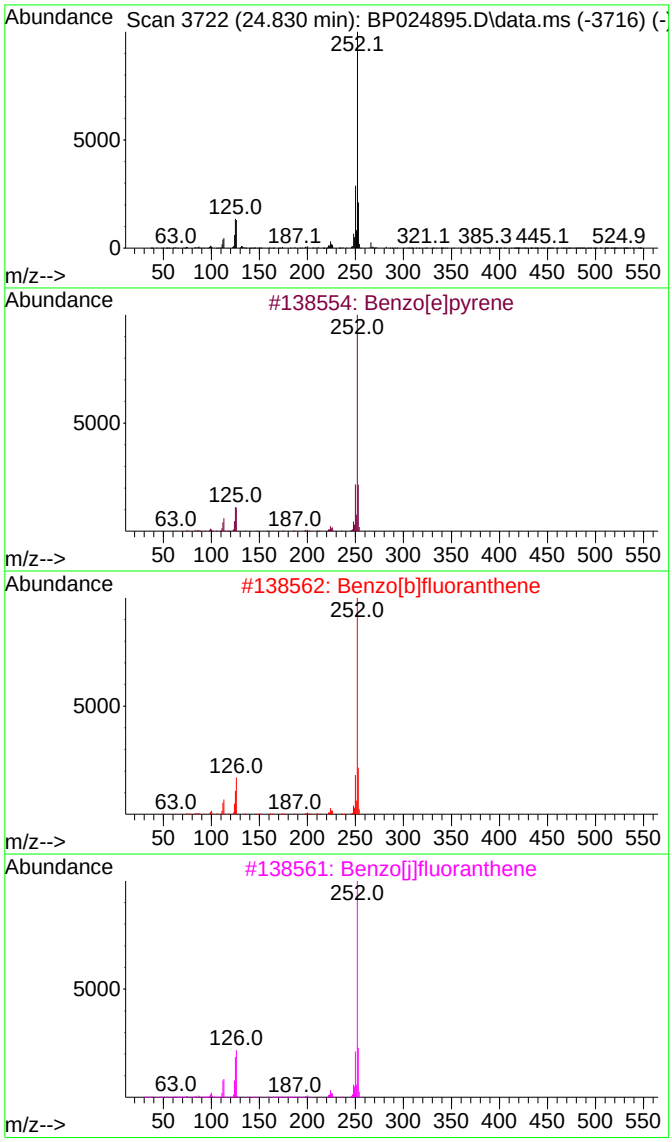
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

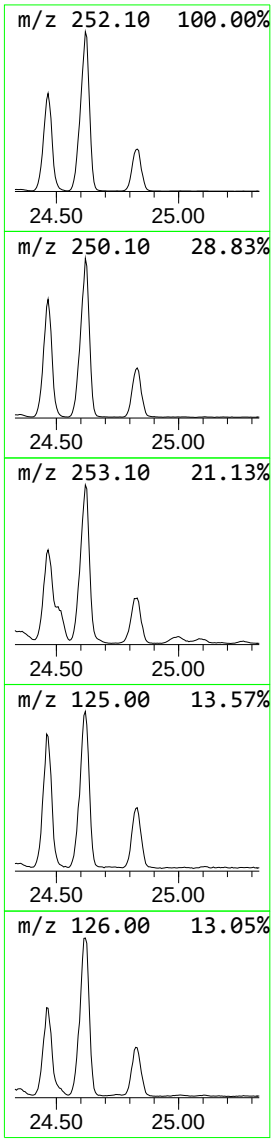
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Peak Number 20 Benzo[j]fluoranthene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 24.830 | 35.54 ng | 6137460 | Perylene-d12 | 24.760 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | Benzo[b]fluoranthene | 252 | C20H12 | 000205-99-2 | 96 |
| 3 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 96 |
| 4 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 95 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 95 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024895.D
Acq On : 10 Jun 2025 15:46
Operator : RC/JU
Sample : Q2177-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-... | 4.772 | 6.4 | ng | 482252 | 1 | 7.607 | 1513180 | 20.0 |
| Tridecane | 11.807 | 11.3 | ng | 1568240 | 2 | 10.378 | 2781540 | 20.0 |
| Benzophenone | 15.642 | 15.9 | ng | 2438830 | 3 | 14.260 | 3065670 | 20.0 |
| 9H-Fluorene, 2-... | 16.354 | 9.6 | ng | 1538440 | 4 | 17.072 | 3193750 | 20.0 |
| 9H-Fluoren-9-one | 16.719 | 6.3 | ng | 1006050 | 4 | 17.072 | 3193750 | 20.0 |
| Dibenzothiophene | 16.878 | 16.6 | ng | 2658370 | 4 | 17.072 | 3193750 | 20.0 |
| Acridine | 17.272 | 6.9 | ng | 1095870 | 4 | 17.072 | 3193750 | 20.0 |
| Dibenzo[a,e]cyc... | 17.601 | 7.1 | ng | 1139990 | 4 | 17.072 | 3193750 | 20.0 |
| Phenanthrene, 2... | 17.966 | 20.5 | ng | 3271280 | 4 | 17.072 | 3193750 | 20.0 |
| Phenanthrene, 1... | 18.013 | 34.0 | ng | 5433460 | 4 | 17.072 | 3193750 | 20.0 |
| 1H-Cyclopropa[l... | 18.107 | 12.8 | ng | 2040170 | 4 | 17.072 | 3193750 | 20.0 |
| 4H-Cyclopenta[d... | 18.172 | 43.9 | ng | 7012350 | 4 | 17.072 | 3193750 | 20.0 |
| Phenanthrene, 4... | 18.213 | 10.8 | ng | 1720790 | 4 | 17.072 | 3193750 | 20.0 |
| Naphthalene, 2-... | 18.489 | 18.9 | ng | 3025890 | 4 | 17.072 | 3193750 | 20.0 |
| 9,10-Anthracene... | 18.542 | 10.5 | ng | 1680540 | 4 | 17.072 | 3193750 | 20.0 |
| Phenanthrene, 2... | 18.925 | 8.8 | ng | 1411820 | 4 | 17.072 | 3193750 | 20.0 |
| Cyclopenta(def)... | 19.072 | 9.4 | ng | 1500260 | 4 | 17.072 | 3193750 | 20.0 |
| Benzo[e]pyrene | 23.989 | 19.3 | ng | 3340090 | 6 | 24.760 | 3453800 | 20.0 |
| Perylene | 24.465 | 74.5 | ng | 12871300 | 6 | 24.760 | 3453800 | 20.0 |
| Benzo[j]fluoran... | 24.830 | 35.5 | ng | 6137460 | 6 | 24.760 | 3453800 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024917.D
Acq On : 11 Jun 2025 18:27
Operator : RC/JU
Sample : Q2177-02DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Quant Time: Jun 12 01:57:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.613 | 152 | 219933 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.384 | 136 | 879842 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 14.254 | 164 | 533152 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 17.060 | 188 | 1070454 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 21.489 | 240 | 1300156 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 24.754 | 264 | 1571242 | 20.000 | ng | | 0.04 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.243 | 112 | 285761 | 21.688 | ng | | 0.00 |
| 7) Phenol-d6 | 6.825 | 99 | 361831 | 20.755 | ng | | 0.01 |
| 23) Nitrobenzene-d5 | 8.766 | 82 | 220955 | 12.203 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.784 | 330 | 164843 | 22.363 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 12.866 | 172 | 499456 | 12.620 | ng | | 0.00 |
| 79) Terphenyl-d14 | 19.777 | 244 | 843470 | 11.627 | ng | | -0.02 |
| Target Compounds | | | | | | | Qvalue |
| 31) Naphthalene | 10.431 | 128 | 152893 | 3.391 | ng | | 98 |
| 52) Acenaphthene | 14.319 | 154 | 238656 | 8.388 | ng | | 99 |
| 55) Dibenzofuran | 14.666 | 168 | 215094 | 4.710 | ng | | 98 |
| 58) Fluorene | 15.325 | 166 | 232055 | 6.290 | ng | | 99 |
| 71) Phenanthrene | 17.101 | 178 | 3511051 | 59.354 | ng | | 99 |
| 72) Anthracene | 17.195 | 178 | 920713 | 15.368 | ng | | 99 |
| 73) Carbazole | 17.483 | 167 | 321499 | 5.790 | ng | | 99 |
| 75) Fluoranthene | 19.195 | 202 | 4135705 | 60.320 | ng | | 98 |
| 78) Pyrene | 19.572 | 202 | 3691405 | 45.446 | ng | | 100 |
| 81) Benzo(a)anthracene | 21.471 | 228 | 1706833 | 20.526 | ng | | 99 |
| 83) Chrysene | 21.536 | 228 | 1437484 | 18.244 | ng | | 97 |
| 87) Indeno(1,2,3-cd)pyrene | 28.442 | 276 | 1029739 | 8.982 | ng | | 95 |
| 88) Benzo(b)fluoranthene | 23.724 | 252 | 1907061 | 21.208 | ng | | 98 |
| 89) Benzo(k)fluoranthene | 23.783 | 252 | 673277m | 7.356 | ng | | |
| 90) Benzo(a)pyrene | 24.601 | 252 | 1587050 | 18.072 | ng | | 98 |
| 91) Dibenzo(a,h)anthracene | 28.518 | 278 | 229499 | 2.459 | ng | # | 90 |
| 92) Benzo(g,h,i)perylene | 29.600 | 276 | 1000654 | 10.808 | ng | | 98 |

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

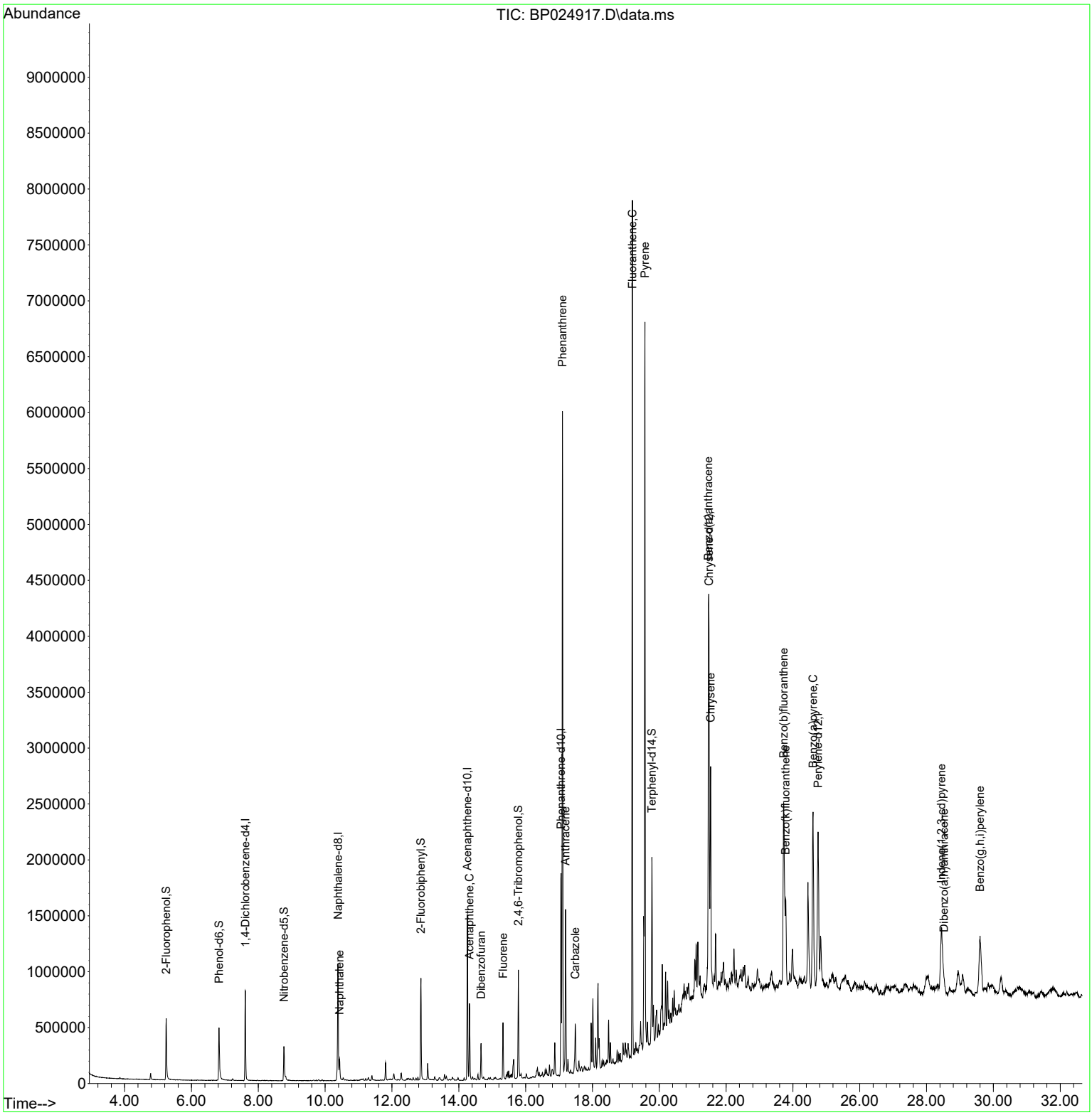
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024917.D
Acq On : 11 Jun 2025 18:27
Operator : RC/JU
Sample : Q2177-02DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

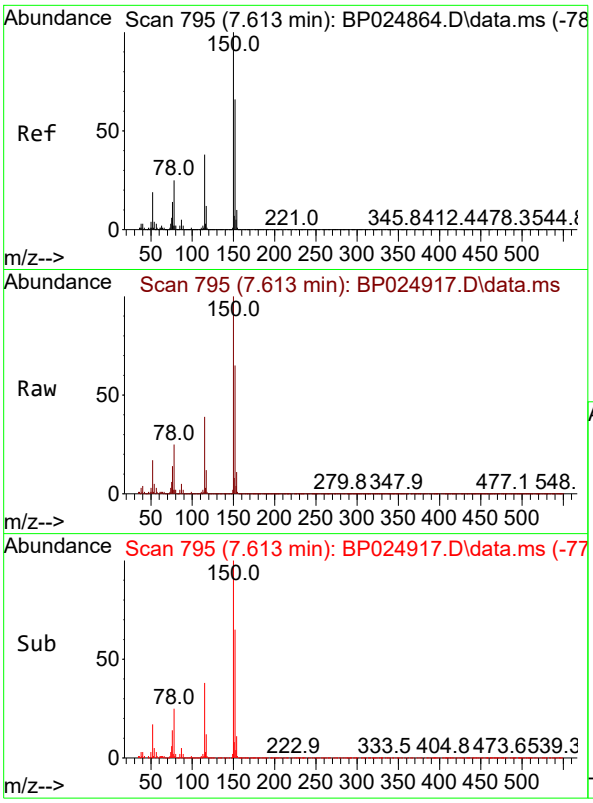
Quant Time: Jun 12 01:57:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

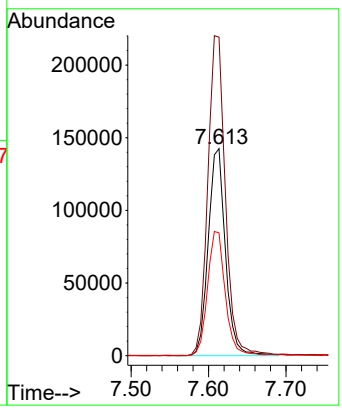





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.613 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

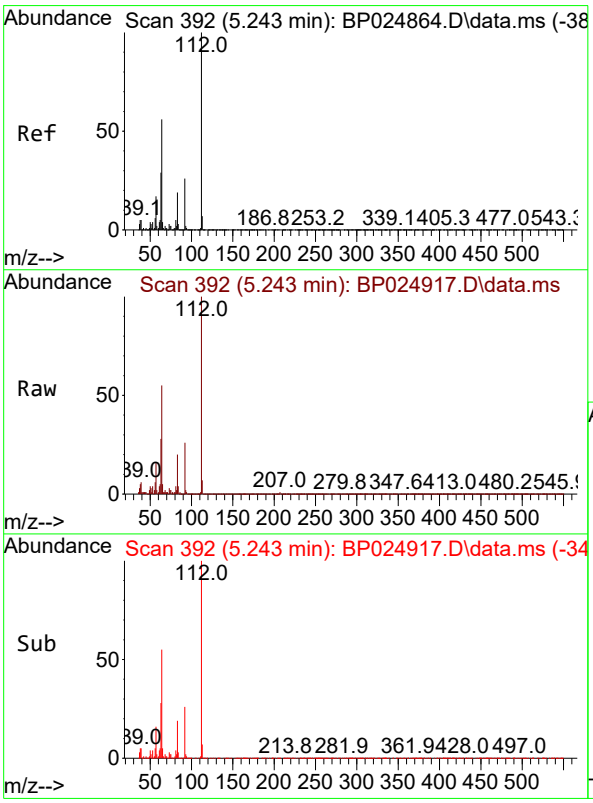
Tgt Ion:152 Resp: 21993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.9 | 122.1 | 183.1 |
| 115 | 59.4 | 46.4 | 69.6 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

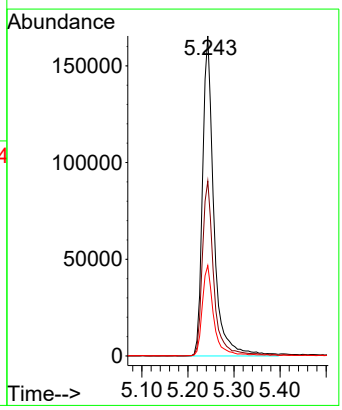
**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

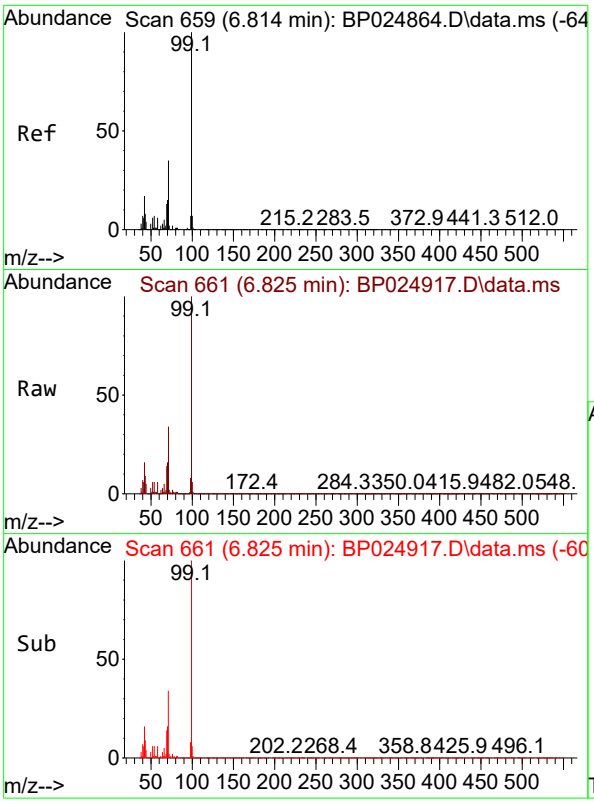



#5
2-Fluorophenol
Concen: 21.688 ng
RT: 5.243 min Scan# 392
Delta R.T. -0.000 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:112 Resp: 285761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.7 | 44.7 | 67.1 |
| 63 | 28.3 | 23.5 | 35.3 |

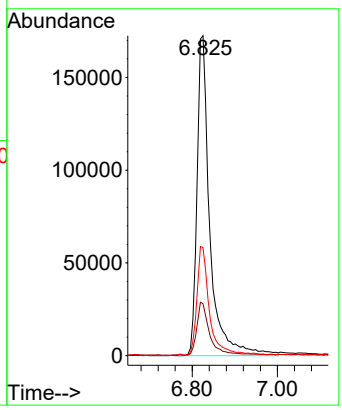





#7
Phenol-d6
Concen: 20.755 ng
RT: 6.825 min Scan# 6
Delta R.T. 0.012 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

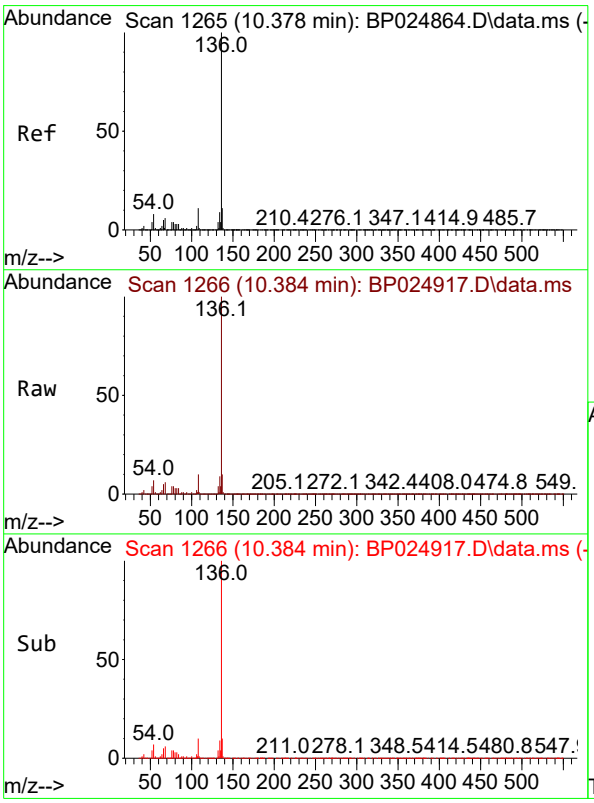
Tgt Ion: 99 Resp: 36183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 16.3 | 13.4 | 20.2 |
| 71 | 33.7 | 27.6 | 41.4 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

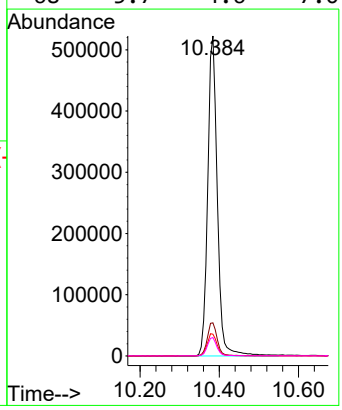
**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

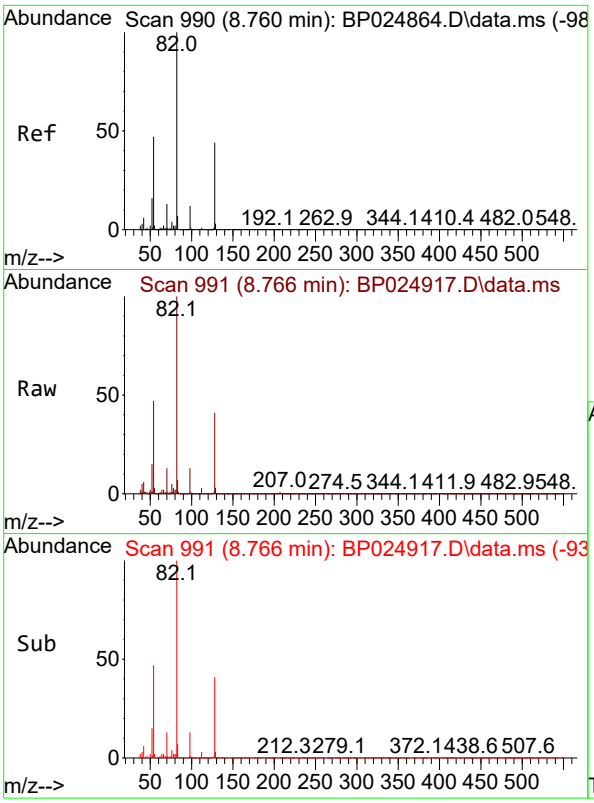



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.384 min Scan# 1266
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:136 Resp: 879842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.4 | 8.9 | 13.3 |
| 54 | 6.8 | 6.1 | 9.1 |
| 68 | 5.7 | 4.6 | 7.0 |

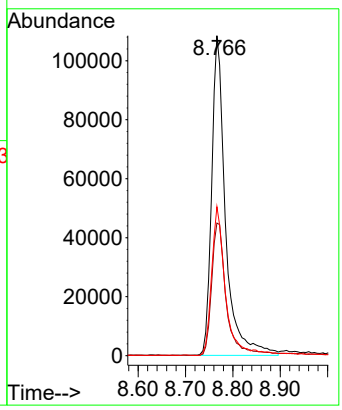





#23
Nitrobenzene-d5
Concen: 12.203 ng
RT: 8.766 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion: 82 Resp: 22095

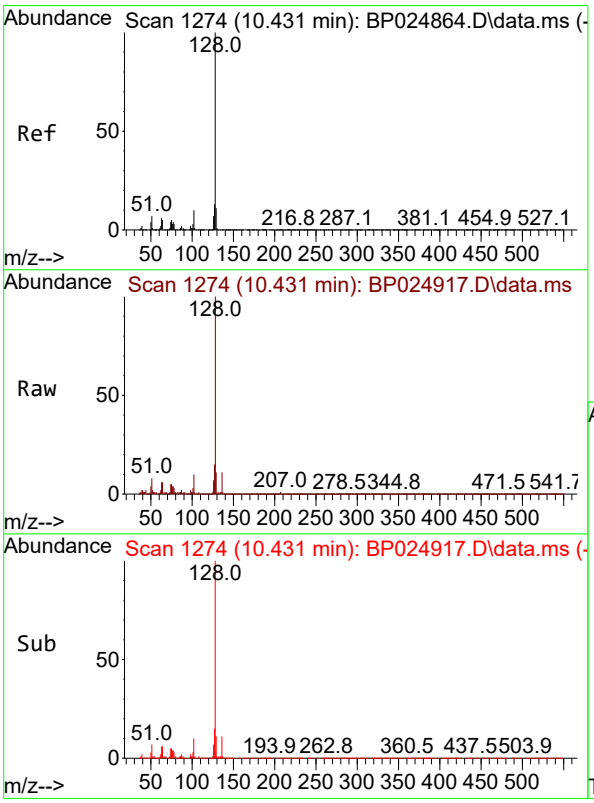
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.5 | 35.3 | 52.9 |
| 54 | 46.5 | 37.4 | 56.0 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

**Manual Integrations APPROVED**

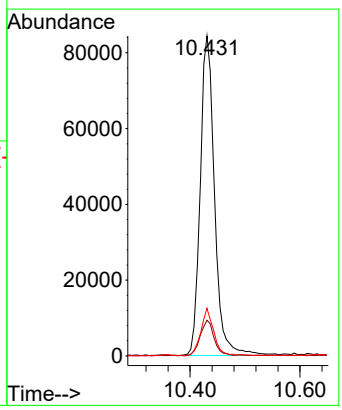
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

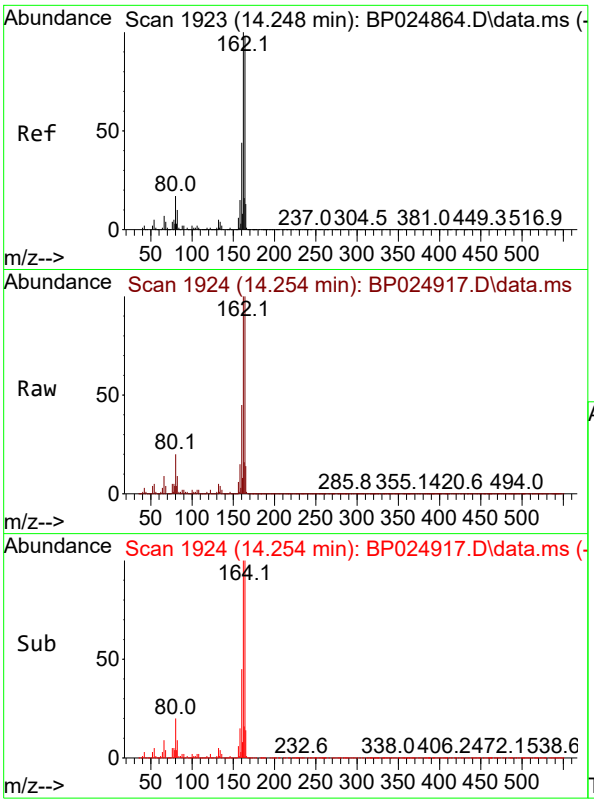



#31
Naphthalene
Concen: 3.391 ng
RT: 10.431 min Scan# 1274
Delta R.T. -0.000 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:128 Resp: 152893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.1 | 8.7 | 13.1 |
| 127 | 14.9 | 10.7 | 16.1 |

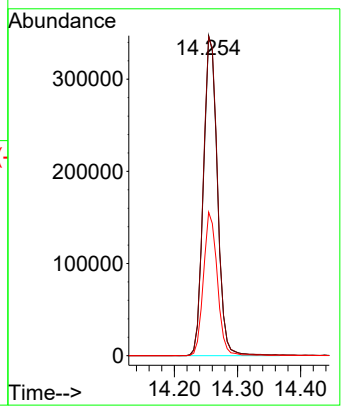





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.254 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

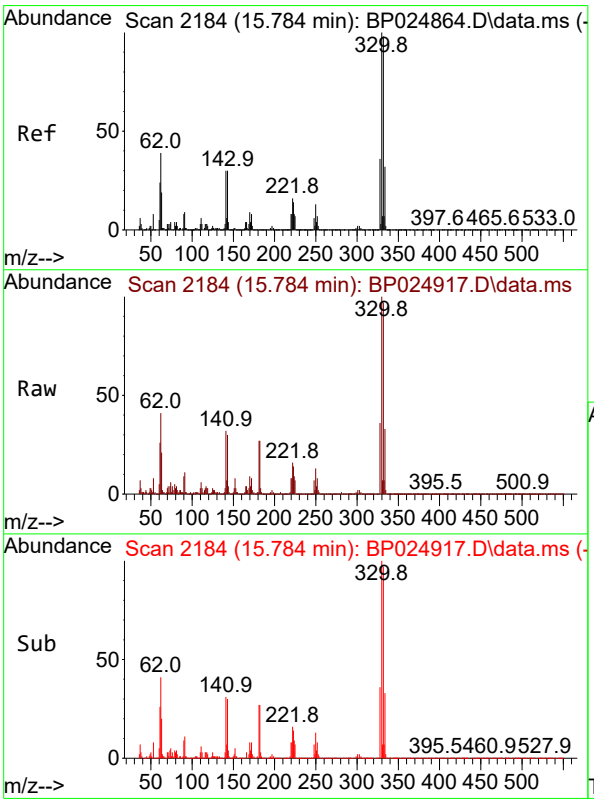
Tgt Ion:164 Resp: 53315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.7 | 81.6 | 122.4 |
| 160 | 44.9 | 36.2 | 54.2 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

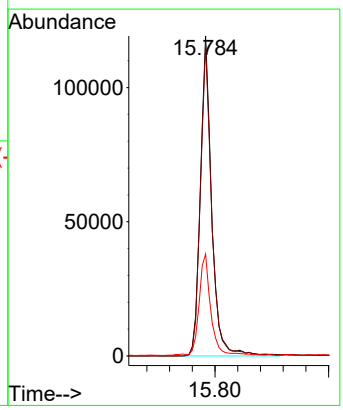
**Manual Integrations**
**APPROVED**
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

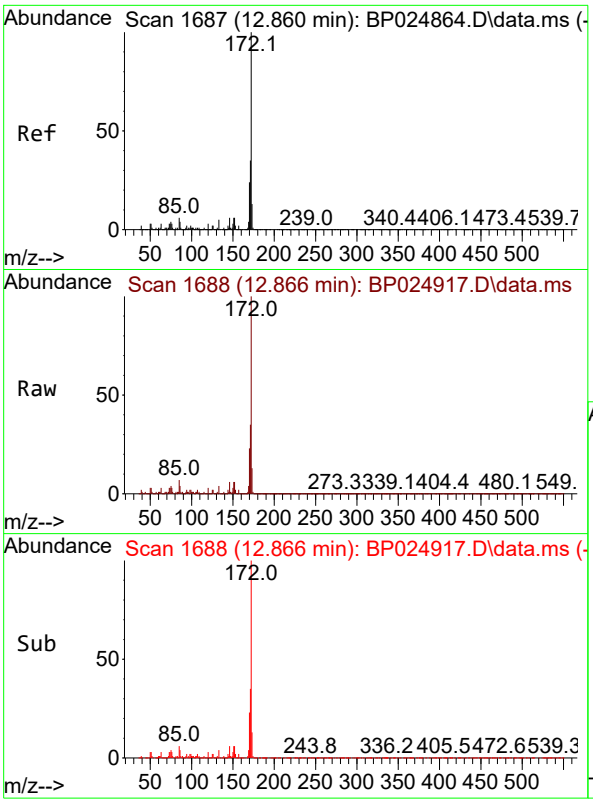



#42
2,4,6-Tribromophenol
Concen: 22.363 ng
RT: 15.784 min Scan# 2184
Delta R.T. -0.000 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:330 Resp: 164843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.2 | 77.7 | 116.5 |
| 141 | 32.9 | 26.4 | 39.6 |

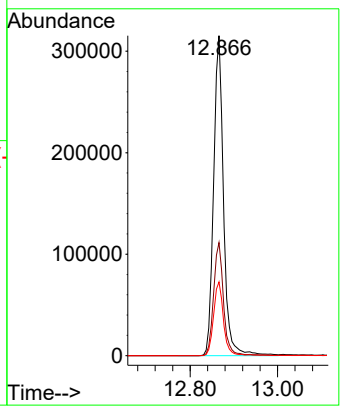





#45
2-Fluorobiphenyl
Concen: 12.620 ng
RT: 12.866 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:172 Resp: 49945

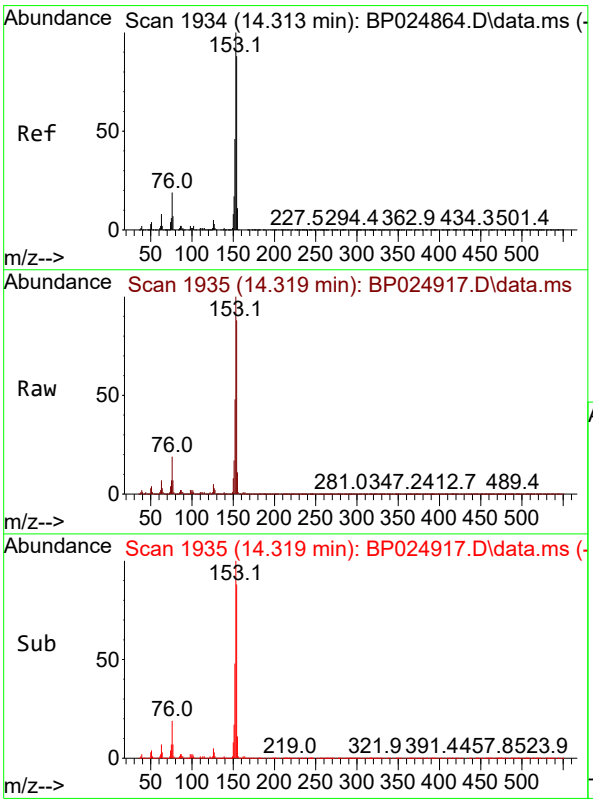
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.3 | 28.3 | 42.5 |
| 170 | 23.0 | 19.0 | 28.4 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

**Manual Integrations**
**APPROVED**

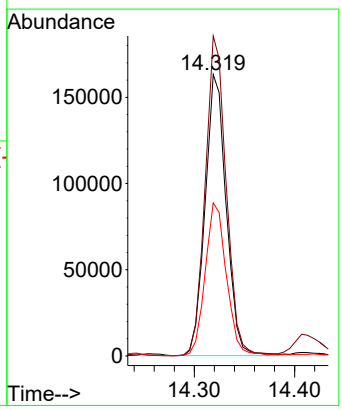
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

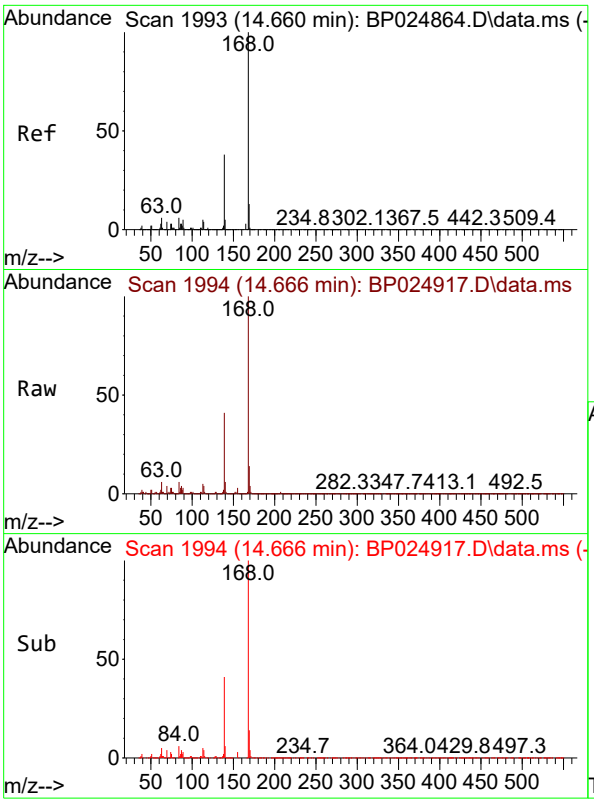



#52
Acenaphthene
Concen: 8.388 ng
RT: 14.319 min Scan# 1935
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:154 Resp: 238656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 113.7 | 90.5 | 135.7 |
| 152 | 54.4 | 42.1 | 63.1 |

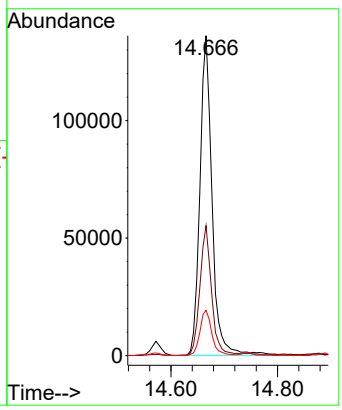





#55
Dibenzofuran
Concen: 4.710 ng
RT: 14.666 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:168 Resp: 21509

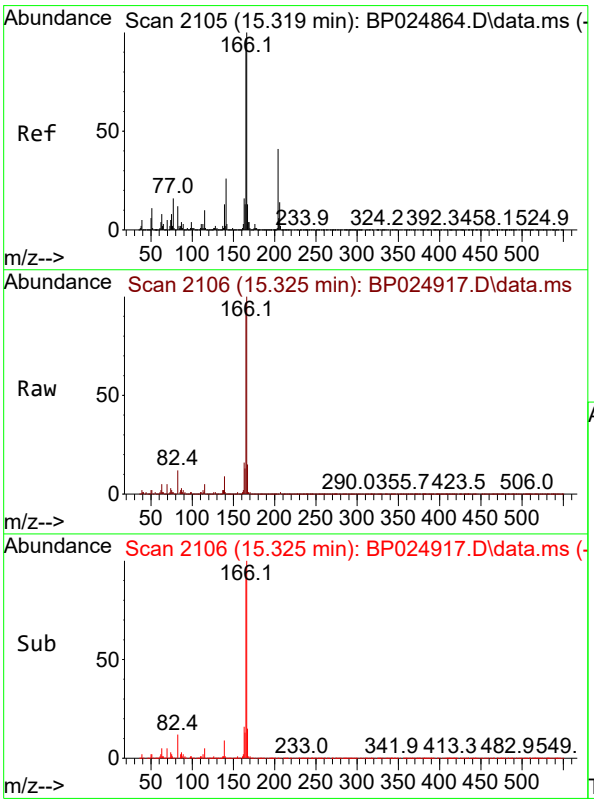
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 40.6 | 31.6 | 47.4 |
| 169 | 14.2 | 10.6 | 15.8 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

**Manual Integrations APPROVED**

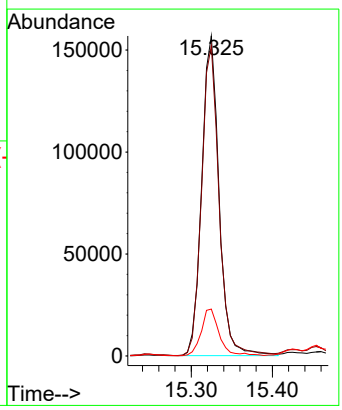
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

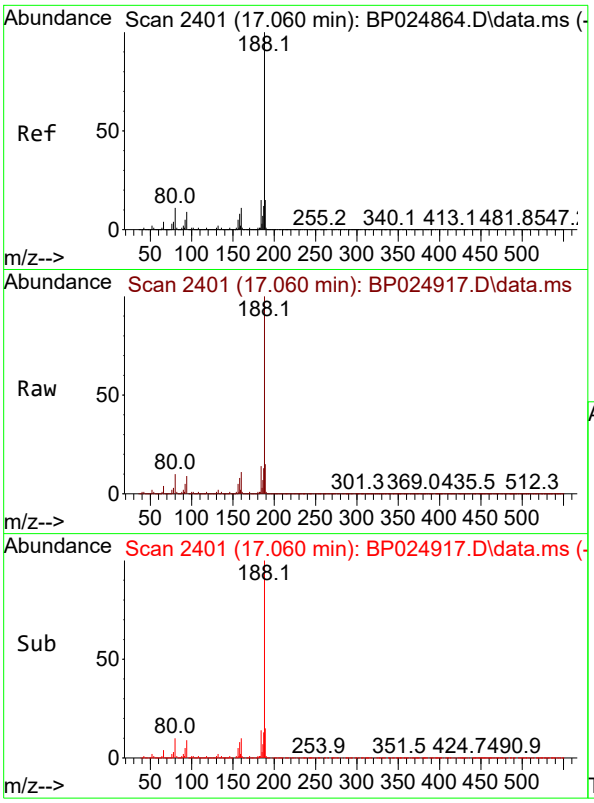



#58
Fluorene
Concen: 6.290 ng
RT: 15.325 min Scan# 2106
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:166 Resp: 232055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.0 | 77.7 | 116.5 |
| 167 | 14.7 | 10.6 | 16.0 |






#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.060 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

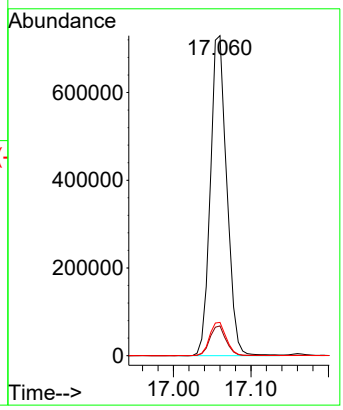
Tgt Ion:188 Resp: 107045

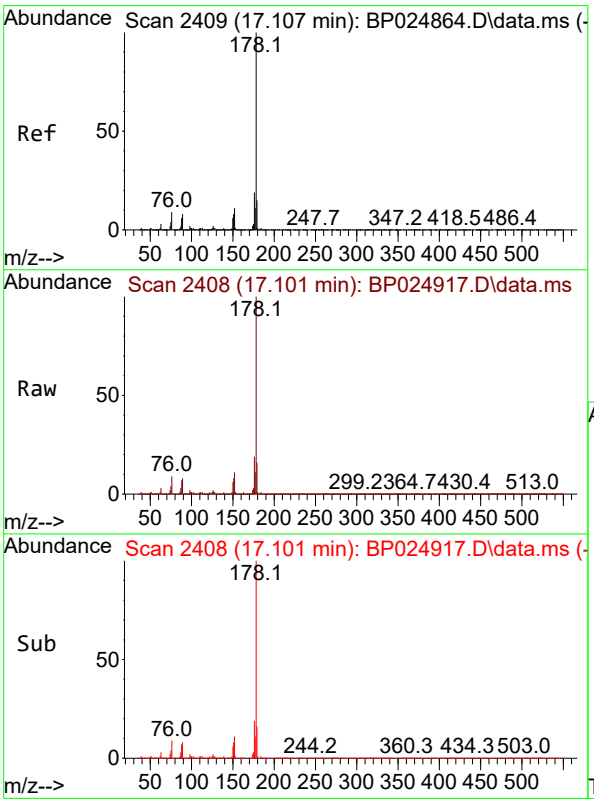
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.3 | 7.3 | 10.9 |
| 80 | 10.4 | 8.5 | 12.7 |

**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

**Manual Integrations**
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Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

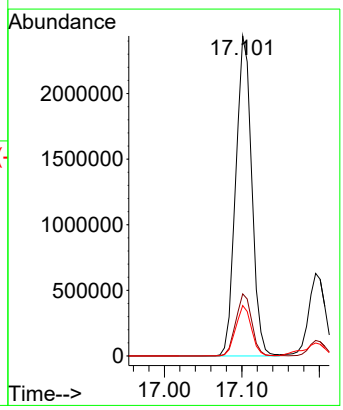


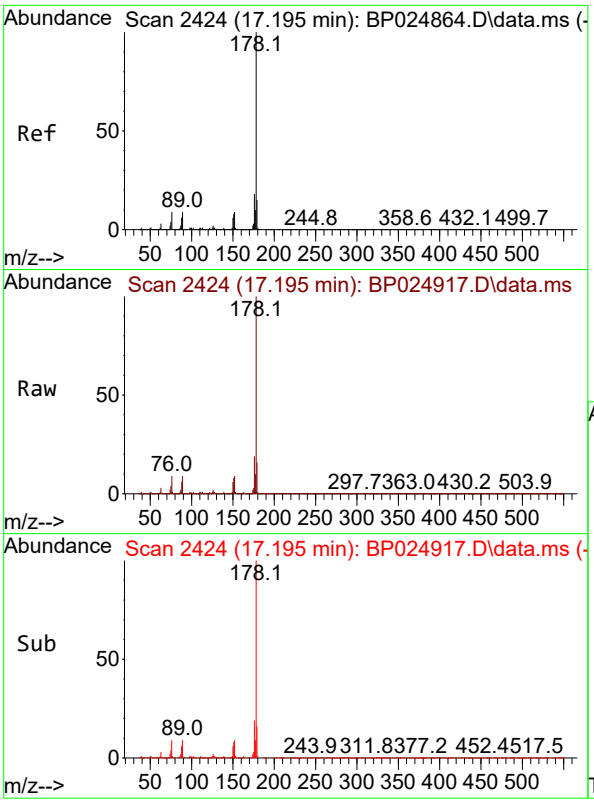




#71
Phenanthrene
Concen: 59.354 ng
RT: 17.101 min Scan# 2408
Delta R.T. -0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:178 Resp: 3511051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.3 | 22.9 |
| 179 | 15.7 | 12.1 | 18.1 |

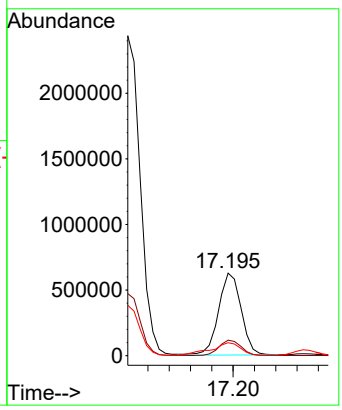





#72
Anthracene
Concen: 15.368 ng
RT: 17.195 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:178 Resp: 92071

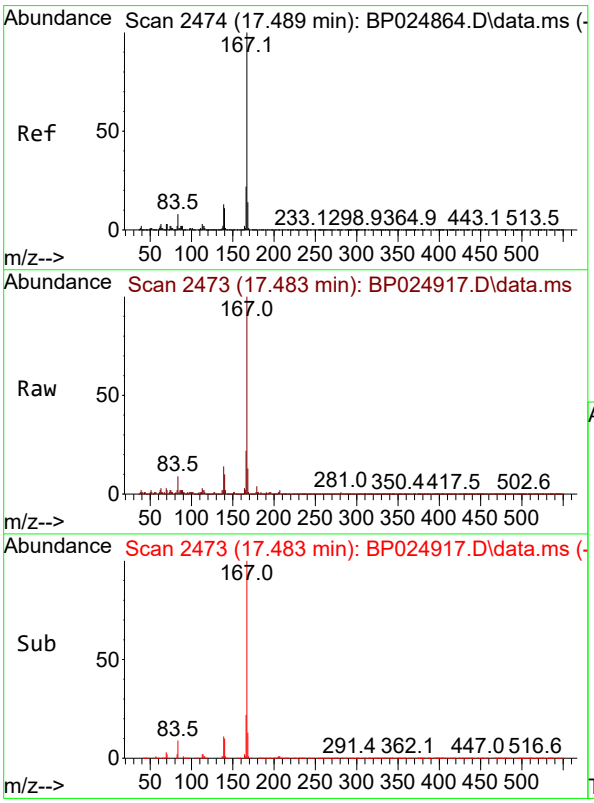
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 14.7 | 22.1 |
| 179 | 15.7 | 12.3 | 18.5 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

**Manual Integrations**
**APPROVED**

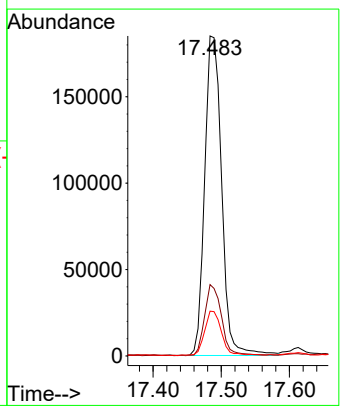
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

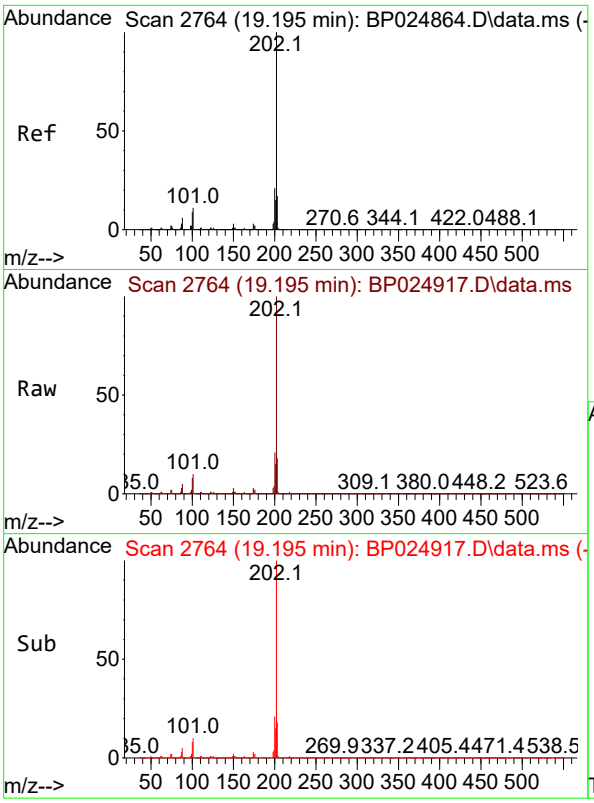



#73
Carbazole
Concen: 5.790 ng
RT: 17.483 min Scan# 2473
Delta R.T. -0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:167 Resp: 321499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.3 | 17.3 | 25.9 |
| 139 | 14.0 | 10.8 | 16.2 |

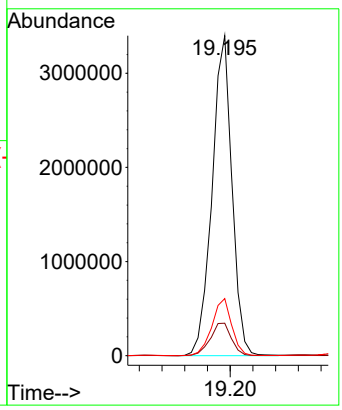





#75
Fluoranthene
Concen: 60.320 ng
RT: 19.195 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:202 Resp: 413570

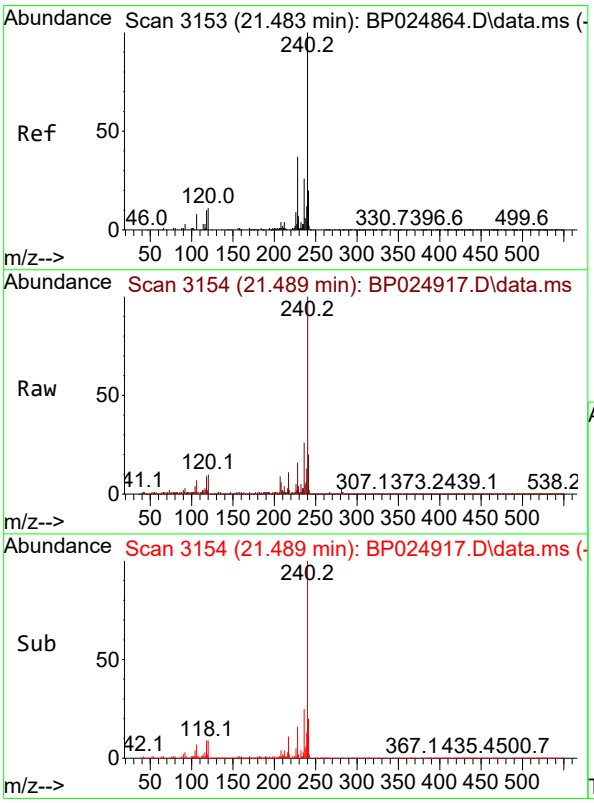
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.2 | 0.0 | 31.4 |
| 203 | 17.9 | 0.0 | 37.5 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

**Manual Integrations**
**APPROVED**

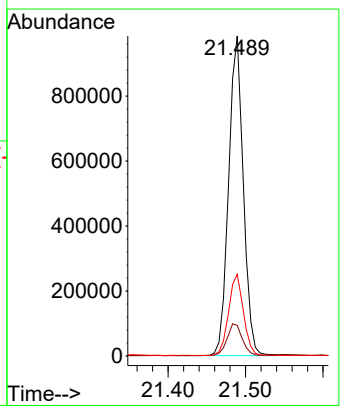
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

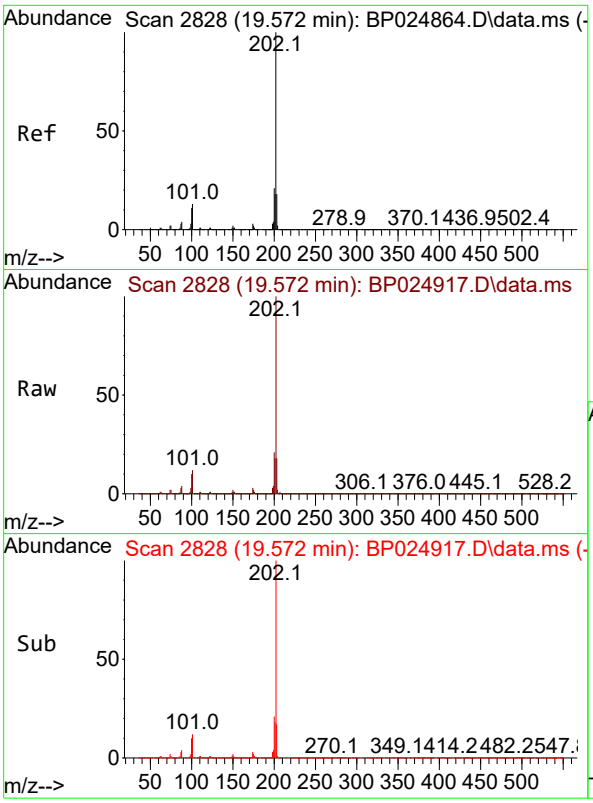



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.489 min Scan# 3154
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:240 Resp: 1300156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.6 | 8.9 | 13.3 |
| 236 | 25.6 | 20.9 | 31.3 |

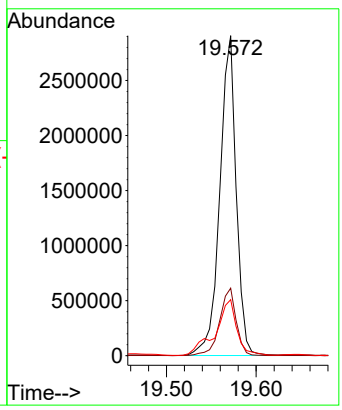





#78
Pyrene
Concen: 45.446 ng
RT: 19.572 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:202 Resp: 369140

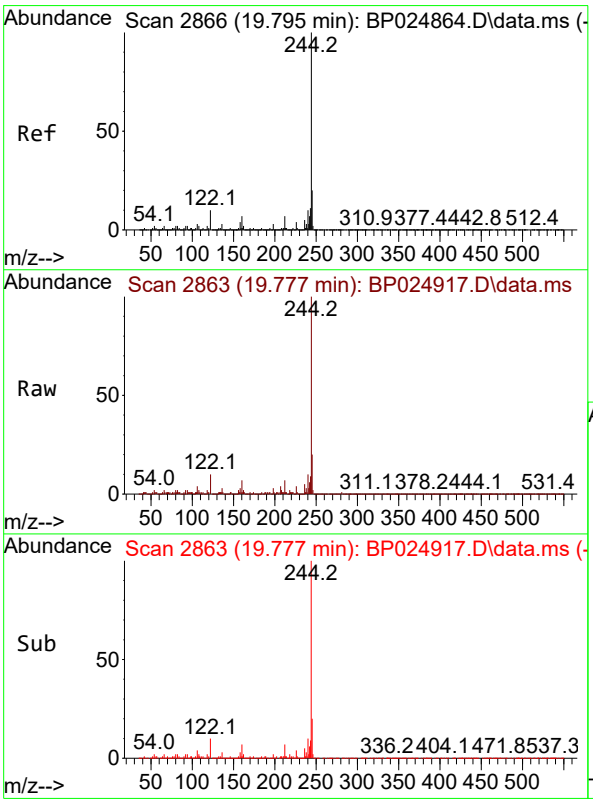
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 17.1 | 25.7 |
| 203 | 17.5 | 14.0 | 21.0 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

**Manual Integrations**
**APPROVED**

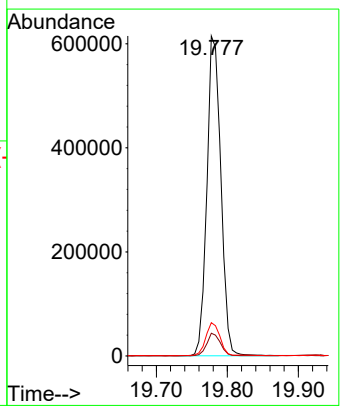
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

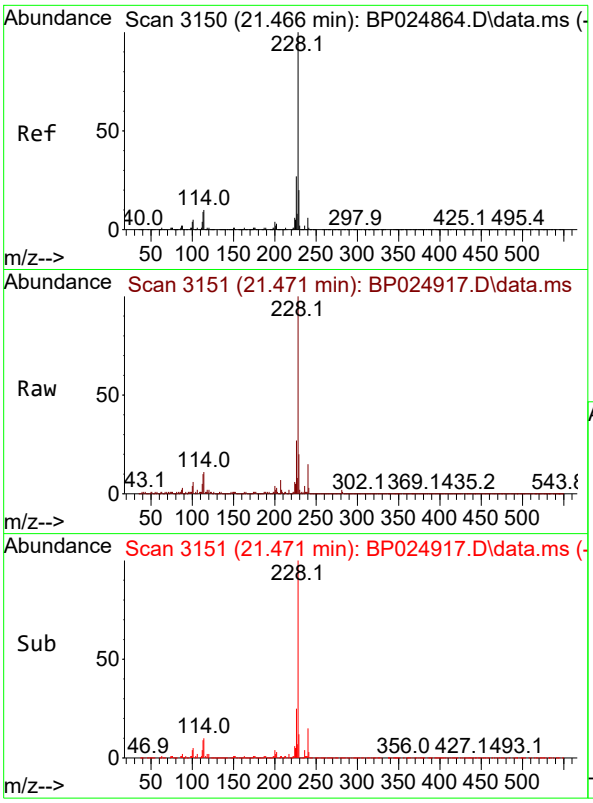



#79
Terphenyl-d14
Concen: 11.627 ng
RT: 19.777 min Scan# 2863
Delta R.T. -0.018 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:244 Resp: 843470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 5.6 | 8.4 |
| 122 | 10.4 | 7.7 | 11.5 |

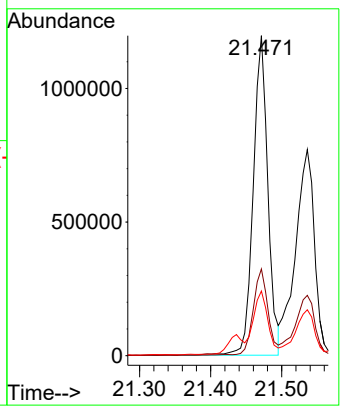





#81
Benzo(a)anthracene
Concen: 20.526 ng
RT: 21.471 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:228 Resp: 170683

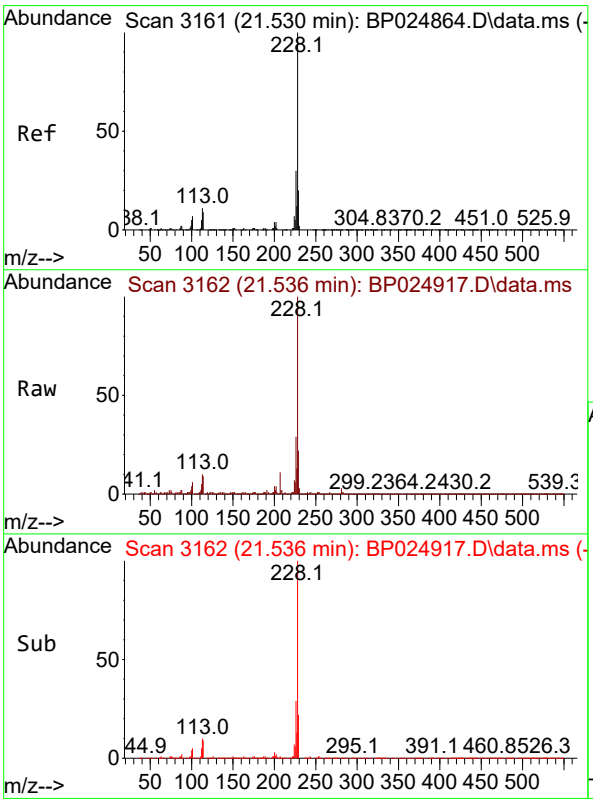
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.1 | 22.1 | 33.1 |
| 229 | 20.2 | 15.9 | 23.9 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

**Manual Integrations**
**APPROVED**

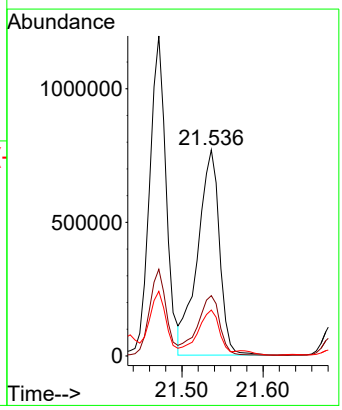
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

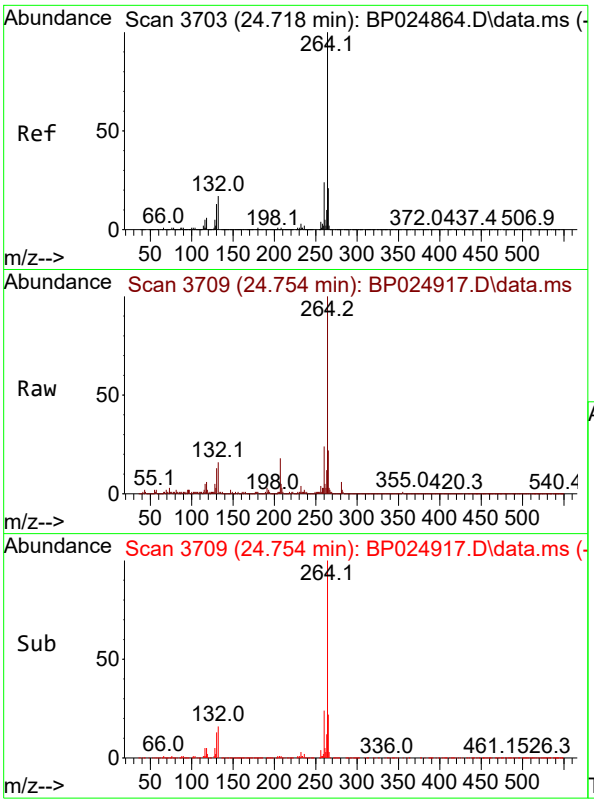



#83
Chrysene
Concen: 18.244 ng
RT: 21.536 min Scan# 3162
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:228 Resp: 1437484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.3 | 23.8 | 35.6 |
| 229 | 22.3 | 15.6 | 23.4 |

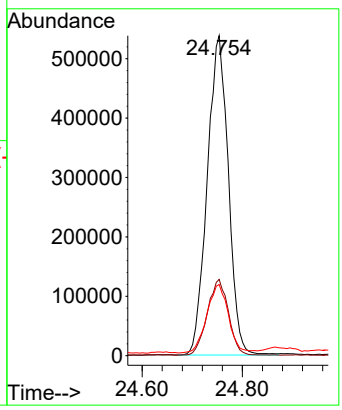





#86
Perylene-d12
Concen: 20.000 ng
RT: 24.754 min Scan# 3
Delta R.T. 0.035 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:264 Resp: 157124

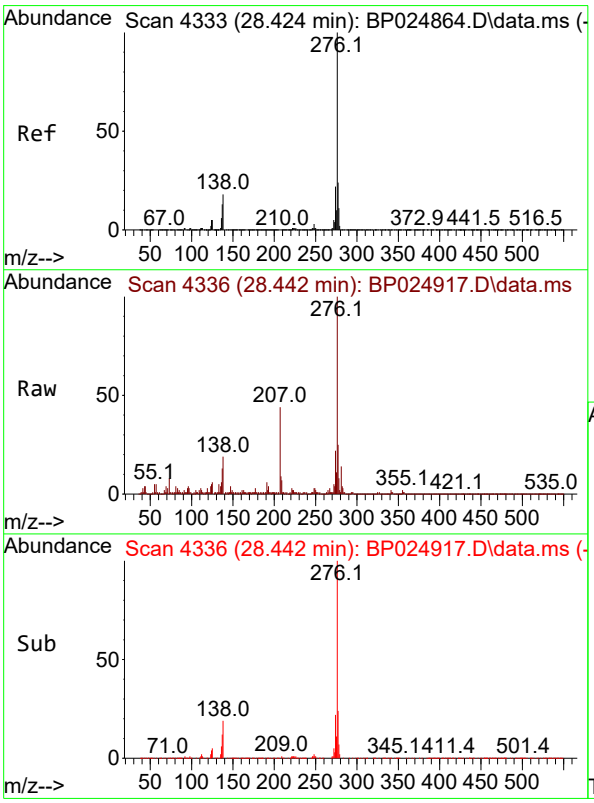
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.9 | 19.0 | 28.4 |
| 265 | 22.2 | 17.4 | 26.0 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

**Manual Integrations**
**APPROVED**

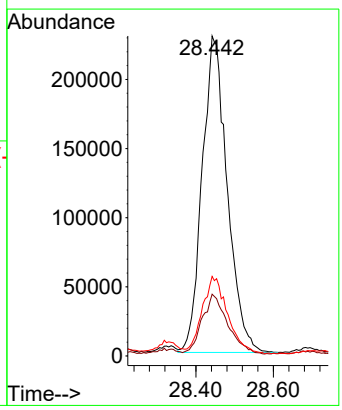
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

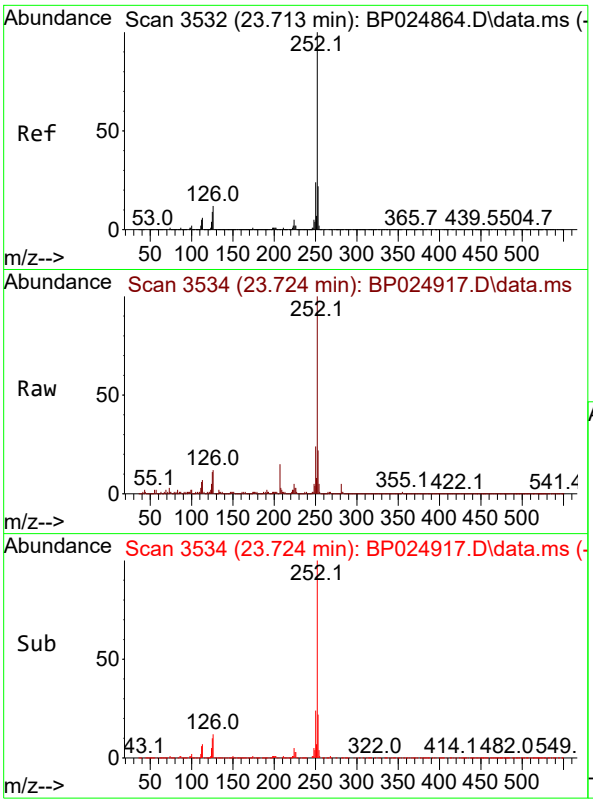



#87
Indeno(1,2,3-cd)pyrene
Concen: 8.982 ng
RT: 28.442 min Scan# 4336
Delta R.T. 0.018 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:276 Resp: 1029739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 19.2 | 18.6 | 27.8 |
| 277 | 24.4 | 20.2 | 30.4 |






#88
Benzo(b)fluoranthene
Concen: 21.208 ng
RT: 23.724 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

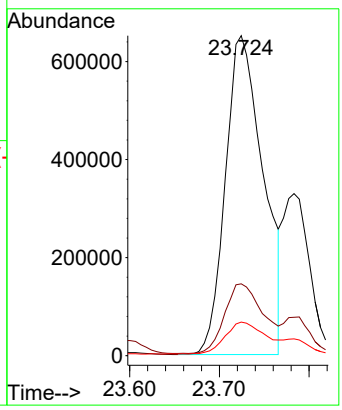
**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

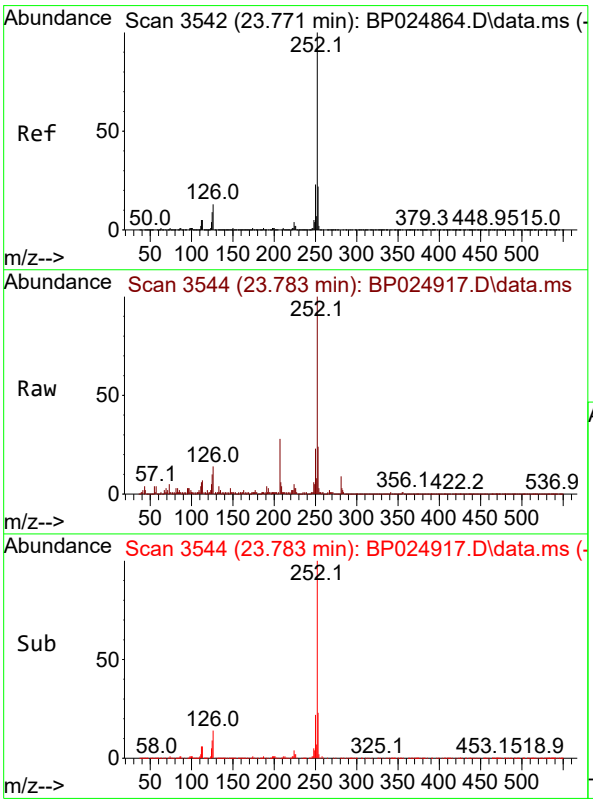
Tgt Ion:252 Resp: 190706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.5 | 17.6 | 26.4 |
| 125 | 10.5 | 7.1 | 10.7 |

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

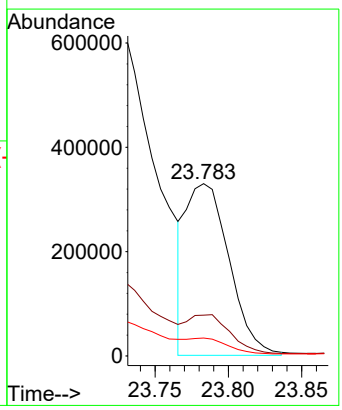


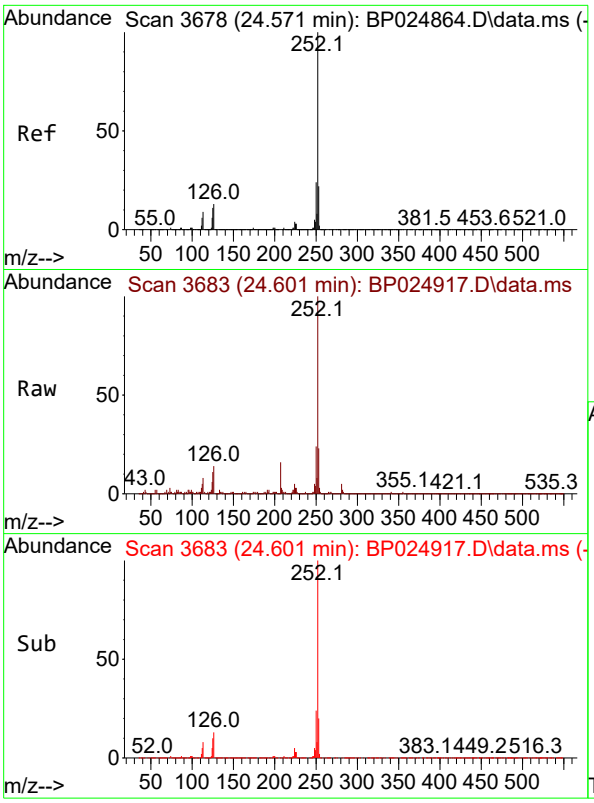




#89
Benzo(k)fluoranthene
Concen: 7.356 ng m
RT: 23.783 min Scan# 3544
Delta R.T. 0.012 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:252 Resp: 673277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.7 | 17.7 | 26.5 |
| 125 | 10.4 | 7.4 | 11.0 |

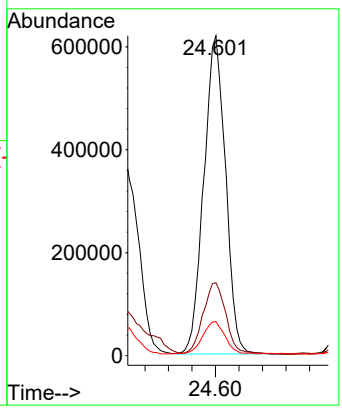





#90
Benzo(a)pyrene
Concen: 18.072 ng
RT: 24.601 min Scan# 3
Delta R.T. 0.029 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:252 Resp: 158705

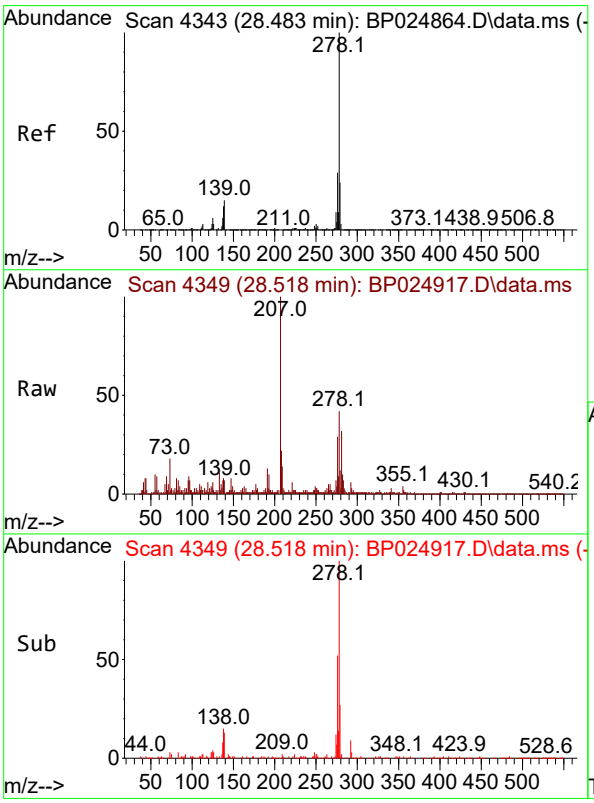
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.8 | 17.5 | 26.3 |
| 125 | 10.7 | 8.8 | 13.2 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

**Manual Integrations**
**APPROVED**

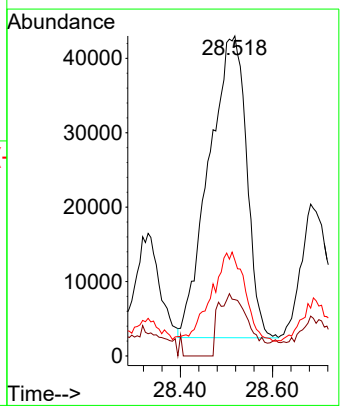
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

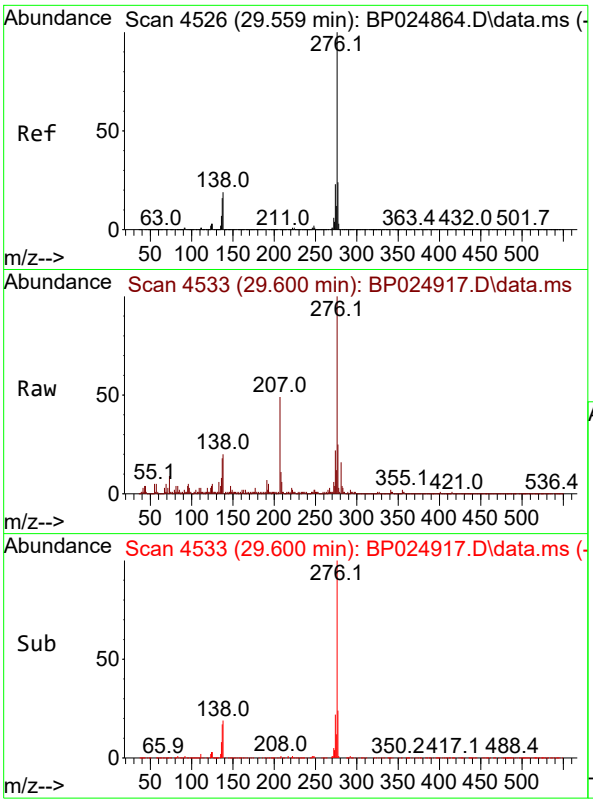



#91
Dibenzo(a,h)anthracene
Concen: 2.459 ng
RT: 28.518 min Scan# 4349
Delta R.T. 0.035 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:278 Resp: 229499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.6 | 12.0 | 18.0 |
| 279 | 29.9 | 19.1 | 28.7# |

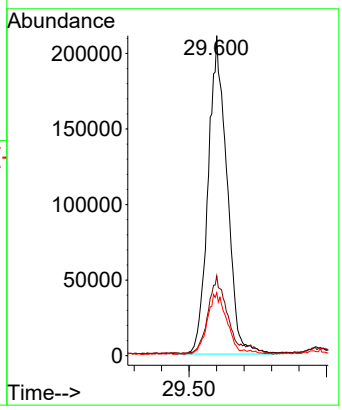





#92
Benzo(g,h,i)perylene
Concen: 10.808 ng
RT: 29.600 min Scan# 4
Delta R.T. 0.041 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:276 Resp: 100065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.0 | 19.1 | 28.7 |
| 138 | 19.7 | 15.4 | 23.2 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-187-SB01DL

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Time: Jun 06 22:56:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

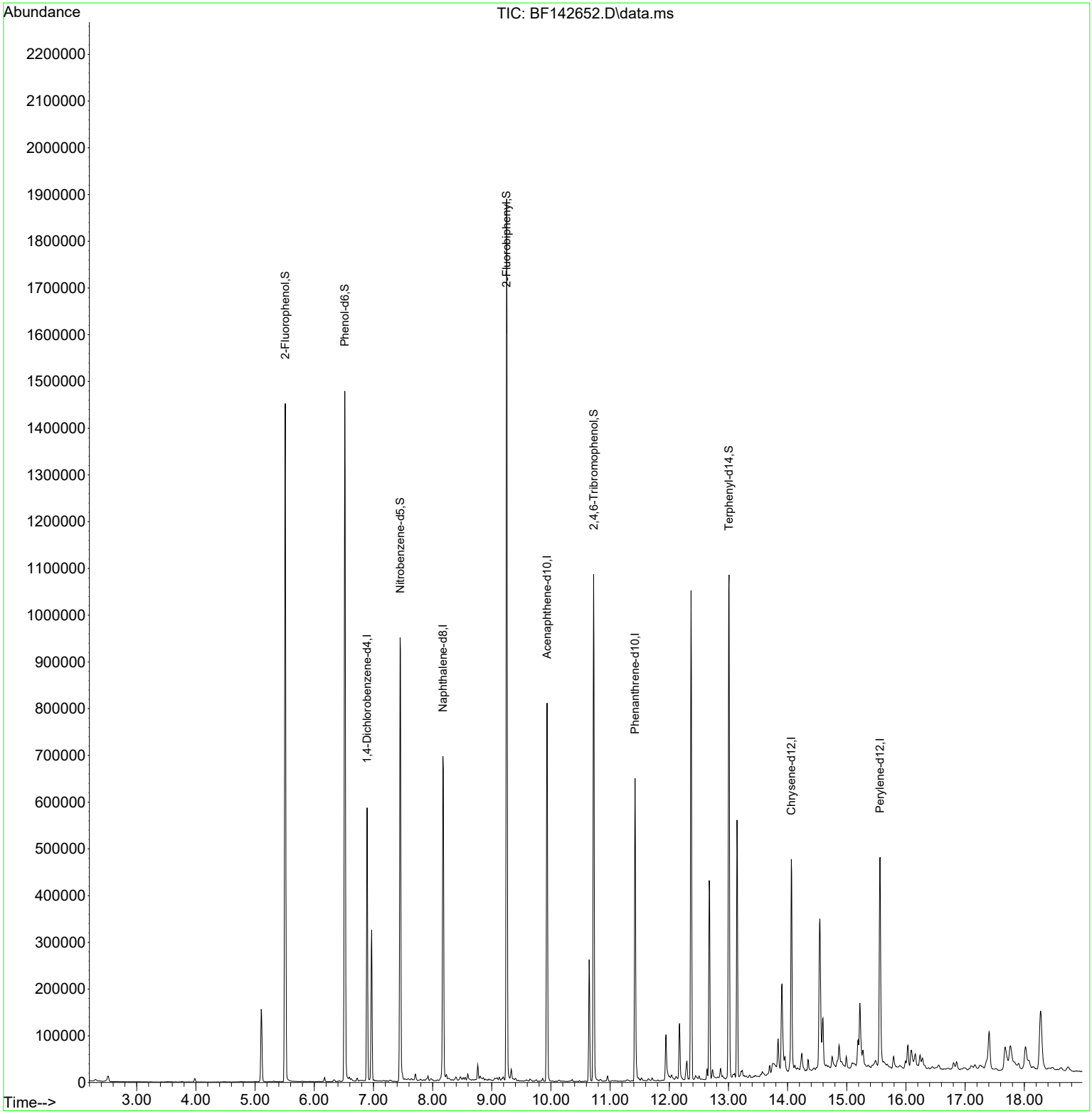
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.892 | 152 | 127118 | 20.000 | ng | -0.01 |
| 21) Naphthalene-d8 | 8.175 | 136 | 464348 | 20.000 | ng | -0.01 |
| 39) Acenaphthene-d10 | 9.933 | 164 | 242206 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.422 | 188 | 341702 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 14.063 | 240 | 233121 | 20.000 | ng | -0.01 |
| 86) Perylene-d12 | 15.562 | 264 | 281873 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.510 | 112 | 567965 | 75.275 | ng | 0.00 |
| 7) Phenol-d6 | 6.516 | 99 | 709724 | 78.141 | ng | -0.02 |
| 23) Nitrobenzene-d5 | 7.451 | 82 | 418235 | 49.114 | ng | -0.02 |
| 42) 2,4,6-Tribromophenol | 10.722 | 330 | 192758 | 71.706 | ng | -0.02 |
| 45) 2-Fluorobiphenyl | 9.251 | 172 | 851469 | 47.173 | ng | -0.02 |
| 79) Terphenyl-d14 | 13.010 | 244 | 546241 | 32.020 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

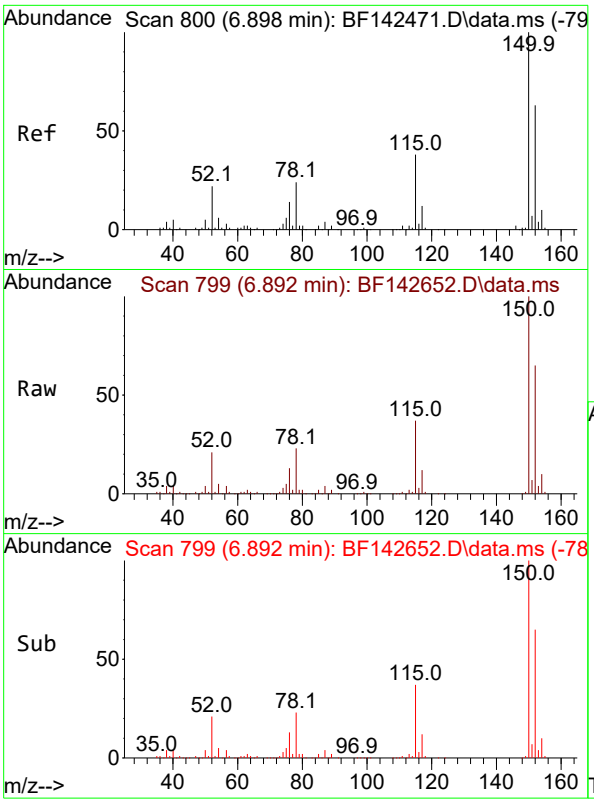
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Time: Jun 06 22:56:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



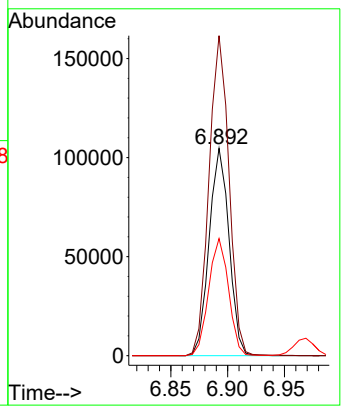


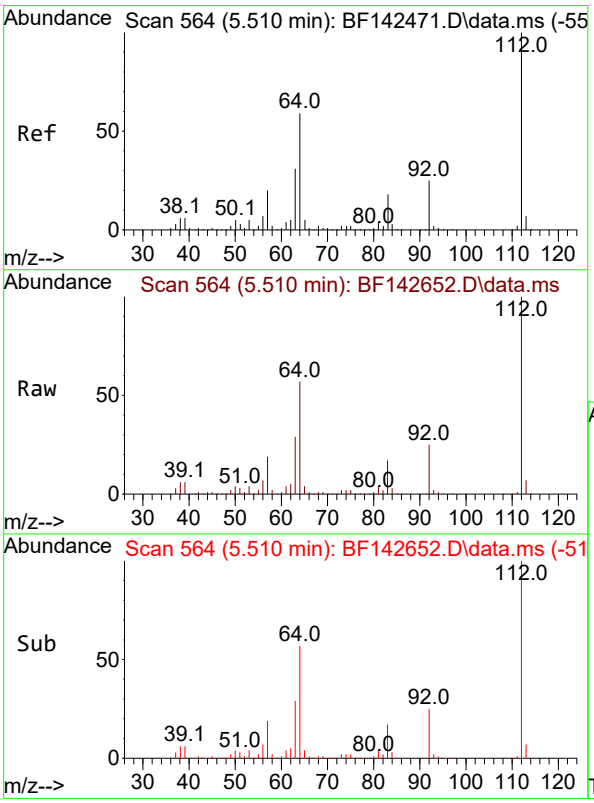

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142652.D
Acq: 06 Jun 2025 18:01

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Tgt Ion:152 Resp: 127118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.4 | 128.2 | 192.4 |
| 115 | 56.5 | 48.3 | 72.5 |

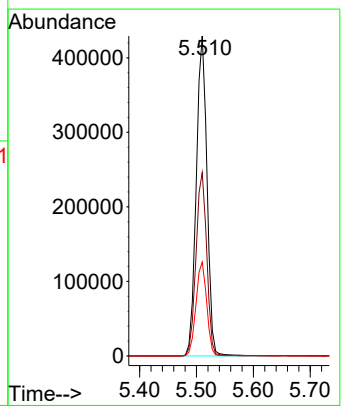


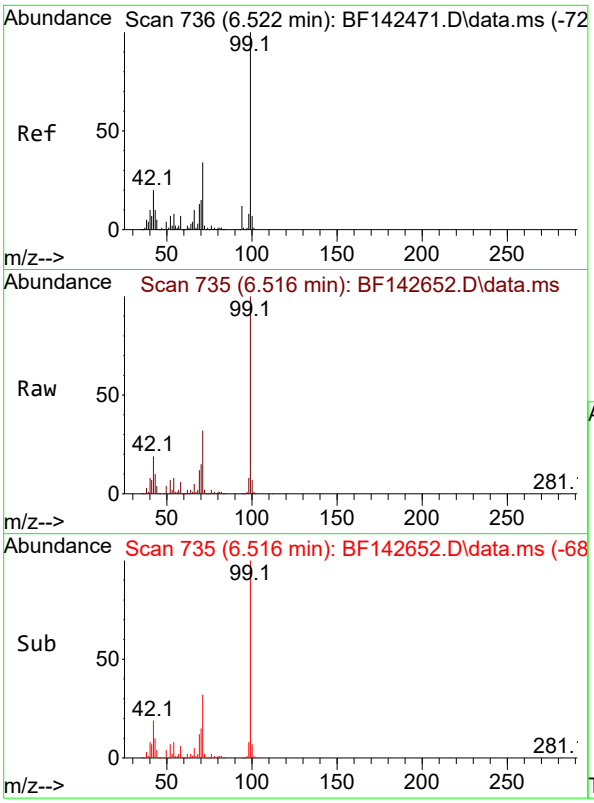

#5
2-Fluorophenol
Concen: 75.275 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142652.D
Acq: 06 Jun 2025 18:01

Tgt Ion:112 Resp: 567965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 57.3 | 47.5 | 71.3 |
| 63 | 29.4 | 24.9 | 37.3 |



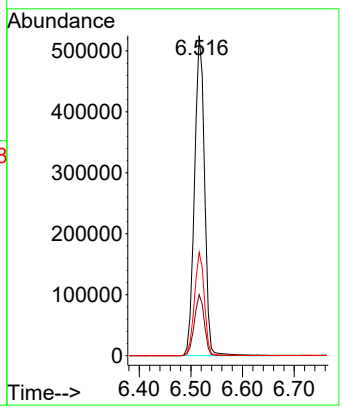
**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

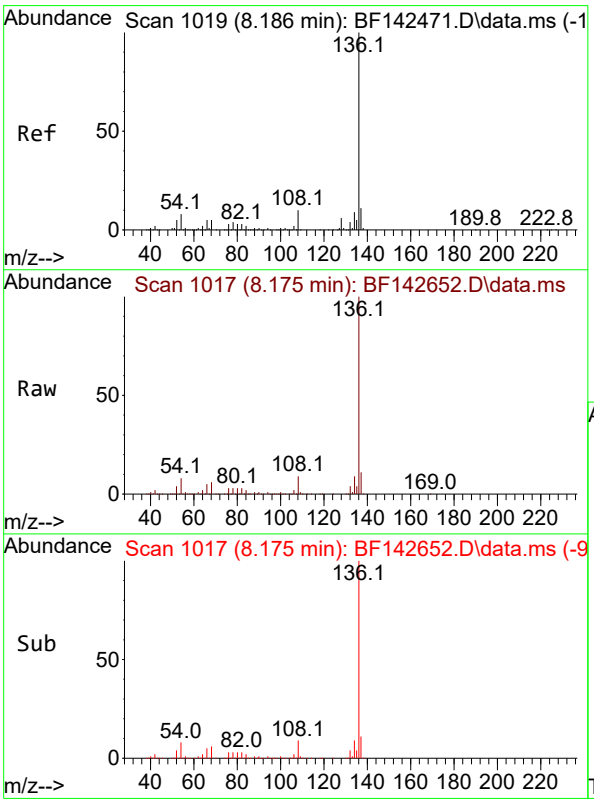



#7
Phenol-d6
Concen: 78.141 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142652.D
Acq: 06 Jun 2025 18:01

Tgt Ion: 99 Resp: 709724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.0 | 16.2 | 24.2 |
| 71 | 32.2 | 27.3 | 40.9 |

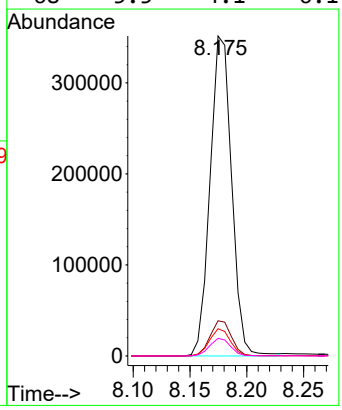


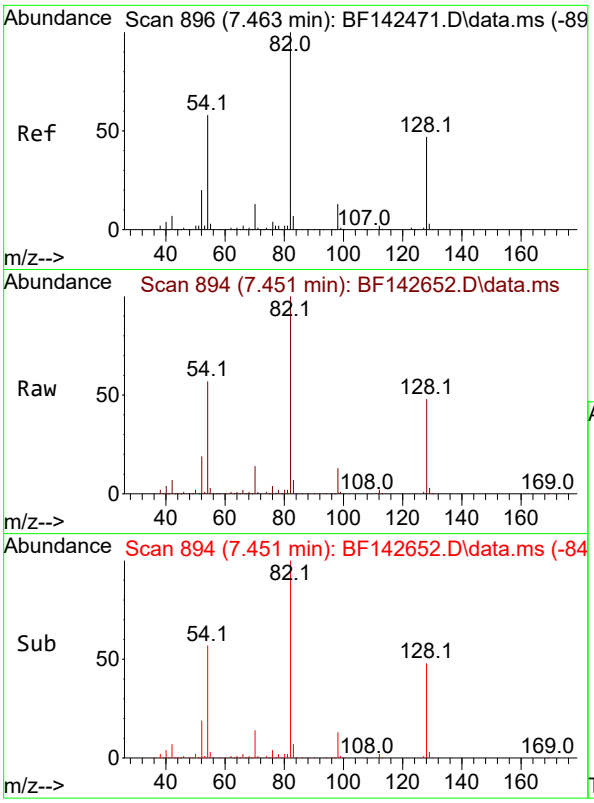




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1017
Delta R.T. -0.012 min
Lab File: BF142652.D
Acq: 06 Jun 2025 18:01

Tgt Ion:136 Resp: 464348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.6 | 13.0 |
| 54 | 8.5 | 6.6 | 10.0 |
| 68 | 5.5 | 4.1 | 6.1 |



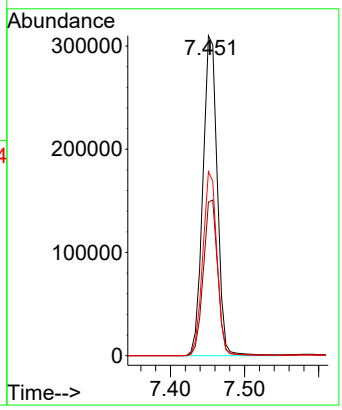


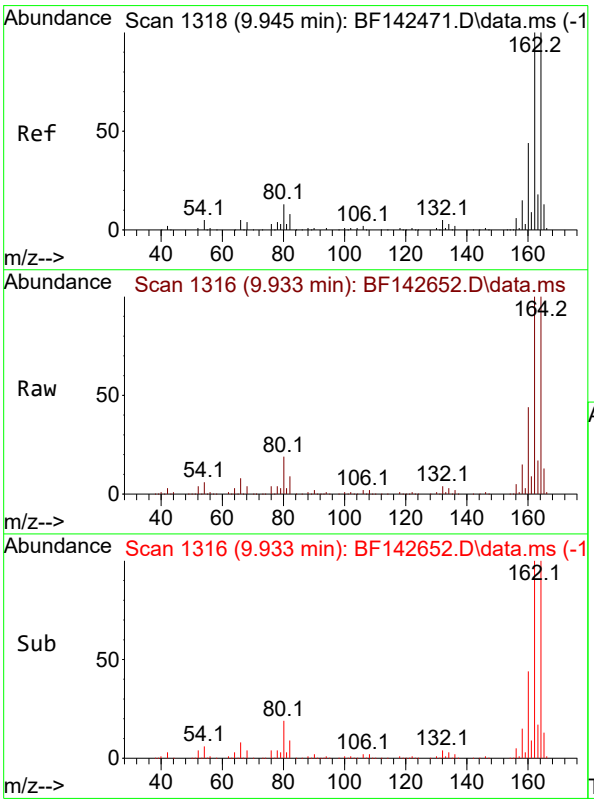

#23
Nitrobenzene-d5
Concen: 49.114 ng
RT: 7.451 min Scan# 8
Delta R.T. -0.023 min
Lab File: BF142652.D
Acq: 06 Jun 2025 18:01

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Tgt Ion: 82 Resp: 418235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.0 | 37.4 | 56.2 |
| 54 | 57.5 | 46.6 | 70.0 |

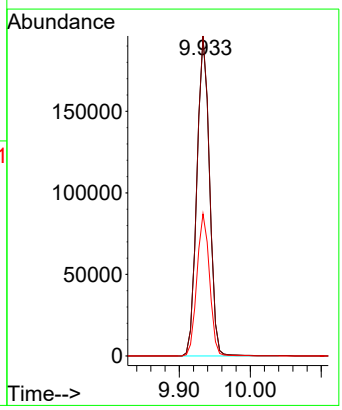


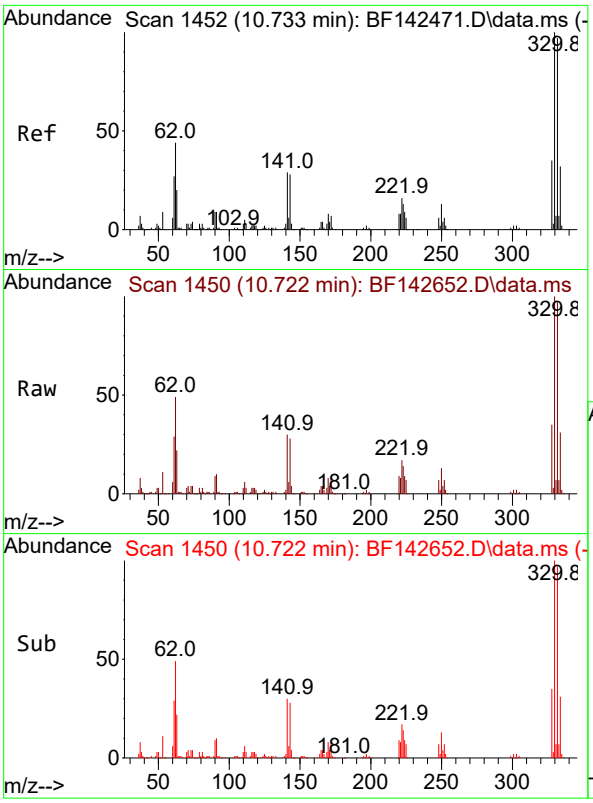




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142652.D
Acq: 06 Jun 2025 18:01

Tgt Ion:164 Resp: 242206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.4 | 80.2 | 120.4 |
| 160 | 44.6 | 35.6 | 53.4 |



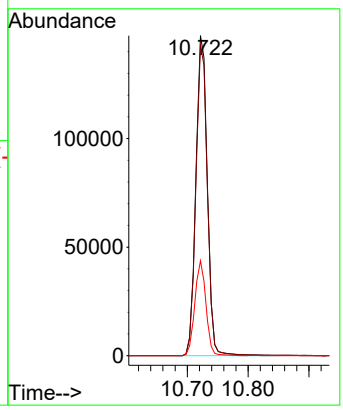


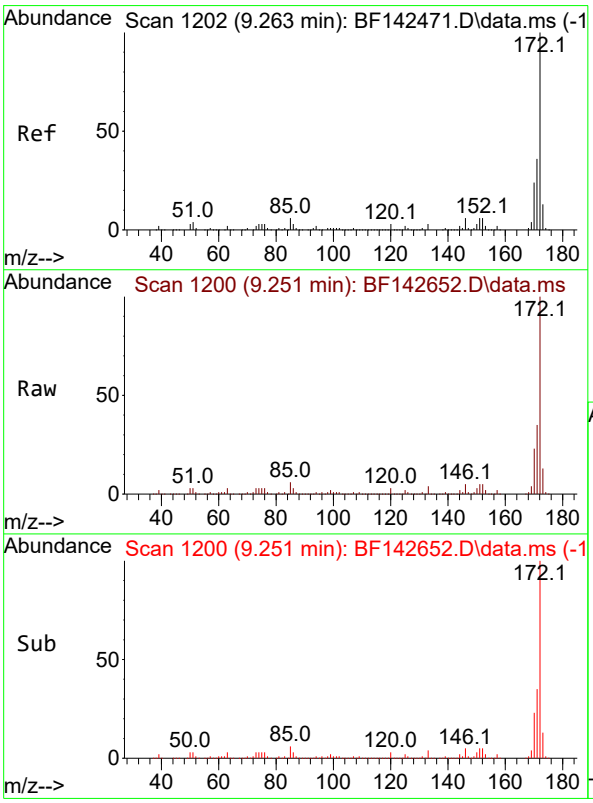

#42
2,4,6-Tribromophenol
Concen: 71.706 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF142652.D
Acq: 06 Jun 2025 18:01

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Tgt Ion:330 Resp: 192758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.1 | 77.6 | 116.4 |
| 141 | 28.8 | 24.6 | 36.8 |

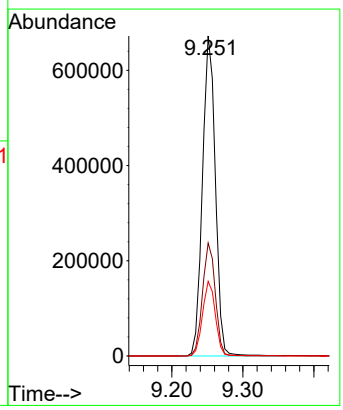


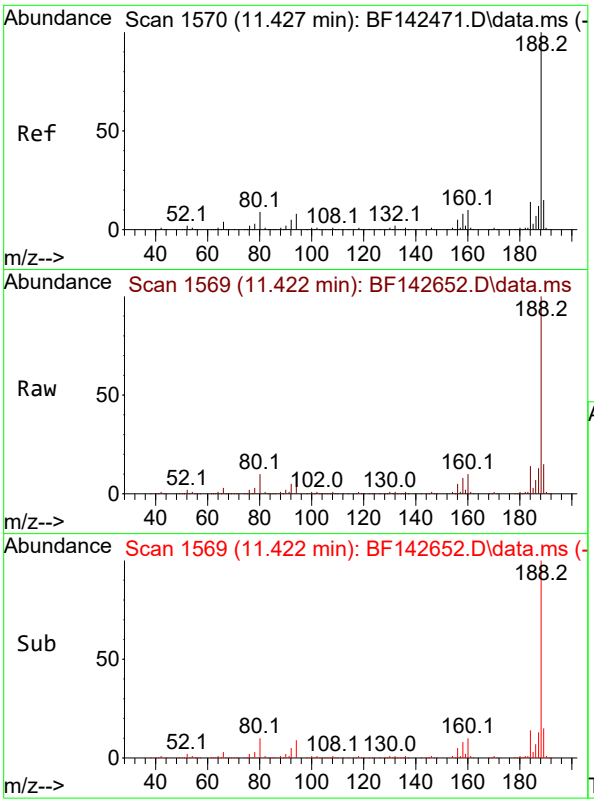




#45
2-Fluorobiphenyl
Concen: 47.173 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.018 min
Lab File: BF142652.D
Acq: 06 Jun 2025 18:01

Tgt Ion:172 Resp: 851469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.3 | 28.6 | 42.8 |
| 170 | 23.3 | 18.9 | 28.3 |



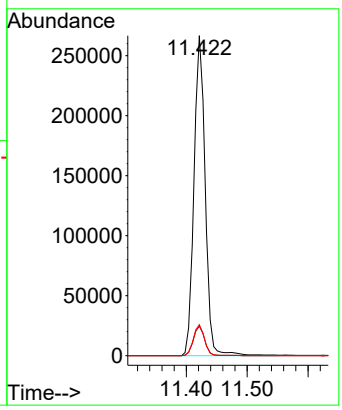


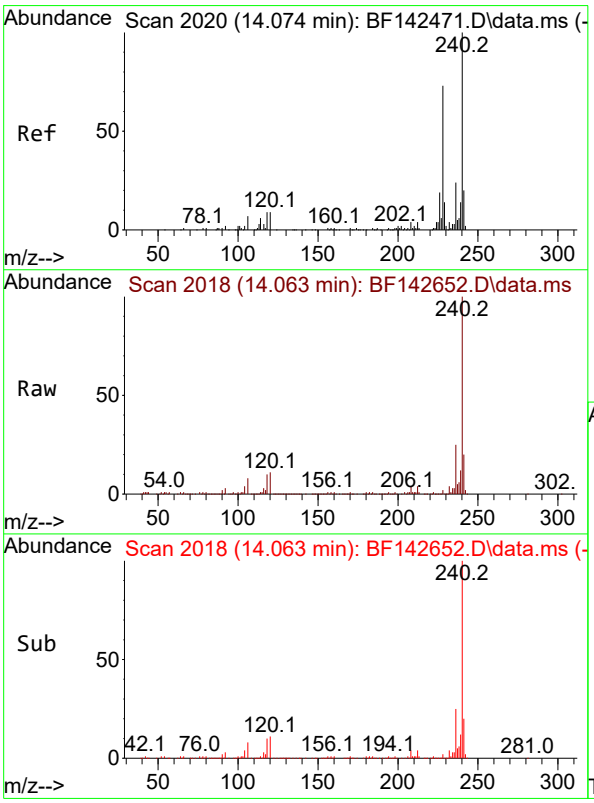

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142652.D
Acq: 06 Jun 2025 18:01

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Tgt Ion:188 Resp: 341702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.3 | 6.6 | 10.0 |
| 80 | 9.7 | 7.4 | 11.0 |

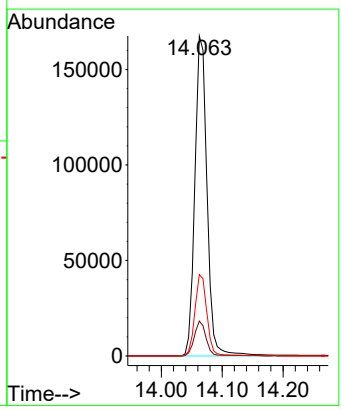


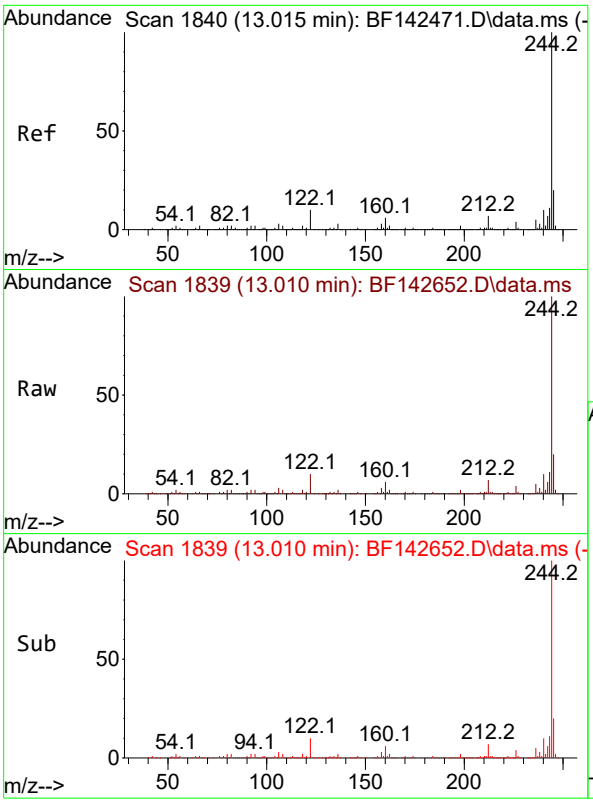




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142652.D
Acq: 06 Jun 2025 18:01

Tgt Ion:240 Resp: 233121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.9 | 7.5 | 11.3 |
| 236 | 25.5 | 19.6 | 29.4 |



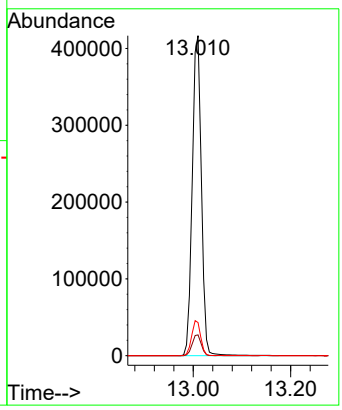


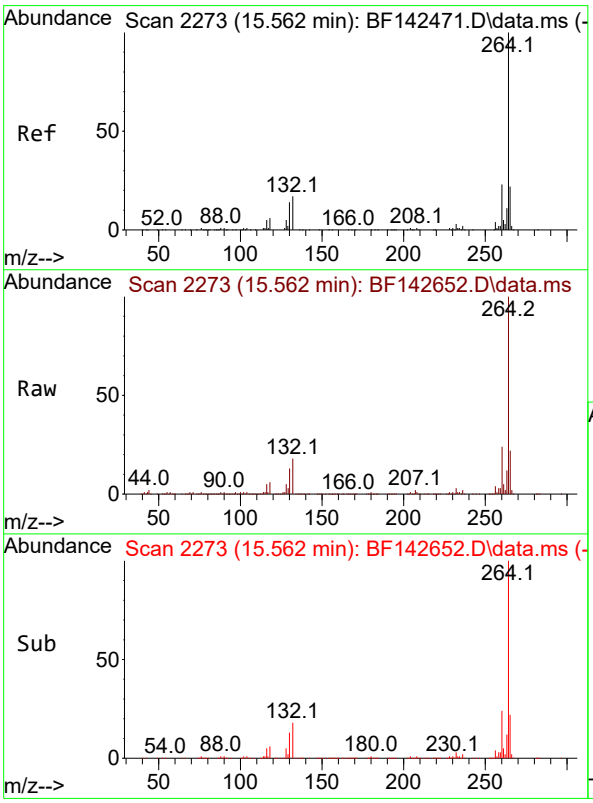

#79
Terphenyl-d14
Concen: 32.020 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142652.D
Acq: 06 Jun 2025 18:01

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Tgt Ion:244 Resp: 546241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.5 | 5.3 | 7.9 |
| 122 | 10.3 | 8.2 | 12.2 |

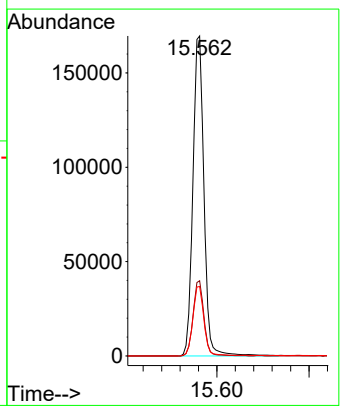



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142652.D
Acq: 06 Jun 2025 18:01

Tgt Ion:264 Resp: 281873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.5 | 18.6 | 28.0 |
| 265 | 21.7 | 17.7 | 26.5 |



Sample Results: **BF142652.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142652.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.516 | 46 | 55 | 64 | rVB2 | 11970 | 27127 | 1.15% | 0.121% |
| 2 | 5.104 | 484 | 495 | 506 | rBV | 155212 | 225793 | 9.55% | 1.009% |
| 3 | 5.510 | 558 | 564 | 569 | rBV | 1451376 | 1908627 | 80.73% | 8.527% |
| 4 | 6.516 | 729 | 735 | 745 | rBV | 1475421 | 1997053 | 84.47% | 8.922% |
| 5 | 6.892 | 794 | 799 | 804 | rBV | 583883 | 712185 | 30.12% | 3.182% |
| 6 | 6.969 | 806 | 812 | 817 | rVB | 321378 | 397406 | 16.81% | 1.776% |
| 7 | 7.451 | 888 | 894 | 905 | rBV | 949590 | 1291747 | 54.63% | 5.771% |
| 8 | 8.175 | 1005 | 1017 | 1024 | rBV | 693439 | 939176 | 39.72% | 4.196% |
| 9 | 8.763 | 1112 | 1117 | 1121 | rBV | 31837 | 39932 | 1.69% | 0.178% |
| 10 | 9.251 | 1195 | 1200 | 1209 | rBV | 1884905 | 2364331 | 100.00% | 10.563% |
| 11 | 9.328 | 1209 | 1213 | 1219 | rVB | 21121 | 28246 | 1.19% | 0.126% |
| 12 | 9.933 | 1311 | 1316 | 1329 | rVB | 808971 | 1002964 | 42.42% | 4.481% |
| 13 | 10.645 | 1432 | 1437 | 1445 | rBV | 260533 | 320857 | 13.57% | 1.434% |
| 14 | 10.722 | 1445 | 1450 | 1461 | rBV | 1083998 | 1385821 | 58.61% | 6.192% |
| 15 | 11.422 | 1564 | 1569 | 1577 | rBV | 647965 | 840440 | 35.55% | 3.755% |
| 16 | 11.945 | 1652 | 1658 | 1666 | rBV | 97357 | 163227 | 6.90% | 0.729% |
| 17 | 12.174 | 1692 | 1697 | 1708 | rVB | 120372 | 167319 | 7.08% | 0.748% |
| 18 | 12.298 | 1711 | 1718 | 1722 | rBV2 | 39572 | 67788 | 2.87% | 0.303% |
| 19 | 12.369 | 1725 | 1730 | 1735 | rVV | 1044997 | 1292354 | 54.66% | 5.774% |
| 20 | 12.639 | 1771 | 1776 | 1778 | rBV | 21455 | 26457 | 1.12% | 0.118% |
| 21 | 12.674 | 1778 | 1782 | 1787 | rVV | 424890 | 544074 | 23.01% | 2.431% |
| 22 | 12.733 | 1787 | 1792 | 1802 | rVV2 | 18530 | 34092 | 1.44% | 0.152% |
| 23 | 12.868 | 1810 | 1815 | 1818 | rBV | 19316 | 26764 | 1.13% | 0.120% |
| 24 | 13.010 | 1833 | 1839 | 1847 | rVB | 1074751 | 1416258 | 59.90% | 6.328% |
| 25 | 13.145 | 1857 | 1862 | 1867 | rBV | 549856 | 680169 | 28.77% | 3.039% |
| 26 | 13.233 | 1870 | 1877 | 1881 | rVB2 | 11839 | 25670 | 1.09% | 0.115% |
| 27 | 13.751 | 1959 | 1965 | 1967 | rBV4 | 19520 | 38814 | 1.64% | 0.173% |
| 28 | 13.839 | 1975 | 1980 | 1986 | rVB | 62782 | 89310 | 3.78% | 0.399% |
| 29 | 13.904 | 1986 | 1991 | 1997 | rBV | 180871 | 312479 | 13.22% | 1.396% |
| 30 | 14.063 | 2010 | 2018 | 2025 | rBV | 452699 | 651181 | 27.54% | 2.909% |
| 31 | 14.239 | 2042 | 2048 | 2058 | rVB4 | 36282 | 76781 | 3.25% | 0.343% |
| 32 | 14.345 | 2063 | 2066 | 2076 | rVB2 | 23182 | 32674 | 1.38% | 0.146% |
| 33 | 14.545 | 2093 | 2100 | 2105 | rBV3 | 316705 | 623758 | 26.38% | 2.787% |
| 34 | 14.598 | 2105 | 2109 | 2116 | rVB2 | 102583 | 169452 | 7.17% | 0.757% |
| 35 | 14.751 | 2131 | 2135 | 2146 | rBV3 | 23478 | 50012 | 2.12% | 0.223% |
| 36 | 14.868 | 2147 | 2155 | 2161 | rBV2 | 43818 | 92851 | 3.93% | 0.415% |

Sample Results: **BF142652.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 14.992 | 2172 | 2176 | 2184 | rVB | 24588 | 35875 | 1.52% | 0.160% |
| 38 | 15.192 | 2205 | 2210 | 2212 | rBV | 52651 | 86813 | 3.67% | 0.388% |
| 39 | 15.221 | 2212 | 2215 | 2221 | rVB | 115287 | 182739 | 7.73% | 0.816% |
| 40 | 15.562 | 2266 | 2273 | 2281 | rBV | 445083 | 748294 | 31.65% | 3.343% |
| 41 | 15.792 | 2307 | 2312 | 2319 | rBV | 24987 | 49399 | 2.09% | 0.221% |
| 42 | 16.033 | 2348 | 2353 | 2358 | rVV | 45714 | 76140 | 3.22% | 0.340% |
| 43 | 16.092 | 2358 | 2363 | 2369 | rVV2 | 32785 | 75154 | 3.18% | 0.336% |
| 44 | 16.156 | 2371 | 2374 | 2380 | rVB3 | 24332 | 38762 | 1.64% | 0.173% |
| 45 | 16.239 | 2384 | 2388 | 2392 | rBV3 | 21884 | 36911 | 1.56% | 0.165% |
| 46 | 16.856 | 2490 | 2493 | 2502 | rVB8 | 16816 | 30377 | 1.28% | 0.136% |
| 47 | 17.403 | 2580 | 2586 | 2597 | rVB2 | 79745 | 192328 | 8.13% | 0.859% |
| 48 | 17.674 | 2626 | 2632 | 2641 | rBV6 | 45048 | 141854 | 6.00% | 0.634% |
| 49 | 17.762 | 2642 | 2647 | 2658 | rVB7 | 36843 | 109288 | 4.62% | 0.488% |
| 50 | 18.021 | 2684 | 2691 | 2699 | rBV4 | 43179 | 127702 | 5.40% | 0.571% |
| 51 | 18.274 | 2725 | 2734 | 2751 | rVB2 | 124260 | 387620 | 16.39% | 1.732% |

Sum of corrected areas: 22382445

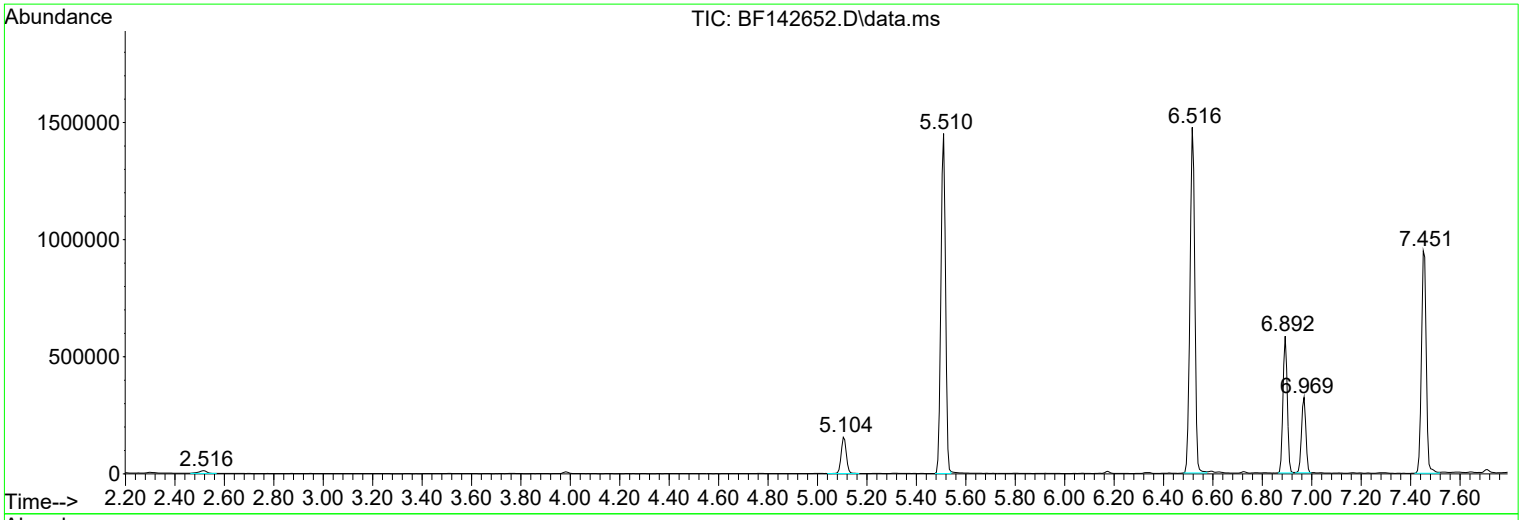
Sample Results: **BF142652.D**

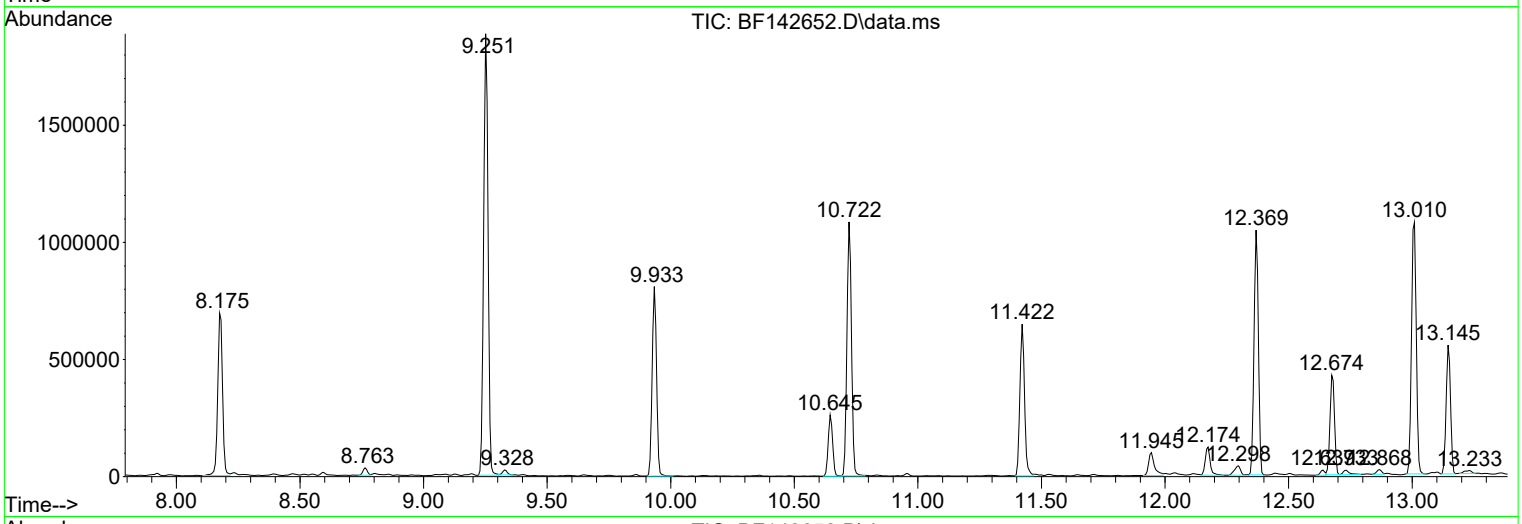
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

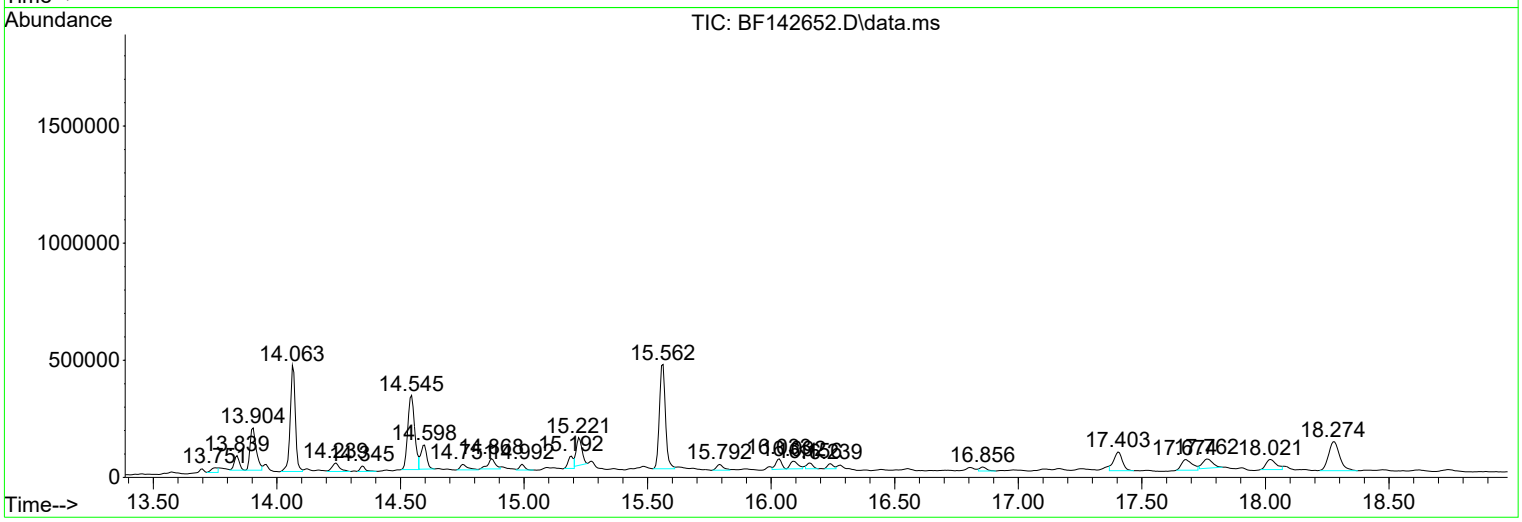
**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

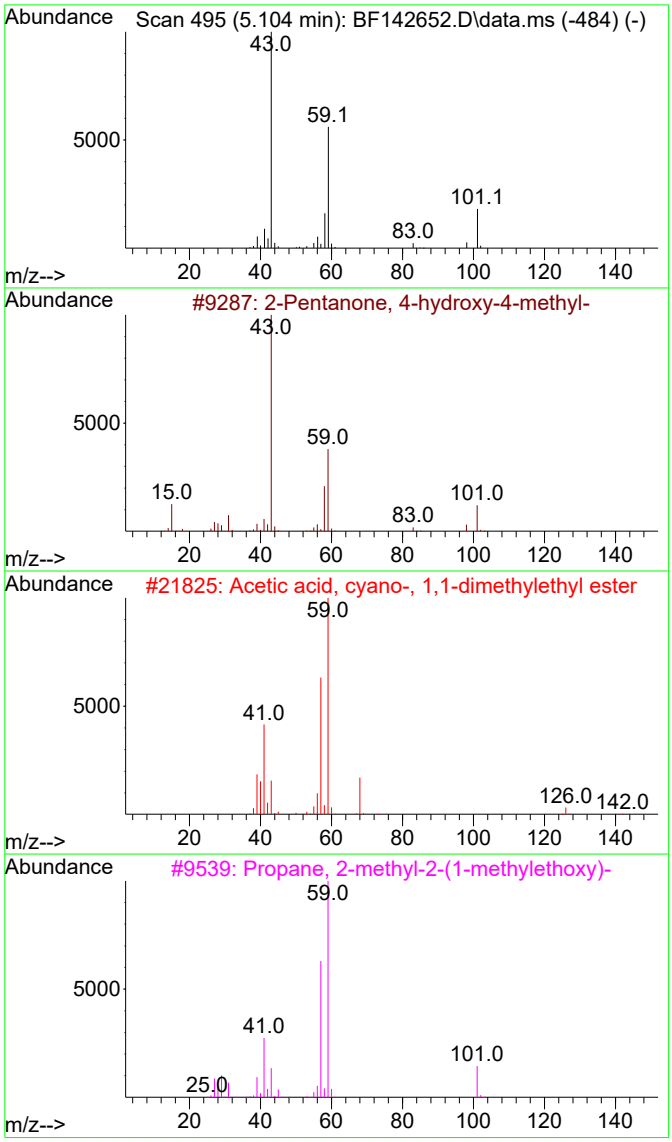
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

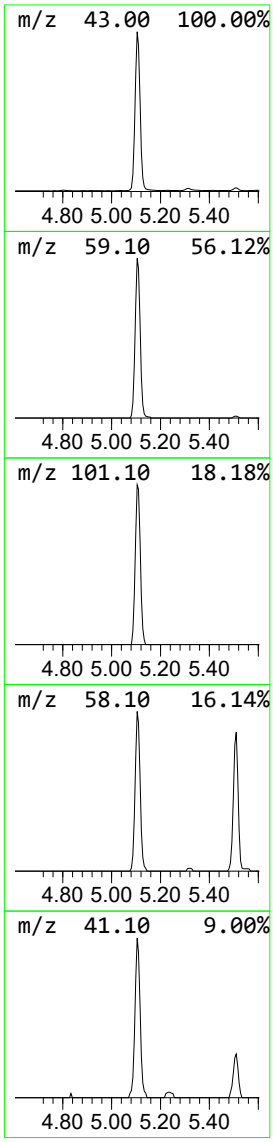
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.104 | 6.34 ng | 225793 | 1,4-Dichlorobenzene-d4 | 6.892 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 59 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 37 |
| 3 | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O | 017348-59-3 | 33 |
| 4 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 12 |
| 5 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 10 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

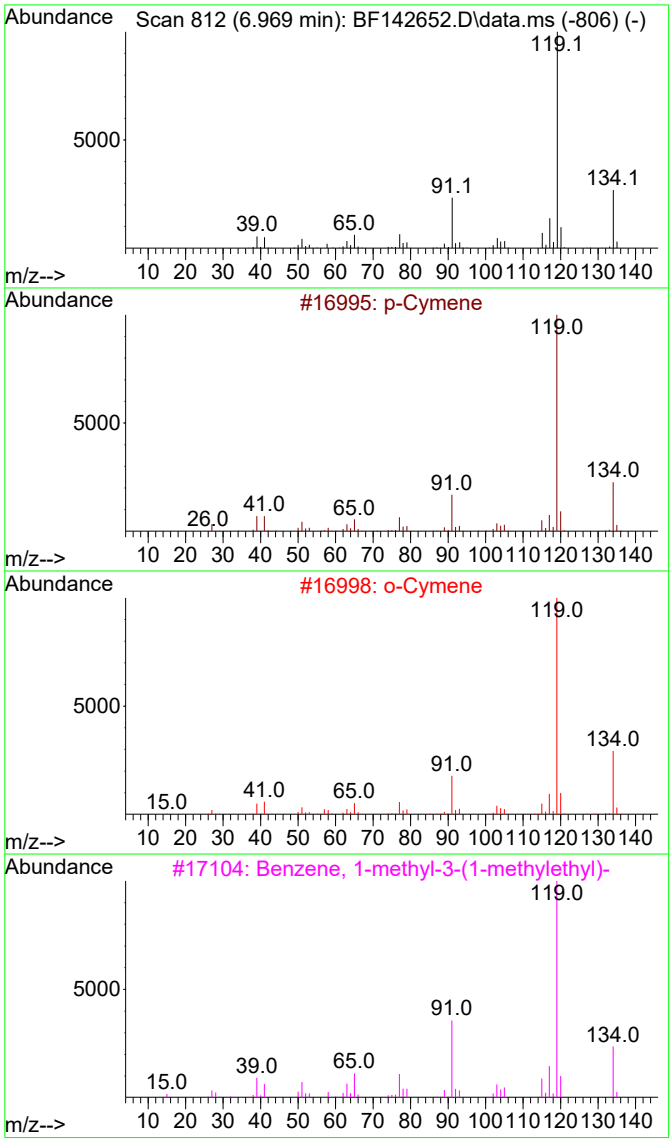
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

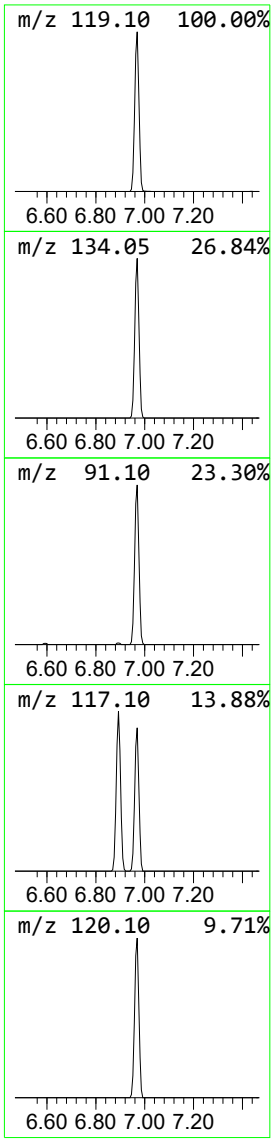
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Peak Number 2 p-Cymene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.969 | 11.16 ng | 397406 | 1,4-Dichlorobenzene-d4 | 6.892 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | p-Cymene | 134 | C10H14 | 000099-87-6 | 97 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 97 |
| 3 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 95 |
| 4 | 1,3,5-Cycloheptatriene, 3,7,7-tr... | 134 | C10H14 | 003479-89-8 | 94 |
| 5 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 91 |



Sample Results: **BF142652.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

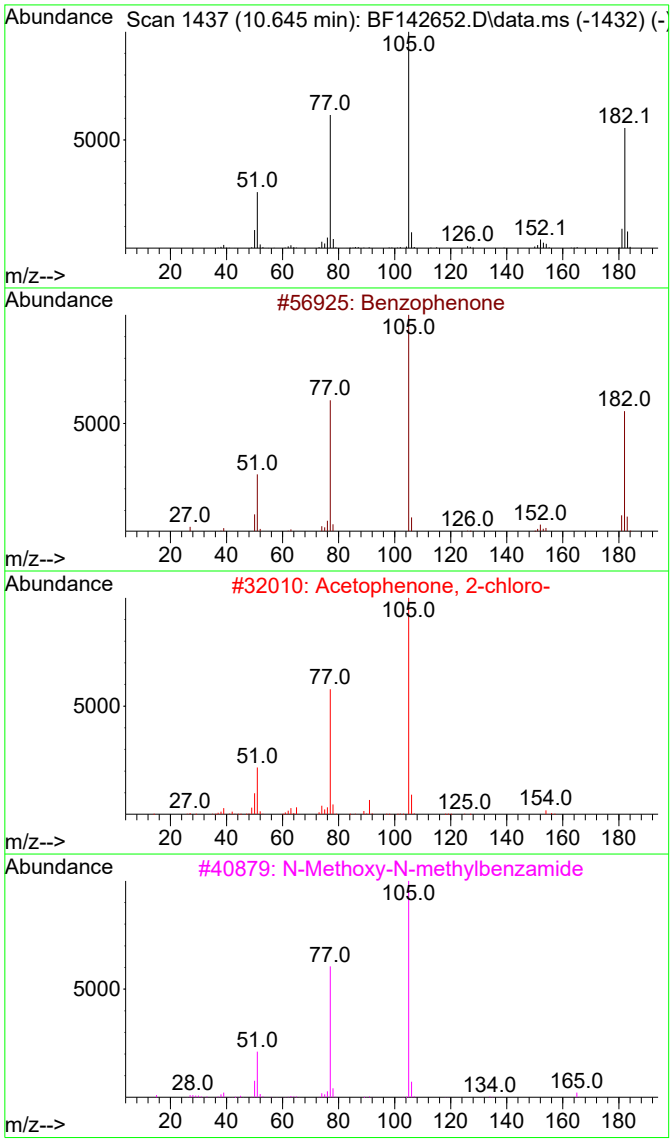
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

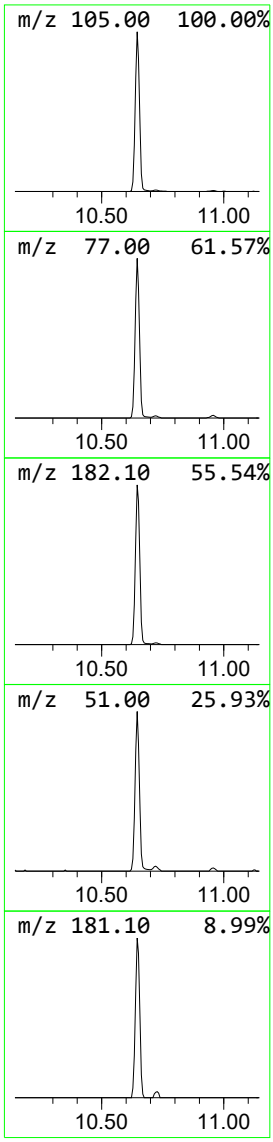
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Peak Number 3 Benzophenone Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.645 | 6.40 ng | 320857 | Acenaphthene-d10 | 9.933 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 96 |
| 2 | Acetophenone, 2-chloro- | 154 | C8H7ClO | 000532-27-4 | 49 |
| 3 | N-Methoxy-N-methylbenzamide | 165 | C9H11NO2 | 006919-61-5 | 47 |
| 4 | 2-(2-Oxo-2-phenyl-ethyl)-malonon... | 184 | C11H8N2O | 1000296-76-9 | 47 |
| 5 | Vinyl benzoate | 148 | C9H8O2 | 000769-78-8 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

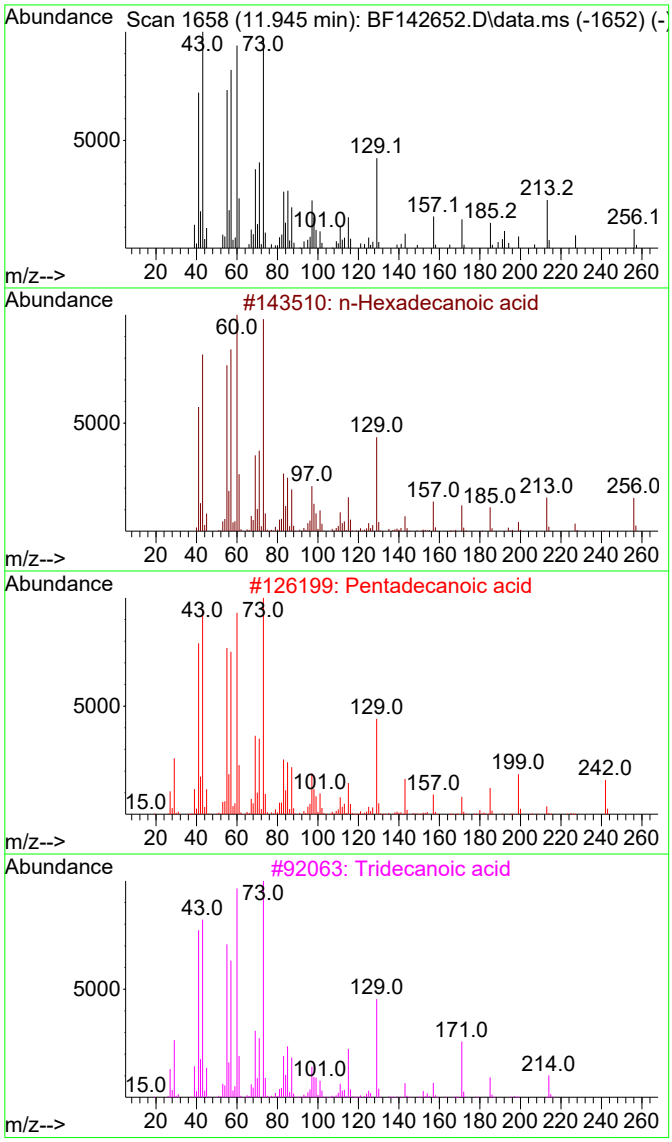
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

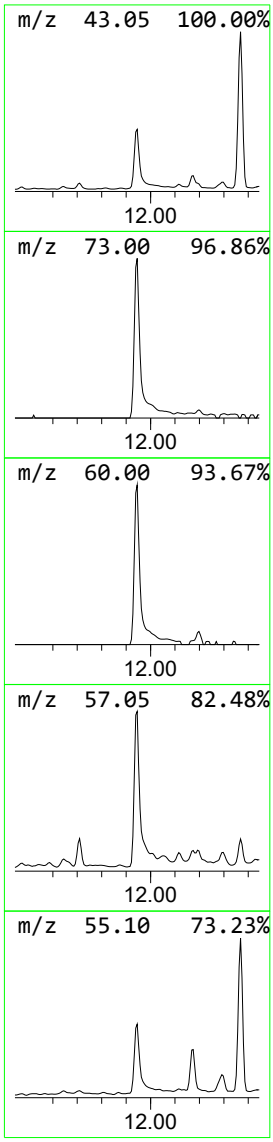
**********

Peak Number 4 n-Hexadecanoic acid Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.945 | 3.88 ng | 163227 | Phenanthrene-d10 | 11.422 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 93 |
| 3 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 90 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 80 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 76 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

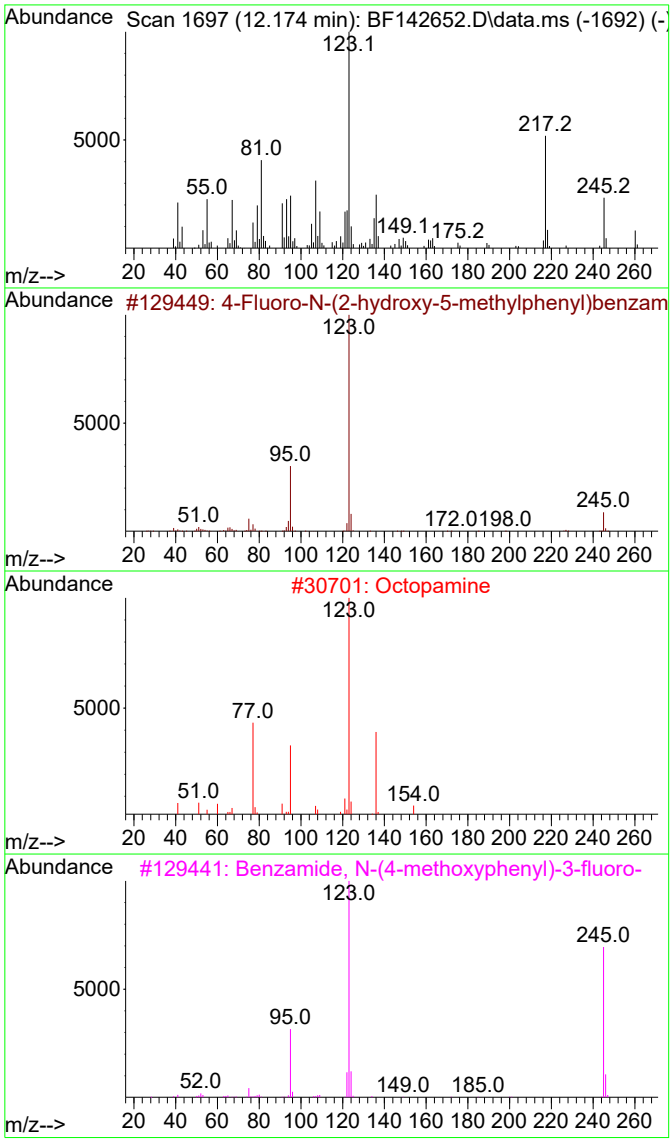
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

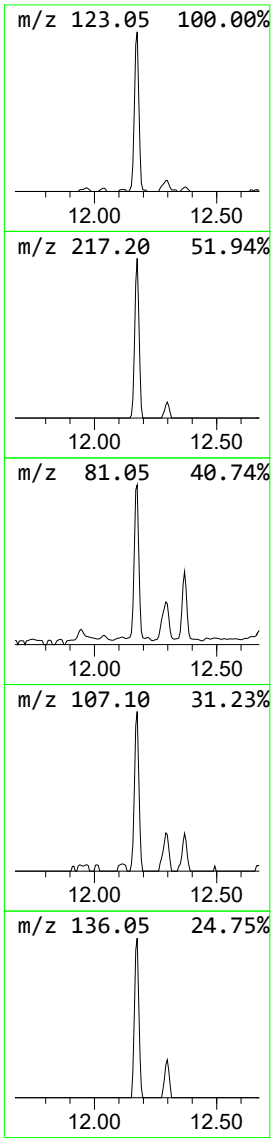
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Peak Number 5 unknown12.174 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.174 | 3.98 ng | 167319 | Phenanthrene-d10 | 11.422 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Fluoro-N-(2-hydroxy-5-methylph... | 245 | C14H12FNO2 | 402588-02-7 | 46 |
| 2 | Octopamine | 153 | C8H11NO2 | 000104-14-3 | 43 |
| 3 | Benzamide, N-(4-methoxyphenyl)-3... | 245 | C14H12FNO2 | 1000307-16-6 | 43 |
| 4 | S-Bioallethrin | 302 | C19H26O3 | 028434-00-6 | 43 |
| 5 | Cyclopropanecarboxylic acid, 2,2... | 330 | C21H30O3 | 004466-14-2 | 38 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

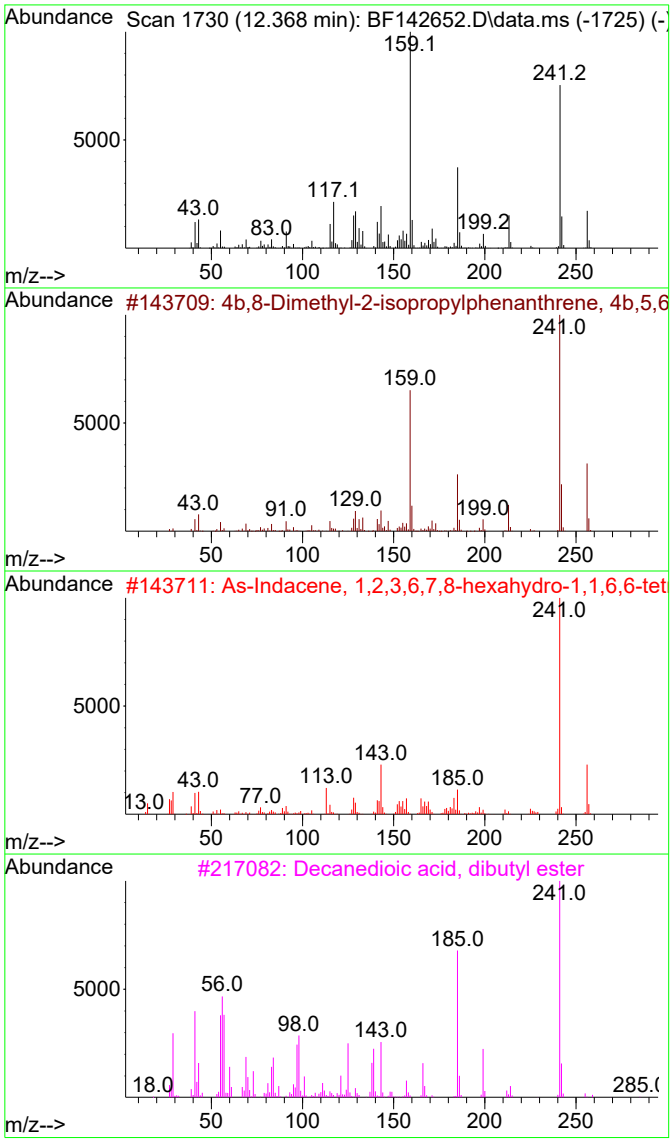
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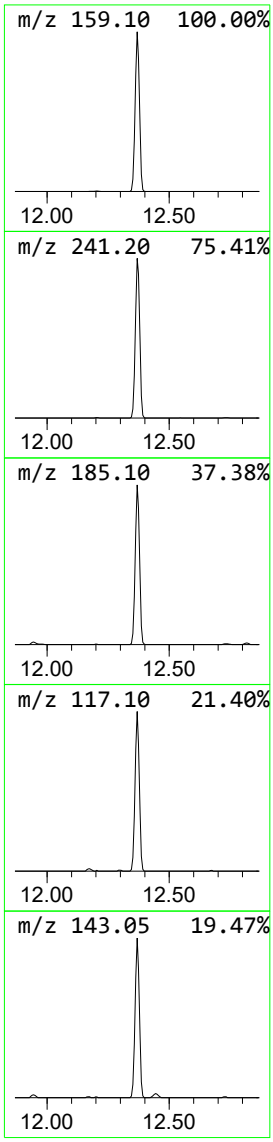
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Peak Number 6 4b,8-Dimethyl-2-isopropylph... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.368 | 30.75 ng | 1292350 | Phenanthrene-d10 | 11.422 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4b,8-Dimethyl-2-isopropylphenant... | 256 | C19H28 | 1000197-14-1 | 98 |
| 2 | As-Indacene, 1,2,3,6,7,8-hexahyd... | 256 | C19H28 | 017465-47-3 | 38 |
| 3 | Decanedioic acid, dibutyl ester | 314 | C18H34O4 | 000109-43-3 | 38 |
| 4 | 3,4-Dihydro-3,3-dimethyl-1,9(2H,... | 241 | C15H15NO2 | 1010212-95-2 | 35 |
| 5 | Uracil, 5-(p-cyanophenyl)-1,3-di... | 241 | C13H11N3O2 | 1000164-78-4 | 30 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

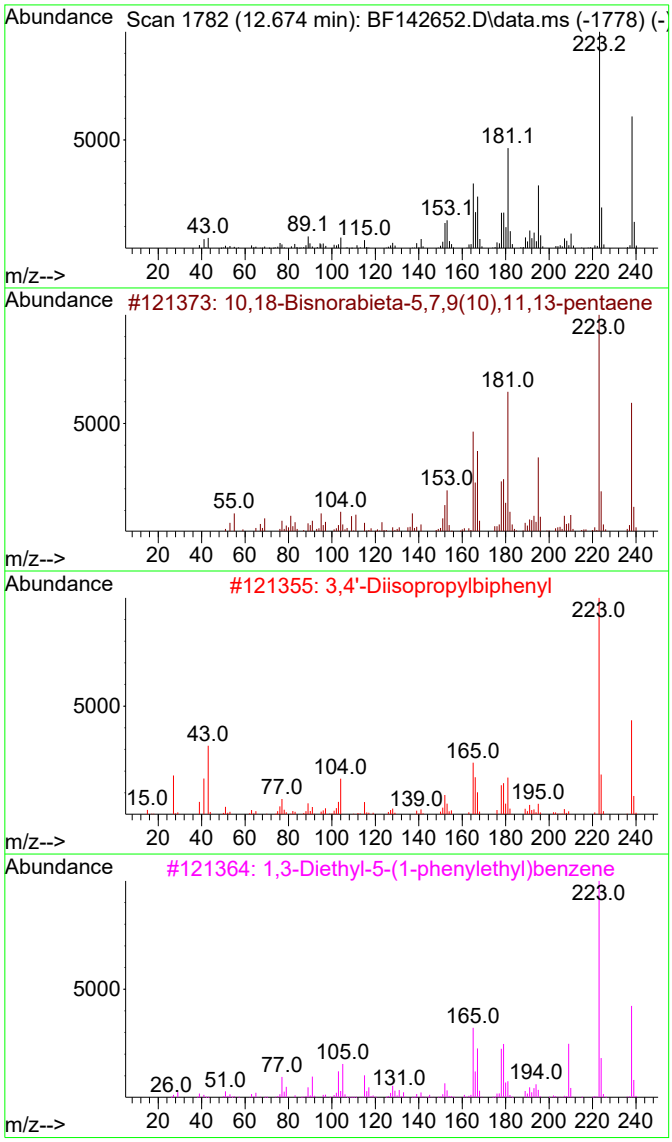
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

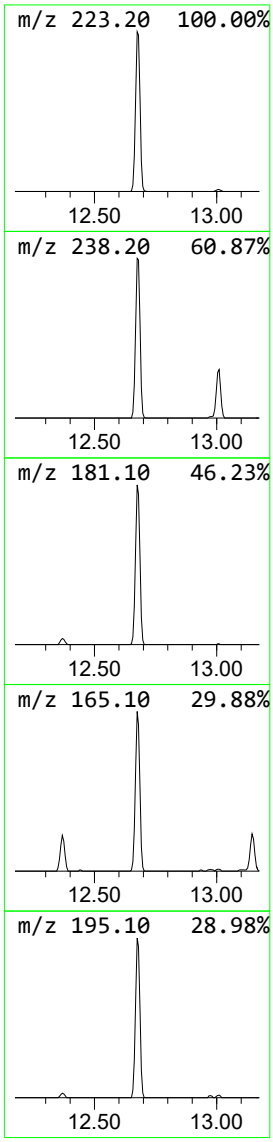
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TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.674 | 12.95 ng | 544074 | Phenanthrene-d10 | 11.422 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10,18-Bisnorabieta-5,7,9(10),11,... | 238 | C18H22 | 006566-19-4 | 99 |
| 2 | 3,4'-Diisopropylbiphenyl | 238 | C18H22 | 061434-46-6 | 86 |
| 3 | 1,3-Diethyl-5-(1-phenylethyl)ben... | 238 | C18H22 | 1000482-32-6 | 76 |
| 4 | Anthracene, 1,4-dimethoxy- | 238 | C16H14O2 | 013076-29-4 | 64 |
| 5 | 4,4'-Diisopropylbiphenyl | 238 | C18H22 | 018970-30-4 | 60 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

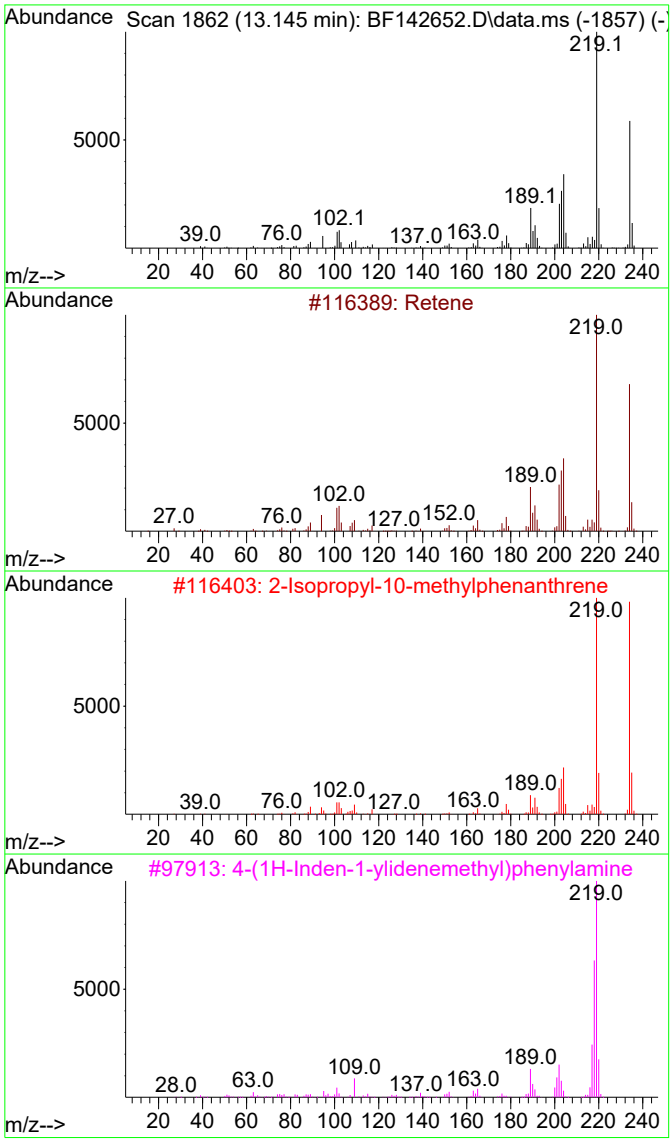
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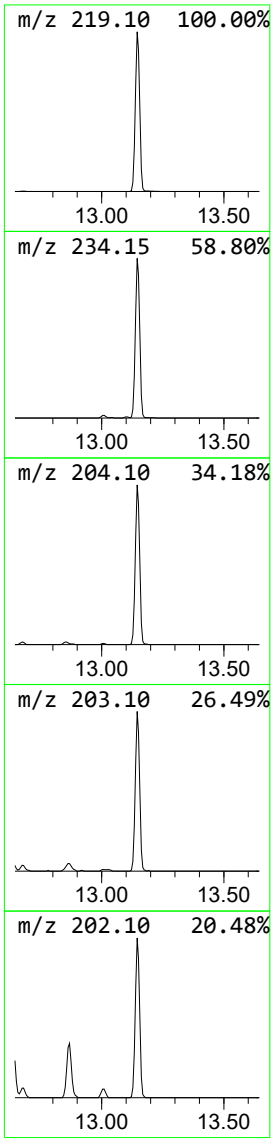
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Peak Number 8 Retene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.145 | 20.89 ng | 680169 | Chrysene-d12 | 14.063 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Retene | 234 | C18H18 | 000483-65-8 | 99 |
| 2 | 2-Isopropyl-10-methylphenanthrene | 234 | C18H18 | 066552-97-4 | 95 |
| 3 | 4-(1H-Inden-1-ylidenemethyl)phen... | 219 | C16H13N | 000487-61-6 | 55 |
| 4 | Ethanone, 1-(4,6-dihydroxy-2,3,5... | 234 | C13H14O4 | 021987-07-5 | 52 |
| 5 | 1-Ethanone, 1-(4-amino-7-chloro-... | 234 | C12H11ClN2O | 1010350-06-0 | 52 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

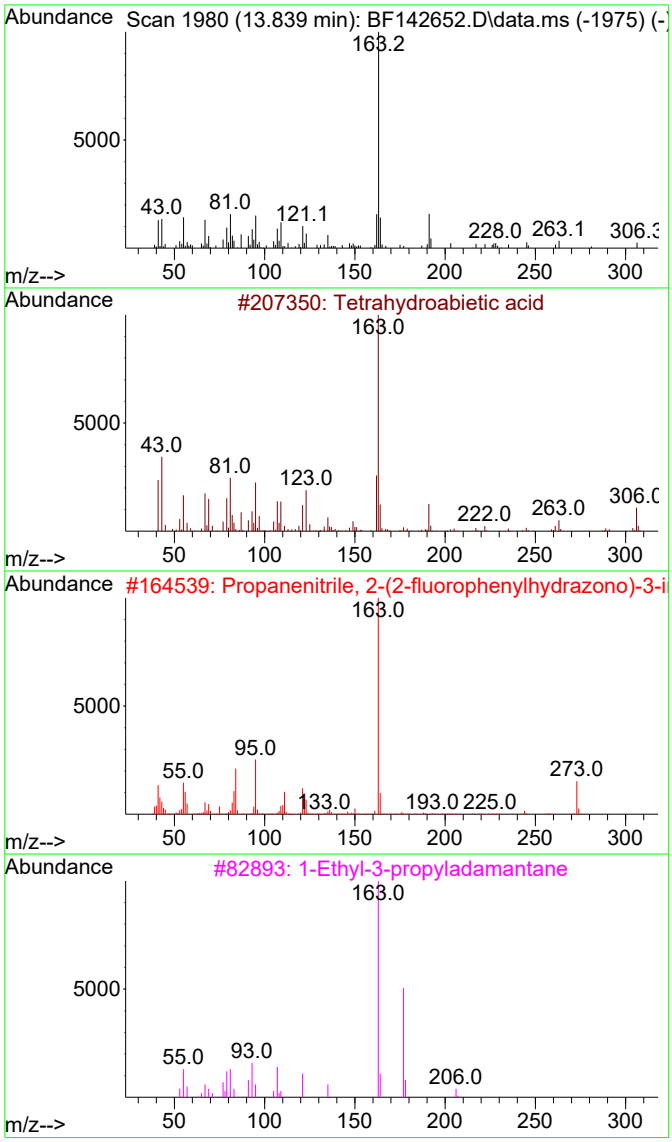
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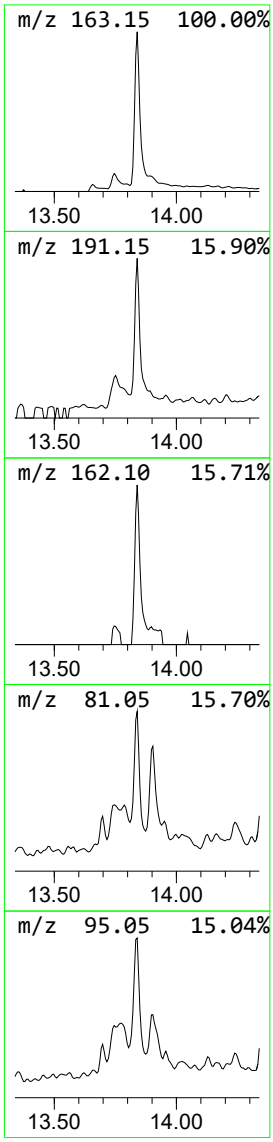
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Peak Number 9 Tetrahydroabietic acid Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.839 | 2.74 ng | 89310 | Chrysene-d12 | 14.063 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetrahydroabietic acid | 306 | C20H34O2 | 1000251-96-9 | 86 |
| 2 | Propanenitrile, 2-(2-fluoropheny... | 273 | C14H16FN5 | 311323-02-1 | 53 |
| 3 | 1-Ethyl-3-propyladamantane | 206 | C15H26 | 019385-94-5 | 50 |
| 4 | Phenol, 2,4-bis(1-methylethyl)- | 178 | C12H18O | 002934-05-6 | 50 |
| 5 | 8-Fluoro-4-hydroxyquinoline | 163 | C9H6FNO | 063010-71-9 | 50 |



Sample Results: **BF142652.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

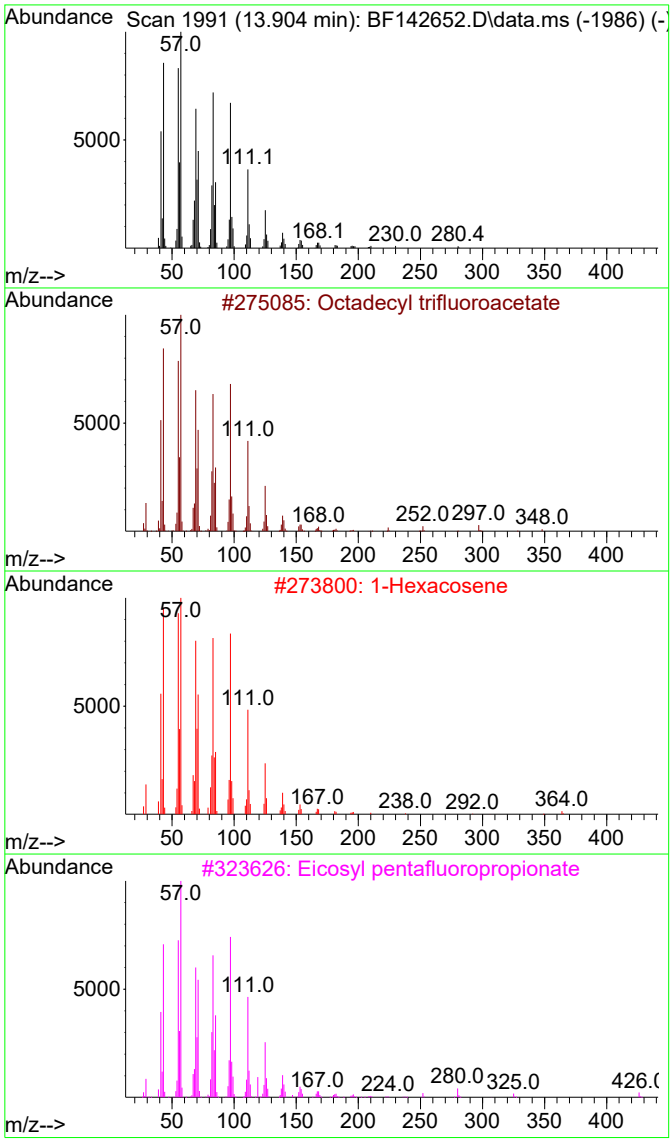
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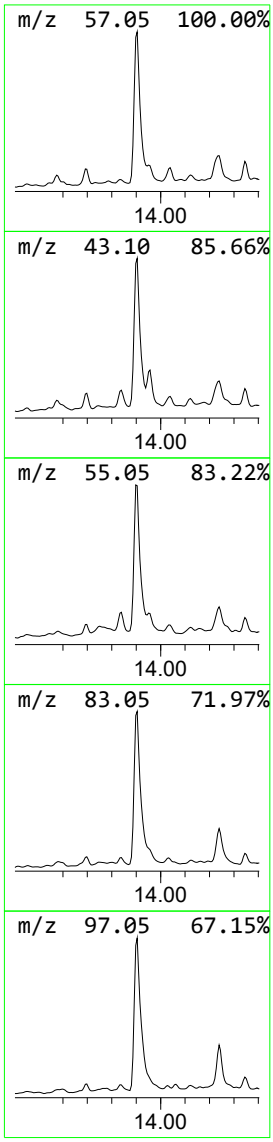
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Peak Number 10 Octadecyl trifluoroacetate Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.904 | 9.60 ng | 312479 | Chrysene-d12 | 14.063 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecyl trifluoroacetate | 366 | C20H37F3O2 | 079392-43-1 | 95 |
| 2 | 1-Hexacosene | 364 | C26H52 | 018835-33-1 | 95 |
| 3 | Eicosyl pentafluoropropionate | 444 | C23H41F5O2 | 1000351-80-8 | 94 |
| 4 | Heptadecyl heptafluorobutyrate | 452 | C21H35F7O2 | 959085-66-6 | 94 |
| 5 | Heneicosyl heptafluorobutyrate | 508 | C25H43F7O2 | 1000351-83-8 | 94 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

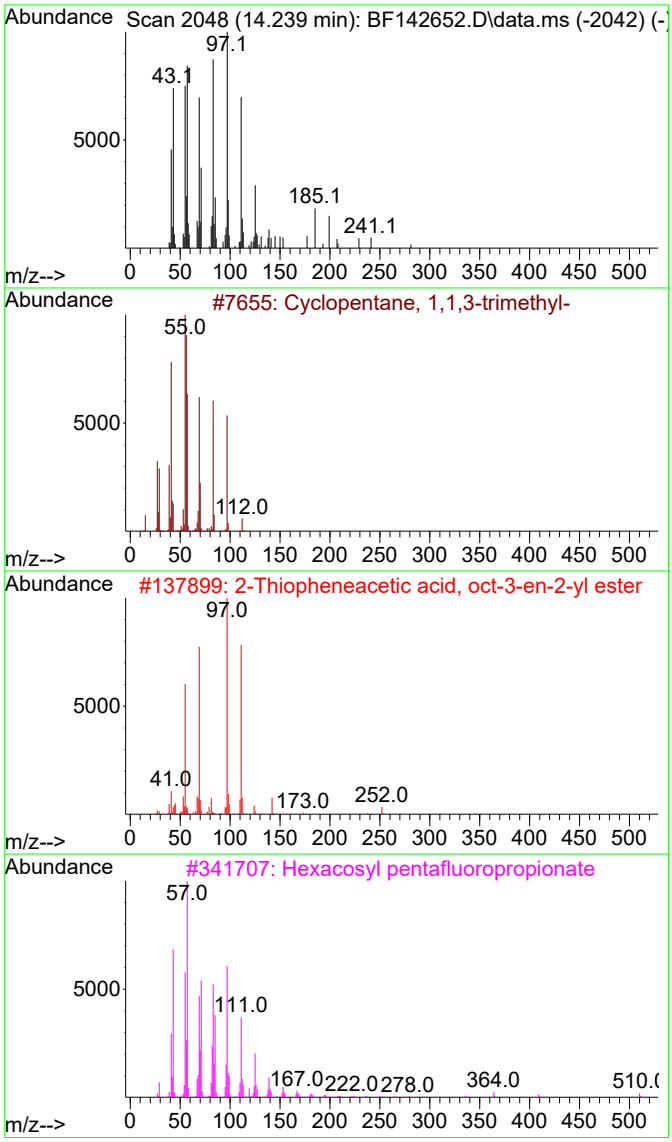
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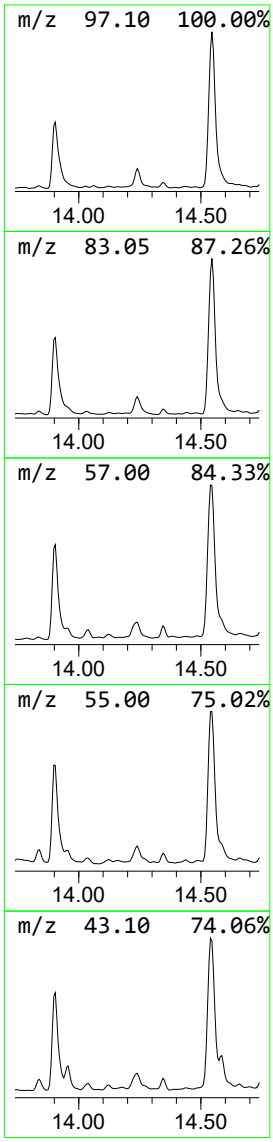
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Peak Number 11 unknown14.239 Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.239 | 2.36 ng | 76781 | Chrysene-d12 | 14.063 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,1,3-trimethyl- | 112 | C8H16 | 004516-69-2 | 46 |
| 2 | 2-Thiopheneacetic acid, oct-3-en... | 252 | C14H20O2S | 1010299-38-6 | 38 |
| 3 | Hexacosyl pentafluoropropionate | 528 | C29H53F5O2 | 1000351-81-2 | 25 |
| 4 | Cyclohexane, methyl- | 98 | C7H14 | 000108-87-2 | 25 |
| 5 | Hexacosyl trifluoroacetate | 478 | C28H53F3O2 | 1000351-75-0 | 25 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

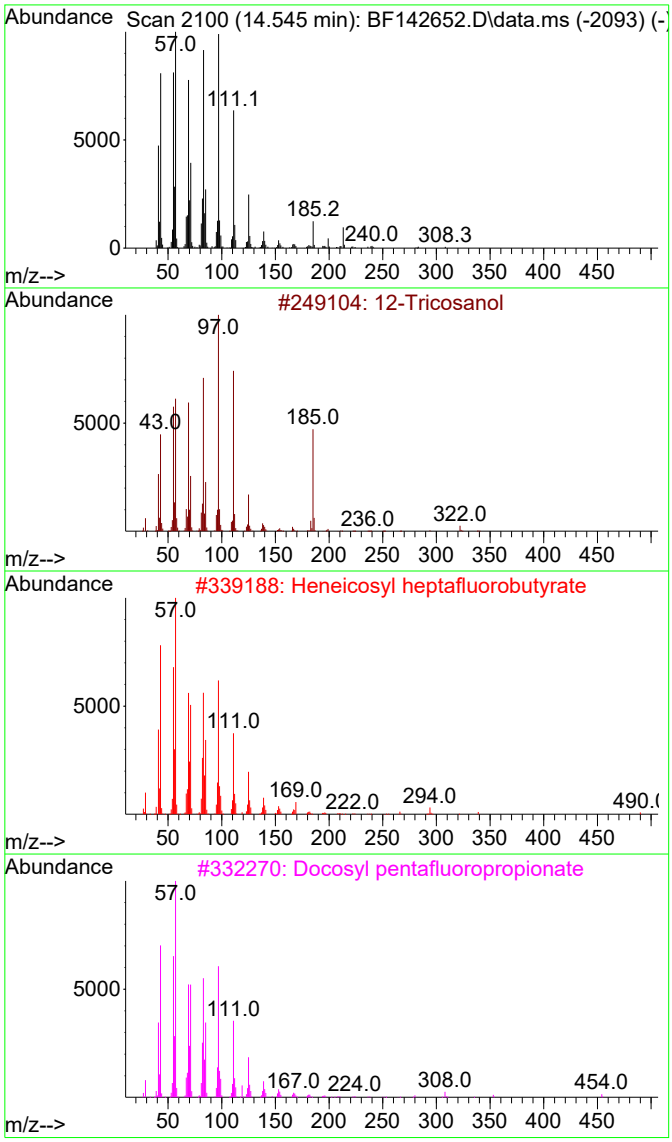
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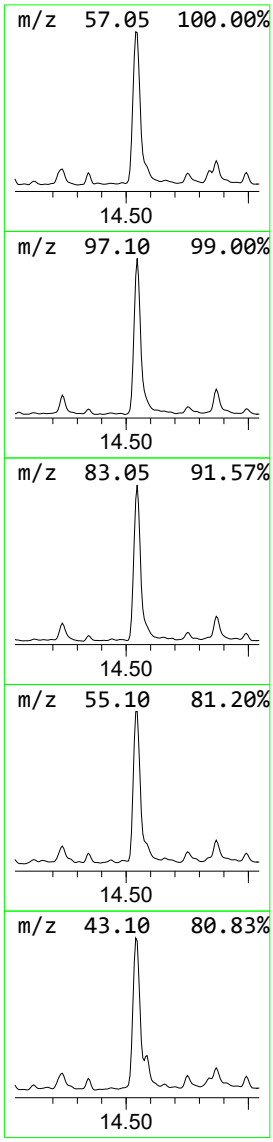
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Peak Number 12 12-Tricosanol Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.545 | 19.16 ng | 623758 | Chrysene-d12 | 14.063 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 12-Tricosanol | 340 | C23H48O | 024897-74-3 | 58 |
| 2 | Heneicosyl heptafluorobutyrate | 508 | C25H43F7O2 | 1000351-83-8 | 46 |
| 3 | Docosyl pentafluoropropionate | 472 | C25H45F5O2 | 1000351-80-9 | 46 |
| 4 | Octacosanol | 410 | C28H58O | 000557-61-9 | 46 |
| 5 | Pentadecafluorooctanoic acid, oc... | 666 | C26H37F15O2 | 1000406-04-8 | 42 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

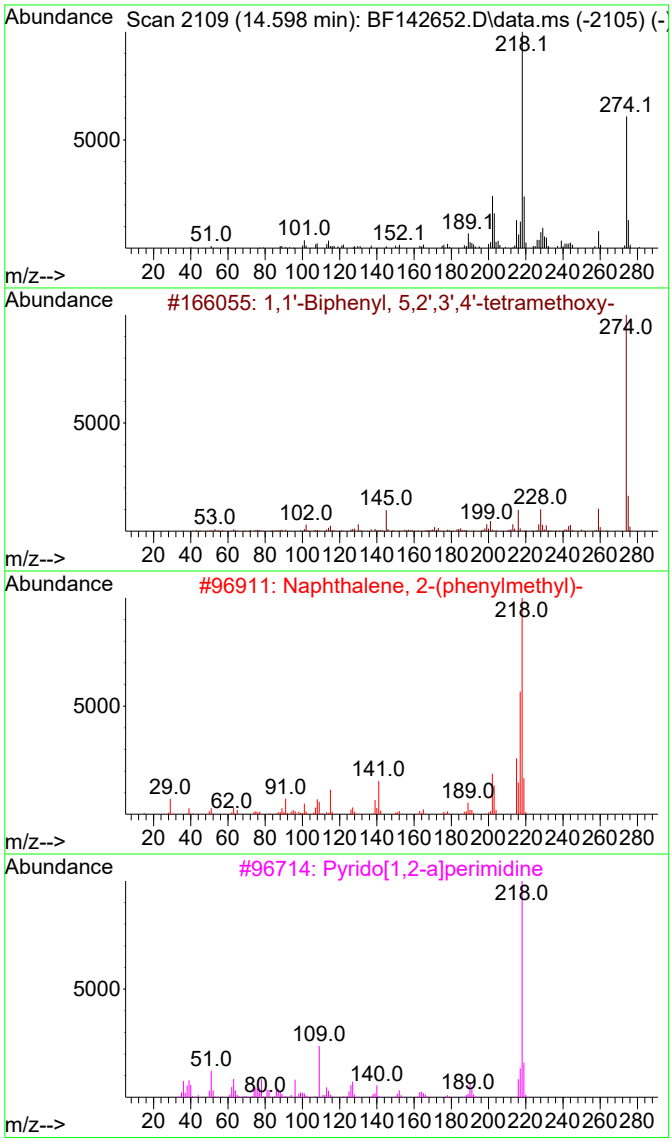
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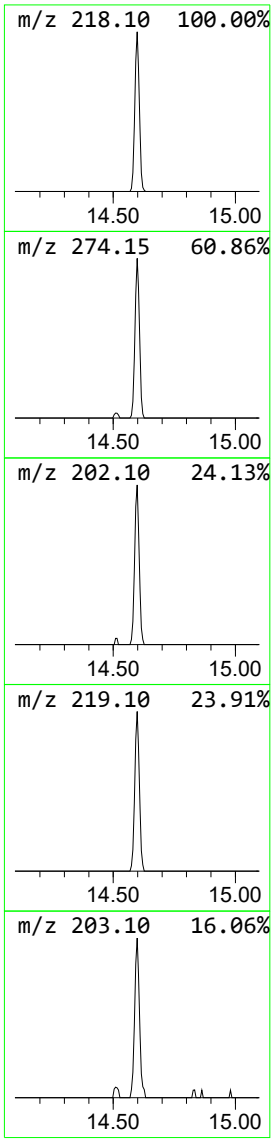
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 1,1'-Biphenyl, 5,2',3',4'-t... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.598 | 5.20 ng | 169452 | Chrysene-d12 | 14.063 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 5,2',3',4'-tetram... | 274 | C16H18O4 | 119101-30-3 | 53 |
| 2 | Naphthalene, 2-(phenylmethyl)- | 218 | C17H14 | 000613-59-2 | 49 |
| 3 | Pyrido[1,2-a]perimidine | 218 | C15H10N2 | 000200-42-0 | 43 |
| 4 | 1,4-Methanonaphthalene, 1,4-dihy... | 218 | C17H14 | 055028-73-4 | 43 |
| 5 | 1-Hydroxypyrene | 218 | C16H10O | 005315-79-7 | 38 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

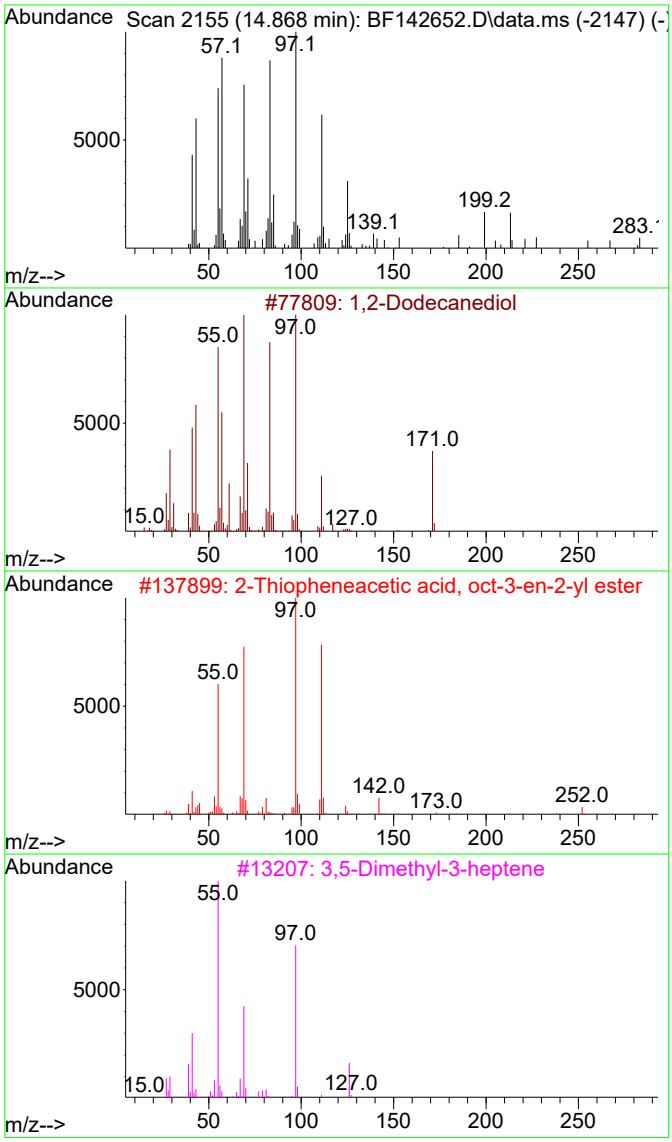
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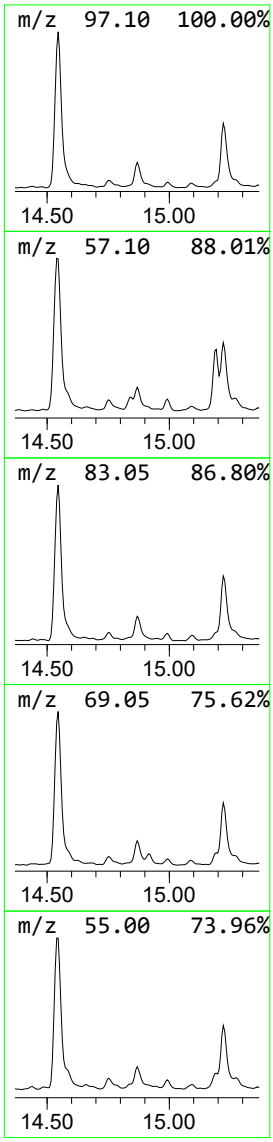
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Peak Number 14 1,2-Dodecanediol Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.868 | 2.48 ng | 92851 | Perylene-d12 | 15.562 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,2-Dodecanediol | 202 | C12H26O2 | 001119-87-5 | 64 |
| 2 | 2-Thiopheneacetic acid, oct-3-en... | 252 | C14H20O2S | 1010299-38-6 | 49 |
| 3 | 3,5-Dimethyl-3-heptene | 126 | C9H18 | 059643-68-4 | 38 |
| 4 | Heptacosyl acetate | 438 | C29H58O2 | 1000351-78-2 | 30 |
| 5 | Octacosyl acetate | 452 | C30H60O2 | 018206-97-8 | 30 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

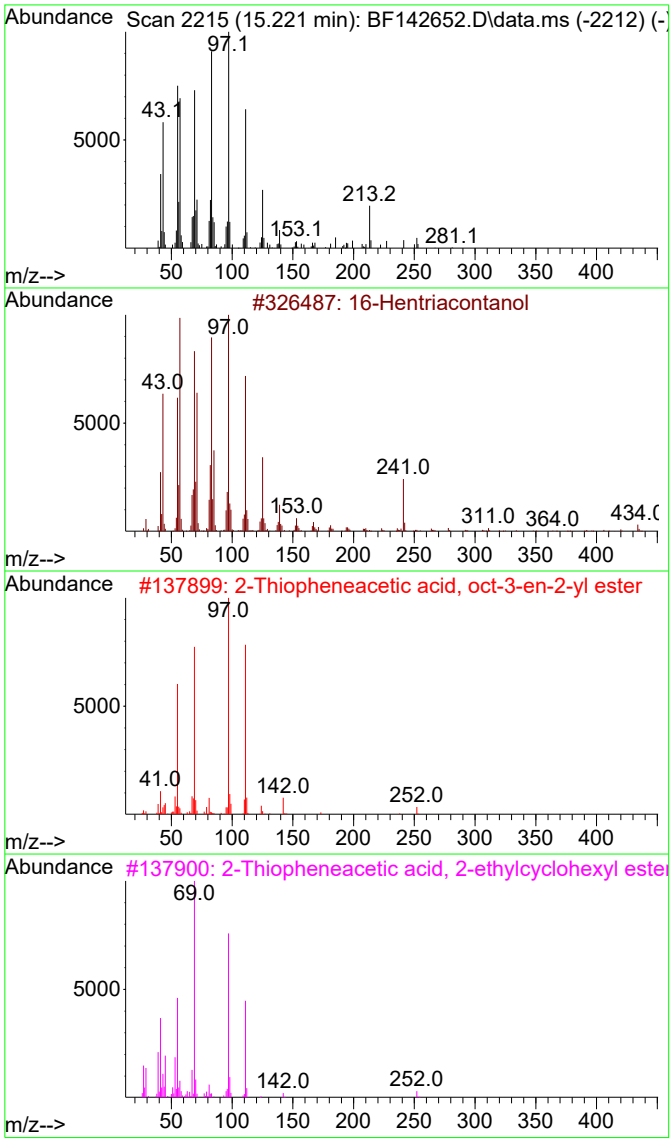
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TIC Integration Parameters: LSCINT.P

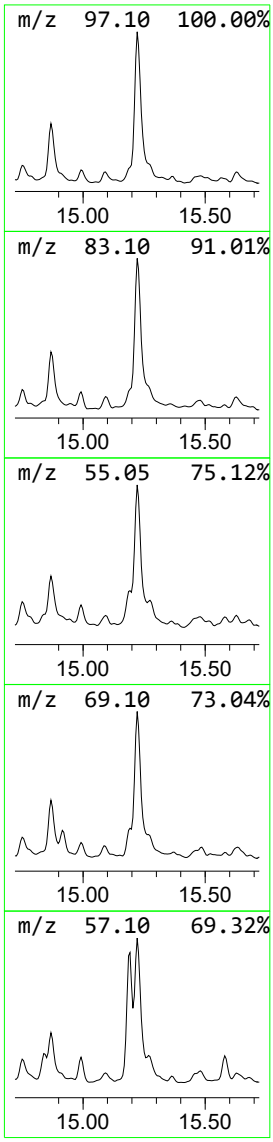
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Peak Number 15 16-Hentriacontanol Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.221 | 4.88 ng | 182739 | Perylene-d12 | 15.562 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 16-Hentriacontanol | 452 | C31H64O | 001070-54-8 | 68 |
| 2 | 2-Thiopheneacetic acid, oct-3-en... | 252 | C14H20O2S | 1010299-38-6 | 50 |
| 3 | 2-Thiopheneacetic acid, 2-ethylc... | 252 | C14H20O2S | 1000278-96-1 | 43 |
| 4 | Triallylsilane | 152 | C9H16Si | 001116-62-7 | 38 |
| 5 | Cyclohexanecarboxylic acid, 3-tr... | 310 | C20H38O2 | 1000280-59-4 | 38 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

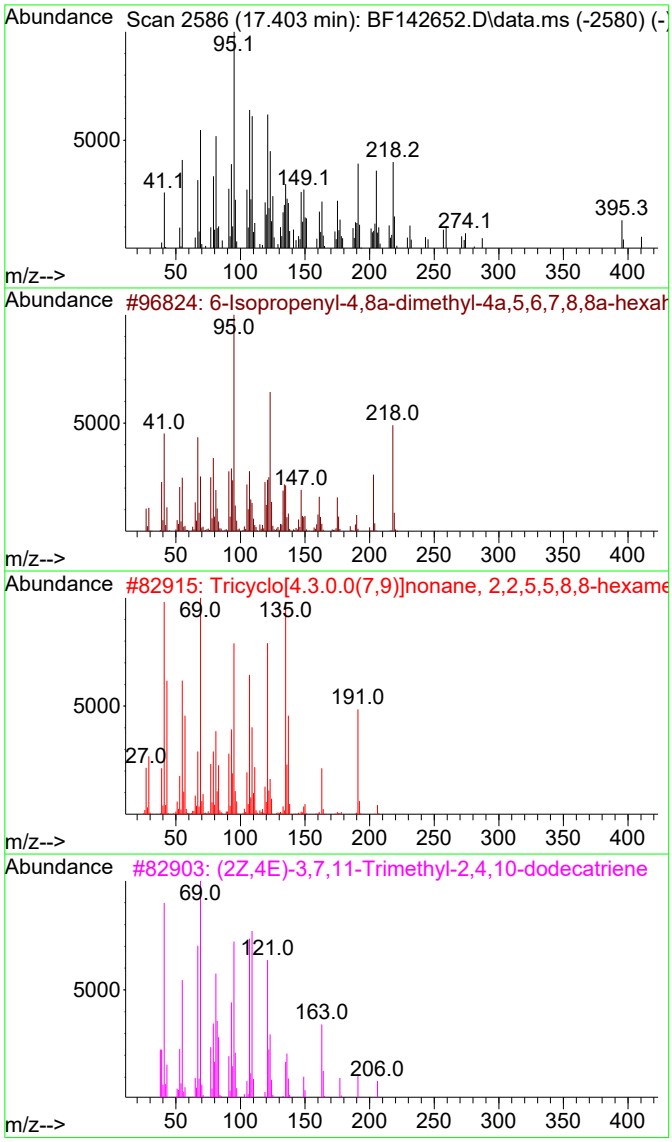
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

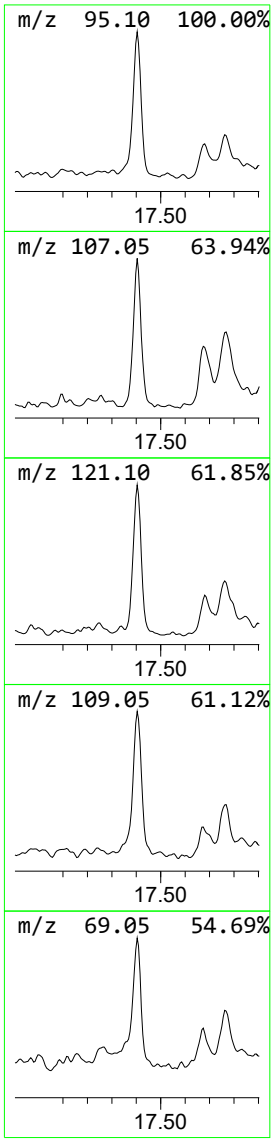
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 16 6-Isopropenyl-4,8a-dimethyl... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.404 | 5.14 ng | 192328 | Perylene-d12 | 15.562 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 6-Isopropenyl-4,8a-dimethyl-4a,5... | 218 | C15H22O | 086917-79-5 | 70 |
| 2 | Tricyclo[4.3.0.0(7,9)]nonane, 2,... | 206 | C15H26 | 054832-82-5 | 43 |
| 3 | (2Z,4E)-3,7,11-Trimethyl-2,4,10-... | 206 | C15H26 | 172549-29-0 | 38 |
| 4 | 6.beta.Bicyclo[4.3.0]nonane, 5.b... | 332 | C15H25I | 1000195-85-9 | 27 |
| 5 | 5-Bromo-4-oxo-4,5,6,7-tetrahydro... | 216 | C6H5BrN2O2 | 300574-36-1 | 25 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

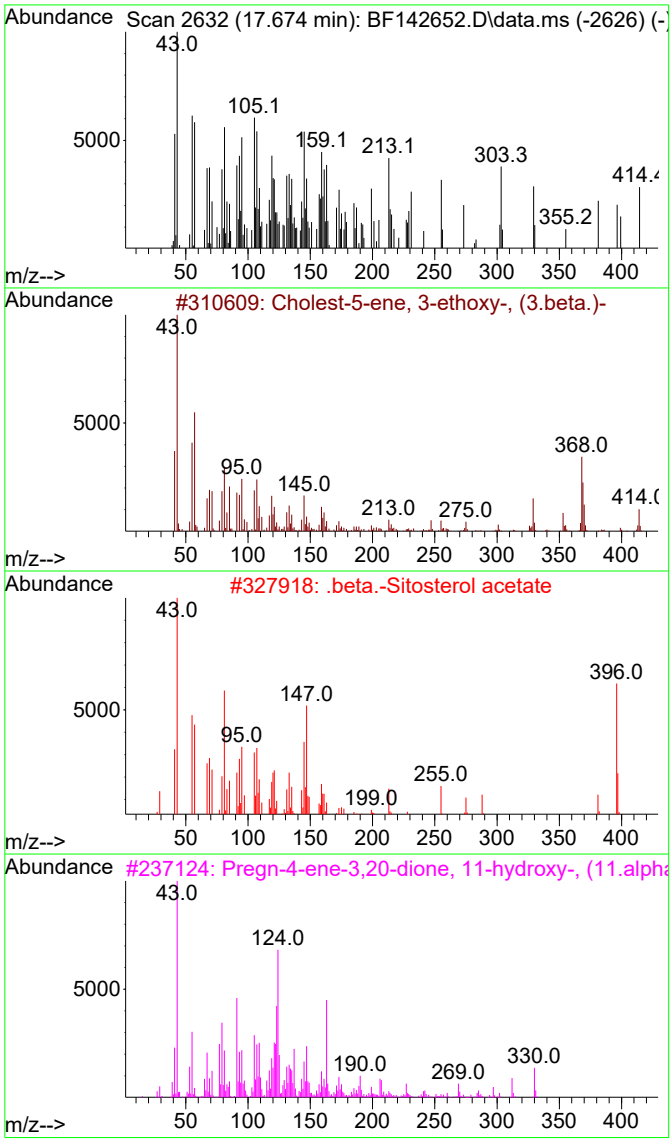
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

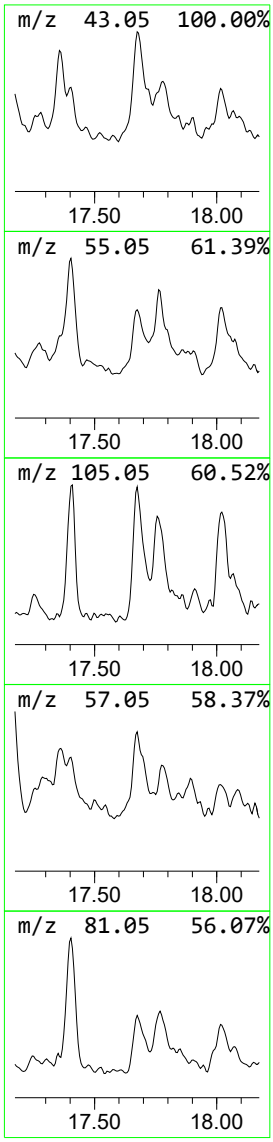
**********

Peak Number 17 unknown17.674 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.674 | 3.79 ng | 141854 | Perylene-d12 | 15.562 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cholest-5-ene, 3-ethoxy-, (3.bet... | 414 | C29H50O | 000986-19-6 | 25 |
| 2 | .beta.-Sitosterol acetate | 456 | C31H52O2 | 000915-05-9 | 12 |
| 3 | Pregn-4-ene-3,20-dione, 11-hydro... | 330 | C21H30O3 | 000080-75-1 | 10 |
| 4 | Norflurazon | 303 | C12H9ClF3N3O | 027314-13-2 | 10 |
| 5 | Pregn-5-en-3-ol, 21-bromo-20-met... | 394 | C22H35BrO | 055103-80-5 | 10 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

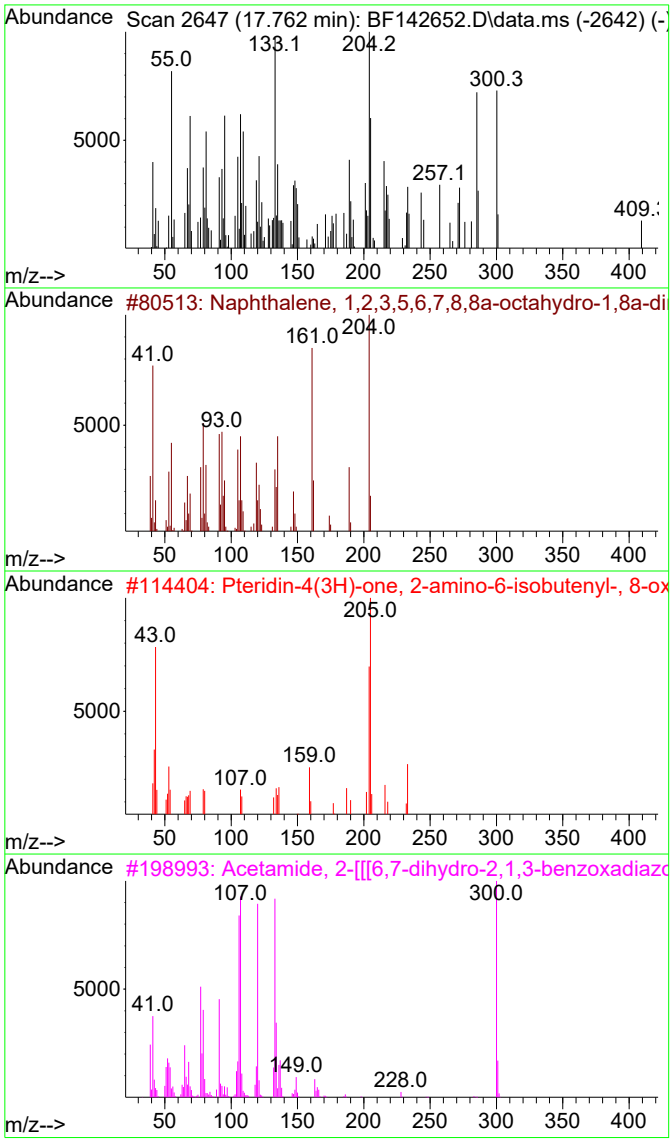
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

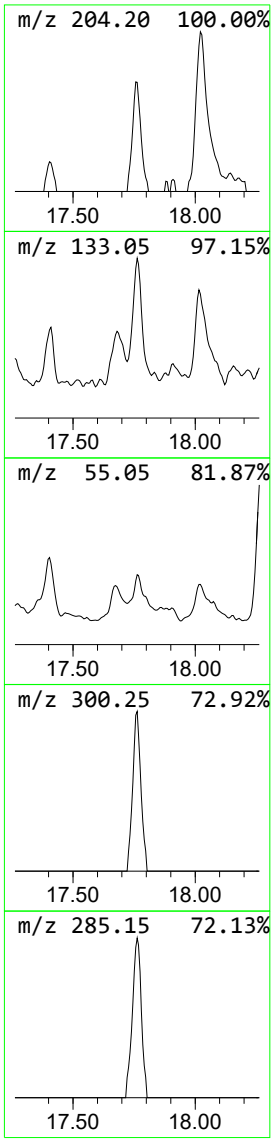
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Peak Number 18 unknown17.762 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.762 | 2.92 ng | 109288 | Perylene-d12 | 15.562 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,5,6,7,8,8a-oc... | 204 | C15H24 | 004630-07-3 | 25 |
| 2 | Pteridin-4(3H)-one, 2-amino-6-is... | 233 | C10H11N5O2 | 019994-57-1 | 25 |
| 3 | Acetamide, 2-[[[6,7-dihydro-2,1,... | 300 | C15H16N4O3 | 1000319-88-7 | 15 |
| 4 | 3-epi-Cedrenal | 218 | C15H22O | 1000465-27-6 | 15 |
| 5 | Benzene, 1-ethyl-2,4,5-trimethyl- | 148 | C11H16 | 017851-27-3 | 11 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

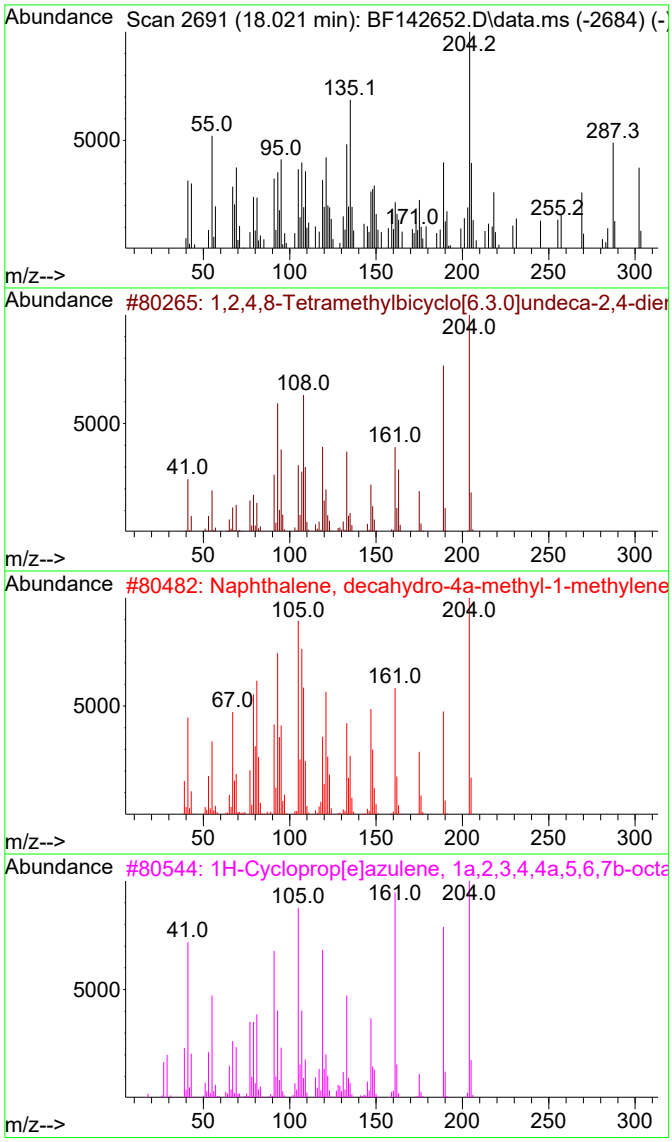
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

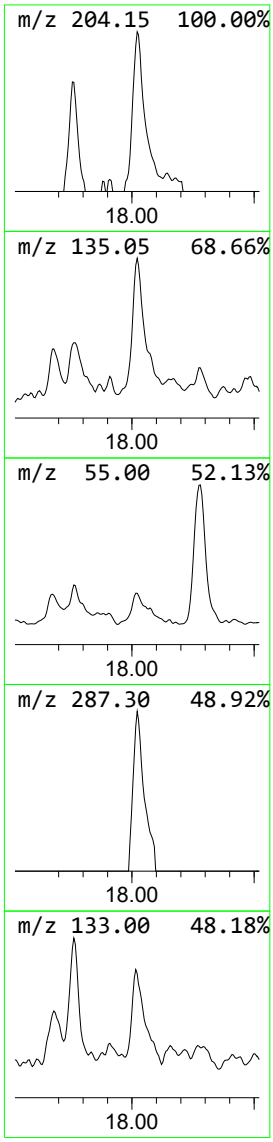
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 19 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.021 | 3.41 ng | 127702 | Perylene-d12 | 15.562 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,2,4,8-Tetramethylbicyclo[6.3.0... | 204 | C15H24 | 137235-51-9 | 64 |
| 2 | Naphthalene, decahydro-4a-methyl... | 204 | C15H24 | 017066-67-0 | 43 |
| 3 | 1H-Cycloprop[e]azulene, 1a,2,3,4... | 204 | C15H24 | 000489-40-7 | 41 |
| 4 | 1-(4-Amino-2-methylphenyl)-2-pip... | 204 | C12H16N2O | 443999-53-9 | 35 |
| 5 | Coumarin, 3,4-dihydro-4,4,6,8-te... | 204 | C13H16O2 | 249629-60-5 | 25 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

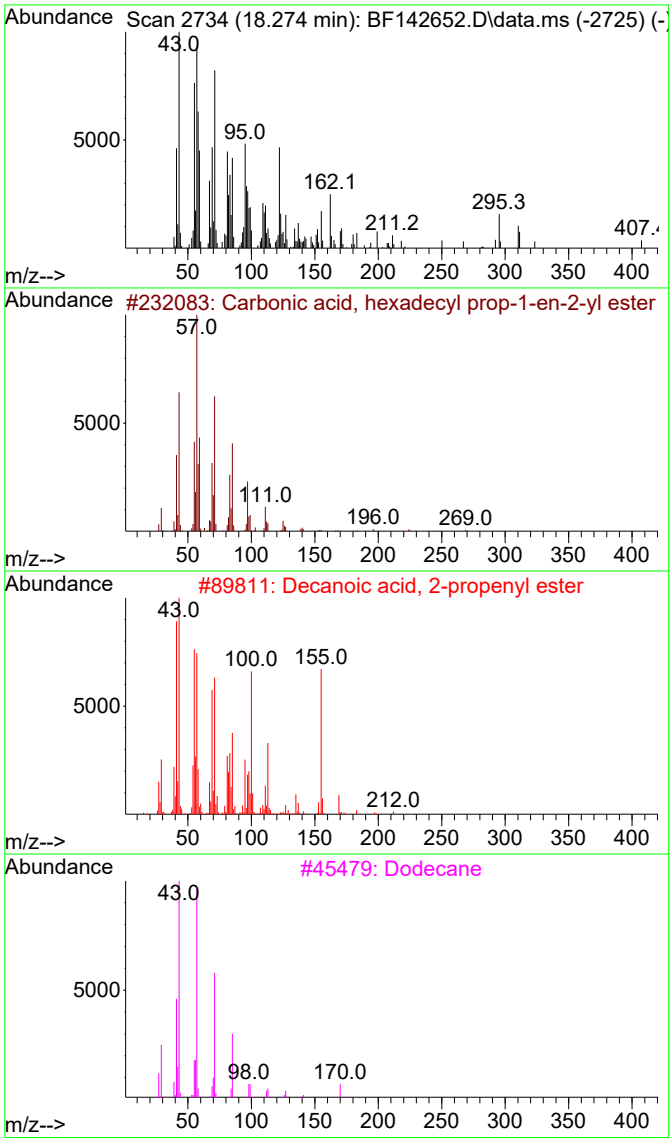
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

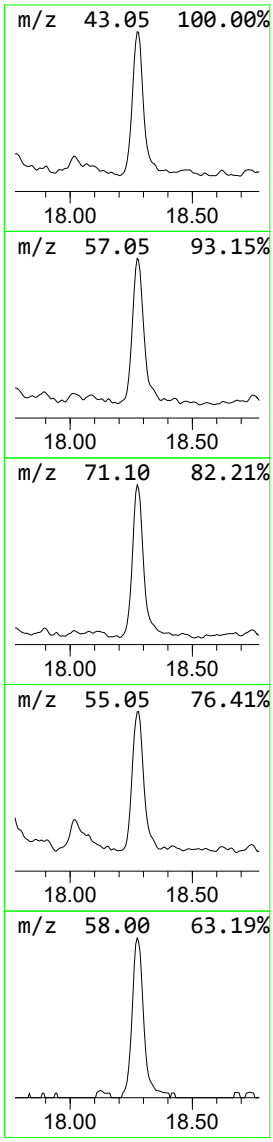
**********

Peak Number 20 unknown18.274 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.274 | 10.36 ng | 387620 | Perylene-d12 | 15.562 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Carbonic acid, hexadecyl prop-1-... | 326 | C20H38O3 | 1000382-90-3 | 49 |
| 2 | Decanoic acid, 2-propenyl ester | 212 | C13H24O2 | 057856-81-2 | 45 |
| 3 | Dodecane | 170 | C12H26 | 000112-40-3 | 42 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 42 |
| 5 | Carbonic acid, eicosyl vinyl ester | 368 | C23H44O3 | 1000382-54-3 | 38 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142652.D
Acq On : 06 Jun 2025 18:01
Operator : RC/JU
Sample : Q2177-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
B-187-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-... | 5.104 | 6.3 | ng | 225793 | 1 | 6.892 | 712185 | 20.0 |
| p-Cymene | 6.969 | 11.2 | ng | 397406 | 1 | 6.892 | 712185 | 20.0 |
| Benzophenone | 10.645 | 6.4 | ng | 320857 | 3 | 9.933 | 1002960 | 20.0 |
| n-Hexadecanoic ... | 11.945 | 3.9 | ng | 163227 | 4 | 11.422 | 840440 | 20.0 |
| unknown12.174 | 12.174 | 4.0 | ng | 167319 | 4 | 11.422 | 840440 | 20.0 |
| 4b,8-Dimethyl-2... | 12.368 | 30.8 | ng | 1292350 | 4 | 11.422 | 840440 | 20.0 |
| 10,18-Bisnorabi... | 12.674 | 12.9 | ng | 544074 | 4 | 11.422 | 840440 | 20.0 |
| Retene | 13.145 | 20.9 | ng | 680169 | 5 | 14.063 | 651181 | 20.0 |
| Tetrahydroabiet... | 13.839 | 2.7 | ng | 89310 | 5 | 14.063 | 651181 | 20.0 |
| Octadecyl trifl... | 13.904 | 9.6 | ng | 312479 | 5 | 14.063 | 651181 | 20.0 |
| unknown14.239 | 14.239 | 2.4 | ng | 76781 | 5 | 14.063 | 651181 | 20.0 |
| 12-Tricosanol | 14.545 | 19.2 | ng | 623758 | 5 | 14.063 | 651181 | 20.0 |
| 1,1'-Biphenyl, ... | 14.598 | 5.2 | ng | 169452 | 5 | 14.063 | 651181 | 20.0 |
| 1,2-Dodecanediol | 14.868 | 2.5 | ng | 92851 | 6 | 15.562 | 748294 | 20.0 |
| 16-Hentriacontanol | 15.221 | 4.9 | ng | 182739 | 6 | 15.562 | 748294 | 20.0 |
| 6-Isopropenyl-4... | 17.404 | 5.1 | ng | 192328 | 6 | 15.562 | 748294 | 20.0 |
| unknown17.674 | 17.674 | 3.8 | ng | 141854 | 6 | 15.562 | 748294 | 20.0 |
| unknown17.762 | 17.762 | 2.9 | ng | 109288 | 6 | 15.562 | 748294 | 20.0 |
| 1,2,4,8-Tetrame... | 18.021 | 3.4 | ng | 127702 | 6 | 15.562 | 748294 | 20.0 |
| unknown18.274 | 18.274 | 10.4 | ng | 387620 | 6 | 15.562 | 748294 | 20.0 |

Sample Results: **BP024899.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024899.D
Acq On : 10 Jun 2025 18:30
Operator : RC/JU
Sample : Q2177-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025

Quant Time: Jun 11 02:04:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.608 | 152 | 258806 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.378 | 136 | 1052781 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 14.248 | 164 | 660296 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 17.054 | 188 | 1279796 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 21.489 | 240 | 1406584 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 24.766 | 264 | 1730554 | 20.000 | ng | 0.05 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.237 | 112 | 1661528 | 107.162 | ng | 0.00 |
| 7) Phenol-d6 | 6.814 | 99 | 2195717 | 107.033 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 8.761 | 82 | 1311010 | 60.512 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.778 | 330 | 1028434 | 112.656 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 12.860 | 172 | 2824048 | 57.616 | ng | 0.00 |
| 79) Terphenyl-d14 | 19.783 | 244 | 4388776 | 55.921 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 71) Phenanthrene | 17.101 | 178 | 412561 | 5.833 | ng | 99 |
| 75) Fluoranthene | 19.189 | 202 | 521508 | 6.362 | ng | 98 |
| 78) Pyrene | 19.566 | 202 | 507574 | 5.776 | ng | 98 |
| 81) Benzo(a)anthracene | 21.466 | 228 | 212605 | 2.363 | ng | 95 |
| 83) Chrysene | 21.536 | 228 | 208166m | 2.442 | ng | |
| 88) Benzo(b)fluoranthene | 23.724 | 252 | 251939 | 2.544 | ng | # 83 |
| 90) Benzo(a)pyrene | 24.601 | 252 | 216412 | 2.237 | ng | # 87 |

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

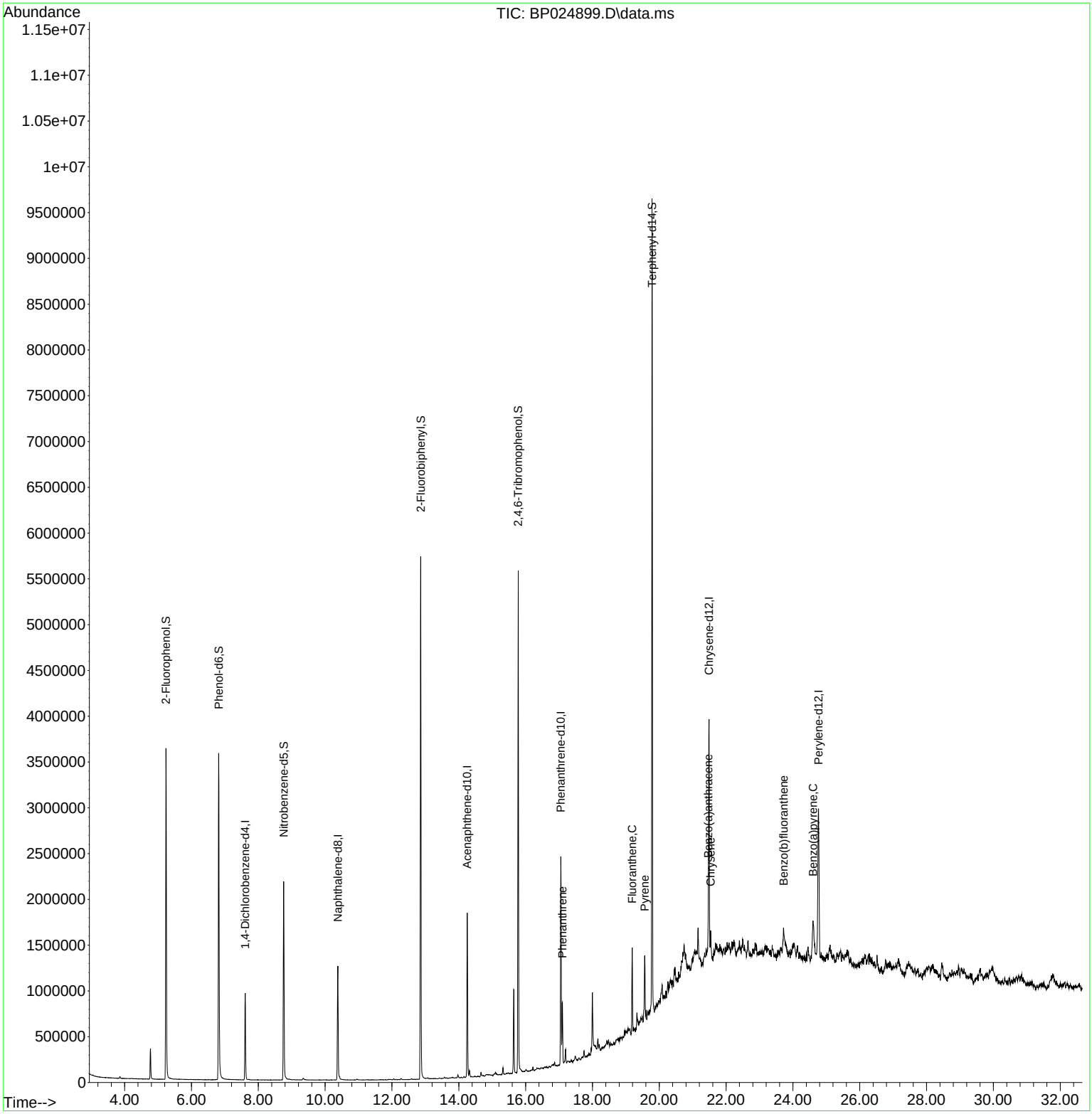
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Data File : BP024899.D
Acq On : 10 Jun 2025 18:30
Operator : RC/JU
Sample : Q2177-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

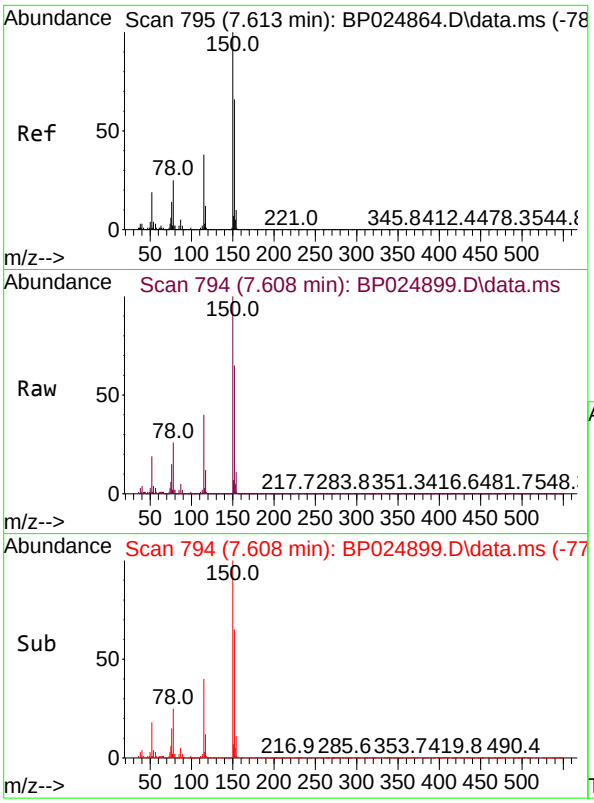
Quant Time: Jun 11 02:04:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025

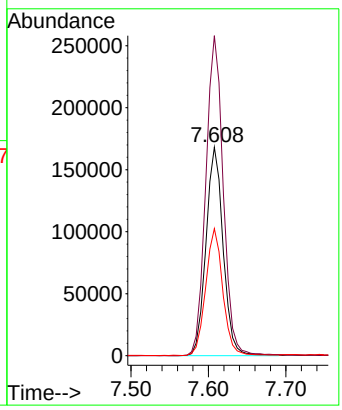





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.608 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

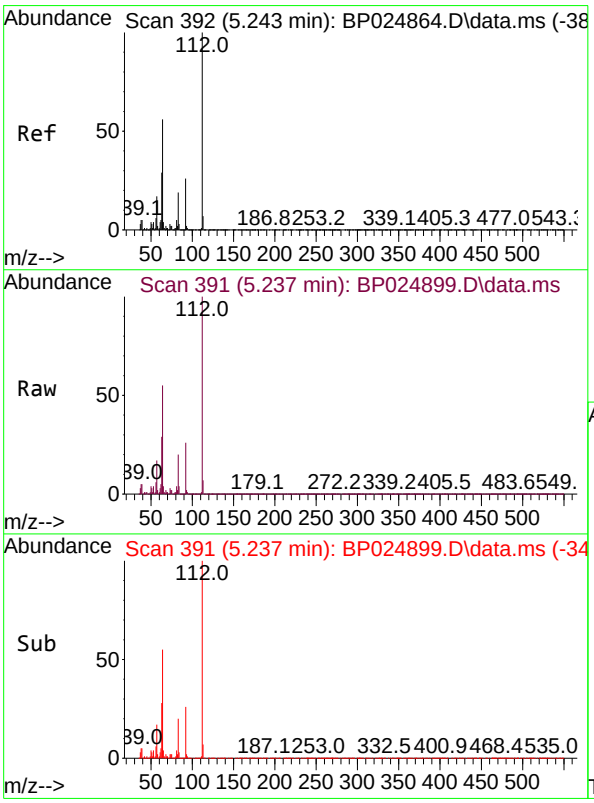
Tgt Ion:152 Resp: 25880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.5 | 122.1 | 183.1 |
| 115 | 61.0 | 46.4 | 69.6 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

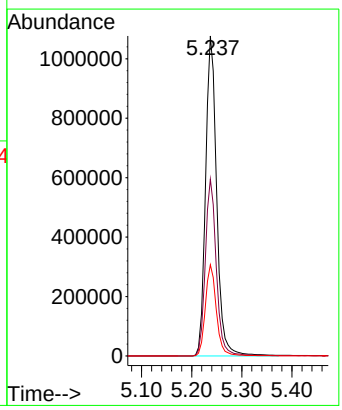
**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025

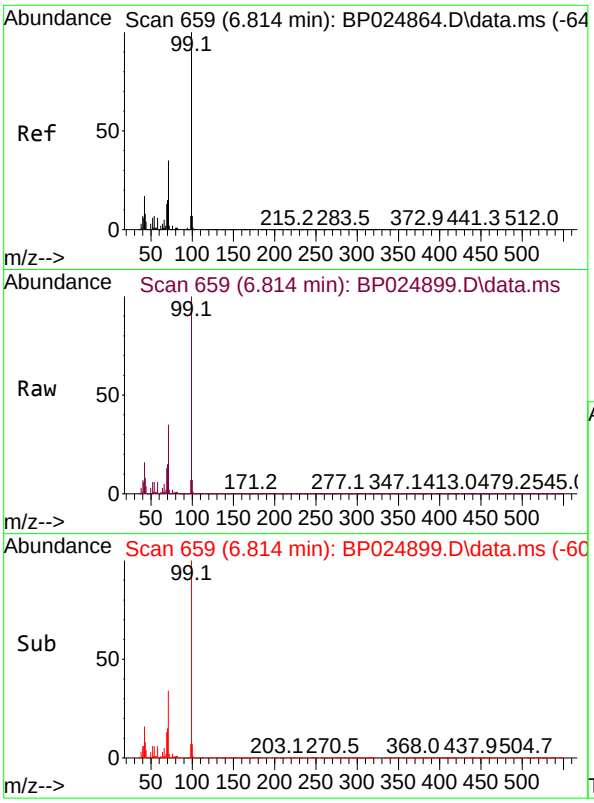



#5
2-Fluorophenol
Concen: 107.162 ng
RT: 5.237 min Scan# 391
Delta R.T. -0.006 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

Tgt Ion:112 Resp: 1661528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.3 | 44.7 | 67.1 |
| 63 | 28.5 | 23.5 | 35.3 |

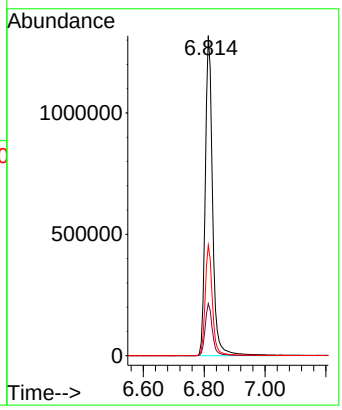





#7
Phenol-d6
Concen: 107.033 ng
RT: 6.814 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

Tgt Ion: 99 Resp: 219571

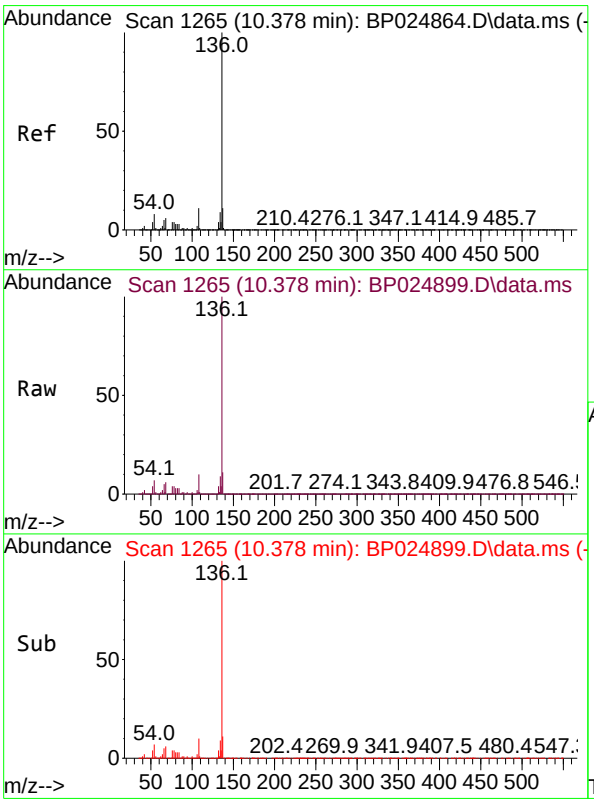
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 16.2 | 13.4 | 20.2 |
| 71 | 34.5 | 27.6 | 41.4 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

**Manual Integrations**
**APPROVED**

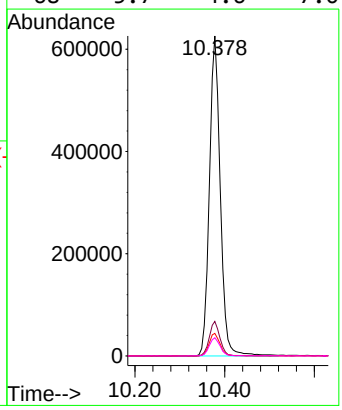
Reviewed By :Anahy Claudio 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025

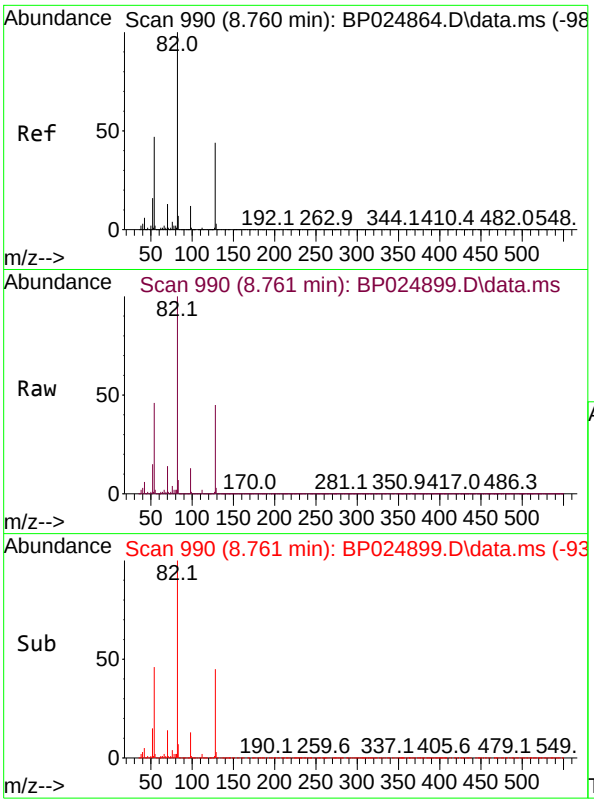



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.378 min Scan# 1265
Delta R.T. 0.000 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

Tgt Ion:136 Resp: 1052781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.8 | 8.9 | 13.3 |
| 54 | 7.1 | 6.1 | 9.1 |
| 68 | 5.7 | 4.6 | 7.0 |

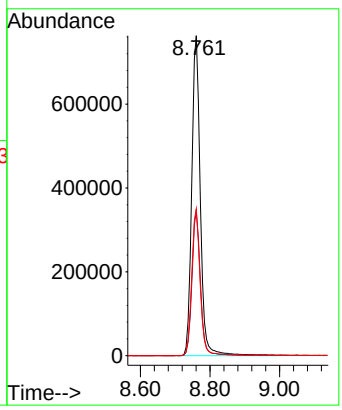





#23
Nitrobenzene-d5
Concen: 60.512 ng
RT: 8.761 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

Tgt Ion: 82 Resp: 131101

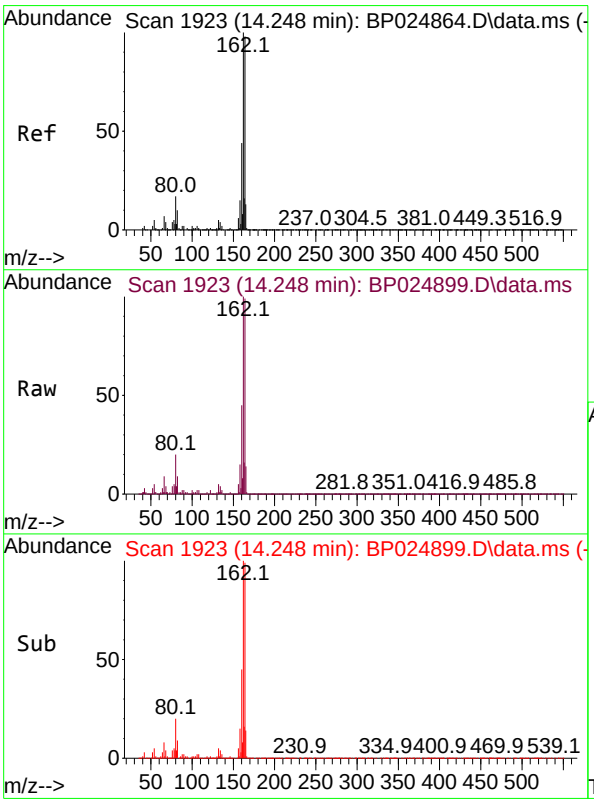
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.2 | 35.3 | 52.9 |
| 54 | 45.9 | 37.4 | 56.0 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

**Manual Integrations**
**APPROVED**

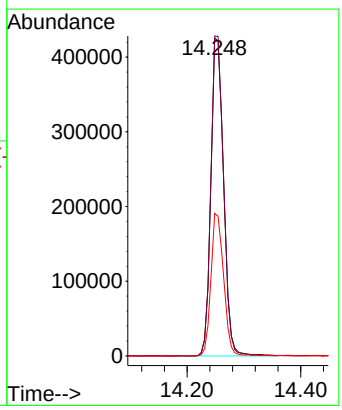
Reviewed By :Anahy Claudio 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025

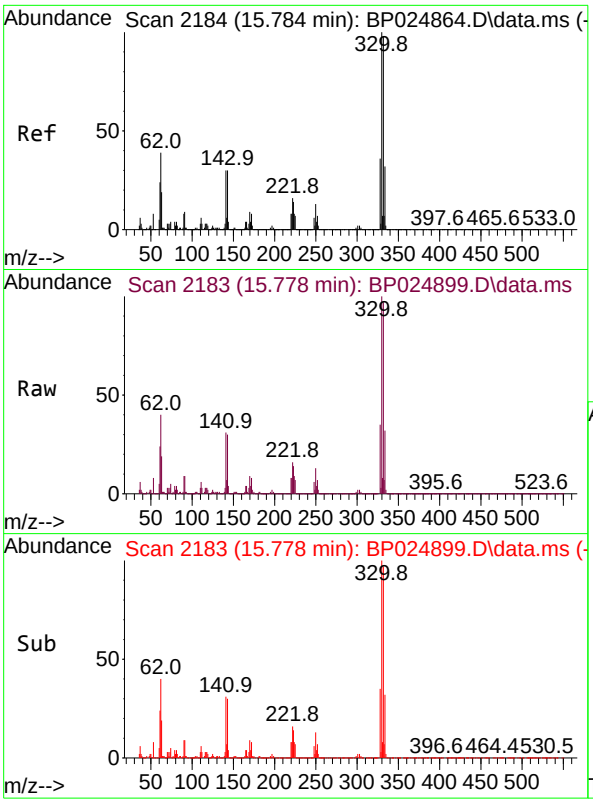



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.248 min Scan# 1923
Delta R.T. 0.000 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

Tgt Ion:164 Resp: 660296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.6 | 81.6 | 122.4 |
| 160 | 44.9 | 36.2 | 54.2 |





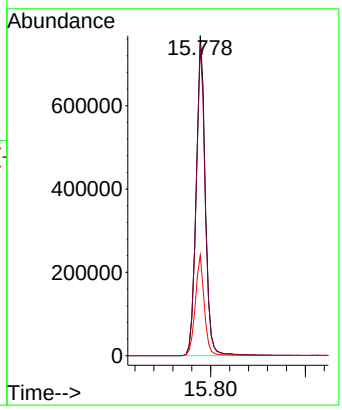

#42
2,4,6-Tribromophenol
Concen: 112.656 ng
RT: 15.778 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

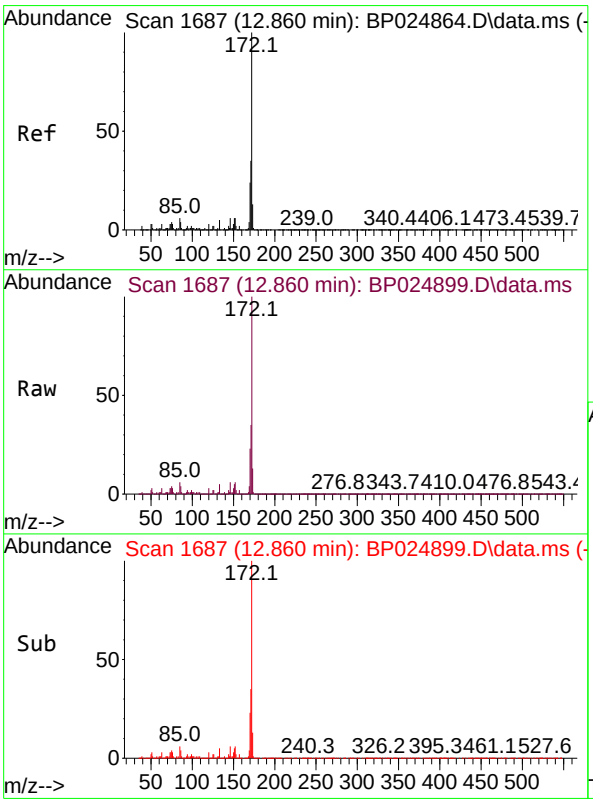
Tgt Ion:330 Resp: 102843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.5 | 77.7 | 116.5 |
| 141 | 30.9 | 26.4 | 39.6 |

**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025

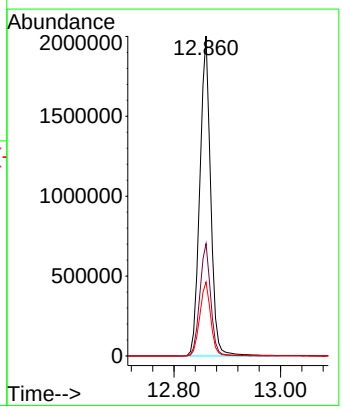


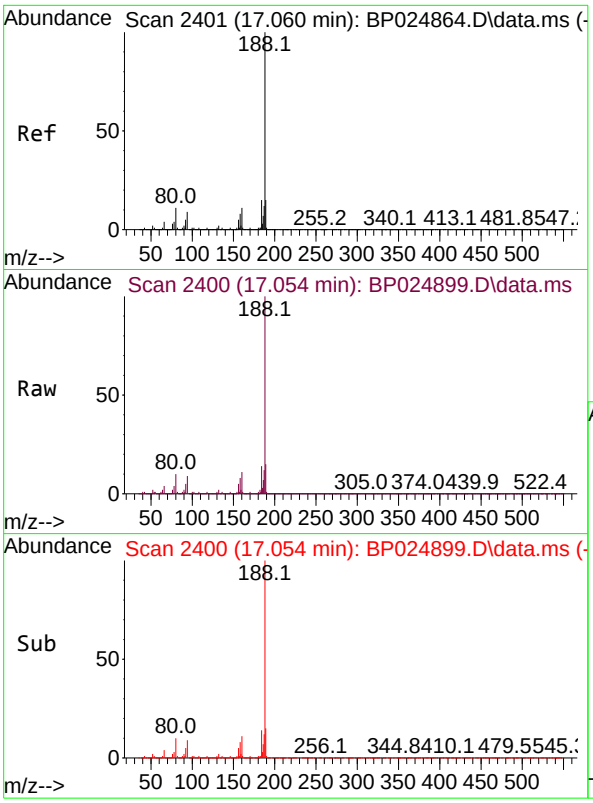




#45
2-Fluorobiphenyl
Concen: 57.616 ng
RT: 12.860 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

Tgt Ion:172 Resp: 2824048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.1 | 28.3 | 42.5 |
| 170 | 23.1 | 19.0 | 28.4 |

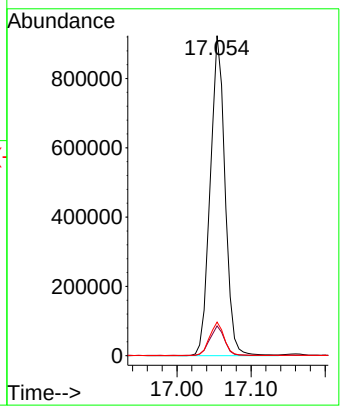





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.054 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

Tgt Ion:188 Resp: 127979

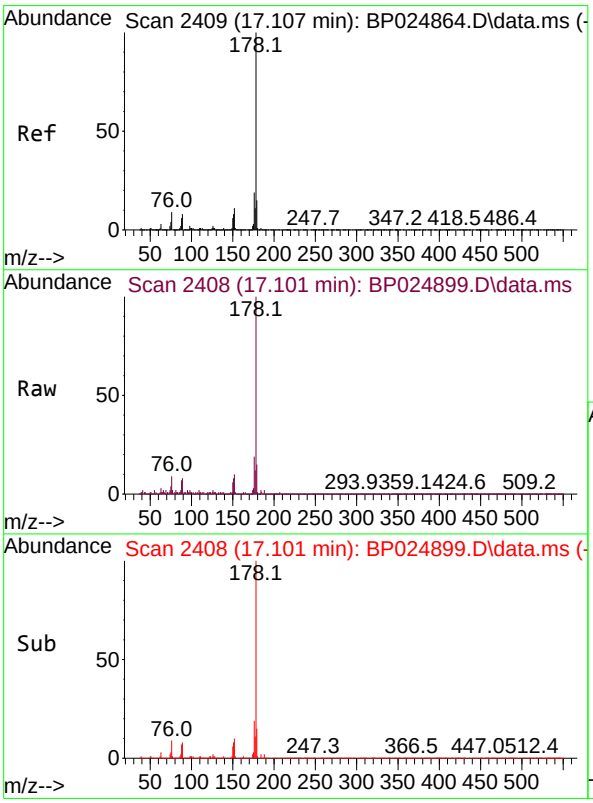
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.3 | 7.3 | 10.9 |
| 80 | 10.5 | 8.5 | 12.7 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

**Manual Integrations**
**APPROVED**

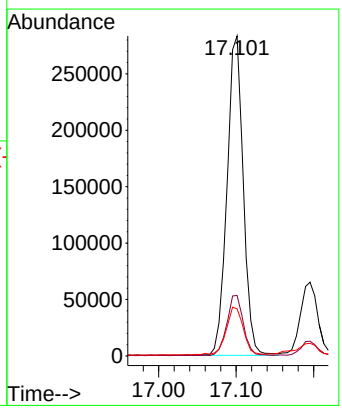
Reviewed By :Anahy Claudio 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025

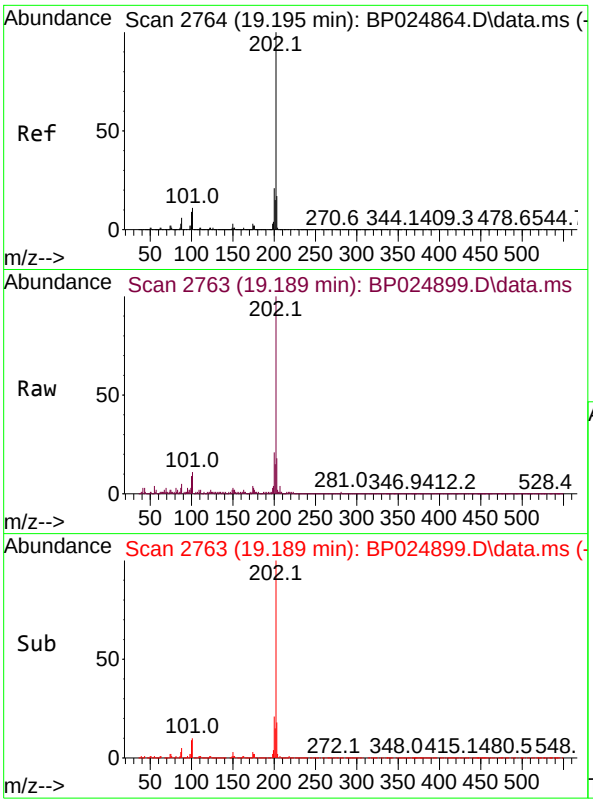



#71
Phenanthrene
Concen: 5.833 ng
RT: 17.101 min Scan# 2408
Delta R.T. -0.006 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

Tgt Ion:178 Resp: 412561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.3 | 22.9 |
| 179 | 14.8 | 12.1 | 18.1 |






#75
Fluoranthene
Concen: 6.362 ng
RT: 19.189 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

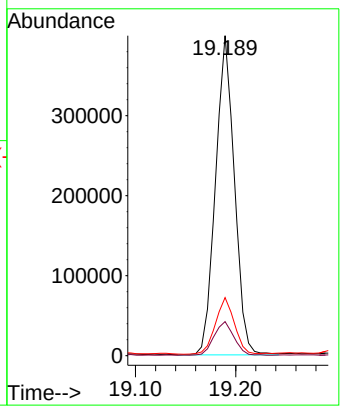
Tgt Ion:202 Resp: 52150

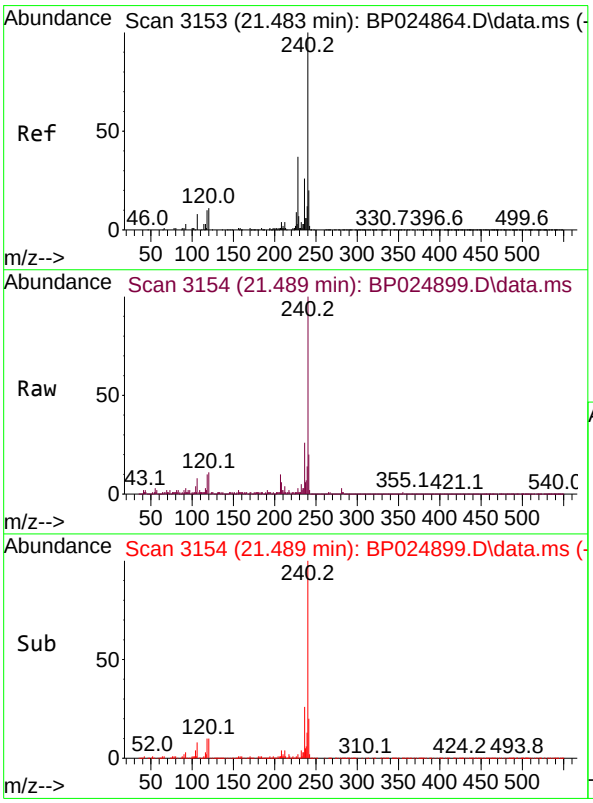
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.7 | 0.0 | 31.4 |
| 203 | 18.2 | 0.0 | 37.5 |

**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025

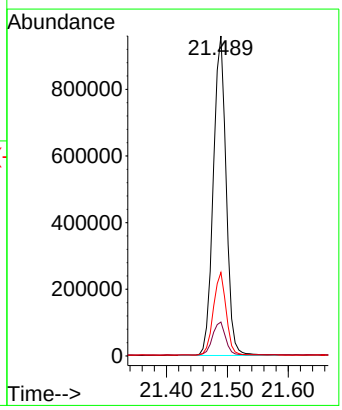


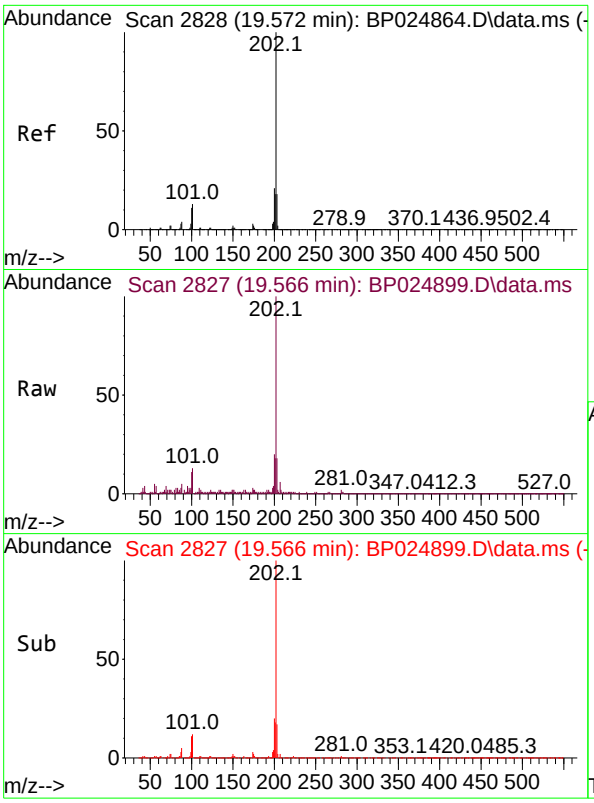




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.489 min Scan# 3154
Delta R.T. 0.006 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

Tgt Ion:240 Resp: 1406584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.6 | 8.9 | 13.3 |
| 236 | 26.1 | 20.9 | 31.3 |

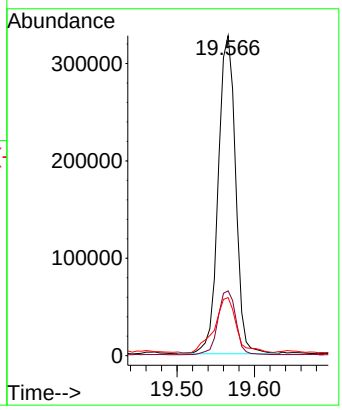





#78
Pyrene
Concen: 5.776 ng
RT: 19.566 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

Tgt Ion:202 Resp: 50757

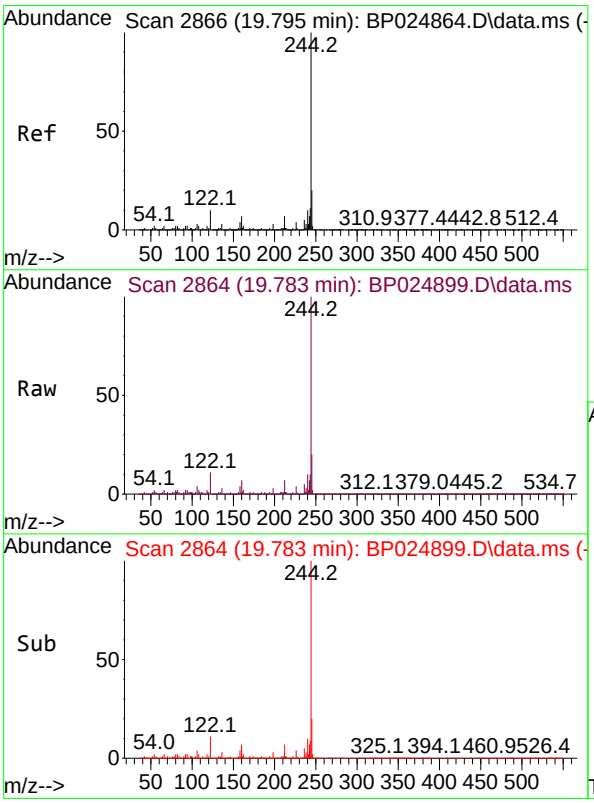
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.3 | 17.1 | 25.7 |
| 203 | 18.1 | 14.0 | 21.0 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

**Manual Integrations**
**APPROVED**

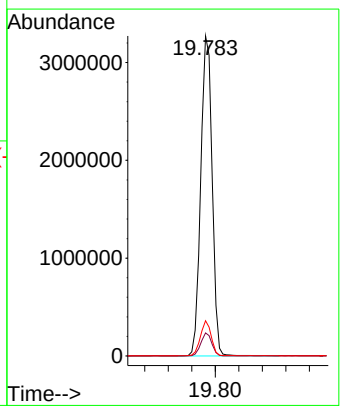
Reviewed By :Anahy Claudio 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025

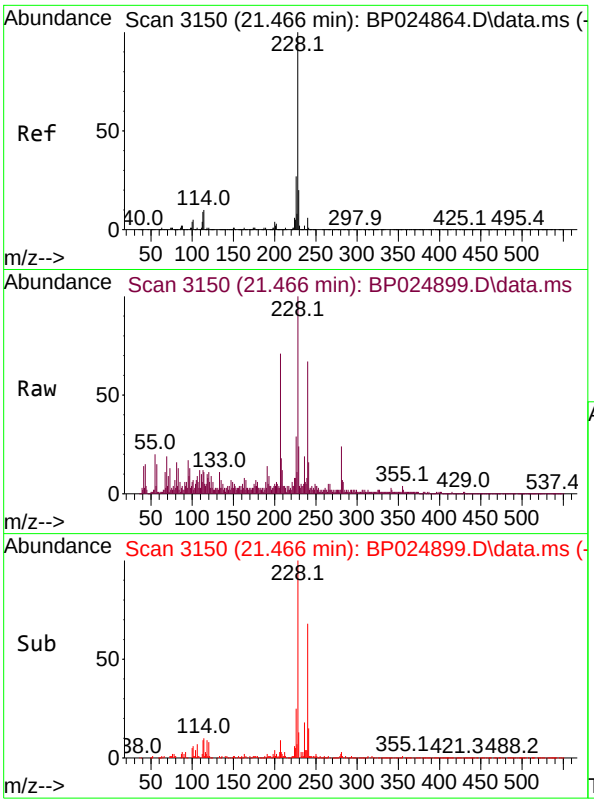



#79
Terphenyl-d14
Concen: 55.921 ng
RT: 19.783 min Scan# 2864
Delta R.T. -0.012 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

Tgt Ion:244 Resp: 4388776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.2 | 5.6 | 8.4 |
| 122 | 11.0 | 7.7 | 11.5 |

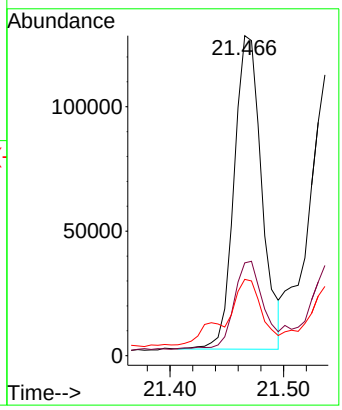





#81
Benzo(a)anthracene
Concen: 2.363 ng
RT: 21.466 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

Tgt Ion:228 Resp: 21260

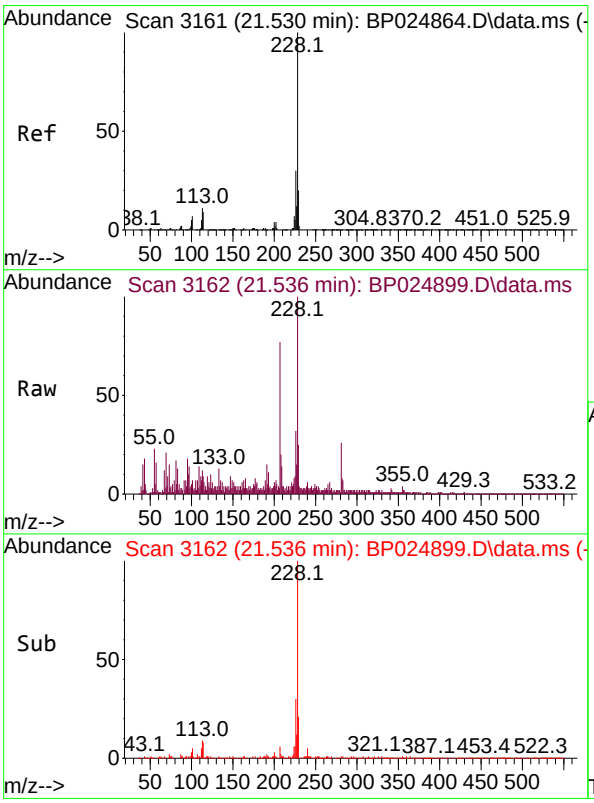
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.0 | 22.1 | 33.1 |
| 229 | 23.9 | 15.9 | 23.9 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

**Manual Integrations APPROVED**

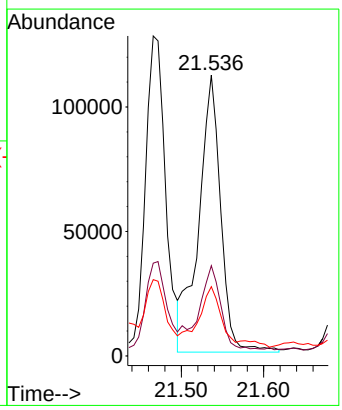
Reviewed By :Anahy Claudio 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025

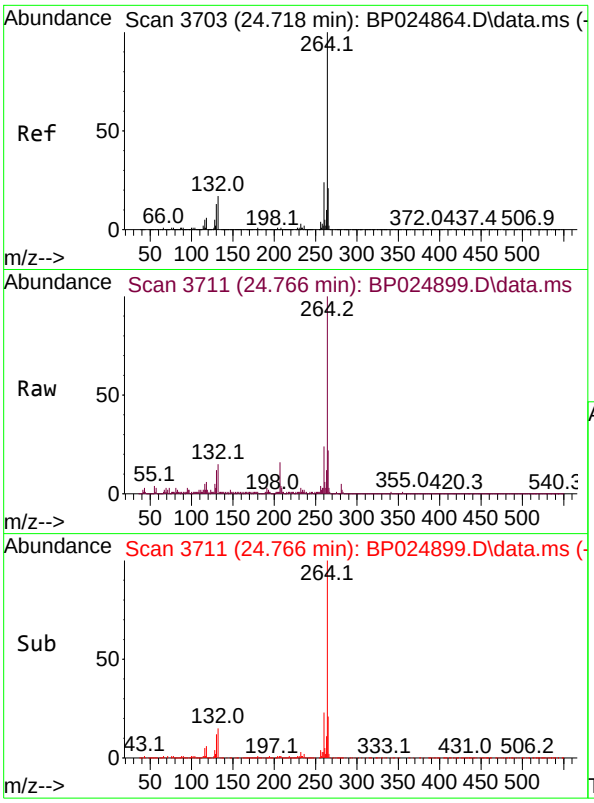



#83
Chrysene
Concen: 2.442 ng m
RT: 21.536 min Scan# 3162
Delta R.T. 0.006 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

Tgt Ion:228 Resp: 208166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.2 | 23.8 | 35.6 |
| 229 | 24.7 | 15.6 | 23.4# |

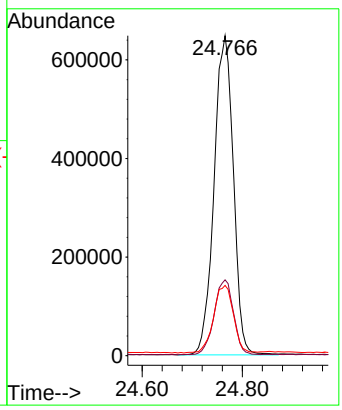





#86
Perylene-d12
Concen: 20.000 ng
RT: 24.766 min Scan# 3
Delta R.T. 0.047 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

Tgt Ion:264 Resp: 173055

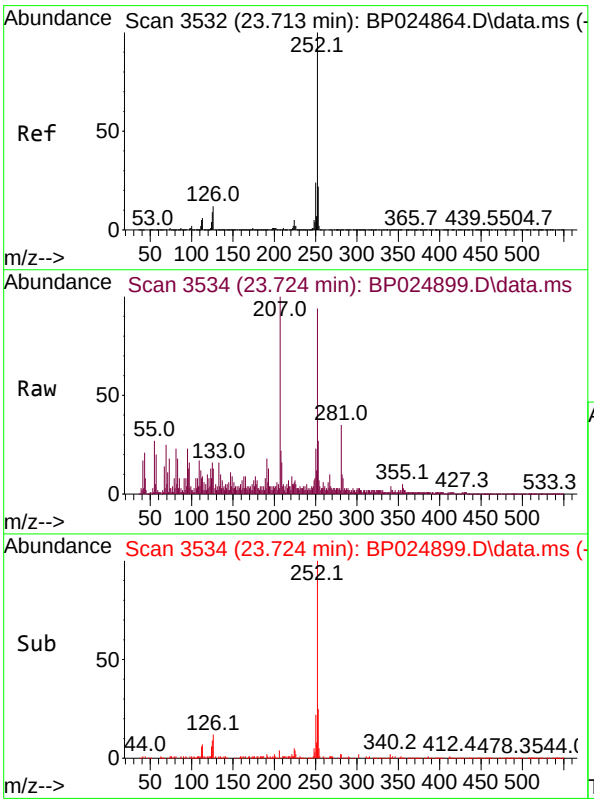
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.7 | 19.0 | 28.4 |
| 265 | 22.0 | 17.4 | 26.0 |




**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

**Manual Integrations**
**APPROVED**

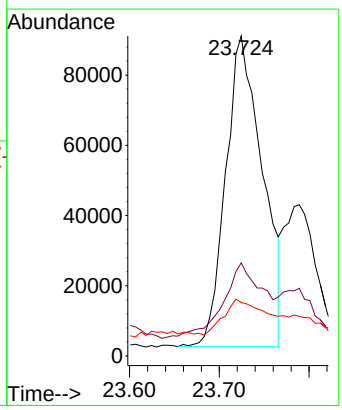
Reviewed By :Anahy Claudio 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025

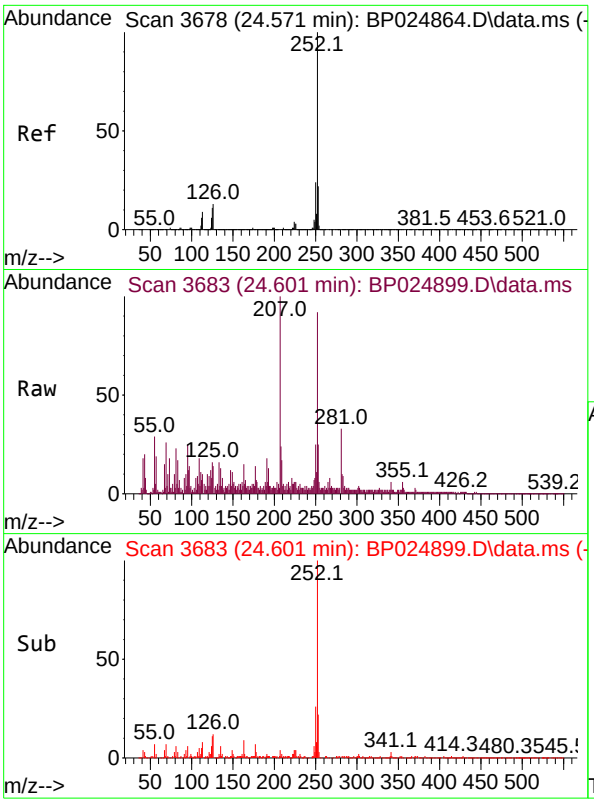



#88
Benzo(b)fluoranthene
Concen: 2.544 ng
RT: 23.724 min Scan# 3534
Delta R.T. 0.012 min
Lab File: BP024899.D
Acq: 10 Jun 2025 18:30

Tgt Ion:252 Resp: 251939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.1 | 17.6 | 26.4# |
| 125 | 16.7 | 7.1 | 10.7# |

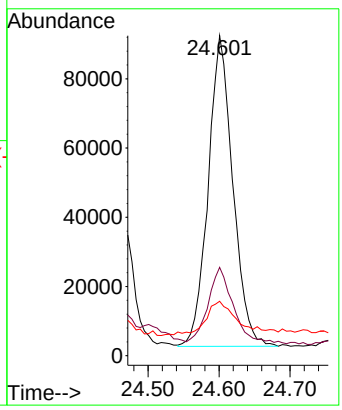





```
#90
Benzo(a)pyrene
Concen:    2.237 ng
RT:  24.601 min  Scan# 3
Delta R.T.  0.029 min
Lab File:   BP024899.D
Acq: 10 Jun 2025  18:30

Tgt Ion:252 Resp:  21641

Ion  Ratio  Lower  Upper
252  100
253   27.6   17.5   26.3#
125   17.0    8.8   13.2#
```




**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025

A B C D E F G H I J K

Sample Results: **BP024899.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024899.D
Acq On : 10 Jun 2025 18:30
Operator : RC/JU
Sample : Q2177-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024899.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.772 | 306 | 312 | 323 | rBV | 334017 | 478073 | 3.98% | 0.716% |
| 2 | 5.237 | 385 | 391 | 409 | rBV | 3614116 | 5527860 | 45.99% | 8.274% |
| 3 | 6.814 | 652 | 659 | 682 | rBV | 3563082 | 6000550 | 49.93% | 8.981% |
| 4 | 7.608 | 785 | 794 | 808 | rBV | 947214 | 1483058 | 12.34% | 2.220% |
| 5 | 8.761 | 982 | 990 | 1012 | rBV | 2168028 | 3701029 | 30.79% | 5.539% |
| 6 | 10.378 | 1254 | 1265 | 1282 | rBV | 1244971 | 2153909 | 17.92% | 3.224% |
| 7 | 12.860 | 1680 | 1687 | 1706 | rBV | 5709510 | 8155782 | 67.86% | 12.207% |
| 8 | 14.248 | 1917 | 1923 | 1931 | rBV | 1792046 | 2766689 | 23.02% | 4.141% |
| 9 | 15.325 | 2100 | 2106 | 2109 | rBV2 | 79134 | 121623 | 1.01% | 0.182% |
| 10 | 15.642 | 2153 | 2160 | 2167 | rBV | 918562 | 1339606 | 11.15% | 2.005% |
| 11 | 15.778 | 2176 | 2183 | 2191 | rBV | 5484029 | 7262007 | 60.42% | 10.869% |
| 12 | 17.054 | 2394 | 2400 | 2404 | rBV2 | 2275613 | 3193996 | 26.58% | 4.781% |
| 13 | 17.101 | 2404 | 2408 | 2414 | rVB | 666793 | 982417 | 8.17% | 1.470% |
| 14 | 17.195 | 2420 | 2424 | 2430 | rVB | 151711 | 219022 | 1.82% | 0.328% |
| 15 | 17.995 | 2556 | 2560 | 2567 | rVV2 | 639399 | 1066370 | 8.87% | 1.596% |
| 16 | 19.189 | 2759 | 2763 | 2768 | rVB | 914898 | 1168215 | 9.72% | 1.749% |
| 17 | 19.331 | 2784 | 2787 | 2791 | rBV4 | 163304 | 242890 | 2.02% | 0.364% |
| 18 | 19.566 | 2823 | 2827 | 2831 | rVB | 663540 | 970217 | 8.07% | 1.452% |
| 19 | 19.783 | 2859 | 2864 | 2876 | rVB | 8881864 | 12018511 | 100.00% | 17.989% |
| 20 | 21.489 | 3149 | 3154 | 3159 | rVB | 2492645 | 3899257 | 32.44% | 5.836% |
| 21 | 24.766 | 3705 | 3711 | 3720 | rVB | 1629102 | 4060995 | 33.79% | 6.078% |

Sum of corrected areas: 66812076

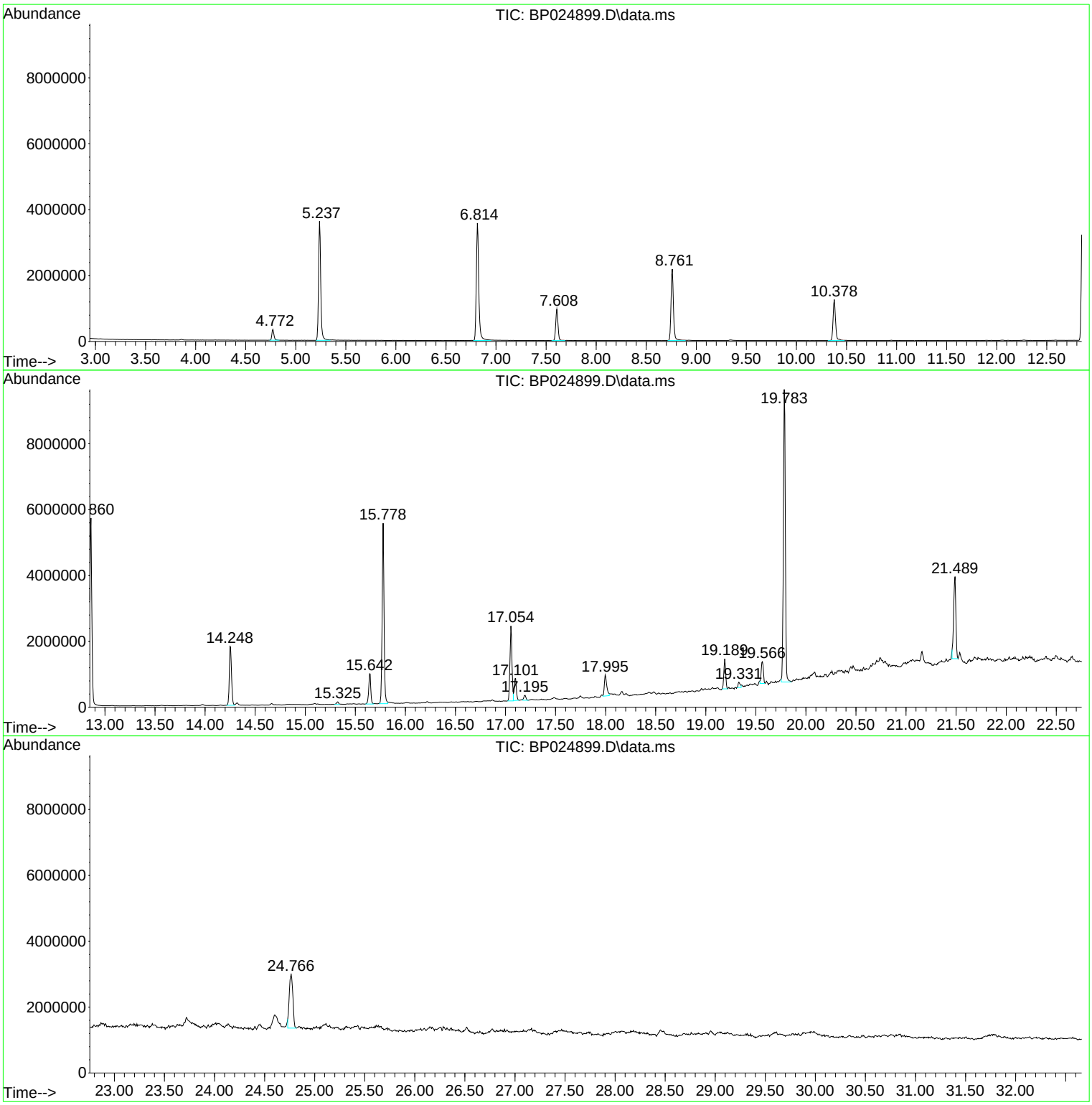
Sample Results: **BP024899.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024899.D
Acq On : 10 Jun 2025 18:30
Operator : RC/JU
Sample : Q2177-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.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_P\Data\BP061025\
Data File : BP024899.D
Acq On : 10 Jun 2025 18:30
Operator : RC/JU
Sample : Q2177-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

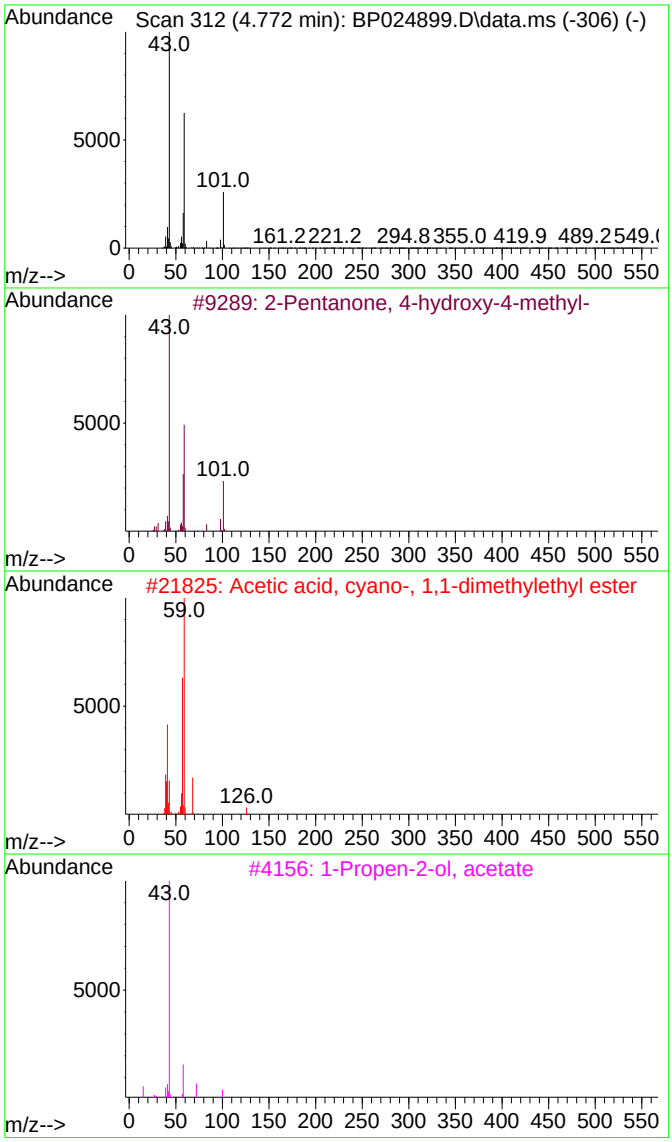
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

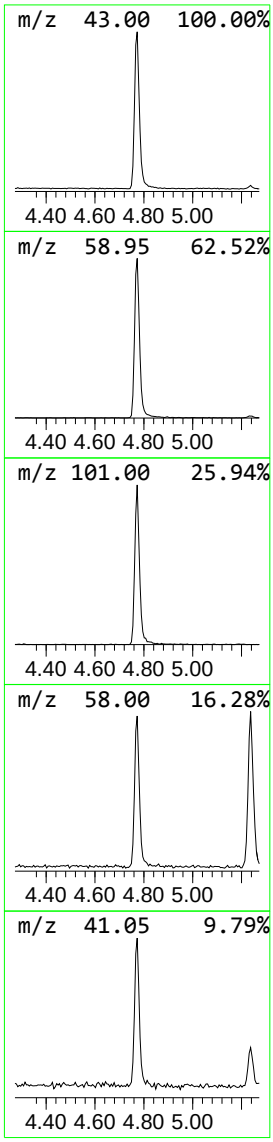
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.772 | 6.45 ng | 478073 | 1,4-Dichlorobenzene-d4 | 7.608 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 64 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25 |
| 3 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 10 |
| 4 | (+-)-4-Amino-4,5-dihydro-2(3H)-f... | 101 | C4H7NO2 | 016504-58-8 | 9 |
| 5 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024899.D
Acq On : 10 Jun 2025 18:30
Operator : RC/JU
Sample : Q2177-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

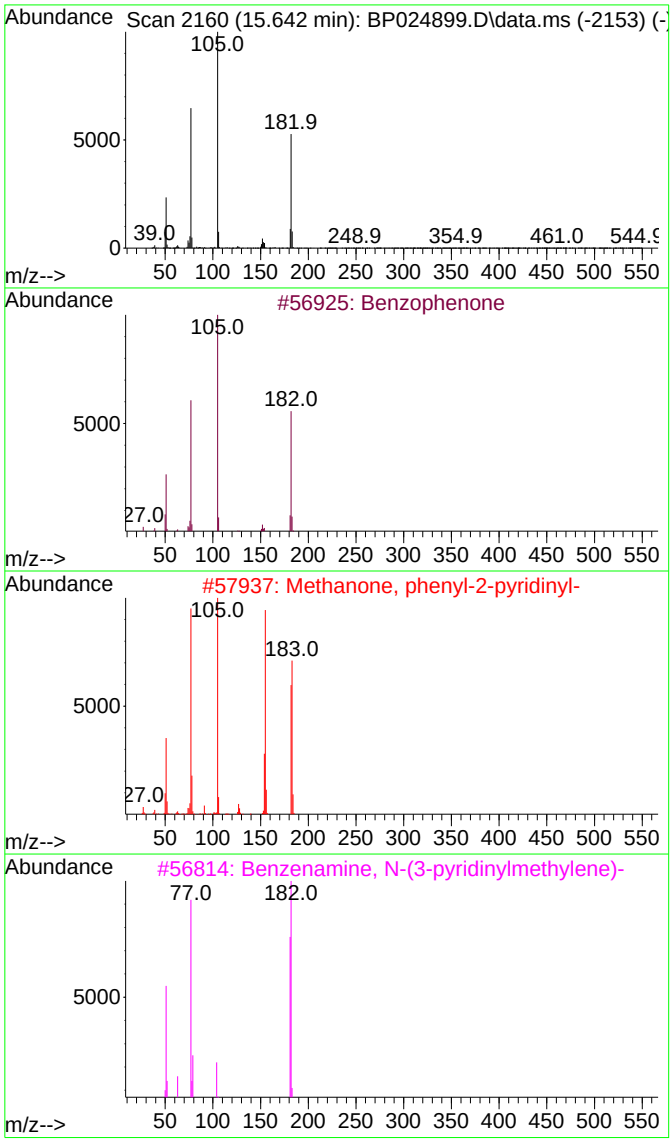
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

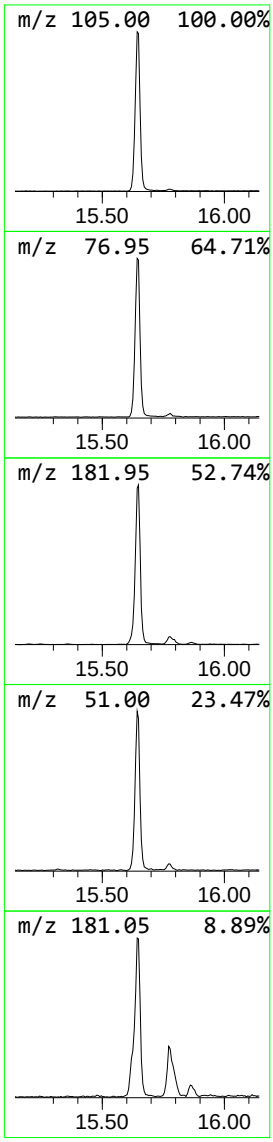
**********

Peak Number 2 Benzophenone Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.643 | 9.68 ng | 1339610 | Acenaphthene-d10 | 14.249 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 96 |
| 2 | Methanone, phenyl-2-pyridinyl- | 183 | C12H9NO | 000091-02-1 | 50 |
| 3 | Benzenamine, N-(3-pyridinylmethy... | 182 | C12H10N2 | 029722-97-2 | 45 |
| 4 | Azobenzene | 182 | C12H10N2 | 000103-33-3 | 45 |
| 5 | 1,1-Diphenyl-2-phenylthiobut-3-e... | 332 | C22H20OS | 097370-20-2 | 38 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024899.D
Acq On : 10 Jun 2025 18:30
Operator : RC/JU
Sample : Q2177-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

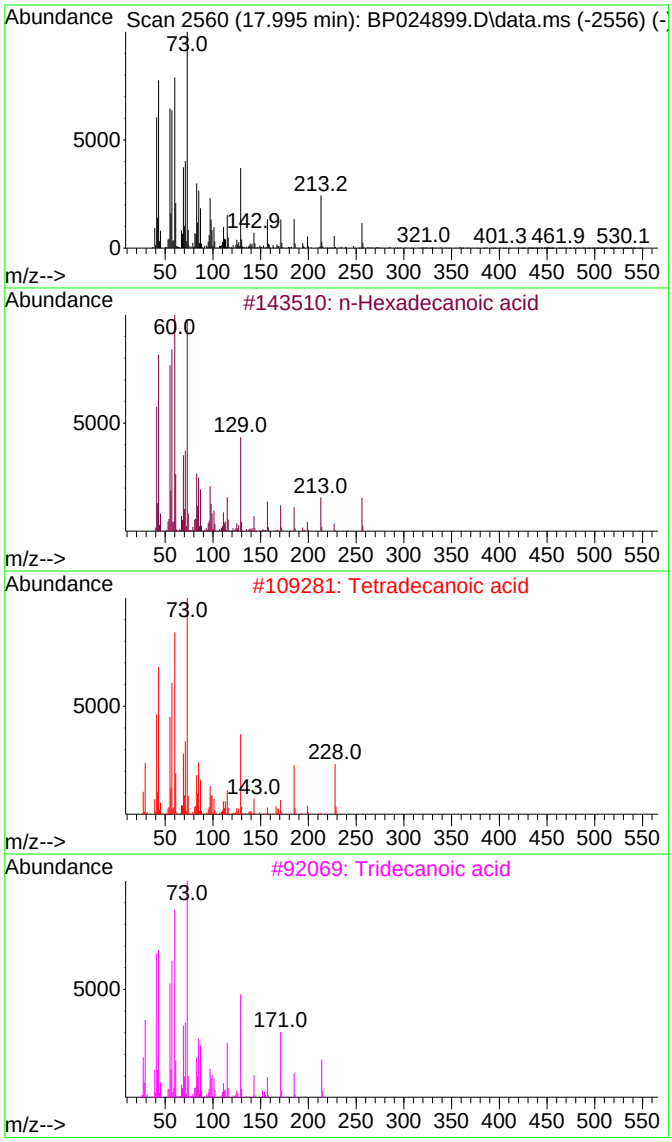
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

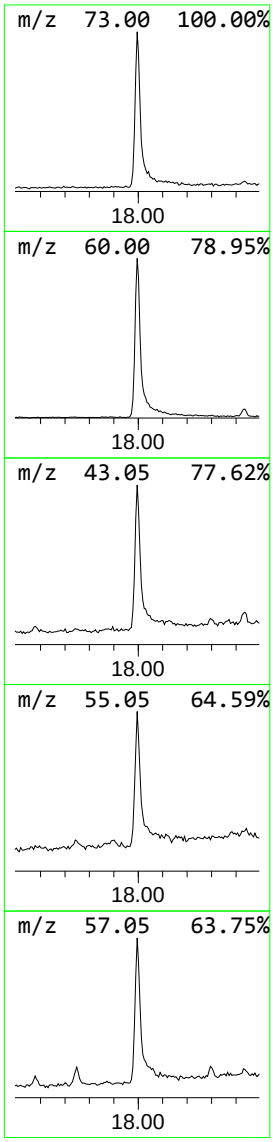
**********

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.995 | 6.68 ng | 1066370 | Phenanthrene-d10 | 17.054 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 94 |
| 3 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 93 |
| 4 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 93 |
| 5 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024899.D
Acq On : 10 Jun 2025 18:30
Operator : RC/JU
Sample : Q2177-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
B-202-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-... | 4.772 | 6.5 | ng | 478073 | 1 | 7.608 | 1483060 | 20.0 |
| Benzophenone | 15.643 | 9.7 | ng | 1339610 | 3 | 14.249 | 2766690 | 20.0 |
| n-Hexadecanoic ... | 17.995 | 6.7 | ng | 1066370 | 4 | 17.054 | 3194000 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142658.D
Acq On : 06 Jun 2025 21:02
Operator : RC/JU
Sample : Q2177-08
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
EB05312025

Quant Time: Jun 06 22:57:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

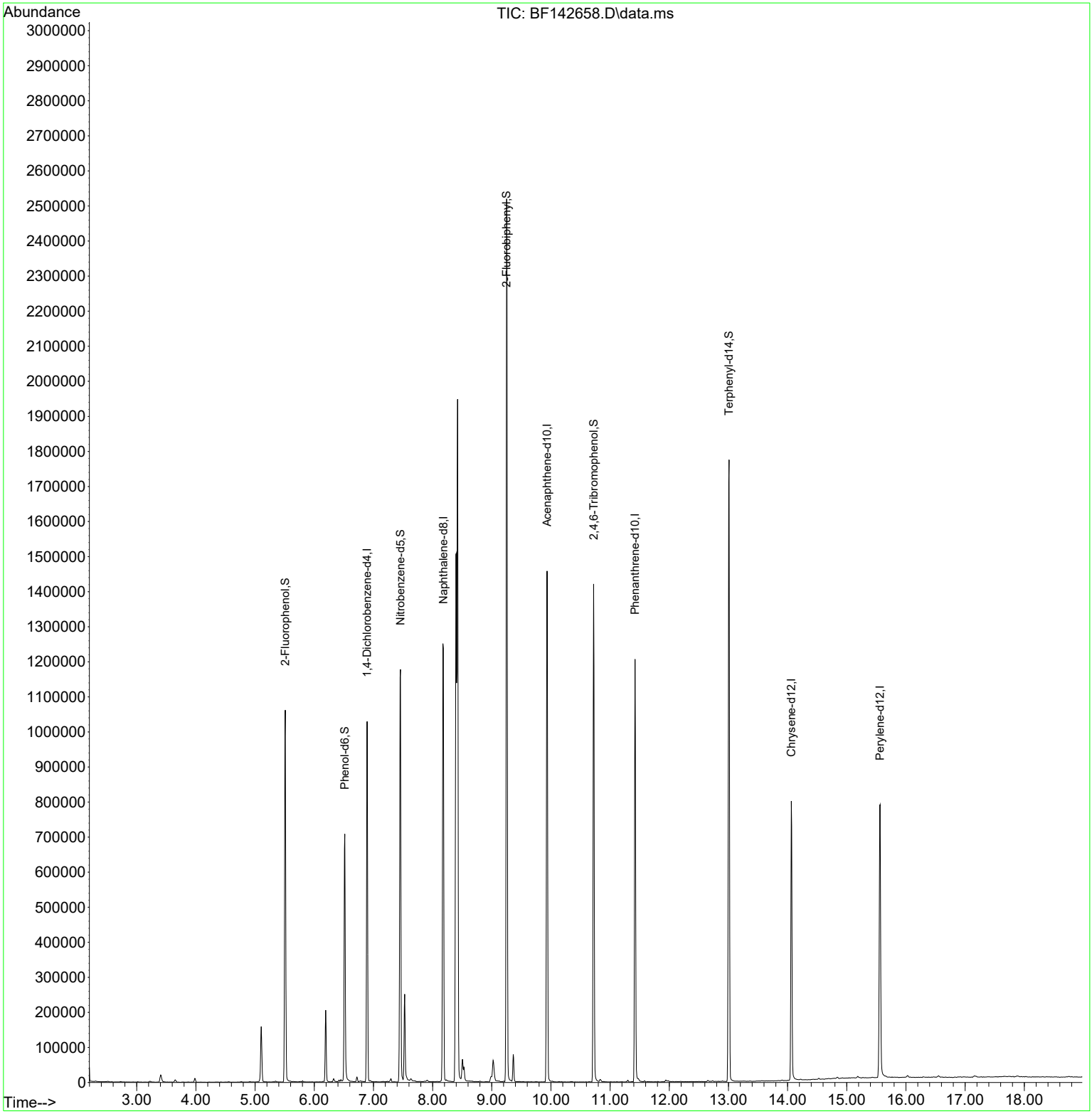
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.892 | 152 | 220757 | 20.000 | ng | -0.01 |
| 21) Naphthalene-d8 | 8.181 | 136 | 837398 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.933 | 164 | 443312 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.422 | 188 | 652874 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 14.063 | 240 | 417346 | 20.000 | ng | #-0.01 |
| 86) Perylene-d12 | 15.562 | 264 | 499853 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.510 | 112 | 416699 | 31.801 | ng | 0.00 |
| 7) Phenol-d6 | 6.516 | 99 | 349815 | 22.178 | ng | -0.02 |
| 23) Nitrobenzene-d5 | 7.457 | 82 | 541368 | 35.252 | ng | -0.02 |
| 42) 2,4,6-Tribromophenol | 10.722 | 330 | 256220 | 52.075 | ng | -0.02 |
| 45) 2-Fluorobiphenyl | 9.251 | 172 | 1168881 | 35.381 | ng | -0.02 |
| 79) Terphenyl-d14 | 13.010 | 244 | 910708 | 29.820 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

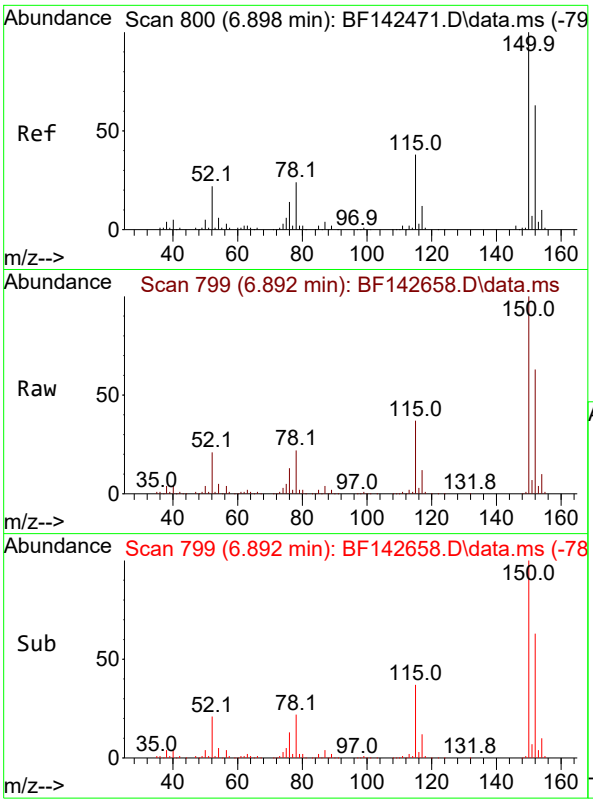
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142658.D
Acq On : 06 Jun 2025 21:02
Operator : RC/JU
Sample : Q2177-08
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
EB05312025

Quant Time: Jun 06 22:57:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



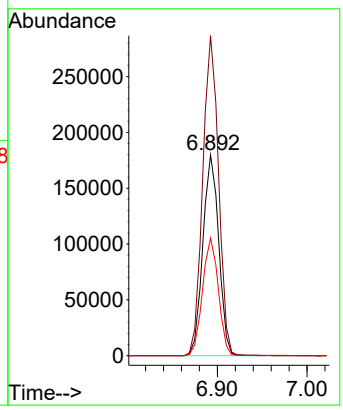


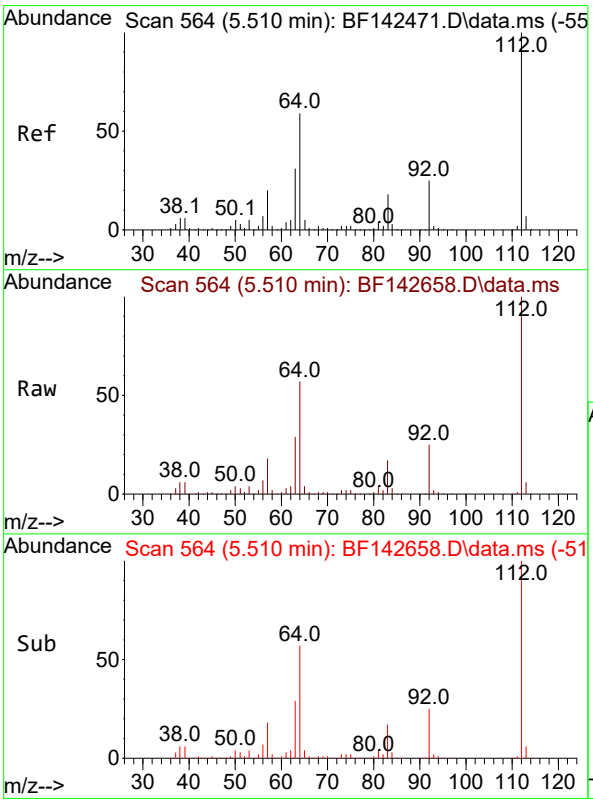

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142658.D
Acq: 06 Jun 2025 21:02

**Instrument :**
BNA_F
**ClientSampleId :**
EB05312025

Tgt Ion:152 Resp: 220757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 159.4 | 128.2 | 192.4 |
| 115 | 58.6 | 48.3 | 72.5 |

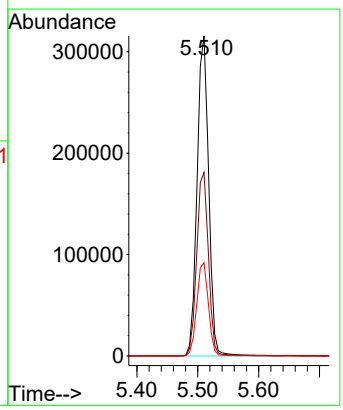


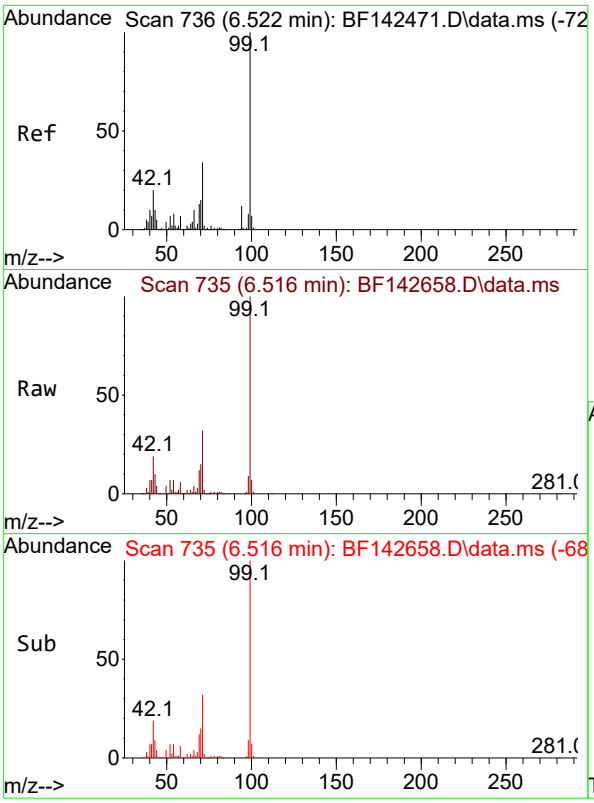




#5
2-Fluorophenol
Concen: 31.801 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142658.D
Acq: 06 Jun 2025 21:02

Tgt Ion:112 Resp: 416699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 57.3 | 47.5 | 71.3 |
| 63 | 29.2 | 24.9 | 37.3 |



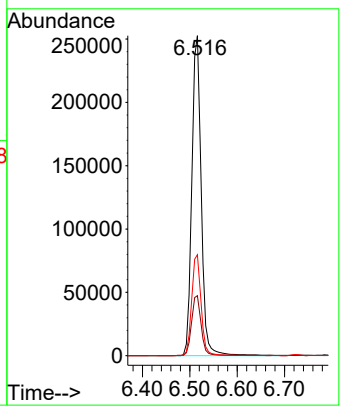


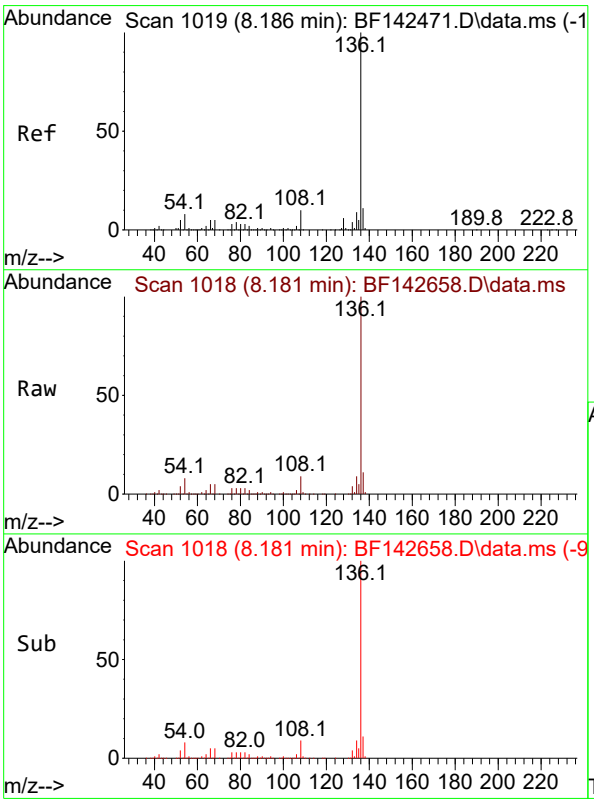

#7
Phenol-d6
Concen: 22.178 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142658.D
Acq: 06 Jun 2025 21:02

**Instrument :**
BNA_F
**ClientSampleId :**
EB05312025

Tgt Ion: 99 Resp: 349815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.8 | 16.2 | 24.2 |
| 71 | 31.5 | 27.3 | 40.9 |

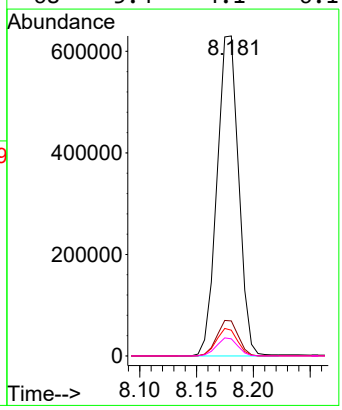


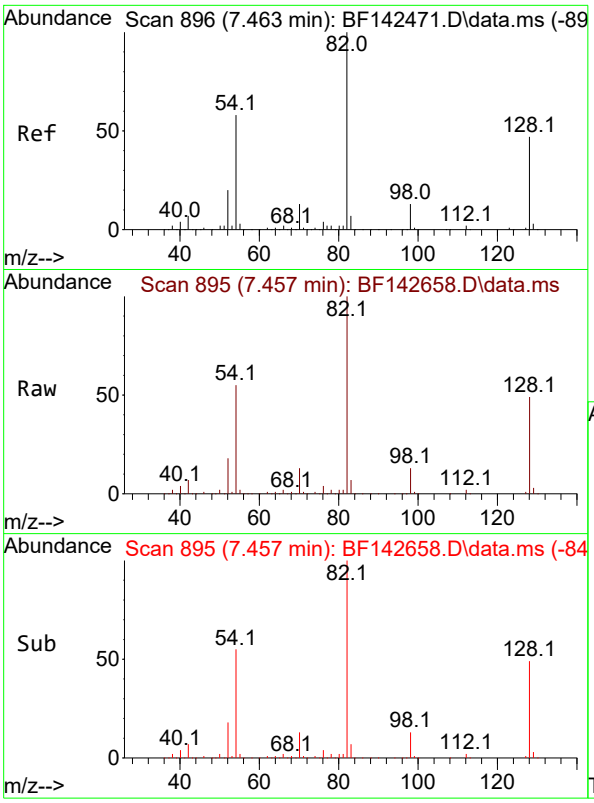




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142658.D
Acq: 06 Jun 2025 21:02

Tgt Ion:136 Resp: 837398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.9 | 8.6 | 13.0 |
| 54 | 8.1 | 6.6 | 10.0 |
| 68 | 5.4 | 4.1 | 6.1 |



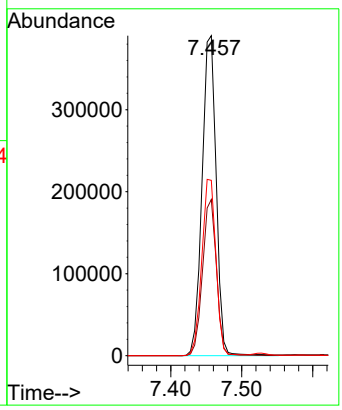


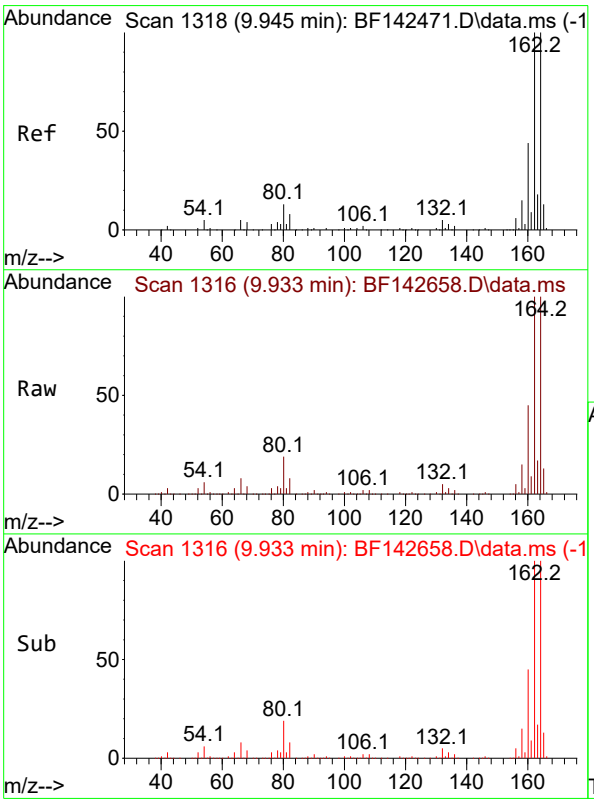

#23
Nitrobenzene-d5
Concen: 35.252 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142658.D
Acq: 06 Jun 2025 21:02

**Instrument :**
BNA_F
**ClientSampleId :**
EB05312025

Tgt Ion: 82 Resp: 541368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.8 | 37.4 | 56.2 |
| 54 | 54.8 | 46.6 | 70.0 |

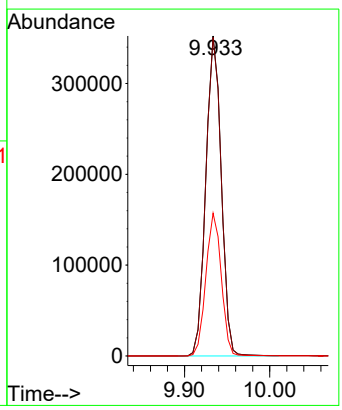


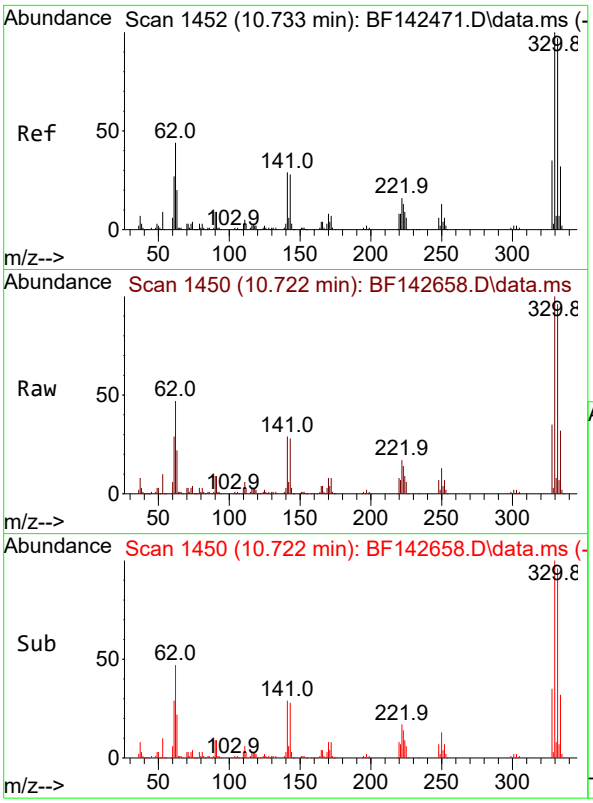




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142658.D
Acq: 06 Jun 2025 21:02

Tgt Ion:164 Resp: 443312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.6 | 80.2 | 120.4 |
| 160 | 44.6 | 35.6 | 53.4 |



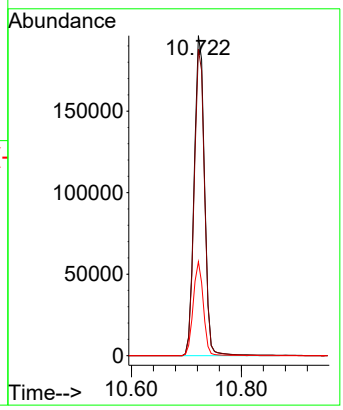


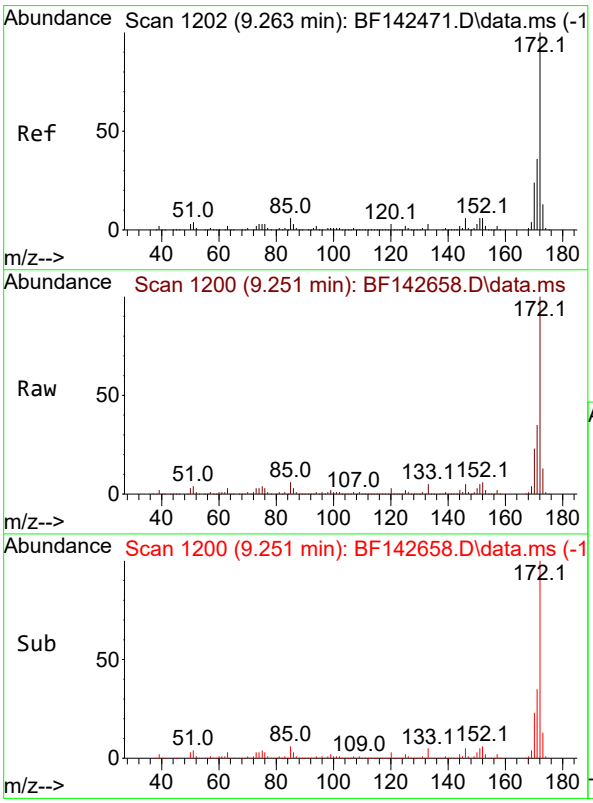

#42
2,4,6-Tribromophenol
Concen: 52.075 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF142658.D
Acq: 06 Jun 2025 21:02

**Instrument :**
BNA_F
**ClientSampleId :**
EB05312025

Tgt Ion:330 Resp: 256220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.2 | 77.6 | 116.4 |
| 141 | 28.7 | 24.6 | 36.8 |

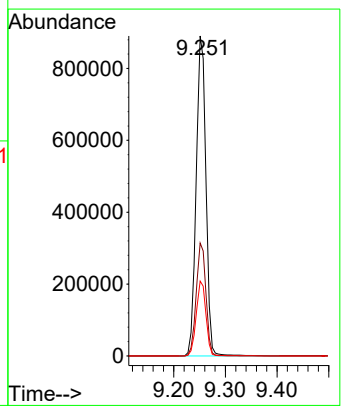


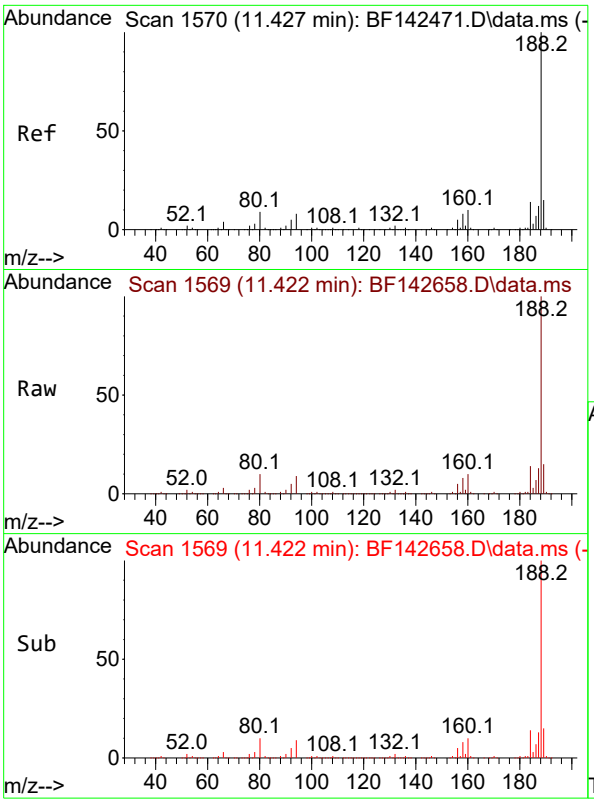




#45
2-Fluorobiphenyl
Concen: 35.381 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.018 min
Lab File: BF142658.D
Acq: 06 Jun 2025 21:02

Tgt Ion:172 Resp: 1168881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.3 | 28.6 | 42.8 |
| 170 | 23.4 | 18.9 | 28.3 |



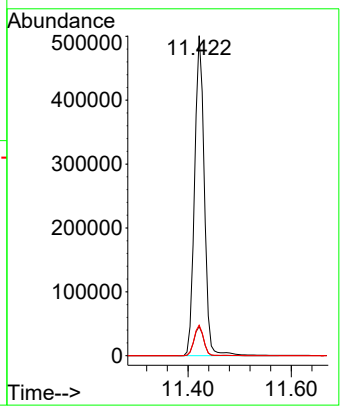


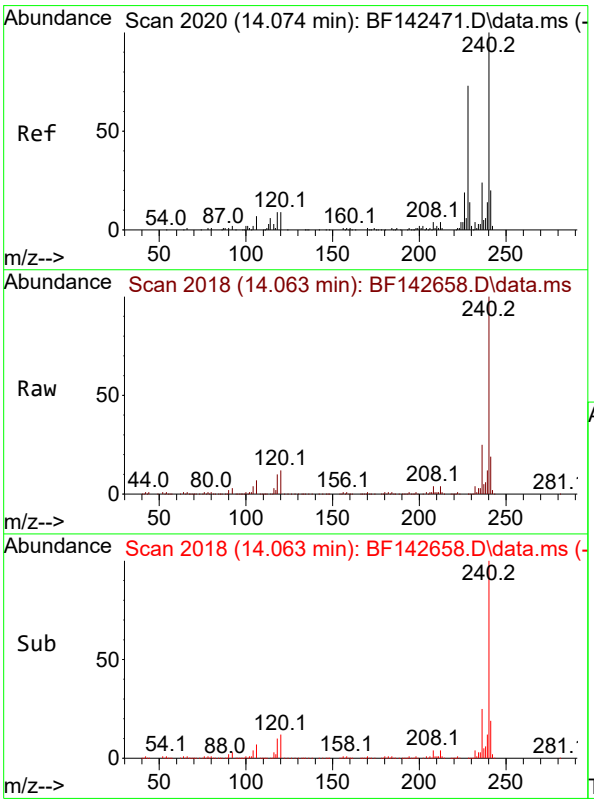

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142658.D
Acq: 06 Jun 2025 21:02

**Instrument :**
BNA_F
**ClientSampleId :**
EB05312025

Tgt Ion:188 Resp: 652874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.1 | 6.6 | 10.0 |
| 80 | 9.5 | 7.4 | 11.0 |

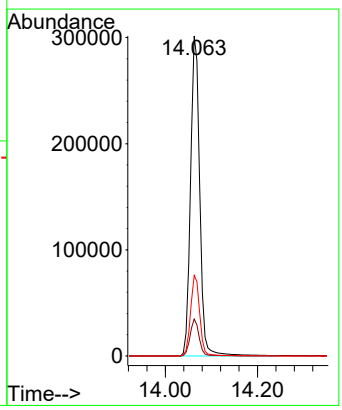


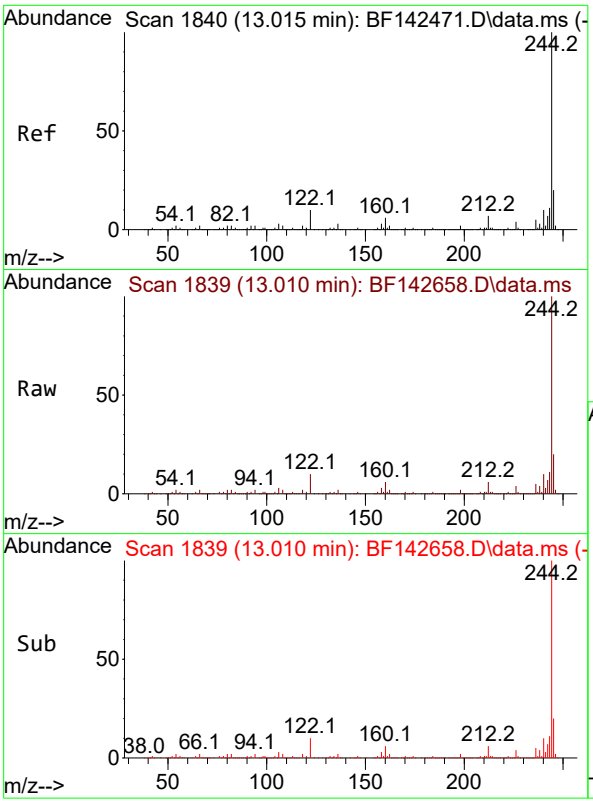




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142658.D
Acq: 06 Jun 2025 21:02

Tgt Ion:240 Resp: 417346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.6 | 7.5 | 11.3# |
| 236 | 25.2 | 19.6 | 29.4 |



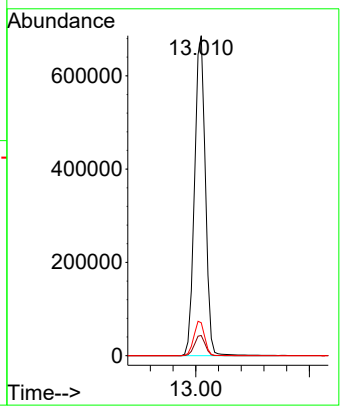


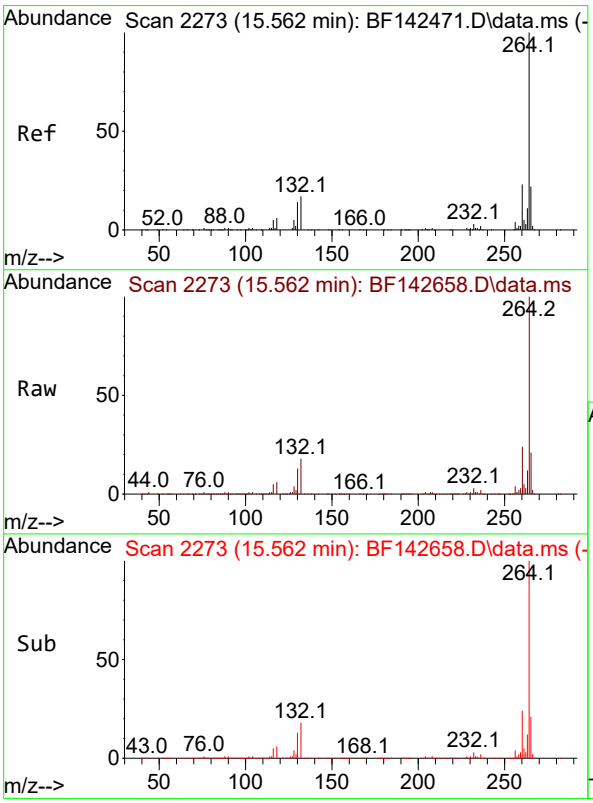

#79
Terphenyl-d14
Concen: 29.820 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142658.D
Acq: 06 Jun 2025 21:02

**Instrument :**
BNA_F
**ClientSampleId :**
EB05312025

Tgt Ion:244 Resp: 910708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.3 | 5.3 | 7.9 |
| 122 | 10.3 | 8.2 | 12.2 |

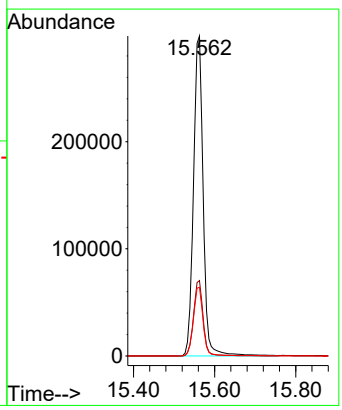



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142658.D
Acq: 06 Jun 2025 21:02

Tgt Ion:264 Resp: 499853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.5 | 18.6 | 28.0 |
| 265 | 21.4 | 17.7 | 26.5 |



Sample Results: **BF142658.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142658.D
Acq On : 06 Jun 2025 21:02
Operator : RC/JU
Sample : Q2177-08
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
EB05312025

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142658.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.404 | 199 | 206 | 223 | rVB | 20200 | 42205 | 1.30% | 0.164% |
| 2 | 5.104 | 486 | 495 | 505 | rBV | 158178 | 228178 | 7.04% | 0.886% |
| 3 | 5.510 | 558 | 564 | 576 | rBV | 1060427 | 1404379 | 43.32% | 5.451% |
| 4 | 6.192 | 675 | 680 | 693 | rVB | 204633 | 256927 | 7.93% | 0.997% |
| 5 | 6.516 | 729 | 735 | 755 | rVB | 705600 | 977036 | 30.14% | 3.792% |
| 6 | 6.892 | 794 | 799 | 804 | rBV | 1027128 | 1257514 | 38.79% | 4.881% |
| 7 | 7.457 | 887 | 895 | 902 | rBV | 1176999 | 1638403 | 50.54% | 6.360% |
| 8 | 7.528 | 902 | 907 | 921 | rVB | 246668 | 337209 | 10.40% | 1.309% |
| 9 | 8.175 | 1005 | 1017 | 1023 | rBV | 1249838 | 1657682 | 51.14% | 6.435% |
| 10 | 8.398 | 1048 | 1055 | 1056 | rBV | 1506778 | 1977265 | 60.99% | 7.675% |
| 11 | 8.422 | 1056 | 1059 | 1068 | rVV | 1945489 | 2469920 | 76.19% | 9.587% |
| 12 | 8.504 | 1068 | 1073 | 1076 | rVV | 62313 | 97040 | 2.99% | 0.377% |
| 13 | 8.528 | 1076 | 1077 | 1086 | rVB | 39203 | 41030 | 1.27% | 0.159% |
| 14 | 9.022 | 1156 | 1161 | 1170 | rVB2 | 58023 | 118084 | 3.64% | 0.458% |
| 15 | 9.251 | 1194 | 1200 | 1205 | rBV | 2518089 | 3241711 | 100.00% | 12.583% |
| 16 | 9.363 | 1215 | 1219 | 1228 | rVB | 78389 | 101238 | 3.12% | 0.393% |
| 17 | 9.933 | 1310 | 1316 | 1321 | rBV | 1457205 | 1832329 | 56.52% | 7.112% |
| 18 | 10.722 | 1445 | 1450 | 1465 | rBV | 1420099 | 1820408 | 56.16% | 7.066% |
| 19 | 11.422 | 1564 | 1569 | 1577 | rBV | 1205282 | 1544852 | 47.66% | 5.997% |
| 20 | 13.010 | 1833 | 1839 | 1844 | rBV | 1772941 | 2348119 | 72.43% | 9.115% |
| 21 | 14.063 | 2013 | 2018 | 2035 | rBV | 794713 | 1071174 | 33.04% | 4.158% |
| 22 | 15.562 | 2266 | 2273 | 2288 | rBV | 778117 | 1299618 | 40.09% | 5.045% |

Sum of corrected areas: 25762321

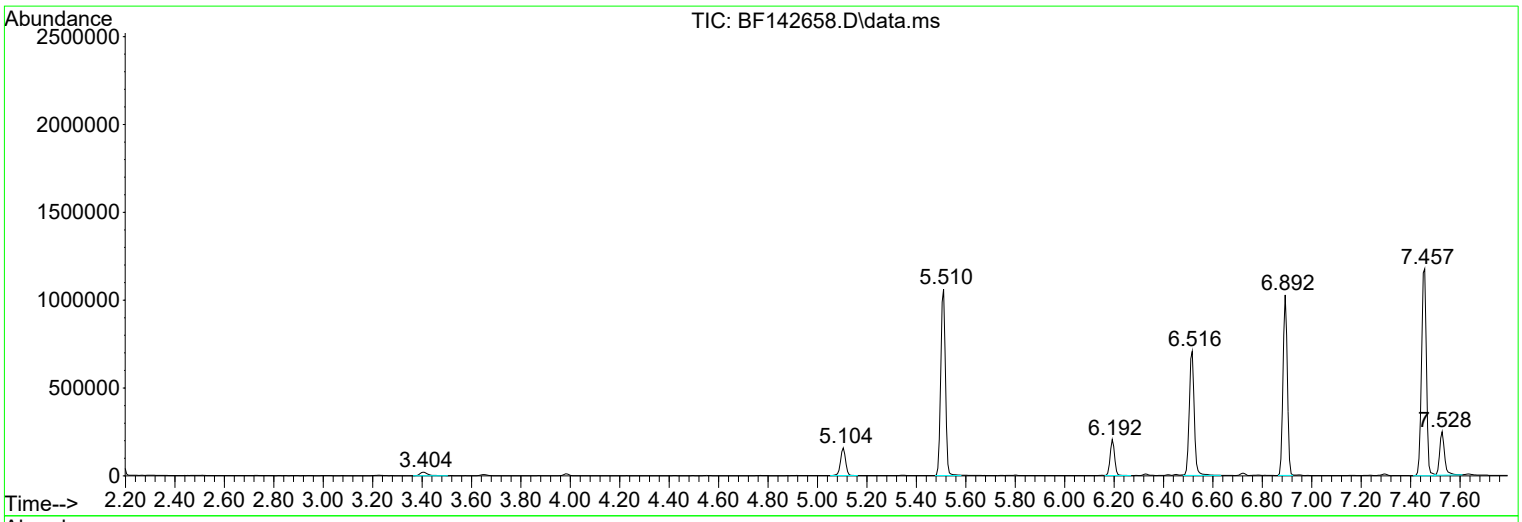
Sample Results: **BF142658.D**

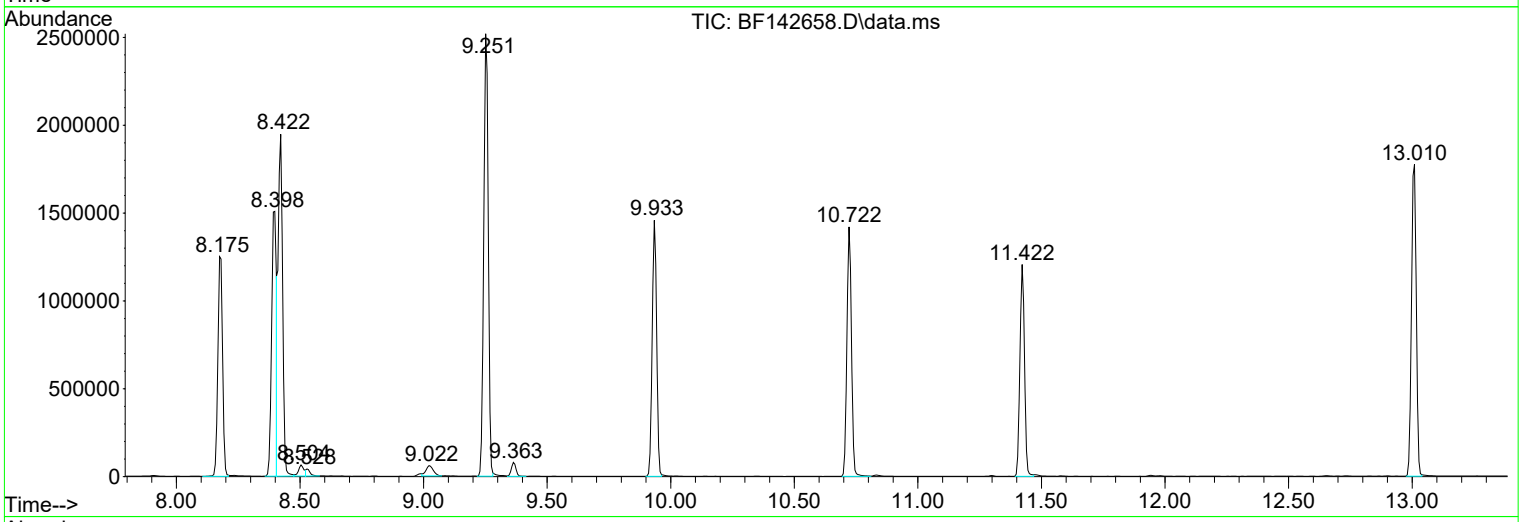
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142658.D
Acq On : 06 Jun 2025 21:02
Operator : RC/JU
Sample : Q2177-08
Misc :
ALS Vial : 20 Sample Multiplier: 1

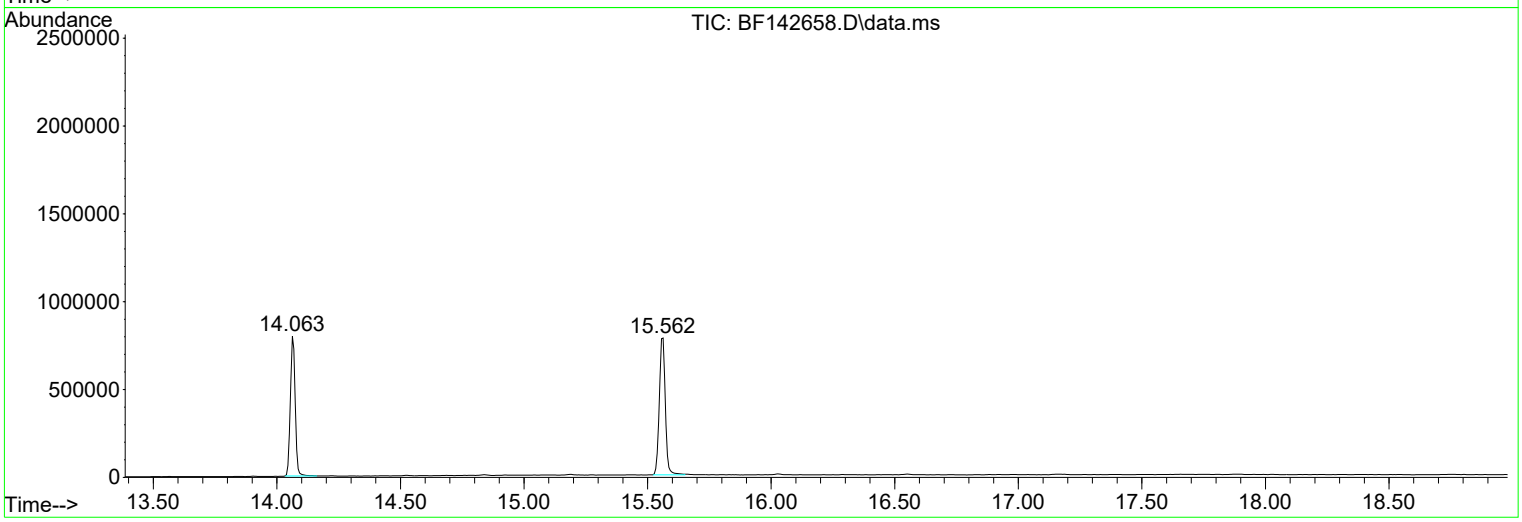
**Instrument :**
BNA_F
**ClientSampleId :**
EB05312025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF060625\
Data File : BF142658.D
Acq On : 06 Jun 2025 21:02
Operator : RC/JU
Sample : Q2177-08
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
EB05312025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

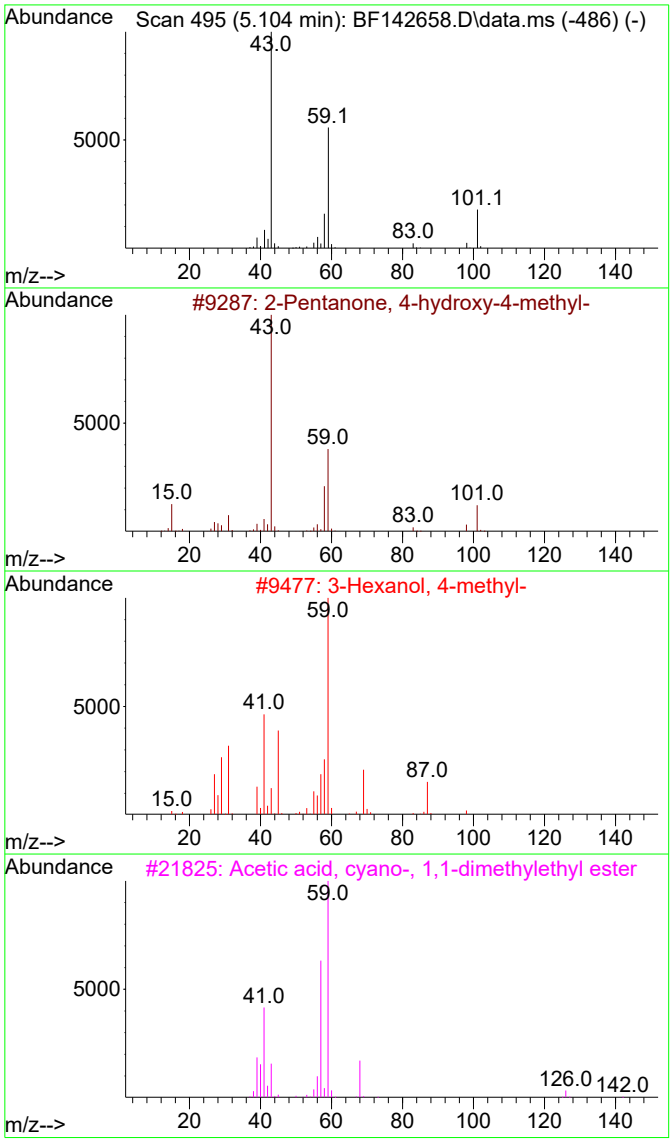
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

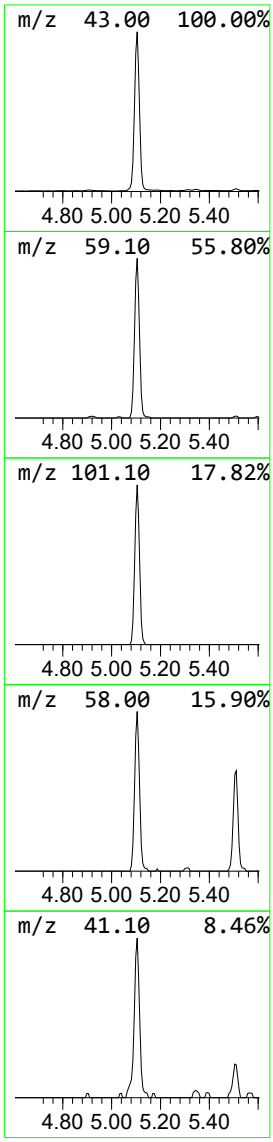
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.104 | 3.63 ng | 228178 | 1,4-Dichlorobenzene-d4 | 6.892 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 59 |
| 2 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 33 |
| 3 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25 |
| 4 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 12 |
| 5 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142658.D
Acq On : 06 Jun 2025 21:02
Operator : RC/JU
Sample : Q2177-08
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
EB05312025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

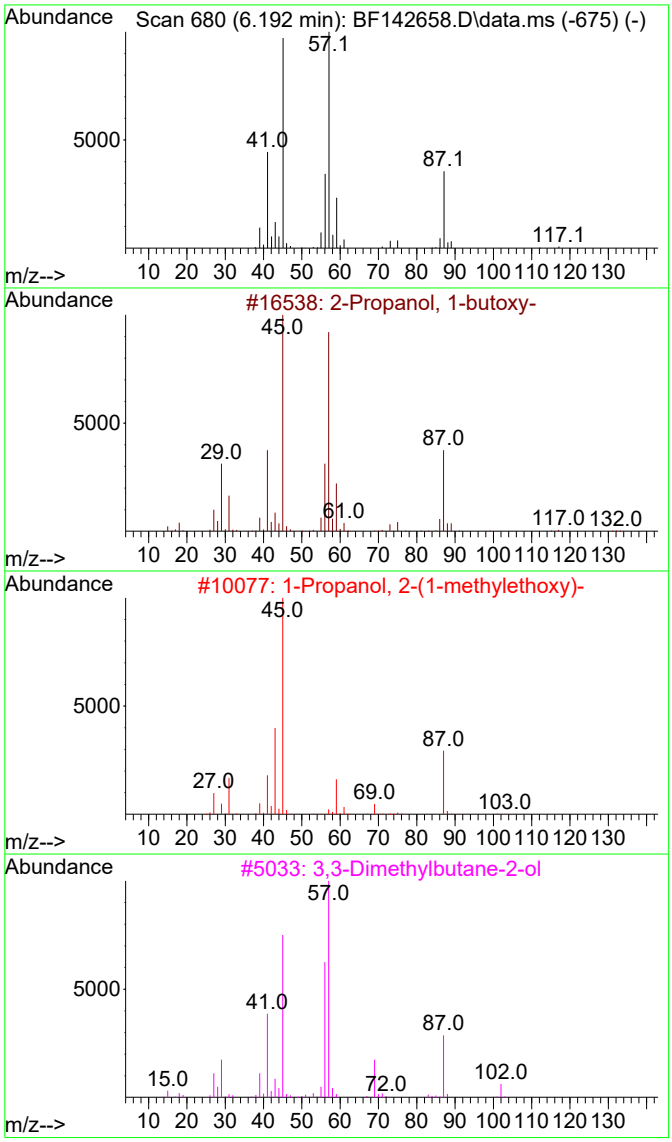
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

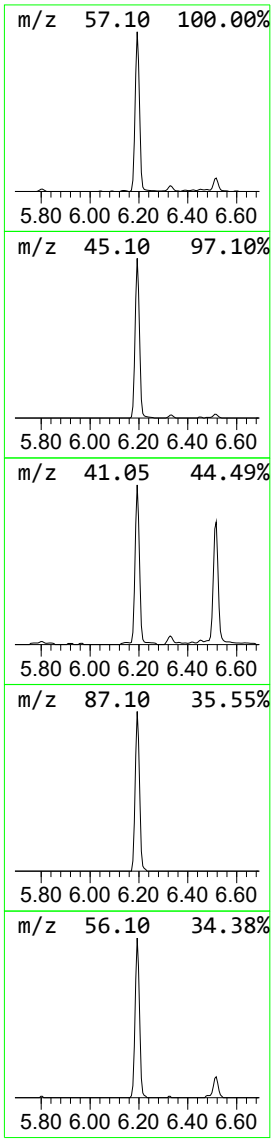
**********

Peak Number 2 2-Propanol, 1-butoxy- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.192 | 4.09 ng | 256927 | 1,4-Dichlorobenzene-d4 | 6.892 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propanol, 1-butoxy- | 132 | C7H16O2 | 005131-66-8 | 90 |
| 2 | 1-Propanol, 2-(1-methylethoxy)- | 118 | C6H14O2 | 003944-37-4 | 53 |
| 3 | 3,3-Dimethylbutane-2-ol | 102 | C6H14O | 000464-07-3 | 53 |
| 4 | Formic acid, 1-methylpropyl ester | 102 | C5H10O2 | 000589-40-2 | 45 |
| 5 | Butane, 1-(1-methylpropoxy)- | 130 | C8H18O | 000999-65-5 | 42 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142658.D
Acq On : 06 Jun 2025 21:02
Operator : RC/JU
Sample : Q2177-08
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
EB05312025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

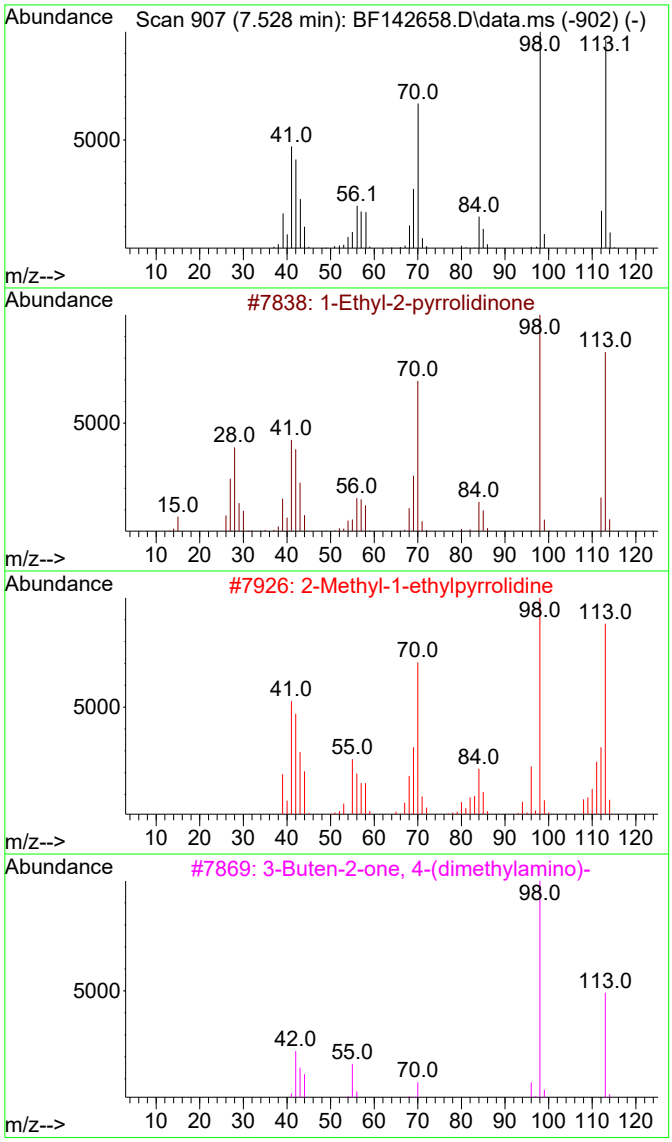
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

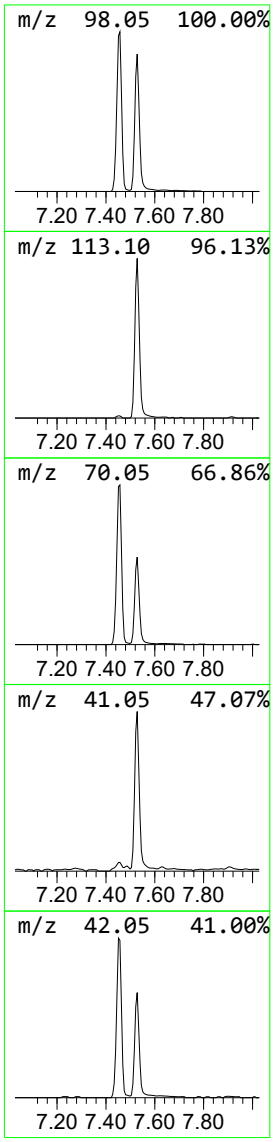
**********

Peak Number 3 1-Ethyl-2-pyrrolidinone Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.528 | 5.36 ng | 337209 | 1,4-Dichlorobenzene-d4 | 6.892 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Ethyl-2-pyrrolidinone | 113 | C6H11NO | 002687-91-4 | 94 |
| 2 | 2-Methyl-1-ethylpyrrolidine | 113 | C7H15N | 000765-79-7 | 86 |
| 3 | 3-Buten-2-one, 4-(dimethylamino)- | 113 | C6H11NO | 001190-91-6 | 59 |
| 4 | 3-Penten-2-one, 4-(methylamino)- | 113 | C6H11NO | 014092-14-9 | 50 |
| 5 | Piperazine, 1-[(2,4-dichlorobenz... | 286 | C13H16Cl2N2O | 1000137-95-1 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142658.D
Acq On : 06 Jun 2025 21:02
Operator : RC/JU
Sample : Q2177-08
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
EB05312025

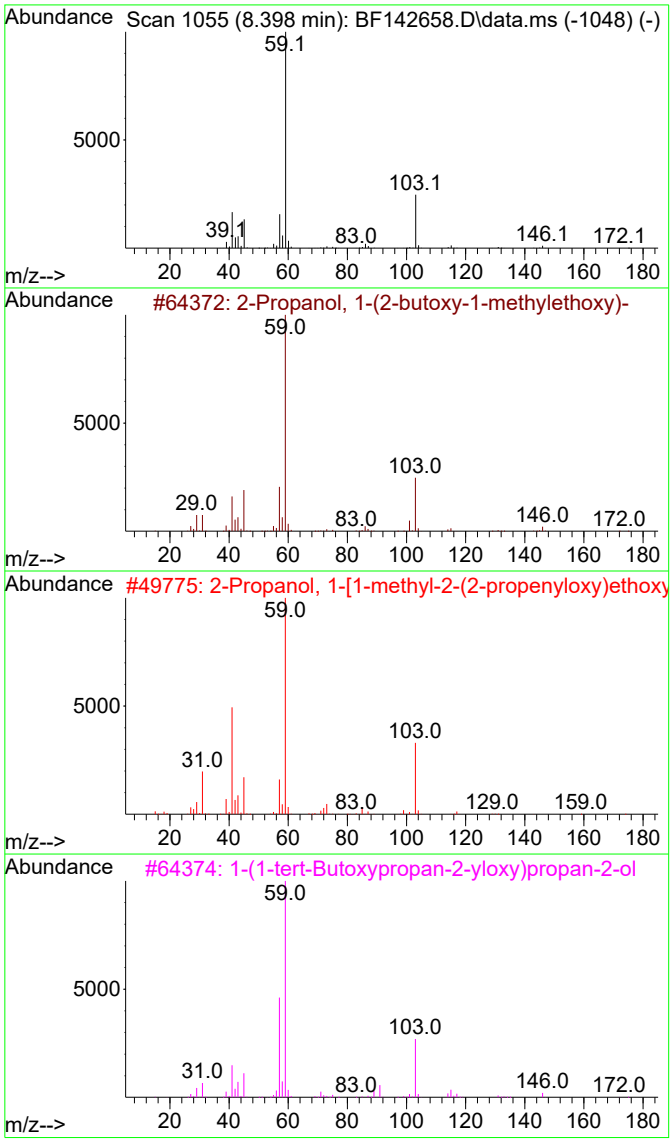
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

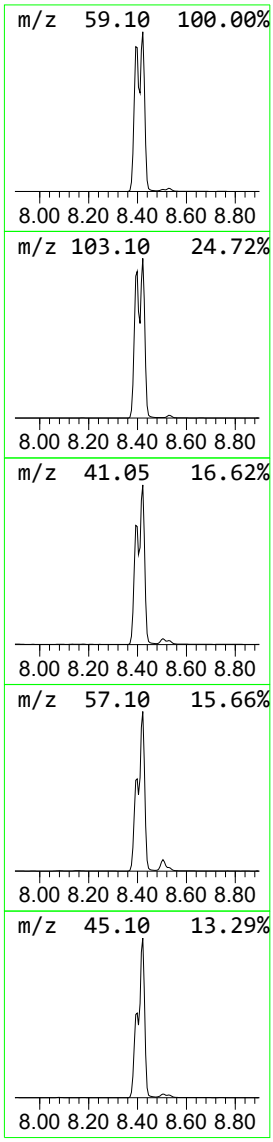
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 2-Propanol, 1-(2-butoxy-1-m... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.398 | 23.86 ng | 1977270 | Naphthalene-d8 | 8.181 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propanol, 1-(2-butoxy-1-methyl... | 190 | C10H22O3 | 029911-28-2 | 83 |
| 2 | 2-Propanol, 1-[1-methyl-2-(2-pro... | 174 | C9H18O3 | 055956-25-7 | 74 |
| 3 | 1-(1-tert-Butoxypropan-2-yloxy)p... | 190 | C10H22O3 | 132739-31-2 | 72 |
| 4 | 1-Propanol, 2-(2-hydroxypropoxy)- | 134 | C6H14O3 | 000106-62-7 | 72 |
| 5 | Dipropylene glycol (isomer 3) | 134 | C6H14O3 | 1000506-25-5 | 64 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142658.D
Acq On : 06 Jun 2025 21:02
Operator : RC/JU
Sample : Q2177-08
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
EB05312025

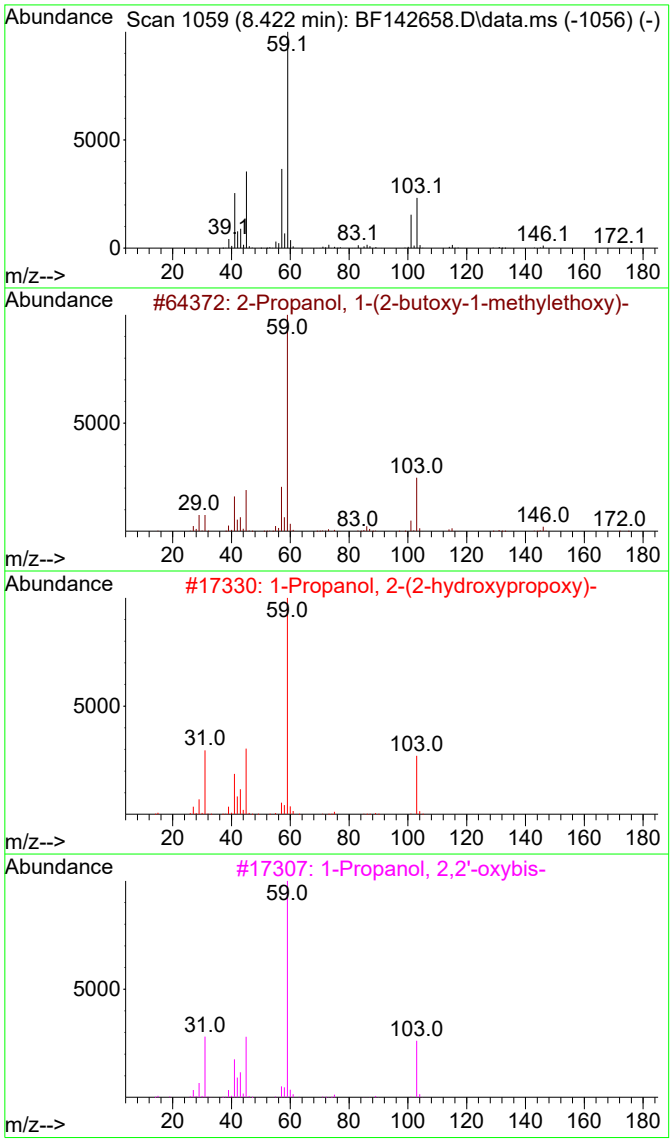
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

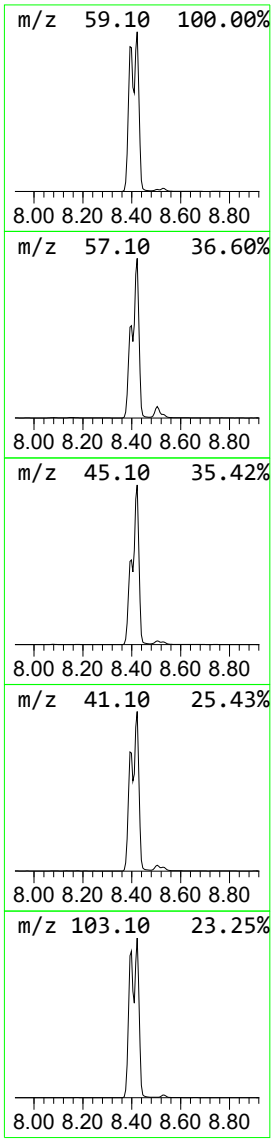
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 1-Propanol, 2-(2-hydroxypro... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.422 | 29.80 ng | 2469920 | Naphthalene-d8 | 8.181 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propanol, 1-(2-butoxy-1-methyl... | 190 | C10H22O3 | 029911-28-2 | 78 |
| 2 | 1-Propanol, 2-(2-hydroxypropoxy)- | 134 | C6H14O3 | 000106-62-7 | 72 |
| 3 | 1-Propanol, 2,2'-oxybis- | 134 | C6H14O3 | 000108-61-2 | 72 |
| 4 | Dipropylene glycol (isomer 3) | 134 | C6H14O3 | 1000506-25-5 | 64 |
| 5 | Dipropylene glycol (isomer 2) | 134 | C6H14O3 | 1000506-25-4 | 64 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142658.D
Acq On : 06 Jun 2025 21:02
Operator : RC/JU
Sample : Q2177-08
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
EB05312025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-... | 5.104 | 3.6 | ng | 228178 | 1 | 6.892 | 1257510 | 20.0 |
| 2-Propanol, 1-b... | 6.192 | 4.1 | ng | 256927 | 1 | 6.892 | 1257510 | 20.0 |
| 1-Ethyl-2-pyrro... | 7.528 | 5.4 | ng | 337209 | 1 | 6.892 | 1257510 | 20.0 |
| 2-Propanol, 1-(... | 8.398 | 23.9 | ng | 1977270 | 2 | 8.181 | 1657680 | 20.0 |
| 1-Propanol, 2-(... | 8.422 | 29.8 | ng | 2469920 | 2 | 8.181 | 1657680 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142641.D
Acq On : 06 Jun 2025 12:06
Operator : RC/JU
Sample : PB168259BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB168259BL

Quant Time: Jun 06 12:59:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

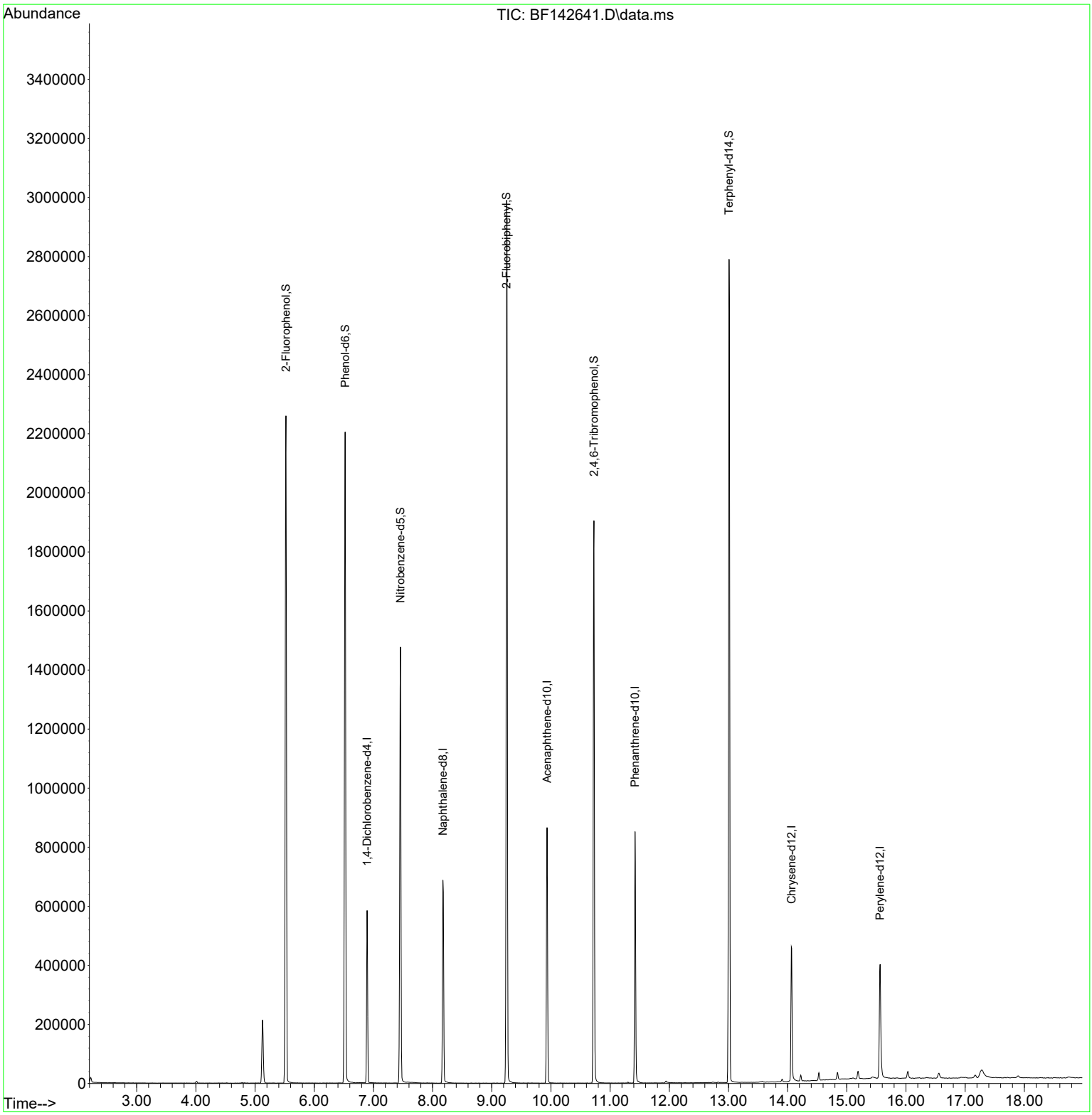
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.892 | 152 | 125991 | 20.000 | ng | -0.01 |
| 21) Naphthalene-d8 | 8.175 | 136 | 479451 | 20.000 | ng | -0.01 |
| 39) Acenaphthene-d10 | 9.933 | 164 | 262840 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.422 | 188 | 462327 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 14.068 | 240 | 248067 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.562 | 264 | 250839 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.522 | 112 | 927476 | 124.022 | ng | 0.00 |
| 7) Phenol-d6 | 6.522 | 99 | 1134159 | 125.989 | ng | -0.01 |
| 23) Nitrobenzene-d5 | 7.457 | 82 | 686957 | 78.129 | ng | -0.02 |
| 42) 2,4,6-Tribromophenol | 10.727 | 330 | 369629 | 126.707 | ng | -0.01 |
| 45) 2-Fluorobiphenyl | 9.251 | 172 | 1457548 | 74.411 | ng | -0.02 |
| 79) Terphenyl-d14 | 13.010 | 244 | 1432929 | 78.937 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

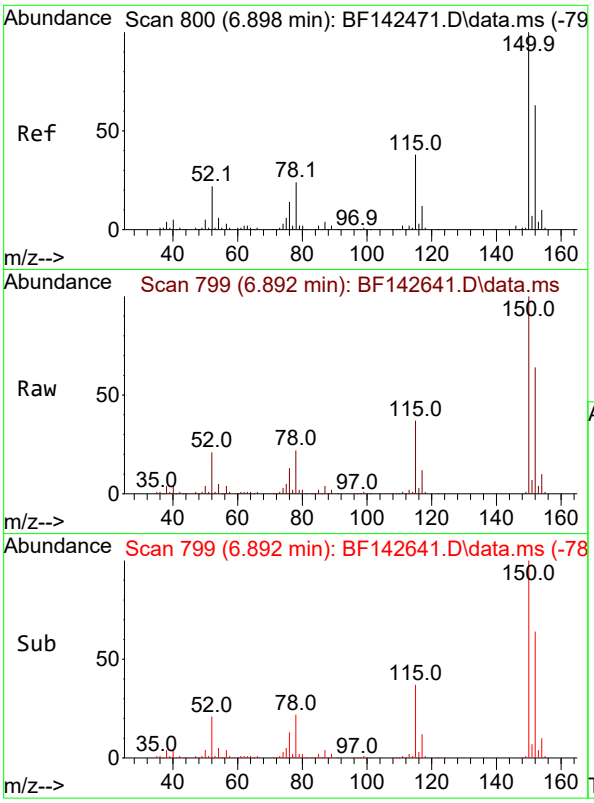
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142641.D
Acq On : 06 Jun 2025 12:06
Operator : RC/JU
Sample : PB168259BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB168259BL

Quant Time: Jun 06 12:59:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



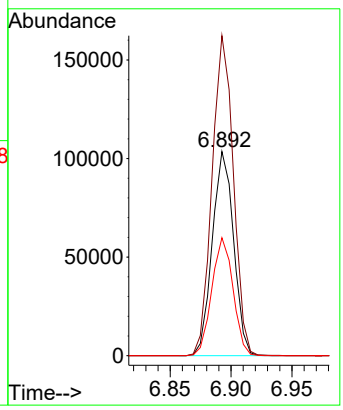


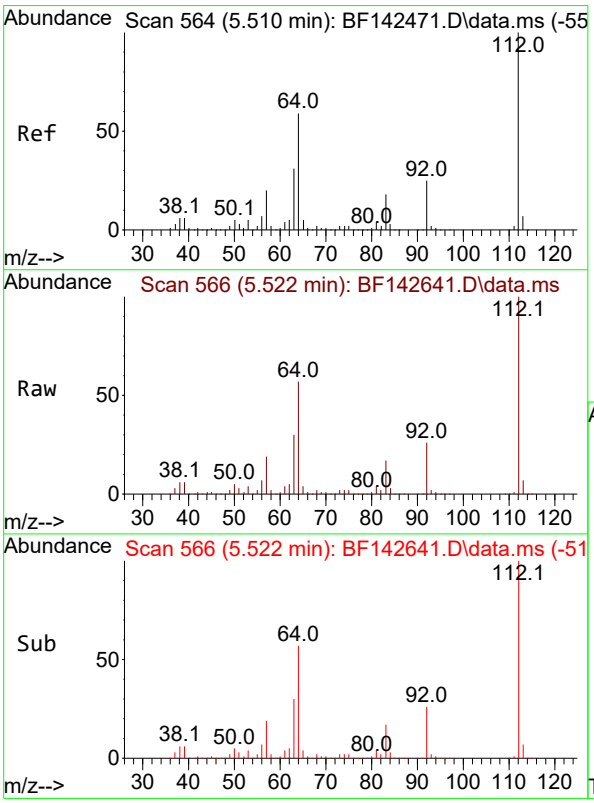

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142641.D
Acq: 06 Jun 2025 12:06

**Instrument :**
BNA_F
**ClientSampleId :**
PB168259BL

Tgt Ion:152 Resp: 125991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.7 | 128.2 | 192.4 |
| 115 | 57.8 | 48.3 | 72.5 |

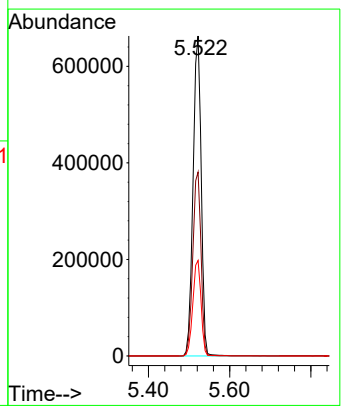


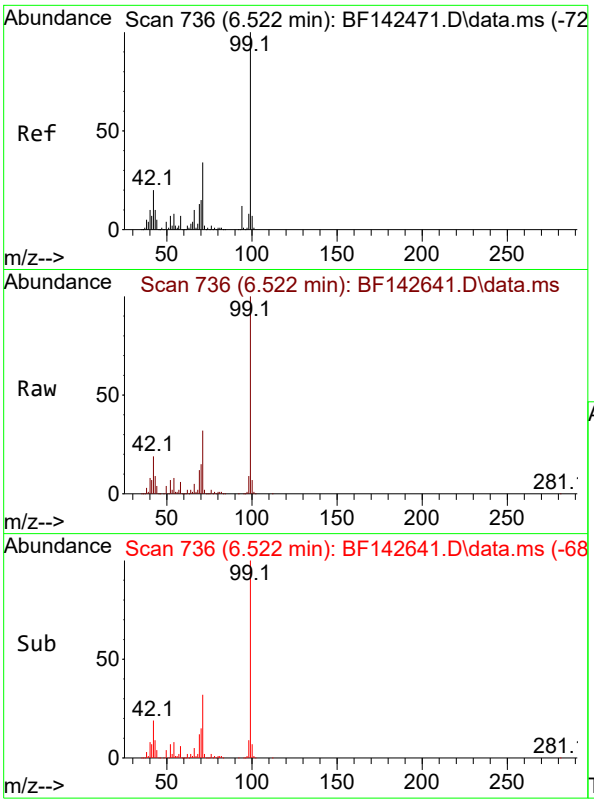




#5
2-Fluorophenol
Concen: 124.022 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142641.D
Acq: 06 Jun 2025 12:06

Tgt Ion:112 Resp: 927476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 57.4 | 47.5 | 71.3 |
| 63 | 29.8 | 24.9 | 37.3 |



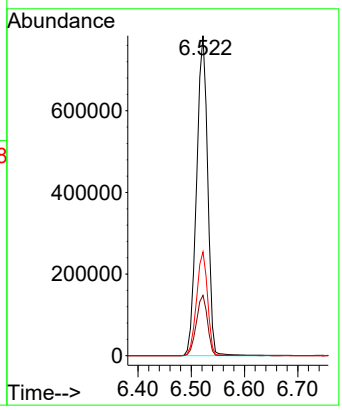


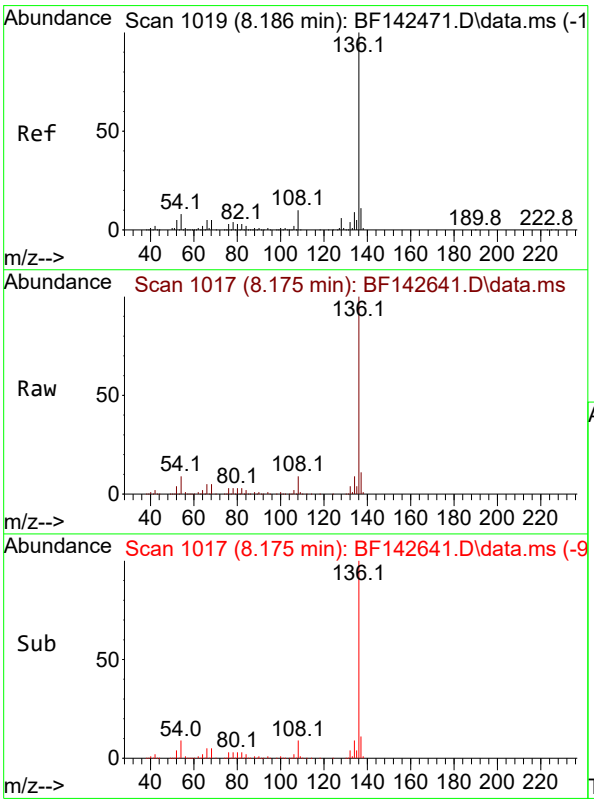

#7
Phenol-d6
Concen: 125.989 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142641.D
Acq: 06 Jun 2025 12:06

**Instrument :**
BNA_F
**ClientSampleId :**
PB168259BL

Tgt Ion: 99 Resp: 1134159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.9 | 16.2 | 24.2 |
| 71 | 32.5 | 27.3 | 40.9 |

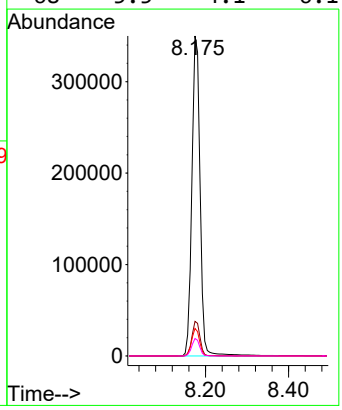


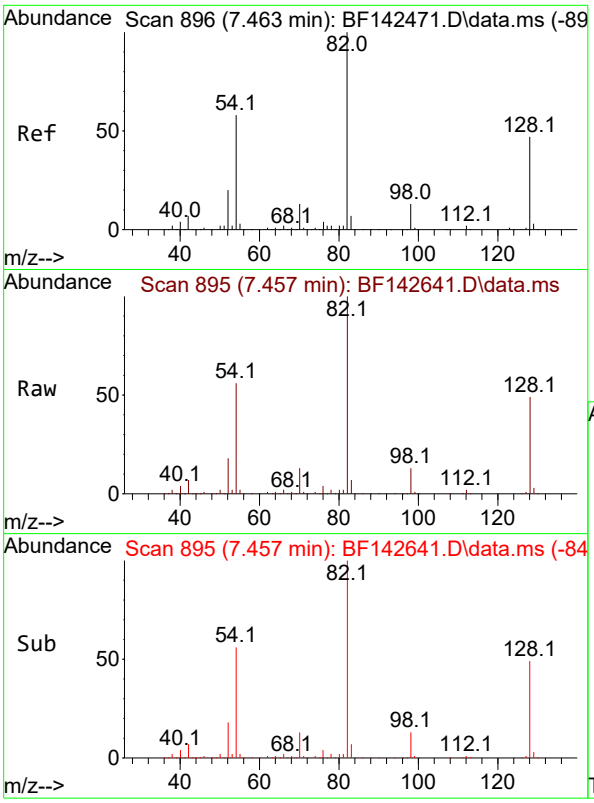




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1017
Delta R.T. -0.012 min
Lab File: BF142641.D
Acq: 06 Jun 2025 12:06

Tgt Ion:136 Resp: 479451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.8 | 8.6 | 13.0 |
| 54 | 8.6 | 6.6 | 10.0 |
| 68 | 5.5 | 4.1 | 6.1 |



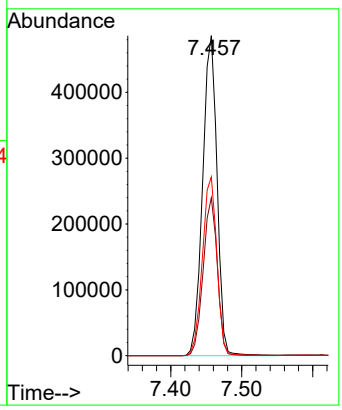


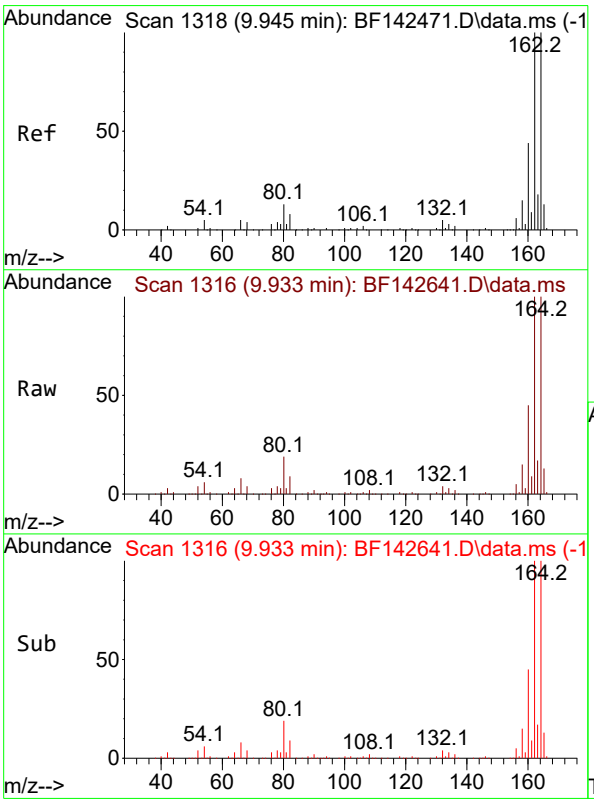

#23
Nitrobenzene-d5
Concen: 78.129 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142641.D
Acq: 06 Jun 2025 12:06

**Instrument :**
BNA_F
**ClientSampleId :**
PB168259BL

Tgt Ion: 82 Resp: 686957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 49.4 | 37.4 | 56.2 |
| 54 | 55.9 | 46.6 | 70.0 |

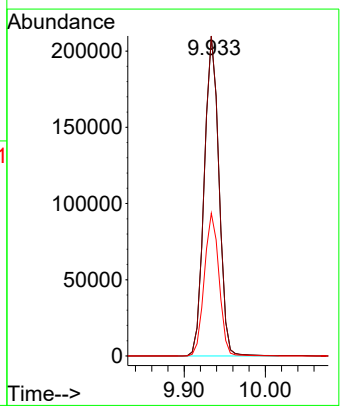


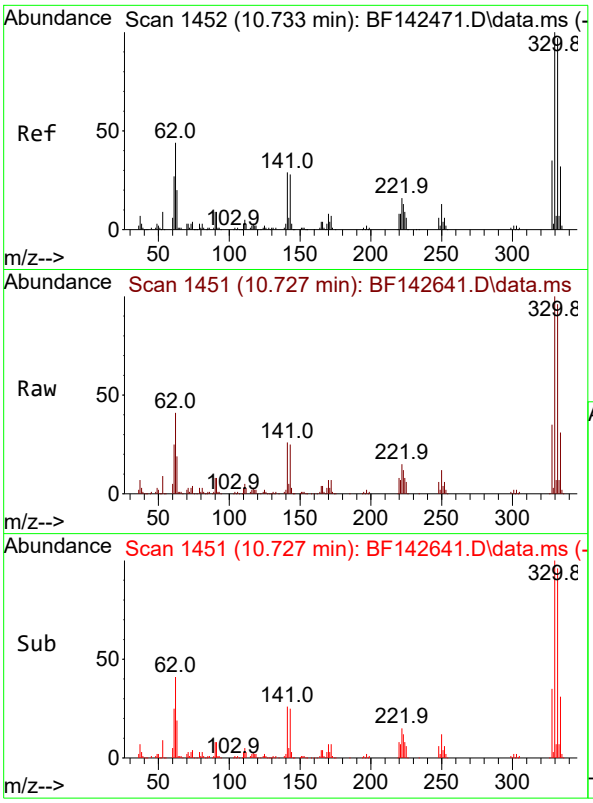




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142641.D
Acq: 06 Jun 2025 12:06

Tgt Ion:164 Resp: 262840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.1 | 80.2 | 120.4 |
| 160 | 44.7 | 35.6 | 53.4 |



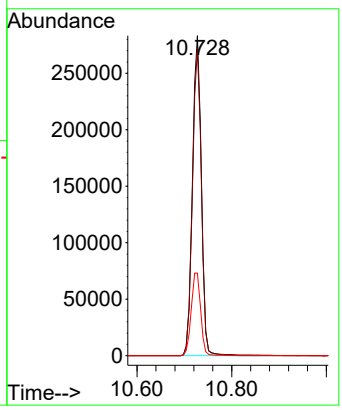


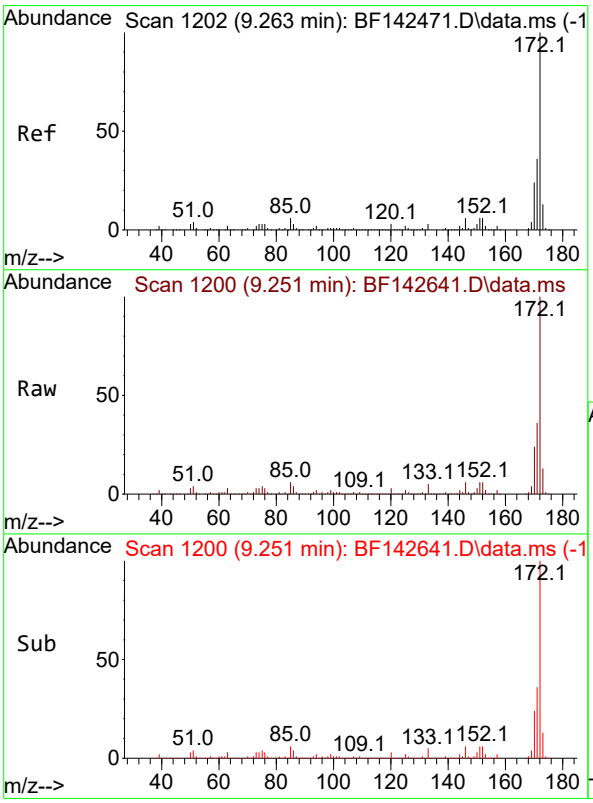

#42
2,4,6-Tribromophenol
Concen: 126.707 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142641.D
Acq: 06 Jun 2025 12:06

**Instrument :**
BNA_F
**ClientSampleId :**
PB168259BL

Tgt Ion:330 Resp: 369629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.7 | 77.6 | 116.4 |
| 141 | 27.4 | 24.6 | 36.8 |

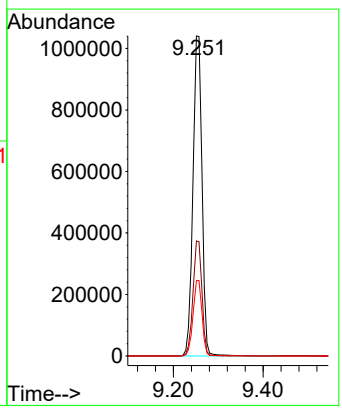


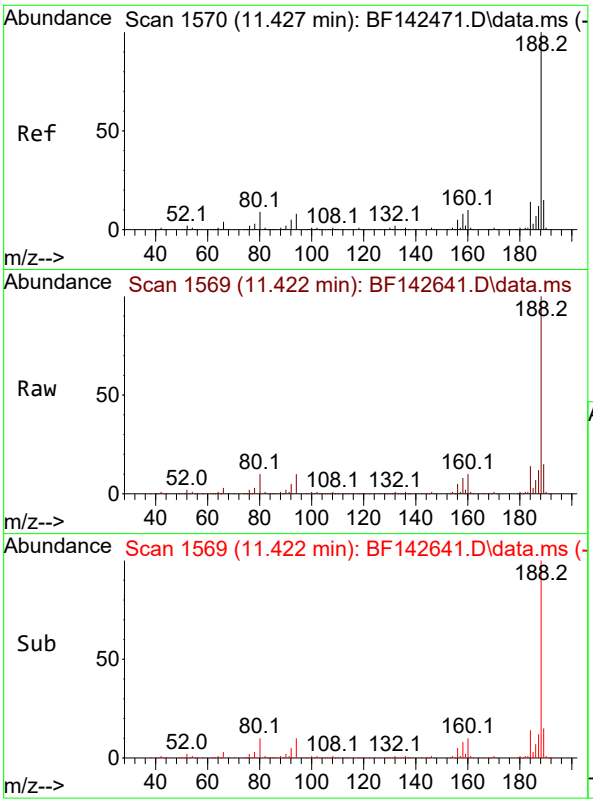




#45
2-Fluorobiphenyl
Concen: 74.411 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.018 min
Lab File: BF142641.D
Acq: 06 Jun 2025 12:06

Tgt Ion:172 Resp: 1457548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.9 | 28.6 | 42.8 |
| 170 | 23.6 | 18.9 | 28.3 |



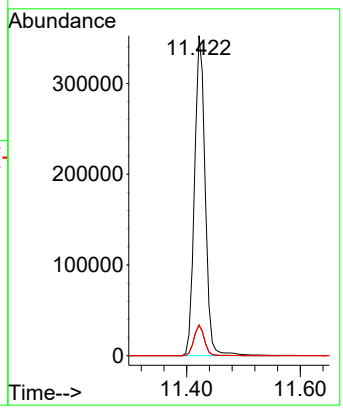


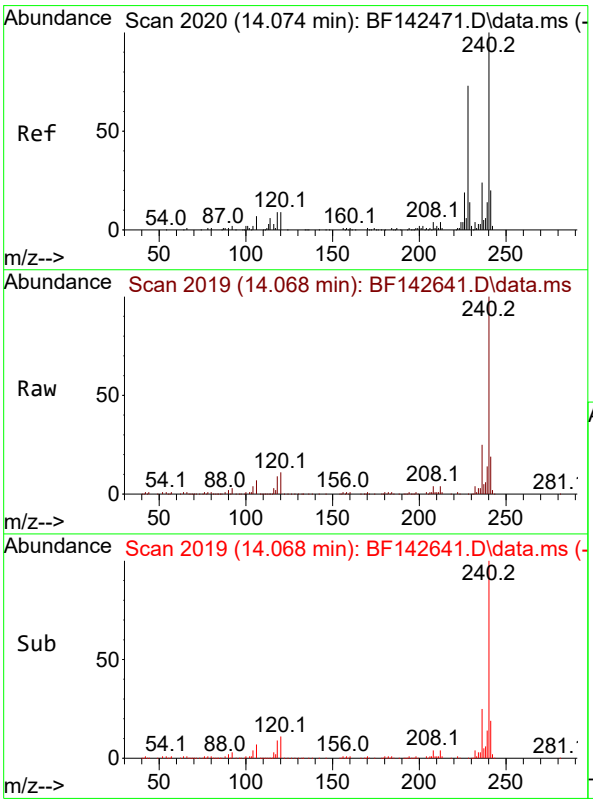

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142641.D
Acq: 06 Jun 2025 12:06

**Instrument :**
BNA_F
**ClientSampleId :**
PB168259BL

Tgt Ion:188 Resp: 462327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.5 | 6.6 | 10.0 |
| 80 | 9.6 | 7.4 | 11.0 |

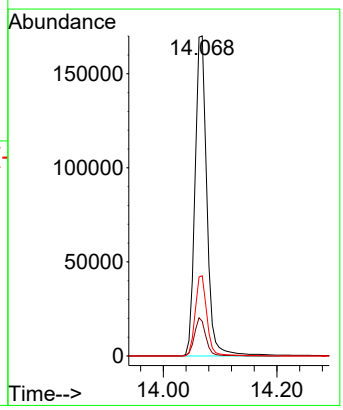


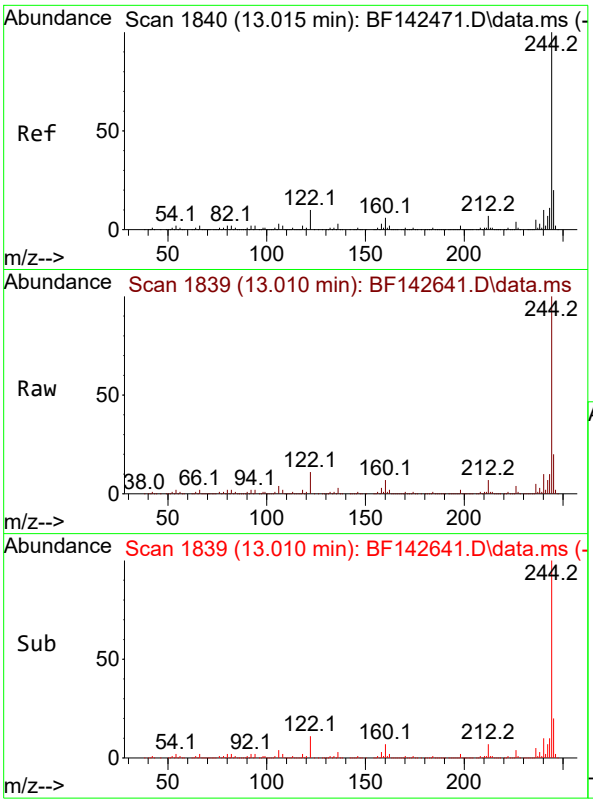




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142641.D
Acq: 06 Jun 2025 12:06

Tgt Ion:240 Resp: 248067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.8 | 7.5 | 11.3 |
| 236 | 25.0 | 19.6 | 29.4 |



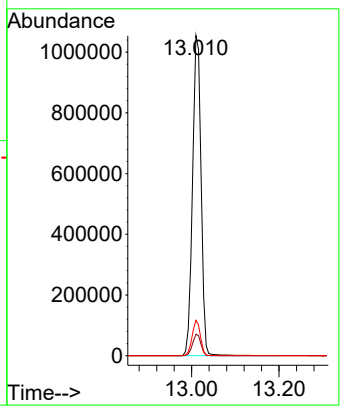


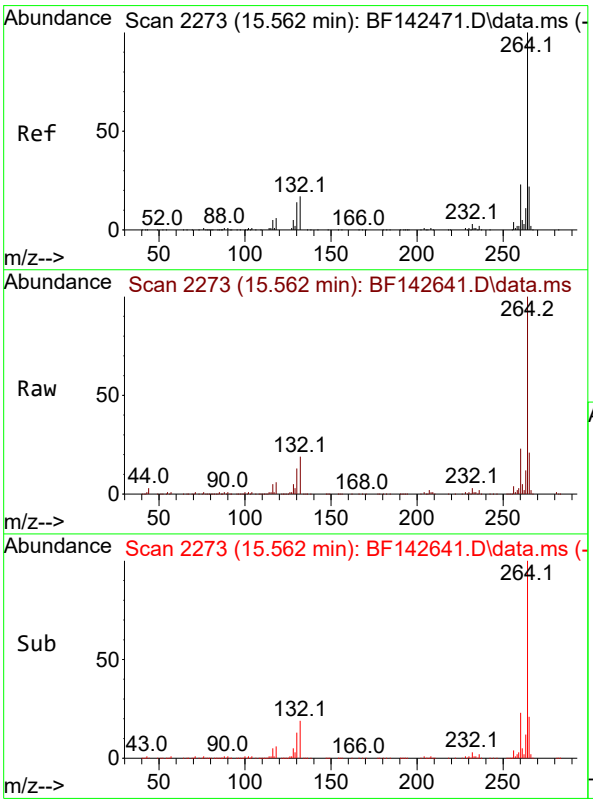

#79
Terphenyl-d14
Concen: 78.937 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142641.D
Acq: 06 Jun 2025 12:06

**Instrument :**
BNA_F
**ClientSampleId :**
PB168259BL

Tgt Ion:244 Resp: 1432929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.7 | 5.3 | 7.9 |
| 122 | 11.1 | 8.2 | 12.2 |

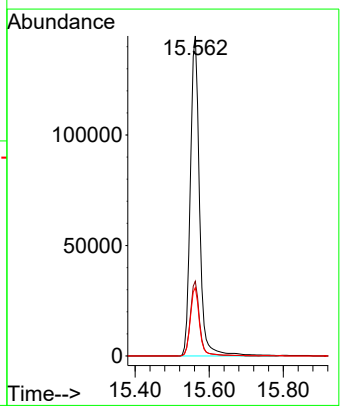



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142641.D
Acq: 06 Jun 2025 12:06

Tgt Ion:264 Resp: 250839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.4 | 18.6 | 28.0 |
| 265 | 21.3 | 17.7 | 26.5 |



Sample Results: **BF142641.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142641.D
Acq On : 06 Jun 2025 12:06
Operator : RC/JU
Sample : PB168259BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB168259BL

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142641.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.128 | 492 | 499 | 513 | rBV | 212762 | 356201 | 8.71% | 1.459% |
| 2 | 5.522 | 559 | 566 | 571 | rBV | 2259297 | 3155875 | 77.17% | 12.927% |
| 3 | 6.522 | 729 | 736 | 741 | rBV | 2204511 | 3165286 | 77.40% | 12.966% |
| 4 | 6.892 | 794 | 799 | 804 | rBV | 583393 | 707450 | 17.30% | 2.898% |
| 5 | 7.457 | 888 | 895 | 900 | rBV | 1476665 | 2070019 | 50.62% | 8.479% |
| 6 | 8.175 | 1011 | 1017 | 1025 | rBV | 687405 | 916115 | 22.40% | 3.753% |
| 7 | 9.251 | 1194 | 1200 | 1206 | rBV | 2989585 | 4089634 | 100.00% | 16.752% |
| 8 | 9.933 | 1310 | 1316 | 1328 | rBV | 865161 | 1079678 | 26.40% | 4.423% |
| 9 | 10.728 | 1445 | 1451 | 1470 | rBV | 1904440 | 2572453 | 62.90% | 10.538% |
| 10 | 11.422 | 1564 | 1569 | 1577 | rBV | 850886 | 1094893 | 26.77% | 4.485% |
| 11 | 13.010 | 1833 | 1839 | 1845 | rBV | 2788055 | 3724936 | 91.08% | 15.258% |
| 12 | 14.063 | 2013 | 2018 | 2035 | rVB | 453758 | 651967 | 15.94% | 2.671% |
| 13 | 15.562 | 2266 | 2273 | 2292 | rBV | 384811 | 685331 | 16.76% | 2.807% |
| 14 | 16.033 | 2347 | 2353 | 2364 | rVB | 23181 | 44562 | 1.09% | 0.183% |
| 15 | 17.280 | 2556 | 2565 | 2581 | rBV2 | 22524 | 97910 | 2.39% | 0.401% |

Sum of corrected areas: 24412310

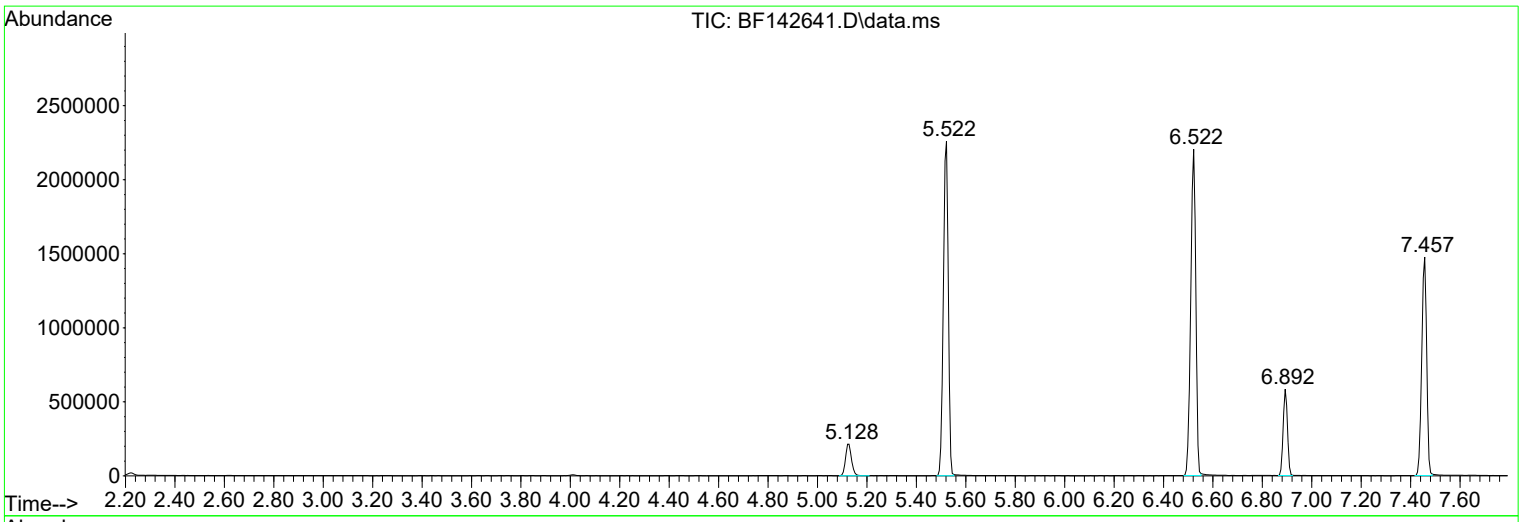
Sample Results: **BF142641.D**

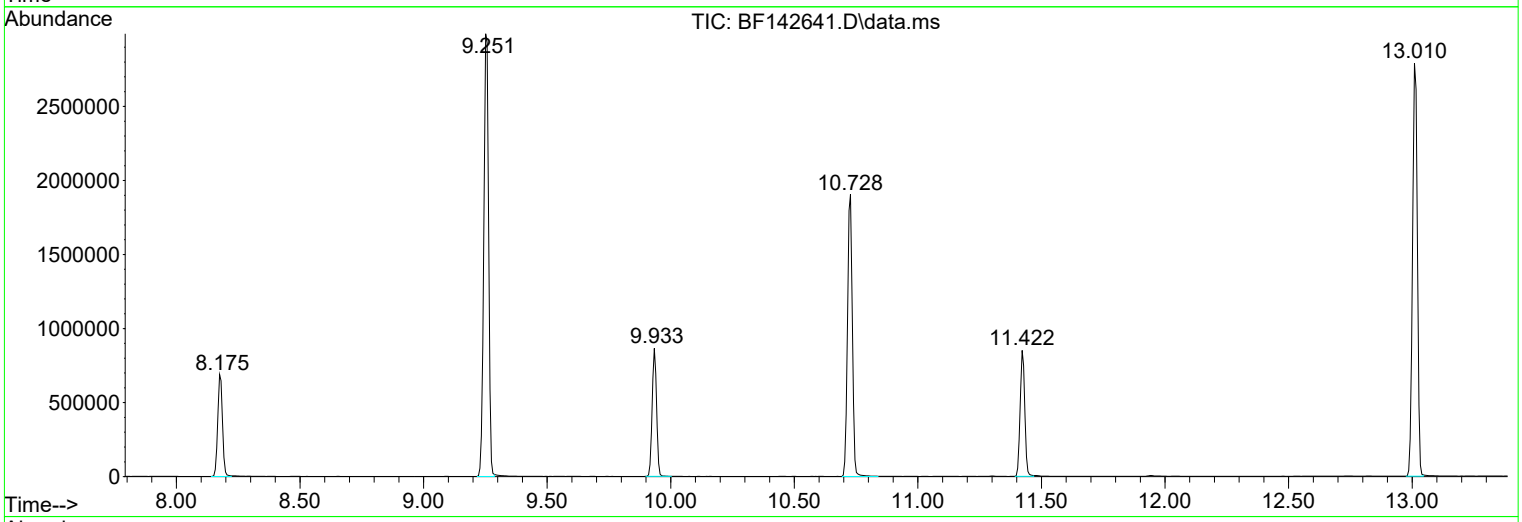
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142641.D
Acq On : 06 Jun 2025 12:06
Operator : RC/JU
Sample : PB168259BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

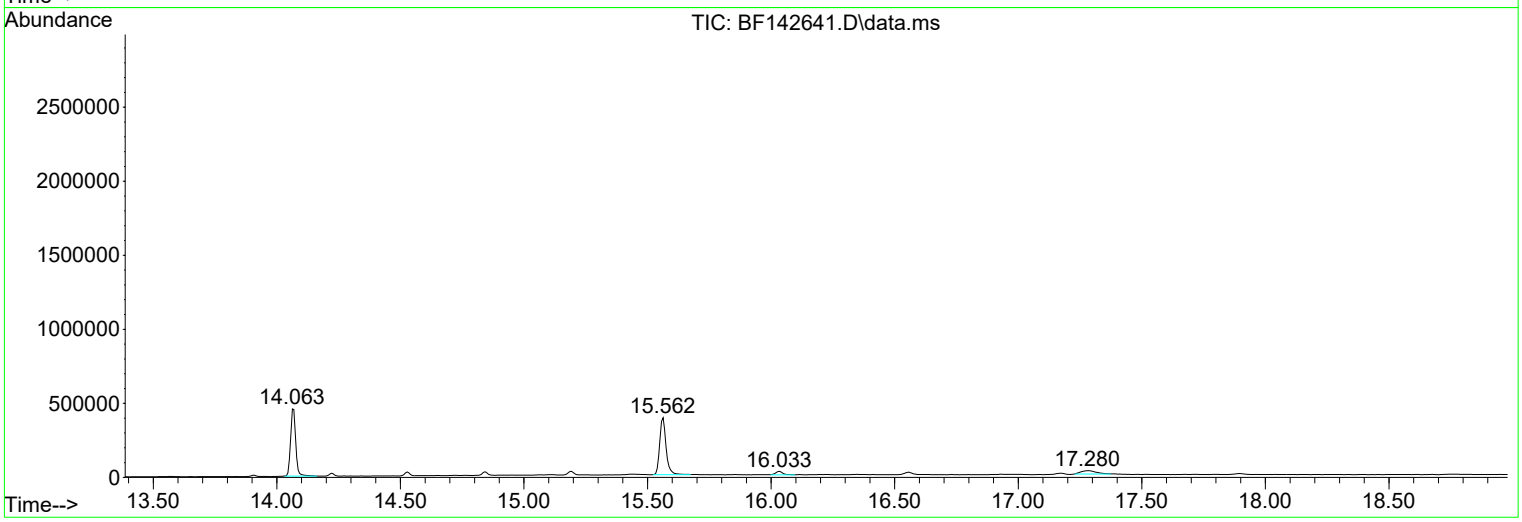
**Instrument :**
BNA_F
**ClientSampleId :**
PB168259BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF060625\
Data File : BF142641.D
Acq On : 06 Jun 2025 12:06
Operator : RC/JU
Sample : PB168259BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB168259BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

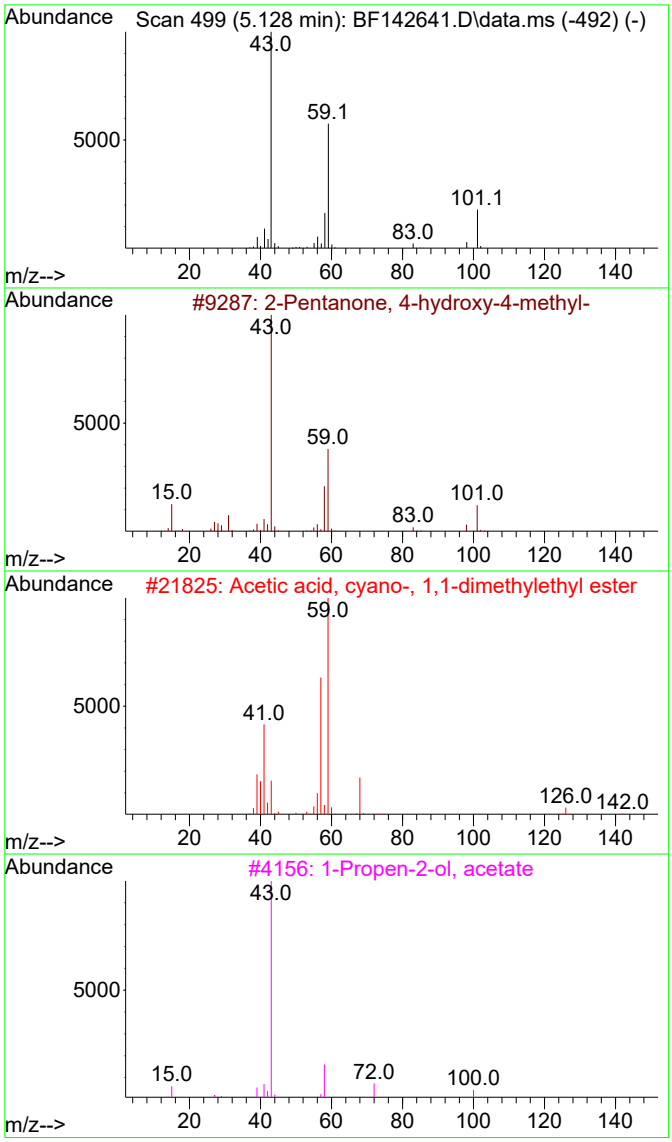
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

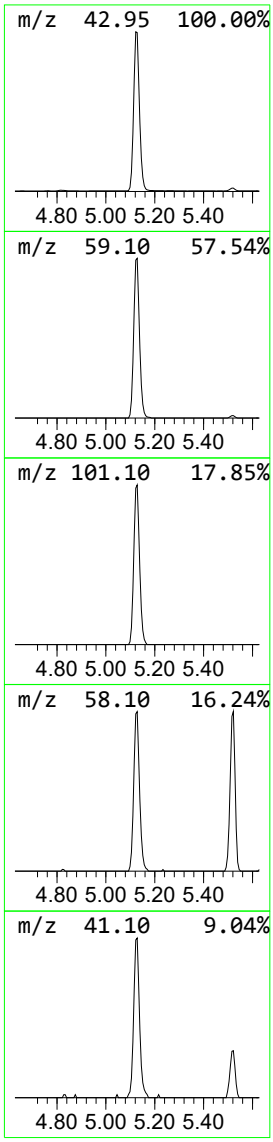
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.128 | 10.07 ng | 356201 | 1,4-Dichlorobenzene-d4 | 6.892 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 59 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25 |
| 3 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 12 |
| 4 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |
| 5 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 9 |



Sample Results: **BF142641.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142641.D
Acq On : 06 Jun 2025 12:06
Operator : RC/JU
Sample : PB168259BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB168259BL

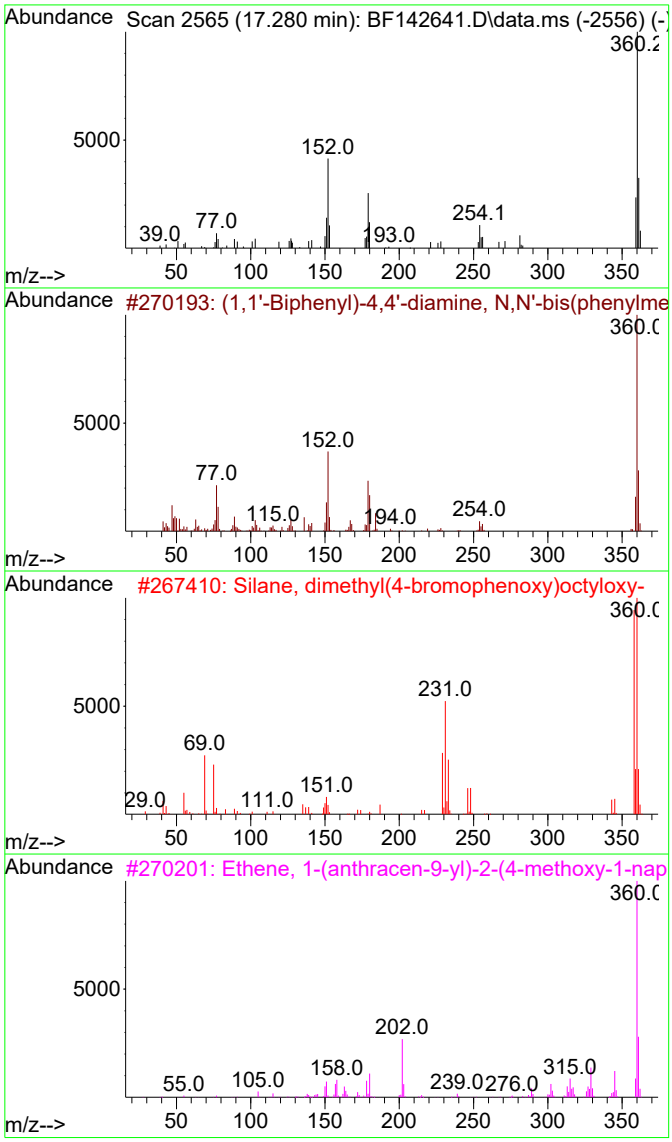
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

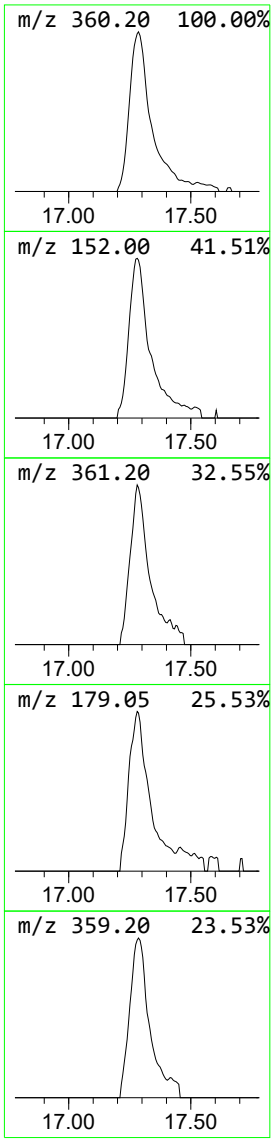
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.280 | 2.86 ng | 97910 | Perylene-d12 | 15.563 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (1,1'-Biphenyl)-4,4'-diamine, N,... | 360 | C26H20N2 | 006311-48-4 | 93 |
| 2 | Silane, dimethyl(4-bromophenoxy)... | 358 | C16H27BrO2Si | 1000347-11-2 | 47 |
| 3 | Ethene, 1-(anthracen-9-yl)-2-(4-... | 360 | C27H20O | 1000163-55-1 | 43 |
| 4 | N,N'-di-2-Naphthyl-p-phenylenedi... | 360 | C26H20N2 | 000093-46-9 | 43 |
| 5 | 1,10-Phenanthroline, 2,9-dimethy... | 360 | C26H20N2 | 004733-39-5 | 43 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142641.D
Acq On : 06 Jun 2025 12:06
Operator : RC/JU
Sample : PB168259BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB168259BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-... | 5.128 | 10.1 | ng | 356201 | 1 | 6.892 | 707450 | 20.0 |
| (1,1'-Biphenyl)... | 17.280 | 2.9 | ng | 97910 | 6 | 15.563 | 685331 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142626.D
Acq On : 05 Jun 2025 11:04
Operator : RC/JU
Sample : PB168285BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BL

Quant Time: Jun 05 11:35:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

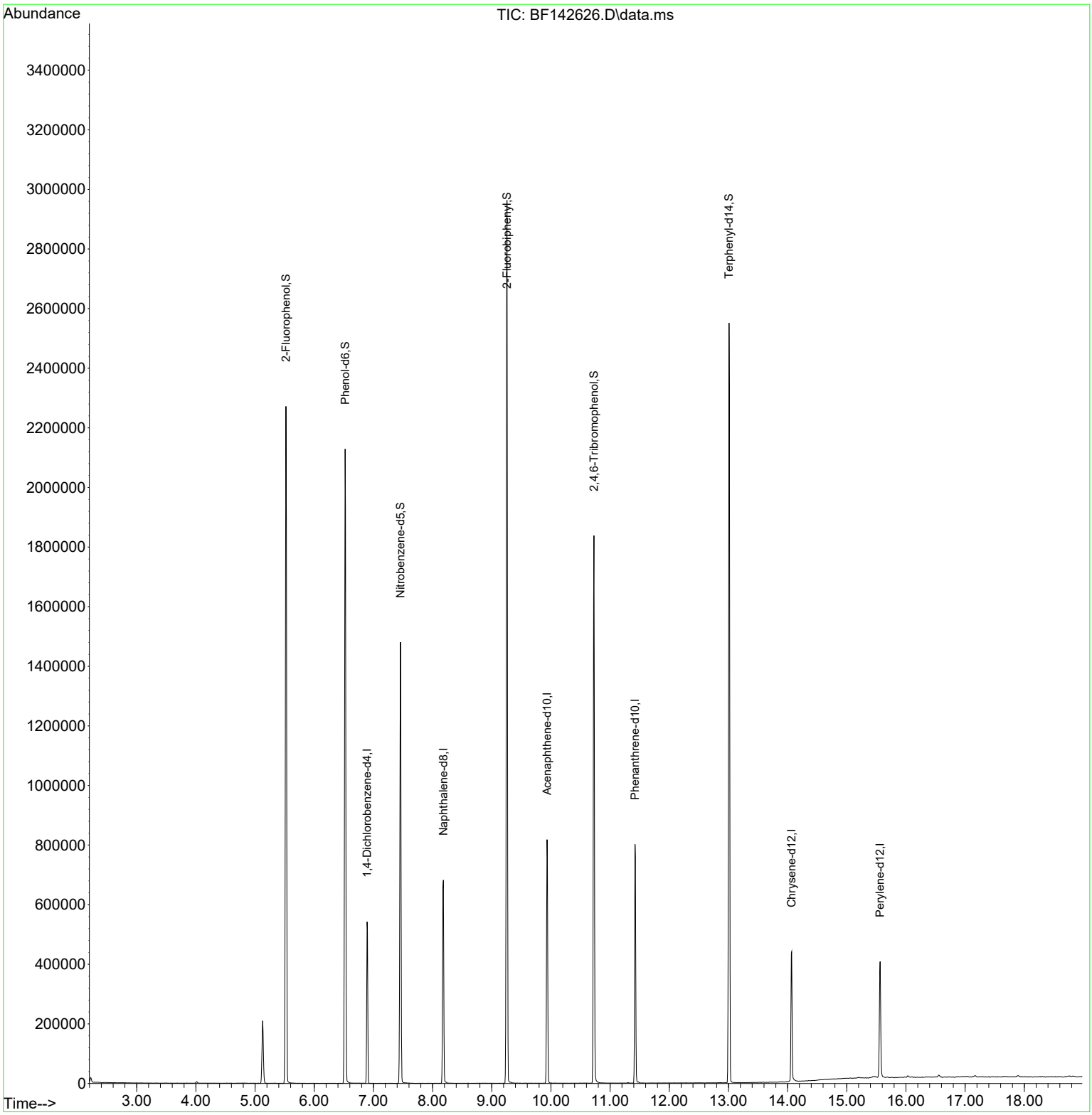
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.892 | 152 | 122182 | 20.000 | ng | -0.01 |
| 21) Naphthalene-d8 | 8.181 | 136 | 466755 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.933 | 164 | 253840 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.421 | 188 | 433273 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 14.068 | 240 | 225137 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.562 | 264 | 234045 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.522 | 112 | 907955 | 125.197 | ng | 0.00 |
| 7) Phenol-d6 | 6.522 | 99 | 1081644 | 123.901 | ng | -0.01 |
| 23) Nitrobenzene-d5 | 7.457 | 82 | 672397 | 78.553 | ng | -0.02 |
| 42) 2,4,6-Tribromophenol | 10.727 | 330 | 344627 | 122.325 | ng | -0.01 |
| 45) 2-Fluorobiphenyl | 9.257 | 172 | 1422364 | 75.190 | ng | -0.01 |
| 79) Terphenyl-d14 | 13.010 | 244 | 1286910 | 78.113 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

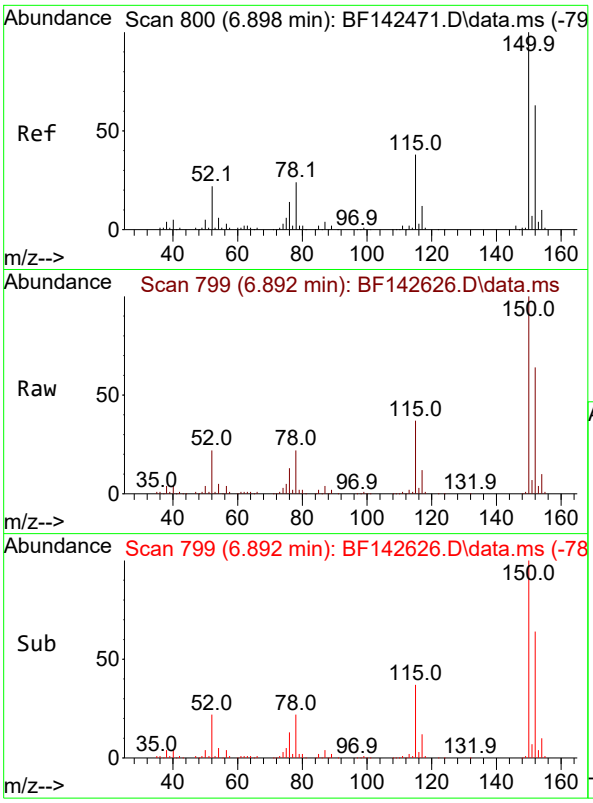
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142626.D
Acq On : 05 Jun 2025 11:04
Operator : RC/JU
Sample : PB168285BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BL

Quant Time: Jun 05 11:35:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



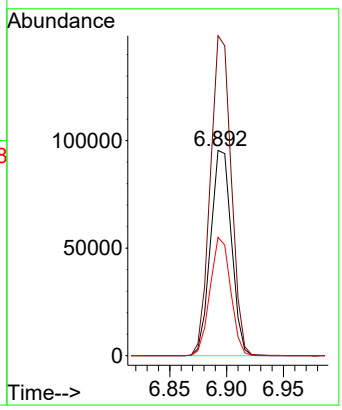


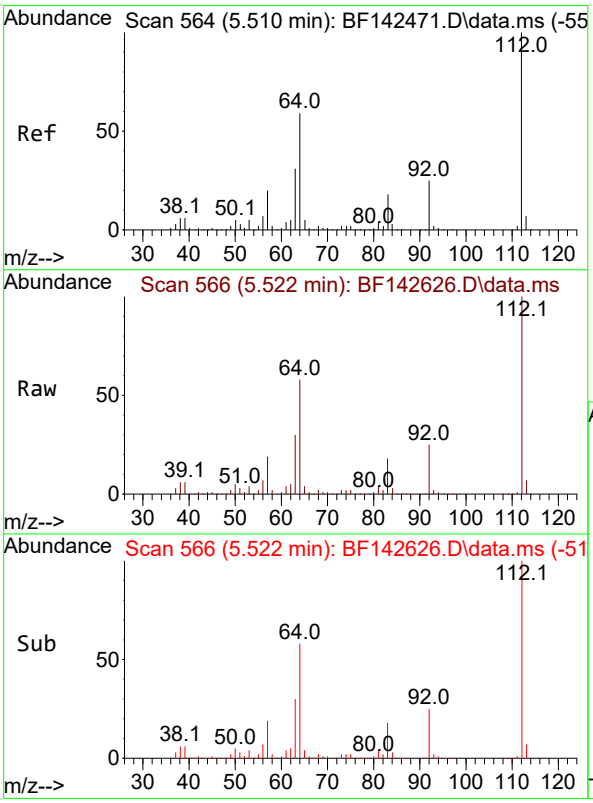

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BL

Tgt Ion:152 Resp: 122182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.9 | 128.2 | 192.4 |
| 115 | 57.7 | 48.3 | 72.5 |

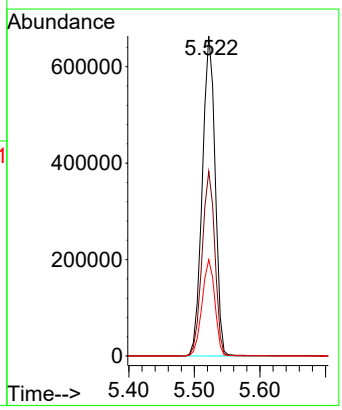


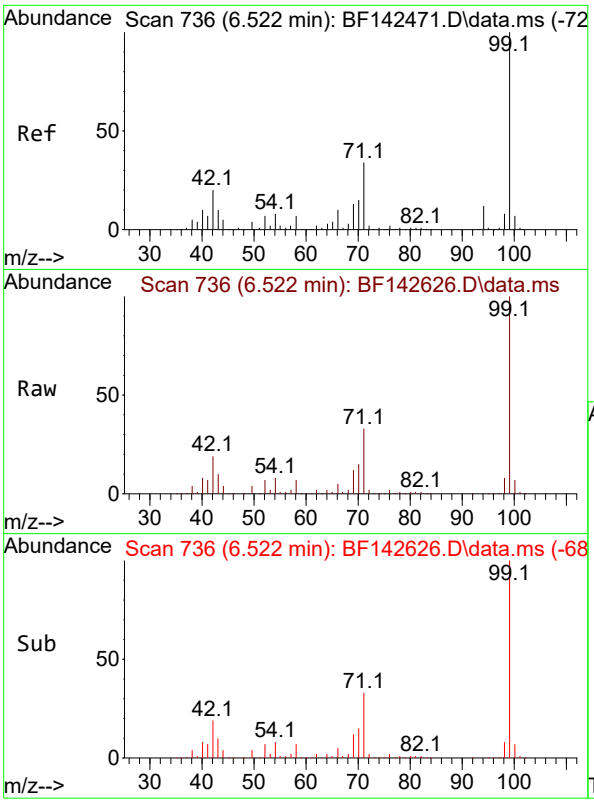




#5
2-Fluorophenol
Concen: 125.197 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Tgt Ion:112 Resp: 907955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 57.7 | 47.5 | 71.3 |
| 63 | 30.1 | 24.9 | 37.3 |



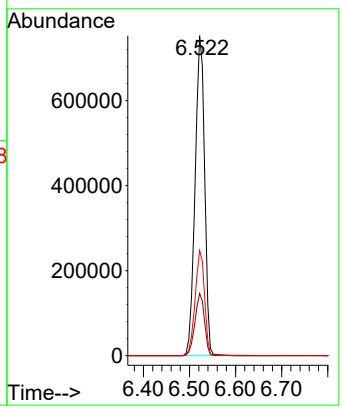


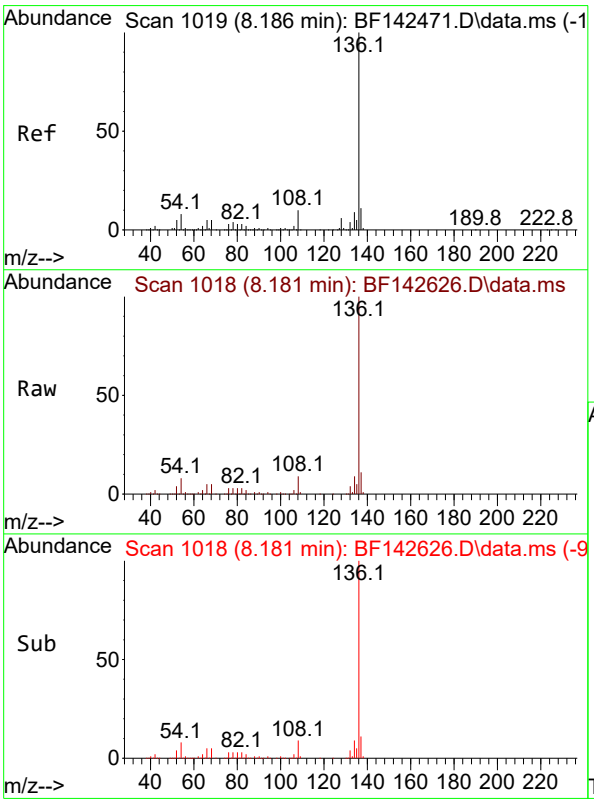

#7
Phenol-d6
Concen: 123.901 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BL

Tgt Ion: 99 Resp: 1081644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.4 | 16.2 | 24.2 |
| 71 | 32.9 | 27.3 | 40.9 |

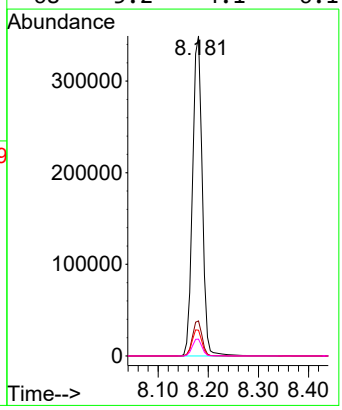


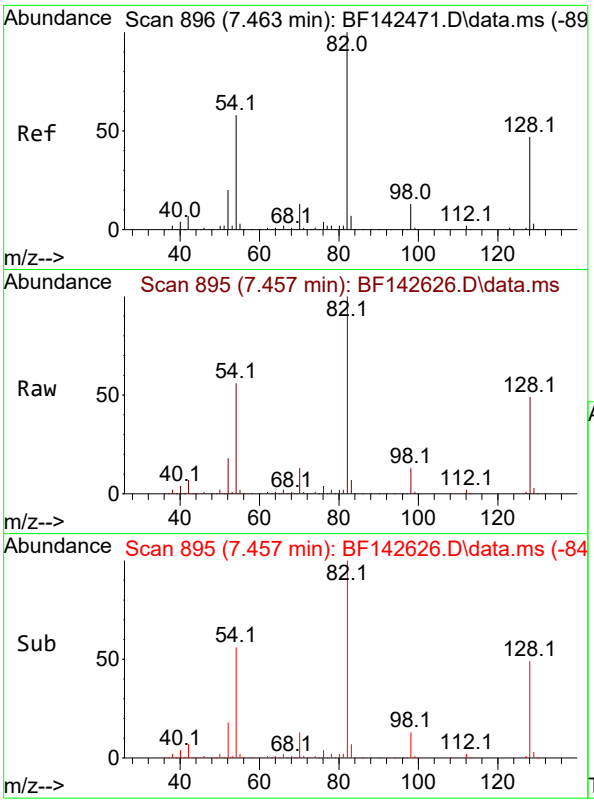




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Tgt Ion:136 Resp: 466755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.6 | 13.0 |
| 54 | 8.1 | 6.6 | 10.0 |
| 68 | 5.2 | 4.1 | 6.1 |



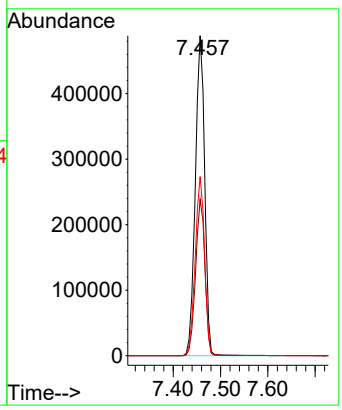


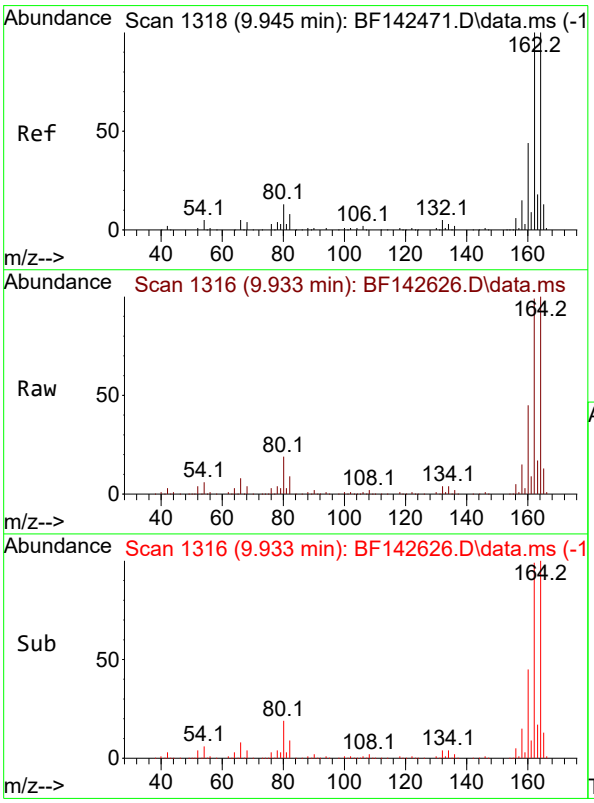

#23
Nitrobenzene-d5
Concen: 78.553 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BL

Tgt Ion: 82 Resp: 672397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.9 | 37.4 | 56.2 |
| 54 | 55.9 | 46.6 | 70.0 |

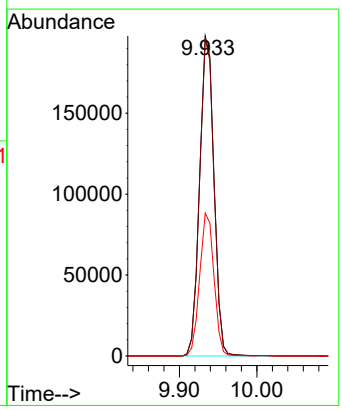


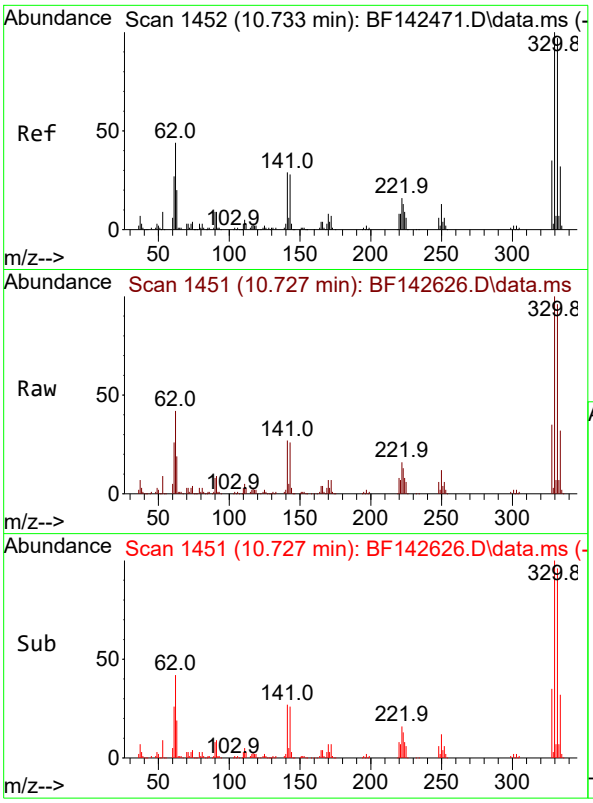




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Tgt Ion:164 Resp: 253840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.2 | 80.2 | 120.4 |
| 160 | 44.6 | 35.6 | 53.4 |



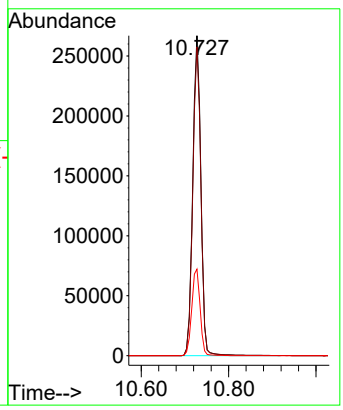


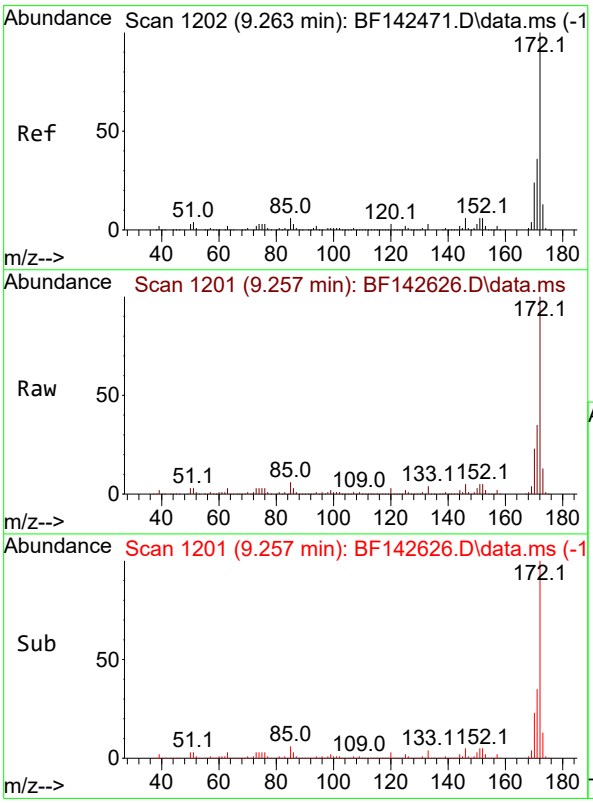

#42
2,4,6-Tribromophenol
Concen: 122.325 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BL

Tgt Ion:330 Resp: 344627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.1 | 77.6 | 116.4 |
| 141 | 27.9 | 24.6 | 36.8 |

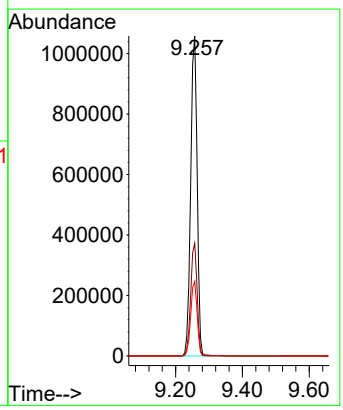


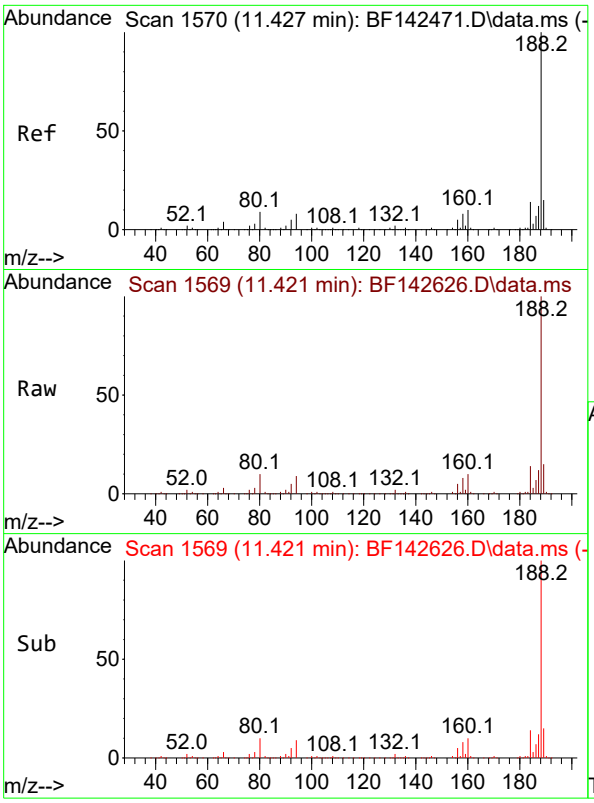




#45
2-Fluorobiphenyl
Concen: 75.190 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Tgt Ion:172 Resp: 1422364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.2 | 28.6 | 42.8 |
| 170 | 23.3 | 18.9 | 28.3 |



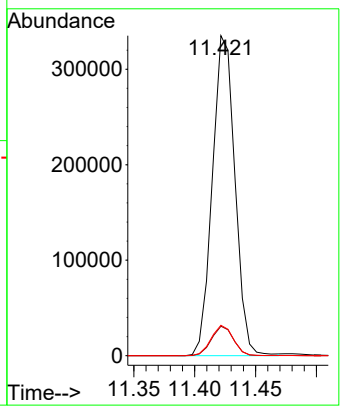


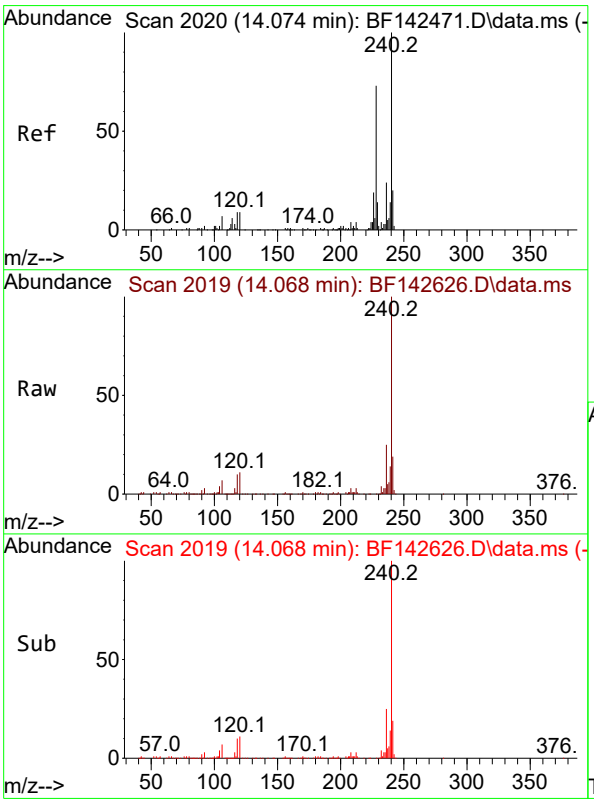

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.421 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BL

Tgt Ion:188 Resp: 433273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.2 | 6.6 | 10.0 |
| 80 | 9.5 | 7.4 | 11.0 |

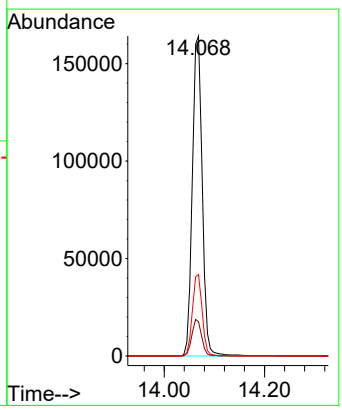


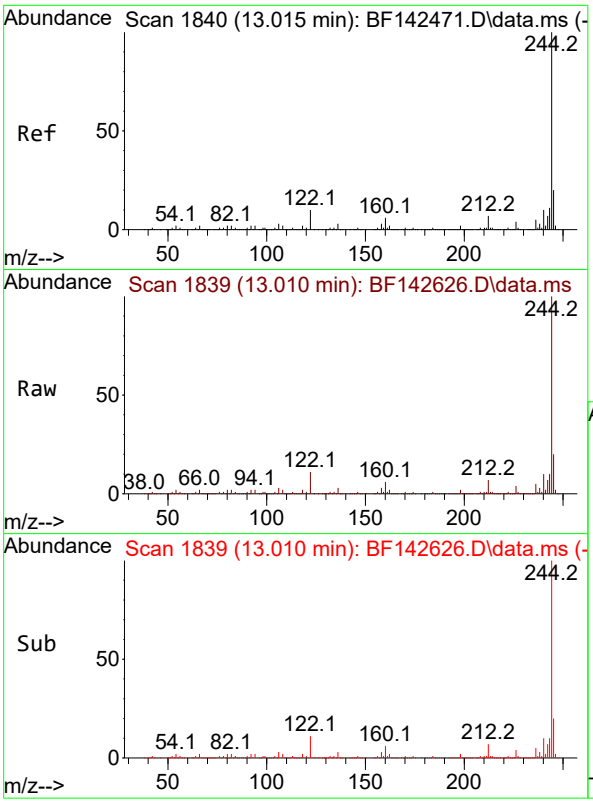




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Tgt Ion:240 Resp: 225137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.7 | 7.5 | 11.3 |
| 236 | 25.5 | 19.6 | 29.4 |



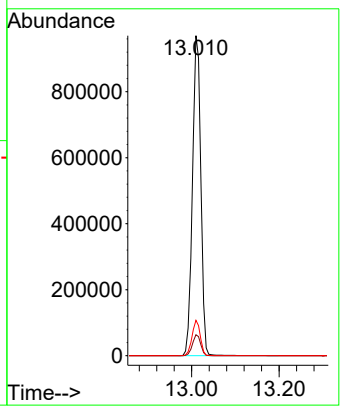


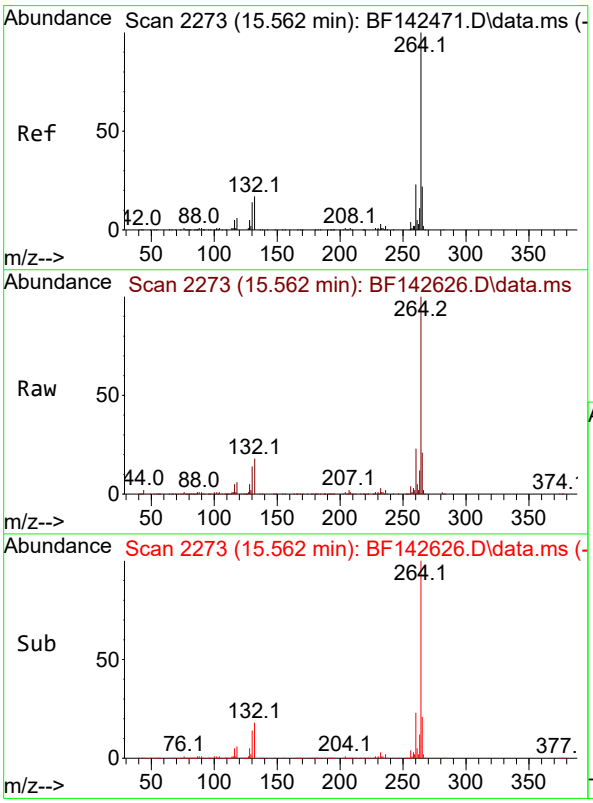

#79
Terphenyl-d14
Concen: 78.113 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BL

Tgt Ion:244 Resp: 1286910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.6 | 5.3 | 7.9 |
| 122 | 11.0 | 8.2 | 12.2 |

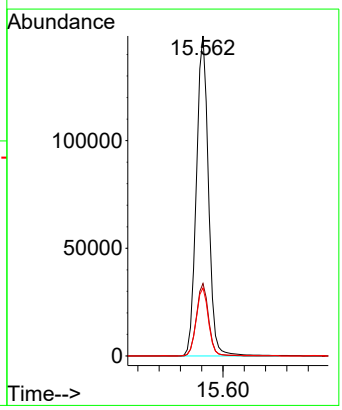



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Tgt Ion:264 Resp: 234045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 22.7 | 18.6 | 28.0 |
| 265 | 21.2 | 17.7 | 26.5 |



Sample Results: **BF142626.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142626.D
Acq On : 05 Jun 2025 11:04
Operator : RC/JU
Sample : PB168285BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BL

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142626.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.128 | 492 | 499 | 509 | rBV | 209595 | 338476 | 8.53% | 1.465% |
| 2 | 5.522 | 559 | 566 | 571 | rBV | 2271570 | 3086845 | 77.83% | 13.358% |
| 3 | 6.522 | 729 | 736 | 741 | rBV | 2128452 | 3043429 | 76.74% | 13.170% |
| 4 | 6.892 | 794 | 799 | 805 | rBV | 541774 | 681009 | 17.17% | 2.947% |
| 5 | 7.457 | 888 | 895 | 900 | rBV | 1480052 | 2025064 | 51.06% | 8.764% |
| 6 | 8.181 | 1012 | 1018 | 1033 | rBV | 681820 | 907366 | 22.88% | 3.927% |
| 7 | 9.257 | 1194 | 1201 | 1206 | rBV | 2963129 | 3965900 | 100.00% | 17.163% |
| 8 | 9.933 | 1311 | 1316 | 1327 | rBV | 817428 | 1042216 | 26.28% | 4.510% |
| 9 | 10.727 | 1445 | 1451 | 1471 | rBV | 1837266 | 2414649 | 60.89% | 10.449% |
| 10 | 11.421 | 1564 | 1569 | 1577 | rBV | 800851 | 1030686 | 25.99% | 4.460% |
| 11 | 13.010 | 1833 | 1839 | 1844 | rBV | 2549333 | 3343061 | 84.30% | 14.467% |
| 12 | 14.068 | 2011 | 2019 | 2033 | rBV | 434578 | 611688 | 15.42% | 2.647% |
| 13 | 15.562 | 2267 | 2273 | 2288 | rVB | 389081 | 617537 | 15.57% | 2.672% |

Sum of corrected areas: 23107926

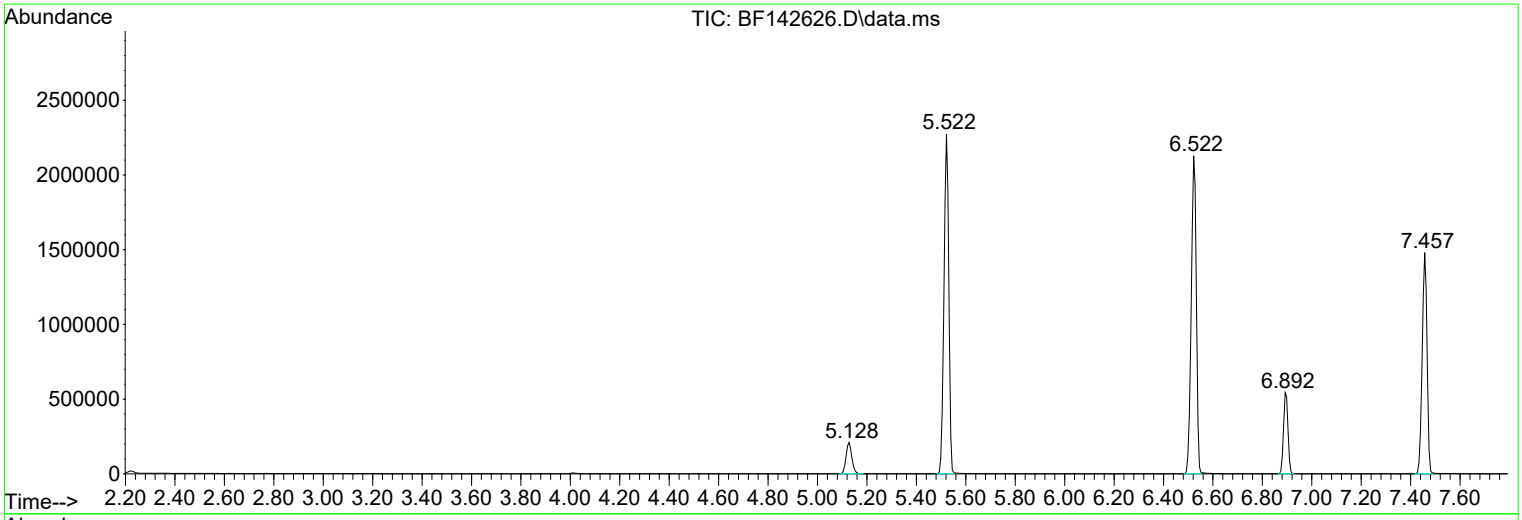
Sample Results: **BF142626.D**

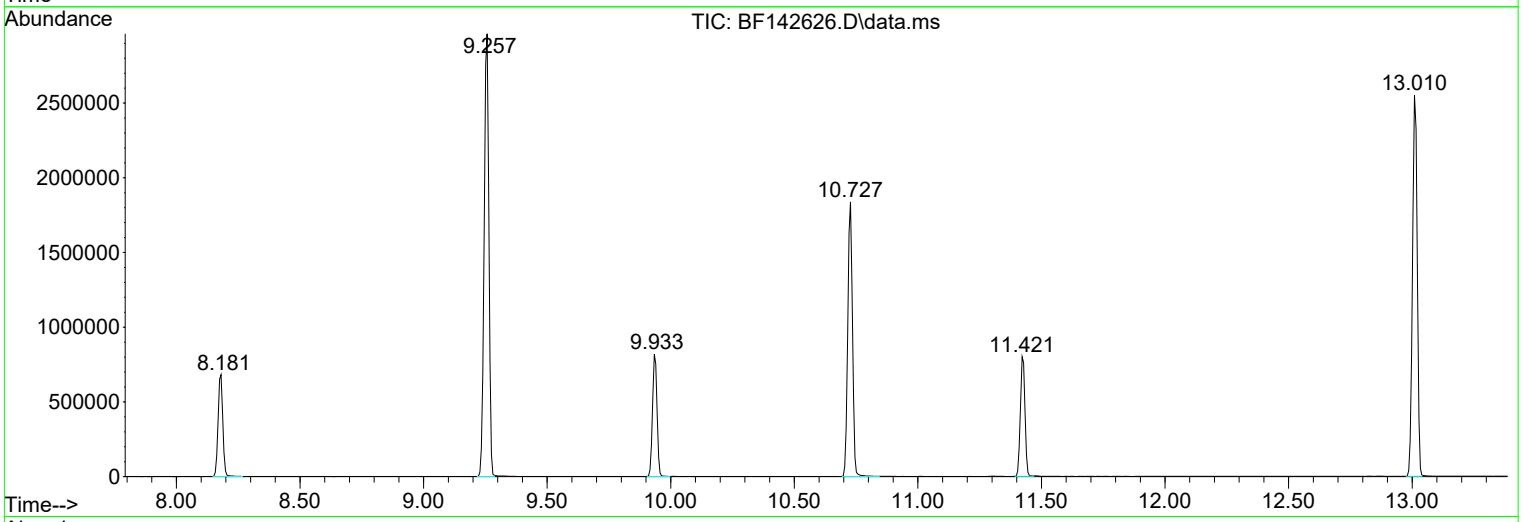
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142626.D
Acq On : 05 Jun 2025 11:04
Operator : RC/JU
Sample : PB168285BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

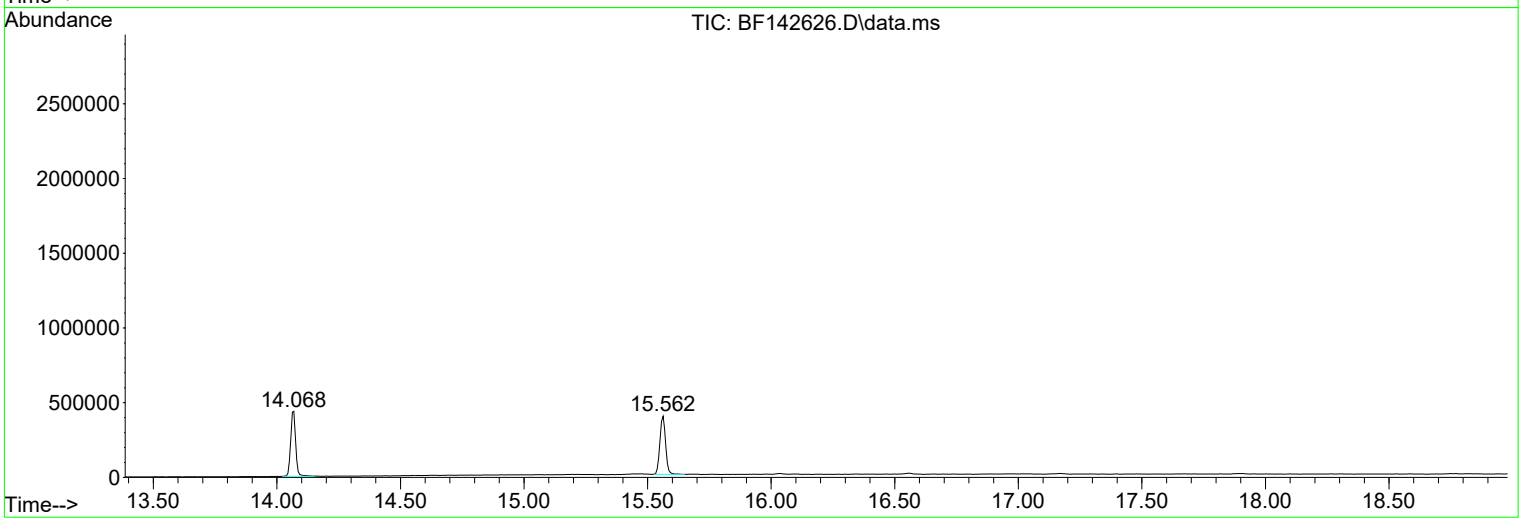
**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF060525\
Data File : BF142626.D
Acq On : 05 Jun 2025 11:04
Operator : RC/JU
Sample : PB168285BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BL

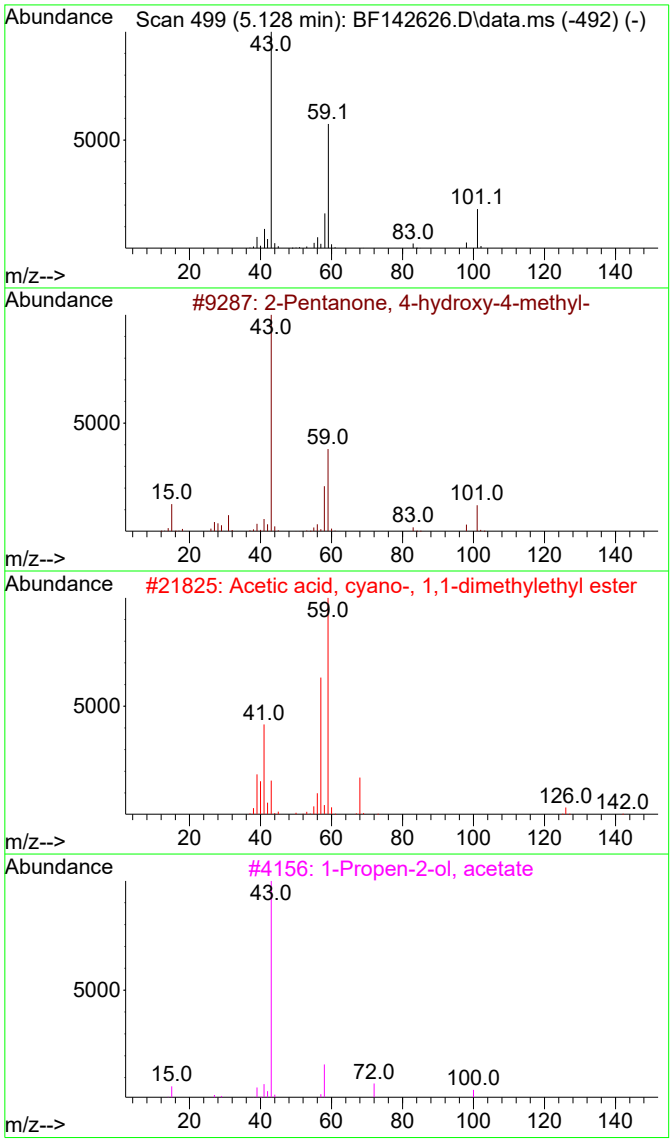
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

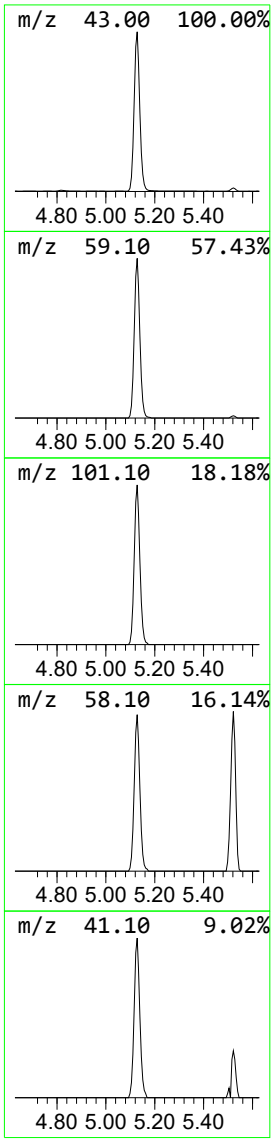
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.128 | 9.94 ng | 338476 | 1,4-Dichlorobenzene-d4 | 6.892 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 59 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25 |
| 3 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 12 |
| 4 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 5 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |



Sample Results: **BF142626.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142626.D
Acq On : 05 Jun 2025 11:04
Operator : RC/JU
Sample : PB168285BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-... | 5.128 | 9.9 | ng | 338476 | 1 | 6.892 | 681009 | 20.0 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061225\
Data File : BF142750.D
Acq On : 12 Jun 2025 11:25
Operator : RC/JU
Sample : PB168259BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB168259BS

Quant Time: Jun 12 11:54:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.893 | 152 | 68728 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.175 | 136 | 259756 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.934 | 164 | 133412 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.422 | 188 | 196055 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.069 | 240 | 125134 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.563 | 264 | 151859 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.522 | 112 | 543894 | 134.782 | ng | 0.02 |
| 7) Phenol-d6 | 6.522 | 99 | 634635 | 133.635 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.457 | 82 | 403381 | 84.988 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.728 | 330 | 183453 | 125.466 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.251 | 172 | 857757 | 85.418 | ng | 0.00 |
| 79) Terphenyl-d14 | 13.010 | 244 | 660636 | 72.510 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.746 | 88 | 62682 | 39.250 | ng | 99 |
| 3) Pyridine | 3.505 | 79 | 174463 | 43.569 | ng | 99 |
| 4) n-Nitrosodimethylamine | 3.457 | 42 | 100333 | 48.972 | ng | 98 |
| 6) Aniline | 6.557 | 93 | 235784 | 37.095 | ng | 98 |
| 8) 2-Chlorophenol | 6.675 | 128 | 213613 | 48.439 | ng | 99 |
| 9) Benzaldehyde | 6.440 | 77 | 101092 | 34.374 | ng | 99 |
| 10) Phenol | 6.540 | 94 | 246020 | 46.606 | ng | 94 |
| 11) bis(2-Chloroethyl)ether | 6.628 | 93 | 187665 | 47.596 | ng | 100 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 233376 | 46.372 | ng | 98 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 237027 | 46.602 | ng | 100 |
| 14) 1,2-Dichlorobenzene | 7.063 | 146 | 227881 | 46.741 | ng | 99 |
| 15) Benzyl Alcohol | 7.034 | 79 | 170503 | 47.501 | ng | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 288917 | 46.541 | ng | 94 |
| 17) 2-Methylphenol | 7.145 | 107 | 160140 | 47.369 | ng | 99 |
| 18) Hexachloroethane | 7.404 | 117 | 83239 | 45.667 | ng | 98 |
| 19) n-Nitroso-di-n-propyla... | 7.304 | 70 | 137535 | 45.491 | ng | 99 |
| 20) 3+4-Methylphenols | 7.298 | 107 | 198576 | 46.591 | ng | 96 |
| 22) Acetophenone | 7.304 | 105 | 277292 | 47.990 | ng | 99 |
| 24) Nitrobenzene | 7.475 | 77 | 203898 | 48.403 | ng | 99 |
| 25) Isophorone | 7.716 | 82 | 367891 | 45.779 | ng | 99 |
| 26) 2-Nitrophenol | 7.792 | 139 | 114017 | 48.498 | ng | 100 |
| 27) 2,4-Dimethylphenol | 7.828 | 122 | 188342 | 47.054 | ng | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.922 | 93 | 230340 | 46.166 | ng | 100 |
| 29) 2,4-Dichlorophenol | 8.034 | 162 | 174469 | 47.231 | ng | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.116 | 180 | 197830 | 48.466 | ng | 99 |
| 31) Naphthalene | 8.198 | 128 | 610212 | 47.500 | ng | 100 |
| 32) Benzoic acid | 7.945 | 122 | 102917 | 45.656 | ng | 99 |
| 33) 4-Chloroaniline | 8.245 | 127 | 108122 | 20.962 | ng | 99 |
| 34) Hexachlorobutadiene | 8.316 | 225 | 123159 | 47.349 | ng | 99 |
| 35) Caprolactam | 8.616 | 113 | 45459 | 45.590 | ng | 99 |
| 36) 4-Chloro-3-methylphenol | 8.728 | 107 | 174031 | 45.309 | ng | 98 |
| 37) 2-Methylnaphthalene | 8.887 | 142 | 378269 | 46.521 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.987 | 142 | 388533 | 46.125 | ng | 98 |
| 40) 1,2,4,5-Tetrachloroben... | 9.057 | 216 | 193655 | 50.153 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 9.045 | 237 | 249640 | 100.731 | ng | 99 |
| 43) 2,4,6-Trichlorophenol | 9.169 | 196 | 122429 | 48.981 | ng | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061225\
Data File : BF142750.D
Acq On : 12 Jun 2025 11:25
Operator : RC/JU
Sample : PB168259BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB168259BS

Quant Time: Jun 12 11:54:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

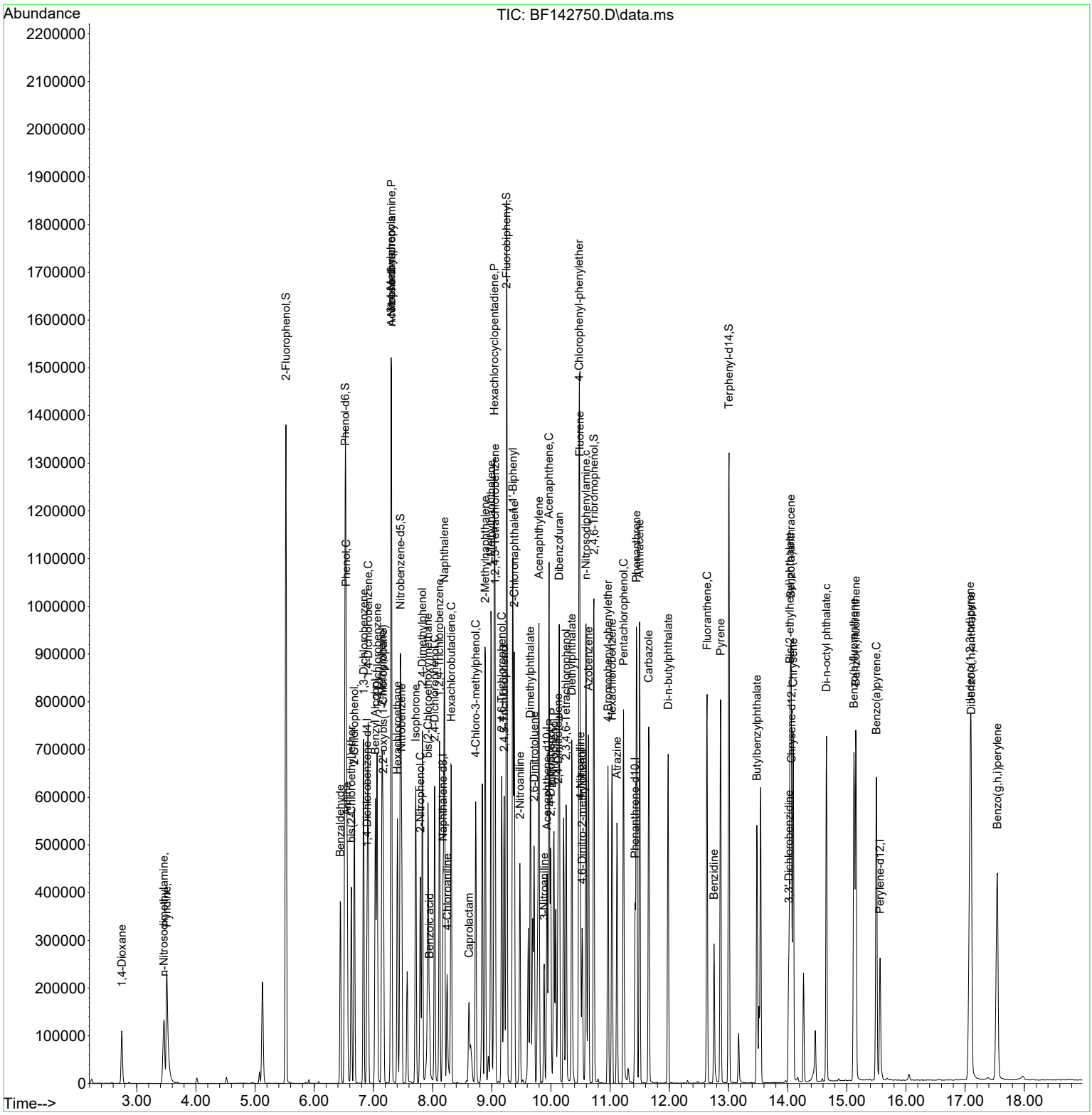
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.210 | 196 | 129417 | 47.938 | ng | 99 |
| 46) 1,1'-Biphenyl | 9.357 | 154 | 515786 | 49.788 | ng | 99 |
| 47) 2-Chloronaphthalene | 9.381 | 162 | 377304 | 49.436 | ng | 99 |
| 48) 2-Nitroaniline | 9.475 | 65 | 104883 | 48.317 | ng | 99 |
| 49) Acenaphthylene | 9.798 | 152 | 617677 | 47.998 | ng | 100 |
| 50) Dimethylphthalate | 9.651 | 163 | 416010 | 46.695 | ng | 99 |
| 51) 2,6-Dinitrotoluene | 9.716 | 165 | 90885 | 47.201 | ng | 94 |
| 52) Acenaphthene | 9.969 | 154 | 407086 | 51.020 | ng | 100 |
| 53) 3-Nitroaniline | 9.886 | 138 | 57256 | 27.416 | ng | 100 |
| 54) 2,4-Dinitrophenol | 9.998 | 184 | 101087 | 95.842 | ng | 89 |
| 55) Dibenzofuran | 10.139 | 168 | 533697 | 46.972 | ng | 99 |
| 56) 4-Nitrophenol | 10.051 | 139 | 128104 | 90.440 | ng | 98 |
| 57) 2,4-Dinitrotoluene | 10.122 | 165 | 119582 | 46.972 | ng | 99 |
| 58) Fluorene | 10.486 | 166 | 408780 | 45.560 | ng | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.257 | 232 | 100716 | 44.344 | ng | 97 |
| 60) Diethylphthalate | 10.351 | 149 | 394552 | 44.663 | ng | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.475 | 204 | 201585 | 46.005 | ng | 99 |
| 62) 4-Nitroaniline | 10.498 | 138 | 83841 | 44.873 | ng | 99 |
| 63) Azobenzene | 10.633 | 77 | 348697 | 45.196 | ng | 99 |
| 65) 4,6-Dinitro-2-methylph... | 10.528 | 198 | 62500 | 50.907 | ng | 93 |
| 66) n-Nitrosodiphenylamine | 10.592 | 169 | 343784 | 51.013 | ng | 100 |
| 67) 4-Bromophenyl-phenylether | 10.963 | 248 | 118777 | 51.325 | ng | 96 |
| 68) Hexachlorobenzene | 11.033 | 284 | 131197 | 51.073 | ng | 98 |
| 69) Atrazine | 11.116 | 200 | 94336 | 52.505 | ng | 99 |
| 70) Pentachlorophenol | 11.228 | 266 | 133589 | 99.208 | ng | 99 |
| 71) Phenanthrene | 11.445 | 178 | 526047 | 50.083 | ng | 99 |
| 72) Anthracene | 11.498 | 178 | 536828 | 49.406 | ng | 99 |
| 73) Carbazole | 11.651 | 167 | 456048 | 50.136 | ng | 99 |
| 74) Di-n-butylphthalate | 11.980 | 149 | 500868 | 49.312 | ng | 100 |
| 75) Fluoranthene | 12.639 | 202 | 488146 | 48.875 | ng | 99 |
| 77) Benzidine | 12.757 | 184 | 174245 | 39.099 | ng | 99 |
| 78) Pyrene | 12.869 | 202 | 488130 | 41.976 | ng | 100 |
| 80) Butylbenzylphthalate | 13.480 | 149 | 185187 | 53.853 | ng | 99 |
| 81) Benzo(a)anthracene | 14.057 | 228 | 410291 | 49.479 | ng | 99 |
| 82) 3,3'-Dichlorobenzidine | 14.022 | 252 | 76566 | 28.634 | ng | 99 |
| 83) Chrysene | 14.092 | 228 | 384377 | 50.207 | ng | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.039 | 149 | 276777 | 53.632 | ng | 100 |
| 85) Di-n-octyl phthalate | 14.657 | 149 | 506808 | 51.187 | ng | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 17.086 | 276 | 543031 | 48.254 | ng | 100 |
| 88) Benzo(b)fluoranthene | 15.121 | 252 | 473532 | 52.958 | ng | 99 |
| 89) Benzo(k)fluoranthene | 15.151 | 252 | 403601 | 46.520 | ng | 99 |
| 90) Benzo(a)pyrene | 15.504 | 252 | 433248 | 50.960 | ng | 100 |
| 91) Dibenzo(a,h)anthracene | 17.104 | 278 | 436254 | 47.477 | ng | 99 |
| 92) Benzo(g,h,i)perylene | 17.545 | 276 | 428212 | 46.864 | ng | 99 |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061225\
Data File : BF142750.D
Acq On : 12 Jun 2025 11:25
Operator : RC/JU
Sample : PB168259BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB168259BS

Quant Time: Jun 12 11:54:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142727.D
Acq On : 11 Jun 2025 11:21
Operator : RC/JU
Sample : PB168285BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 11 11:45:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BS

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :Jagrut Upadhyay 06/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.892 | 152 | 75631 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.175 | 136 | 294551 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.933 | 164 | 162704 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.427 | 188 | 278222 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.068 | 240 | 147780 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.562 | 264 | 156697 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.522 | 112 | 557674 | 125.583 | ng | 0.02 |
| 7) Phenol-d6 | 6.522 | 99 | 663936 | 127.044 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.457 | 82 | 418857 | 77.824 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.727 | 330 | 230898 | 129.484 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.257 | 172 | 933481 | 76.223 | ng | 0.00 |
| 79) Terphenyl-d14 | 13.010 | 244 | 879635 | 81.752 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.763 | 88 | 64643 | 36.783 | ng | 100 |
| 3) Pyridine | 3.516 | 79 | 178507 | 40.510 | ng | 99 |
| 4) n-Nitrosodimethylamine | 3.475 | 42 | 99969 | 44.341 | ng | 98 |
| 6) Aniline | 6.557 | 93 | 222608 | 31.826 | ng | 97 |
| 8) 2-Chlorophenol | 6.675 | 128 | 222610 | 45.872 | ng | 99 |
| 9) Benzaldehyde | 6.439 | 77 | 104049 | 32.151 | ng | 98 |
| 10) Phenol | 6.539 | 94 | 256115 | 44.090 | ng | 94 |
| 11) bis(2-Chloroethyl)ether | 6.628 | 93 | 191831 | 44.212 | ng | 98 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 238872 | 43.132 | ng | 99 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 240362 | 42.945 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.063 | 146 | 233854 | 43.588 | ng | 99 |
| 15) Benzyl Alcohol | 7.034 | 79 | 178579 | 45.210 | ng | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 294148 | 43.059 | ng | 92 |
| 17) 2-Methylphenol | 7.145 | 107 | 169079 | 45.448 | ng | 99 |
| 18) Hexachloroethane | 7.404 | 117 | 87092 | 43.420 | ng | 100 |
| 19) n-Nitroso-di-n-propyla... | 7.310 | 70 | 145357 | 43.690 | ng | 98 |
| 20) 3+4-Methylphenols | 7.298 | 107 | 213736 | 45.571 | ng | 99 |
| 22) Acetophenone | 7.304 | 105 | 289978 | 44.257 | ng | 99 |
| 24) Nitrobenzene | 7.475 | 77 | 212823 | 44.554 | ng | 99 |
| 25) Isophorone | 7.716 | 82 | 399446 | 43.834 | ng | 99 |
| 26) 2-Nitrophenol | 7.792 | 139 | 122967 | 46.127 | ng | 99 |
| 27) 2,4-Dimethylphenol | 7.828 | 122 | 205753 | 45.332 | ng | 100 |
| 28) bis(2-Chloroethoxy)met... | 7.922 | 93 | 250547 | 44.284 | ng | 99 |
| 29) 2,4-Dichlorophenol | 8.033 | 162 | 190058 | 45.374 | ng | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.116 | 180 | 202914 | 43.839 | ng | 100 |
| 31) Naphthalene | 8.198 | 128 | 637437 | 43.758 | ng | 99 |
| 32) Benzoic acid | 7.957 | 122 | 127508 | 49.883 | ng | 98 |
| 33) 4-Chloroaniline | 8.245 | 127 | 83575 | 14.289 | ng | 98 |
| 34) Hexachlorobutadiene | 8.316 | 225 | 127185 | 43.120 | ng | 98 |
| 35) Caprolactam | 8.622 | 113 | 56567m | 50.029 | ng | |
| 36) 4-Chloro-3-methylphenol | 8.733 | 107 | 195715 | 44.935 | ng | 100 |
| 37) 2-Methylnaphthalene | 8.892 | 142 | 399320 | 43.308 | ng | 98 |
| 38) 1-Methylnaphthalene | 8.992 | 142 | 421083 | 44.084 | ng | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.057 | 216 | 210701 | 44.743 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 9.045 | 237 | 273896 | 90.621 | ng | 98 |
| 43) 2,4,6-Trichlorophenol | 9.169 | 196 | 142414 | 46.719 | ng | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142727.D
Acq On : 11 Jun 2025 11:21
Operator : RC/JU
Sample : PB168285BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 11 11:45:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BS

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :Jagrut Upadhyay 06/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.210 | 196 | 147700 | 44.861 | ng | 98 |
| 46) 1,1'-Biphenyl | 9.357 | 154 | 559102 | 44.253 | ng | 100 |
| 47) 2-Chloronaphthalene | 9.380 | 162 | 412111 | 44.275 | ng | 100 |
| 48) 2-Nitroaniline | 9.475 | 65 | 120048 | 45.346 | ng | 99 |
| 49) Acenaphthylene | 9.798 | 152 | 701774 | 44.715 | ng | 100 |
| 50) Dimethylphthalate | 9.657 | 163 | 497771 | 45.814 | ng | 100 |
| 51) 2,6-Dinitrotoluene | 9.722 | 165 | 108743 | 46.308 | ng | 97 |
| 52) Acenaphthene | 9.969 | 154 | 489115 | 50.265 | ng | 99 |
| 53) 3-Nitroaniline | 9.886 | 138 | 66608 | 26.152 | ng | 99 |
| 54) 2,4-Dinitrophenol | 9.998 | 184 | 139520 | 108.465 | ng | 91 |
| 55) Dibenzofuran | 10.145 | 168 | 615212 | 44.398 | ng | 99 |
| 56) 4-Nitrophenol | 10.051 | 139 | 170781 | 98.864 | ng | 96 |
| 57) 2,4-Dinitrotoluene | 10.127 | 165 | 149112 | 48.027 | ng | 98 |
| 58) Fluorene | 10.486 | 166 | 480108 | 43.876 | ng | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.263 | 232 | 127700 | 46.103 | ng | 100 |
| 60) Diethylphthalate | 10.357 | 149 | 500364 | 46.443 | ng | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.474 | 204 | 235568 | 44.082 | ng | 99 |
| 62) 4-Nitroaniline | 10.510 | 138 | 108265 | 47.514 | ng | 99 |
| 63) Azobenzene | 10.639 | 77 | 421629 | 44.810 | ng | 98 |
| 65) 4,6-Dinitro-2-methylph... | 10.533 | 198 | 83683 | 48.031 | ng | 96 |
| 66) n-Nitrosodiphenylamine | 10.598 | 169 | 424612 | 44.399 | ng | 100 |
| 67) 4-Bromophenyl-phenylether | 10.969 | 248 | 144219 | 43.914 | ng | 99 |
| 68) Hexachlorobenzene | 11.033 | 284 | 160594 | 44.053 | ng | 99 |
| 69) Atrazine | 11.121 | 200 | 128999 | 50.593 | ng | 99 |
| 70) Pentachlorophenol | 11.233 | 266 | 178839 | 93.589 | ng | 98 |
| 71) Phenanthrene | 11.451 | 178 | 663039 | 44.483 | ng | 100 |
| 72) Anthracene | 11.504 | 178 | 681281 | 44.184 | ng | 100 |
| 73) Carbazole | 11.657 | 167 | 590398 | 45.737 | ng | 100 |
| 74) Di-n-butylphthalate | 11.980 | 149 | 710586 | 49.299 | ng | 100 |
| 75) Fluoranthene | 12.639 | 202 | 647918 | 45.714 | ng | 99 |
| 77) Benzidine | 12.757 | 184 | 177445 | 33.716 | ng | 99 |
| 78) Pyrene | 12.868 | 202 | 638902 | 46.522 | ng | 100 |
| 80) Butylbenzylphthalate | 13.480 | 149 | 204524 | 50.362 | ng | 99 |
| 81) Benzo(a)anthracene | 14.057 | 228 | 447930 | 45.741 | ng | 98 |
| 82) 3,3'-Dichlorobenzidine | 14.021 | 252 | 68073 | 21.556 | ng | 97 |
| 83) Chrysene | 14.098 | 228 | 422464 | 46.725 | ng | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 14.039 | 149 | 282460 | 46.345 | ng | 100 |
| 85) Di-n-octyl phthalate | 14.657 | 149 | 520093 | 44.480 | ng | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 17.086 | 276 | 522405 | 44.988 | ng | 100 |
| 88) Benzo(b)fluoranthene | 15.121 | 252 | 450291 | 48.804 | ng | 99 |
| 89) Benzo(k)fluoranthene | 15.157 | 252 | 394562 | 44.074 | ng | 99 |
| 90) Benzo(a)pyrene | 15.504 | 252 | 409410 | 46.669 | ng | 100 |
| 91) Dibenzo(a,h)anthracene | 17.098 | 278 | 427909 | 45.131 | ng | 100 |
| 92) Benzo(g,h,i)perylene | 17.545 | 276 | 416187 | 44.141 | ng | 100 |

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

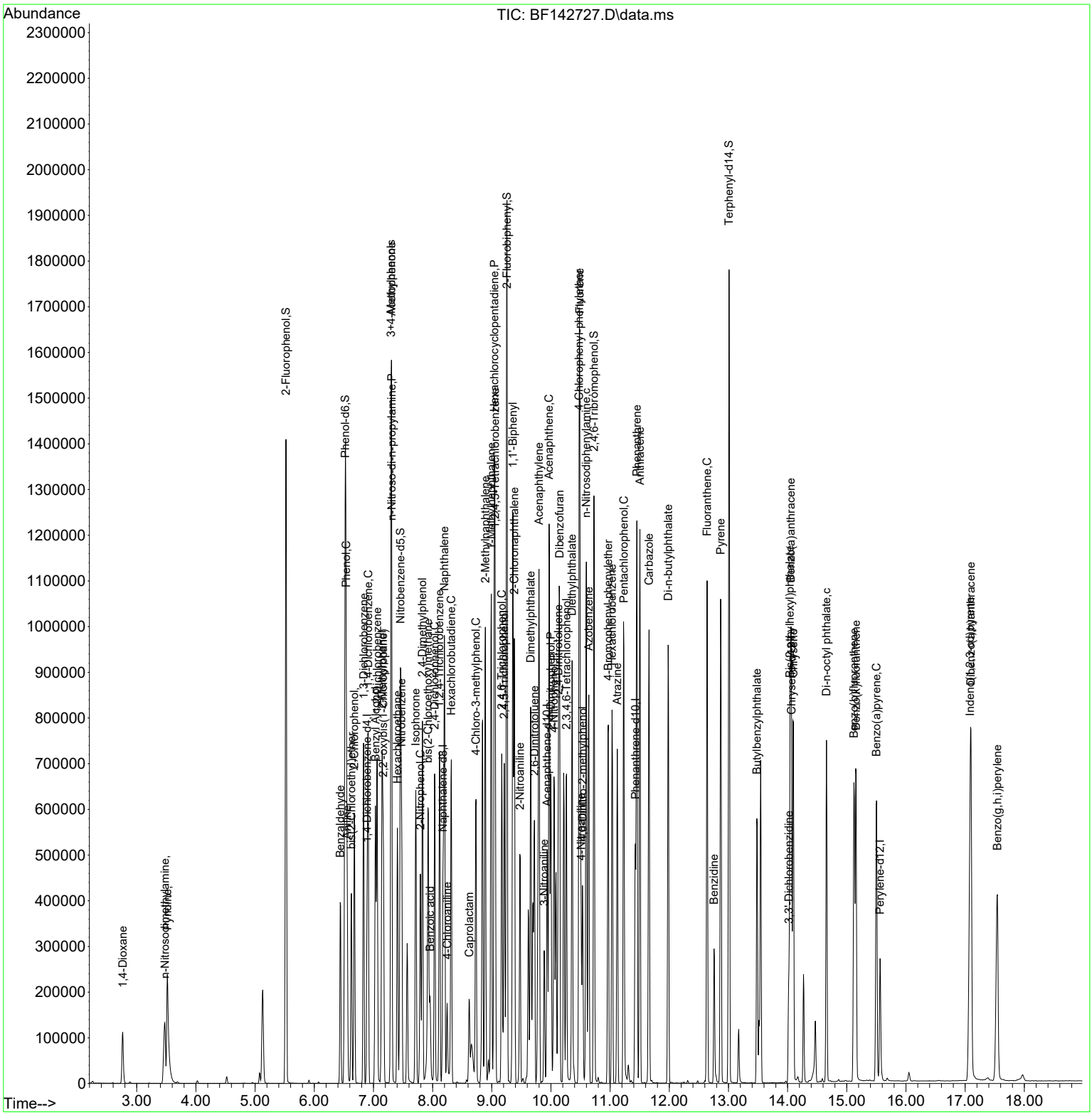
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142727.D
Acq On : 11 Jun 2025 11:21
Operator : RC/JU
Sample : PB168285BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 11 11:45:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BS

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 06/12/2025
Supervised By :Jagrut Upadhyay 06/12/2025



Sample Results: **BF142728.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142728.D
Acq On : 11 Jun 2025 11:50
Operator : RC/JU
Sample : PB168285BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 11 12:17:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BSD

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :Jagrut Upadhyay 06/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.893 | 152 | 79958 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.181 | 136 | 304653 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.939 | 164 | 167586 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.428 | 188 | 281985 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.069 | 240 | 148975 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.563 | 264 | 159540 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.522 | 112 | 584593 | 124.521 | ng | 0.02 |
| 7) Phenol-d6 | 6.528 | 99 | 699315 | 126.573 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.457 | 82 | 442271 | 79.449 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.733 | 330 | 236790 | 128.920 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.257 | 172 | 979443 | 77.646 | ng | 0.00 |
| 79) Terphenyl-d14 | 13.010 | 244 | 859457 | 79.236 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.769 | 88 | 67790 | 36.486 | ng | 99 |
| 3) Pyridine | 3.522 | 79 | 187784 | 40.309 | ng | 99 |
| 4) n-Nitrosodimethylamine | 3.481 | 42 | 106761 | 44.791 | ng | 98 |
| 6) Aniline | 6.557 | 93 | 235031 | 31.783 | ng | 95 |
| 8) 2-Chlorophenol | 6.681 | 128 | 235077 | 45.820 | ng | 98 |
| 9) Benzaldehyde | 6.446 | 77 | 108698 | 31.769 | ng | 96 |
| 10) Phenol | 6.540 | 94 | 271535 | 44.215 | ng | 95 |
| 11) bis(2-Chloroethyl)ether | 6.628 | 93 | 203412 | 44.344 | ng | 99 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 252496 | 43.125 | ng | 99 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 254095 | 42.942 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.063 | 146 | 244725 | 43.146 | ng | 99 |
| 15) Benzyl Alcohol | 7.034 | 79 | 189979 | 45.494 | ng | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.169 | 45 | 308921 | 42.774 | ng | 98 |
| 17) 2-Methylphenol | 7.146 | 107 | 181748 | 46.210 | ng | 99 |
| 18) Hexachloroethane | 7.404 | 117 | 91334 | 43.071 | ng | 99 |
| 19) n-Nitroso-di-n-propyla... | 7.310 | 70 | 153317 | 43.589 | ng | 100 |
| 20) 3+4-Methylphenols | 7.298 | 107 | 228375 | 46.057 | ng | 98 |
| 22) Acetophenone | 7.304 | 105 | 305840 | 45.131 | ng | 98 |
| 24) Nitrobenzene | 7.481 | 77 | 224388 | 45.417 | ng | 100 |
| 25) Isophorone | 7.716 | 82 | 421864 | 44.759 | ng | 99 |
| 26) 2-Nitrophenol | 7.793 | 139 | 128129 | 46.469 | ng | 99 |
| 27) 2,4-Dimethylphenol | 7.828 | 122 | 217370 | 46.303 | ng | 100 |
| 28) bis(2-Chloroethoxy)met... | 7.928 | 93 | 264684 | 45.231 | ng | 100 |
| 29) 2,4-Dichlorophenol | 8.040 | 162 | 204043 | 47.097 | ng | 97 |
| 30) 1,2,4-Trichlorobenzene | 8.116 | 180 | 216097 | 45.139 | ng | 100 |
| 31) Naphthalene | 8.198 | 128 | 674474 | 44.765 | ng | 99 |
| 32) Benzoic acid | 7.957 | 122 | 136622 | 51.676 | ng | 99 |
| 33) 4-Chloroaniline | 8.245 | 127 | 86856 | 14.357 | ng | 99 |
| 34) Hexachlorobutadiene | 8.316 | 225 | 134005 | 43.926 | ng | 99 |
| 35) Caprolactam | 8.622 | 113 | 58307m | 49.858 | ng | |
| 36) 4-Chloro-3-methylphenol | 8.734 | 107 | 206170 | 45.766 | ng | 99 |
| 37) 2-Methylnaphthalene | 8.892 | 142 | 428144 | 44.895 | ng | 99 |
| 38) 1-Methylnaphthalene | 8.992 | 142 | 441163 | 44.655 | ng | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.057 | 216 | 216872 | 44.712 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 9.045 | 237 | 293138 | 94.162 | ng | 99 |
| 43) 2,4,6-Trichlorophenol | 9.169 | 196 | 148294 | 47.231 | ng | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142728.D
Acq On : 11 Jun 2025 11:50
Operator : RC/JU
Sample : PB168285BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 11 12:17:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BSD

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :Jagrut Upadhyay 06/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.210 | 196 | 155805 | 45.944 | ng | 97 |
| 46) 1,1'-Biphenyl | 9.357 | 154 | 586146 | 45.042 | ng | 100 |
| 47) 2-Chloronaphthalene | 9.381 | 162 | 434176 | 45.287 | ng | 100 |
| 48) 2-Nitroaniline | 9.481 | 65 | 123837 | 45.415 | ng | 95 |
| 49) Acenaphthylene | 9.798 | 152 | 733996 | 45.406 | ng | 100 |
| 50) Dimethylphthalate | 9.657 | 163 | 522022 | 46.646 | ng | 100 |
| 51) 2,6-Dinitrotoluene | 9.722 | 165 | 111554 | 46.122 | ng | 95 |
| 52) Acenaphthene | 9.975 | 154 | 499655 | 49.852 | ng | 99 |
| 53) 3-Nitroaniline | 9.886 | 138 | 67107 | 25.580 | ng | 98 |
| 54) 2,4-Dinitrophenol | 9.998 | 184 | 142845 | 107.815 | ng | 93 |
| 55) Dibenzofuran | 10.145 | 168 | 638399 | 44.730 | ng | 100 |
| 56) 4-Nitrophenol | 10.057 | 139 | 172443 | 96.918 | ng | 97 |
| 57) 2,4-Dinitrotoluene | 10.128 | 165 | 152297 | 47.624 | ng | 98 |
| 58) Fluorene | 10.486 | 166 | 503700 | 44.691 | ng | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.263 | 232 | 131356 | 46.041 | ng | 99 |
| 60) Diethylphthalate | 10.357 | 149 | 516838 | 46.575 | ng | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.475 | 204 | 248444 | 45.137 | ng | 99 |
| 62) 4-Nitroaniline | 10.510 | 138 | 109301 | 46.571 | ng | 98 |
| 63) Azobenzene | 10.639 | 77 | 441139 | 45.518 | ng | 98 |
| 65) 4,6-Dinitro-2-methylph... | 10.539 | 198 | 86177 | 48.802 | ng | 98 |
| 66) n-Nitrosodiphenylamine | 10.598 | 169 | 437418 | 45.128 | ng | 99 |
| 67) 4-Bromophenyl-phenylether | 10.969 | 248 | 150357 | 45.172 | ng | 98 |
| 68) Hexachlorobenzene | 11.033 | 284 | 164704 | 44.578 | ng | 98 |
| 69) Atrazine | 11.122 | 200 | 128706 | 49.805 | ng | 100 |
| 70) Pentachlorophenol | 11.233 | 266 | 179040 | 92.443 | ng | 97 |
| 71) Phenanthrene | 11.451 | 178 | 678589 | 44.919 | ng | 100 |
| 72) Anthracene | 11.504 | 178 | 702094 | 44.926 | ng | 100 |
| 73) Carbazole | 11.657 | 167 | 601663 | 45.988 | ng | 99 |
| 74) Di-n-butylphthalate | 11.980 | 149 | 699562 | 47.886 | ng | 99 |
| 75) Fluoranthene | 12.639 | 202 | 645627 | 44.944 | ng | 99 |
| 77) Benzidine | 12.763 | 184 | 172676 | 32.546 | ng | 98 |
| 78) Pyrene | 12.875 | 202 | 631683 | 45.628 | ng | 99 |
| 80) Butylbenzylphthalate | 13.486 | 149 | 206062 | 50.334 | ng | 98 |
| 81) Benzo(a)anthracene | 14.057 | 228 | 469680 | 47.577 | ng | 99 |
| 82) 3,3'-Dichlorobenzidine | 14.022 | 252 | 70698 | 22.208 | ng | 100 |
| 83) Chrysene | 14.098 | 228 | 408413 | 44.809 | ng | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 14.045 | 149 | 298050 | 48.511 | ng | 99 |
| 85) Di-n-octyl phthalate | 14.657 | 149 | 555755 | 47.148 | ng | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 17.092 | 276 | 547077 | 46.273 | ng | 100 |
| 88) Benzo(b)fluoranthene | 15.127 | 252 | 436349 | 46.450 | ng | 99 |
| 89) Benzo(k)fluoranthene | 15.157 | 252 | 431458 | 47.337 | ng | 100 |
| 90) Benzo(a)pyrene | 15.504 | 252 | 424339 | 47.509 | ng | 99 |
| 91) Dibenzo(a,h)anthracene | 17.104 | 278 | 449495 | 46.562 | ng | 100 |
| 92) Benzo(g,h,i)perylene | 17.551 | 276 | 437957 | 45.623 | ng | 100 |

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

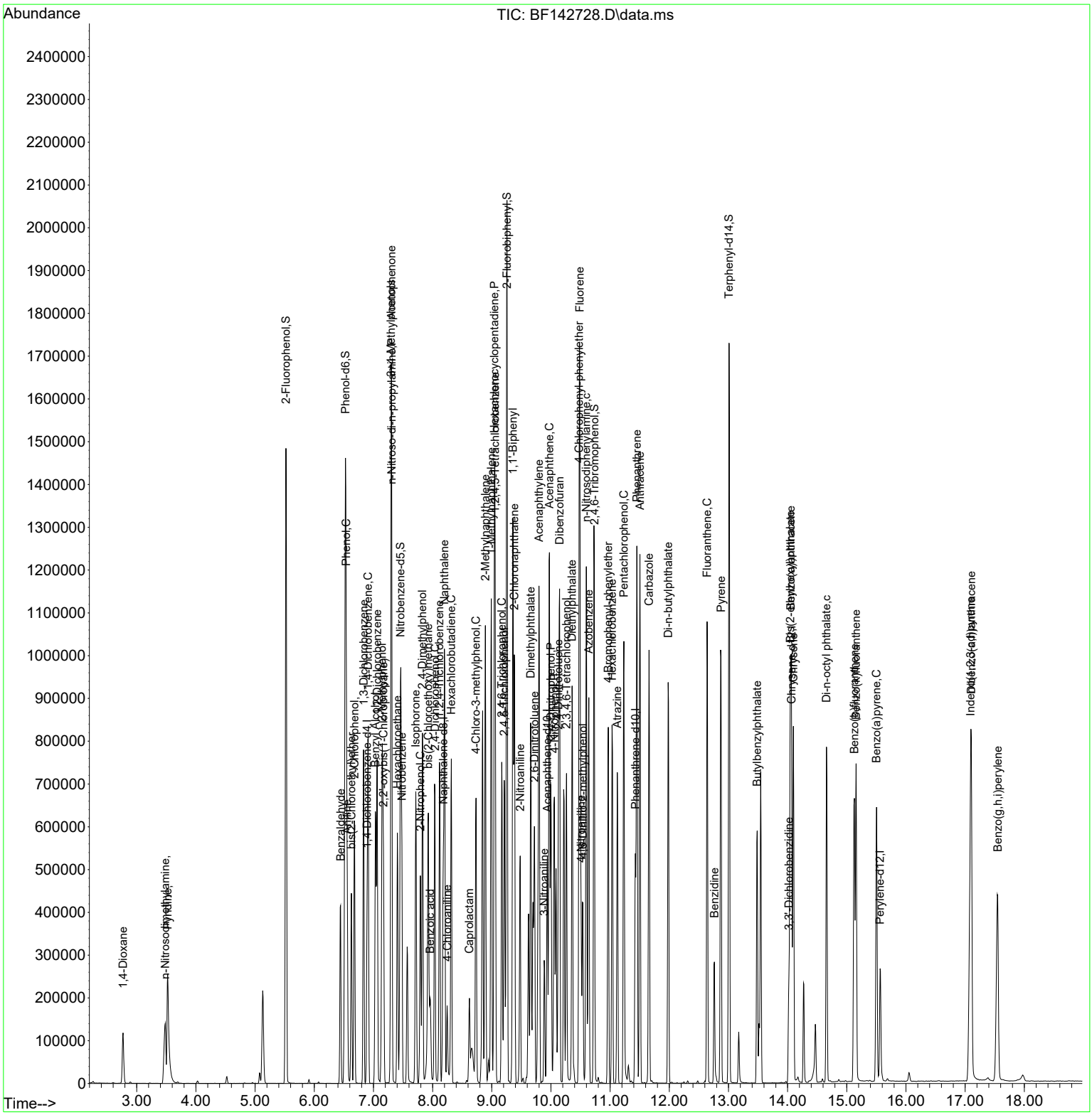
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142728.D
Acq On : 11 Jun 2025 11:50
Operator : RC/JU
Sample : PB168285BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 11 12:17:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB168285BSD

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 06/12/2025
Supervised By :Jagrut Upadhyay 06/12/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142629.D
Acq On : 05 Jun 2025 12:38
Operator : RC/JU
Sample : Q2194-03MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 13:04:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
COMP-13MS

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.898 | 152 | 122190 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.181 | 136 | 451779 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.939 | 164 | 216895 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.428 | 188 | 322012 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.069 | 240 | 234738 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.563 | 264 | 279656 | 20.000 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 5.522 | 112 | 599856 | 82.708 | ng | 0.00 |
| 7) Phenol-d6 | 6.528 | 99 | 713873 | 81.768 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.457 | 82 | 438378 | 52.911 | ng | -0.02 |
| 42) 2,4,6-Tribromophenol | 10.728 | 330 | 189404 | 78.680 | ng | -0.01 |
| 45) 2-Fluorobiphenyl | 9.257 | 172 | 836201 | 51.733 | ng | -0.01 |
| 79) Terphenyl-d14 | 13.010 | 244 | 631979 | 36.791 | ng | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.734 | 88 | 116544 | 40.157 | ng | 98 |
| 3) Pyridine | 3.493 | 79 | 317907 | 43.015 | ng | 97 |
| 4) n-Nitrosodimethylamine | 3.446 | 42 | 166389 | 43.360 | ng | 90 |
| 6) Aniline | 6.557 | 93 | 418548 | 35.655 | ng | 98 |
| 8) 2-Chlorophenol | 6.681 | 128 | 349653 | 44.261 | ng | 99 |
| 9) Benzaldehyde | 6.446 | 77 | 185164 | 35.262 | ng | 99 |
| 10) Phenol | 6.540 | 94 | 420223 | 42.777 | ng | 100 |
| 11) bis(2-Chloroethyl)ether | 6.628 | 93 | 315563 | 44.625 | ng | 100 |
| 12) 1,3-Dichlorobenzene | 6.840 | 146 | 381689 | 43.300 | ng | 98 |
| 13) 1,4-Dichlorobenzene | 6.916 | 146 | 390667 | 43.997 | ng | 98 |
| 14) 1,2-Dichlorobenzene | 7.069 | 146 | 373469 | 43.956 | ng | 99 |
| 15) Benzyl Alcohol | 7.034 | 79 | 273858 | 42.447 | ng | 97 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.169 | 45 | 511374 | 43.062 | ng | 98 |
| 17) 2-Methylphenol | 7.146 | 107 | 260125 | 42.175 | ng | 98 |
| 18) Hexachloroethane | 7.410 | 117 | 135471 | 43.693 | ng | 99 |
| 19) n-Nitroso-di-n-propyla... | 7.304 | 70 | 214353 | 39.616 | ng | 100 |
| 20) 3+4-Methylphenols | 7.298 | 107 | 319353 | 40.433 | ng | 97 |
| 22) Acetophenone | 7.304 | 105 | 434580 | 43.454 | ng | 98 |
| 24) Nitrobenzene | 7.481 | 77 | 329327 | 44.072 | ng | 98 |
| 25) Isophorone | 7.716 | 82 | 586760 | 42.359 | ng | 98 |
| 26) 2-Nitrophenol | 7.793 | 139 | 187399 | 46.934 | ng | 98 |
| 27) 2,4-Dimethylphenol | 7.834 | 122 | 305696 | 43.415 | ng | 98 |
| 28) bis(2-Chloroethoxy)met... | 7.928 | 93 | 380803 | 44.007 | ng | 99 |
| 29) 2,4-Dichlorophenol | 8.040 | 162 | 277852 | 43.390 | ng | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.122 | 180 | 312724 | 44.999 | ng | 98 |
| 31) Naphthalene | 8.204 | 128 | 974716 | 43.817 | ng | 100 |
| 32) Benzoic acid | 7.945 | 122 | 193944m | 45.248 | ng | |
| 33) 4-Chloroaniline | 8.251 | 127 | 227971 | 25.291 | ng | 98 |
| 34) Hexachlorobutadiene | 8.316 | 225 | 191565 | 44.147 | ng | 100 |
| 35) Caprolactam | 8.616 | 113 | 78313m | 43.544 | ng | |
| 36) 4-Chloro-3-methylphenol | 8.728 | 107 | 261506 | 39.848 | ng | 97 |
| 37) 2-Methylnaphthalene | 8.892 | 142 | 591729 | 42.281 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.992 | 142 | 600790 | 41.502 | ng | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.063 | 216 | 297227 | 47.739 | ng | 98 |
| 41) Hexachlorocyclopentadiene | 9.045 | 237 | 375230 | 89.339 | ng | 99 |
| 43) 2,4,6-Trichlorophenol | 9.169 | 196 | 194738 | 46.384 | ng | 97 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142629.D
Acq On : 05 Jun 2025 12:38
Operator : RC/JU
Sample : Q2194-03MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 13:04:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
COMP-13MS

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.210 | 196 | 199277 | 45.006 | ng | 98 |
| 46) 1,1'-Biphenyl | 9.357 | 154 | 780991 | 46.413 | ng | 99 |
| 47) 2-Chloronaphthalene | 9.387 | 162 | 577402 | 46.443 | ng | 97 |
| 48) 2-Nitroaniline | 9.481 | 65 | 160805 | 44.748 | ng | 95 |
| 49) Acenaphthylene | 9.798 | 152 | 939256 | 44.741 | ng | 100 |
| 50) Dimethylphthalate | 9.657 | 163 | 622374 | 43.488 | ng | 99 |
| 51) 2,6-Dinitrotoluene | 9.722 | 165 | 136634 | 44.234 | ng | 95 |
| 52) Acenaphthene | 9.975 | 154 | 623337 | 48.626 | ng | 99 |
| 53) 3-Nitroaniline | 9.887 | 138 | 101002 | 29.937 | ng | 98 |
| 54) 2,4-Dinitrophenol | 9.998 | 184 | 158196 | 99.131 | ng | 92 |
| 55) Dibenzofuran | 10.145 | 168 | 807247 | 43.761 | ng | 98 |
| 56) 4-Nitrophenol | 10.051 | 139 | 219710 | 88.260 | ng | 96 |
| 57) 2,4-Dinitrotoluene | 10.122 | 165 | 180624 | 44.776 | ng | 99 |
| 58) Fluorene | 10.486 | 166 | 608304 | 42.685 | ng | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.263 | 232 | 157768 | 42.681 | ng | 98 |
| 60) Diethylphthalate | 10.357 | 149 | 579733 | 41.477 | ng | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.481 | 204 | 295911 | 42.269 | ng | 96 |
| 62) 4-Nitroaniline | 10.504 | 138 | 134386 | 43.919 | ng | 95 |
| 63) Azobenzene | 10.639 | 77 | 589364 | 46.946 | ng | 95 |
| 65) 4,6-Dinitro-2-methylph... | 10.534 | 198 | 95910 | 53.370 | ng | 97 |
| 66) n-Nitrosodiphenylamine | 10.598 | 169 | 517819 | 47.003 | ng | 100 |
| 67) 4-Bromophenyl-phenylether | 10.969 | 248 | 177063 | 46.503 | ng | 98 |
| 68) Hexachlorobenzene | 11.034 | 284 | 196279 | 46.608 | ng | 99 |
| 69) Atrazine | 11.122 | 200 | 147925 | 50.560 | ng | 99 |
| 70) Pentachlorophenol | 11.233 | 266 | 215378 | 90.586 | ng | 98 |
| 71) Phenanthrene | 11.451 | 178 | 776660 | 45.131 | ng | 100 |
| 72) Anthracene | 11.504 | 178 | 801110 | 45.613 | ng | 100 |
| 73) Carbazole | 11.657 | 167 | 688286 | 45.841 | ng | 100 |
| 74) Di-n-butylphthalate | 11.981 | 149 | 789814 | 48.057 | ng | 99 |
| 75) Fluoranthene | 12.639 | 202 | 747653 | 46.496 | ng | 99 |
| 77) Benzidine | 12.763 | 184 | 344316 | 39.417 | ng | 99 |
| 78) Pyrene | 12.869 | 202 | 746029 | 34.069 | ng | 99 |
| 80) Butylbenzylphthalate | 13.486 | 149 | 301575 | 49.841 | ng | 96 |
| 81) Benzo(a)anthracene | 14.057 | 228 | 725686 | 46.297 | ng | 99 |
| 82) 3,3'-Dichlorobenzidine | 14.022 | 252 | 165303 | 34.769 | ng | 98 |
| 83) Chrysene | 14.098 | 228 | 623470 | 44.266 | ng | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 14.039 | 149 | 424459 | 54.798 | ng | 99 |
| 85) Di-n-octyl phthalate | 14.657 | 149 | 755517 | 49.884 | ng | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 17.086 | 276 | 903860 | 43.052 | ng | 99 |
| 88) Benzo(b)fluoranthene | 15.121 | 252 | 773424 | 46.729 | ng | 98 |
| 89) Benzo(k)fluoranthene | 15.157 | 252 | 673810 | 43.465 | ng | 99 |
| 90) Benzo(a)pyrene | 15.504 | 252 | 713699 | 45.746 | ng | 99 |
| 91) Dibenzo(a,h)anthracene | 17.098 | 278 | 735502 | 43.194 | ng | 98 |
| 92) Benzo(g,h,i)perylene | 17.545 | 276 | 730836 | 42.911 | ng | 99 |

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

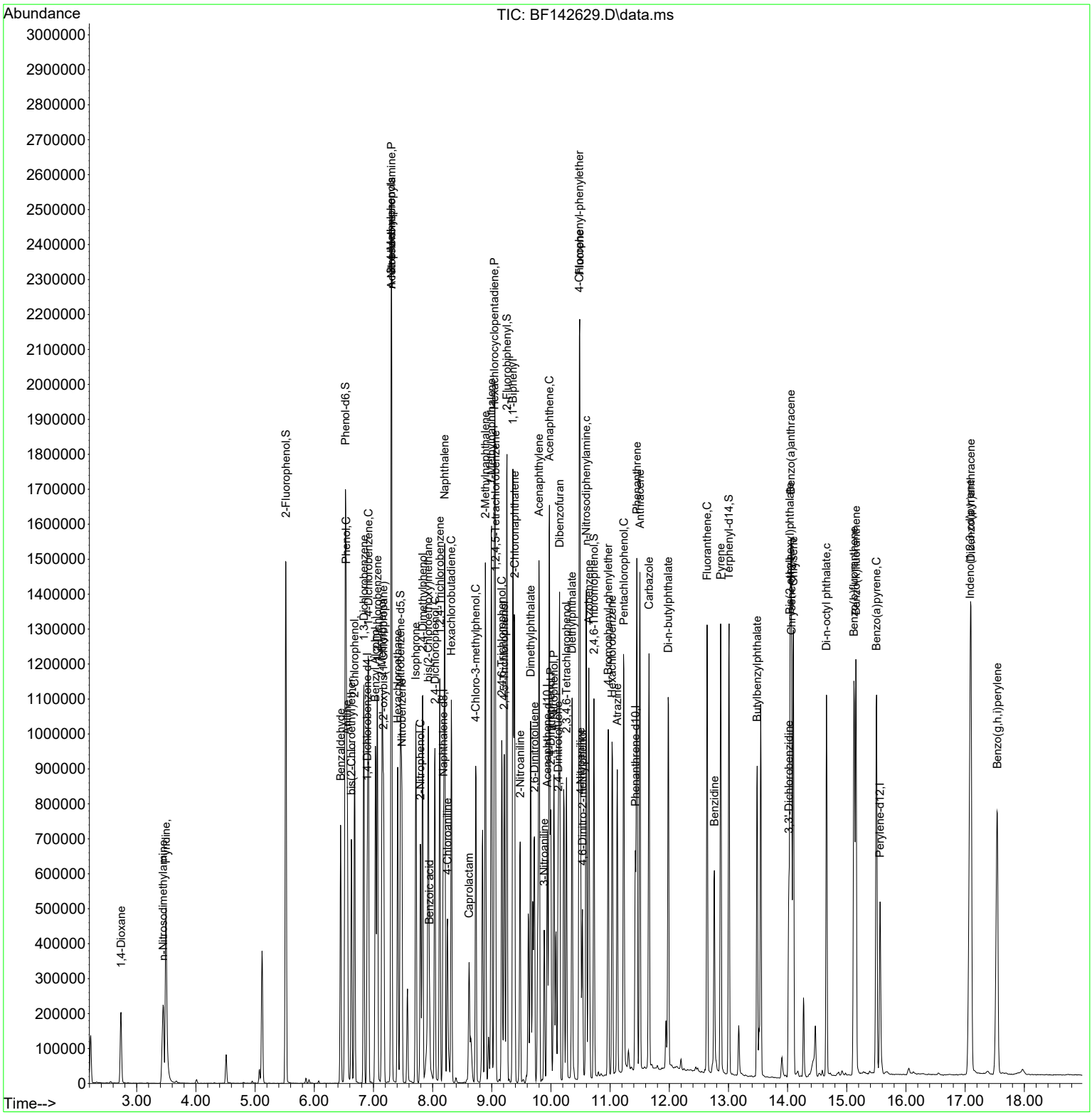
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142629.D
Acq On : 05 Jun 2025 12:38
Operator : RC/JU
Sample : Q2194-03MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 13:04:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
COMP-13MS

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142630.D
Acq On : 05 Jun 2025 13:07
Operator : RC/JU
Sample : Q2194-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 13:36:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
COMP-13MSD

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.898 | 152 | 123357 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.181 | 136 | 463790 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.939 | 164 | 232069 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.427 | 188 | 359383 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.068 | 240 | 228816 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.557 | 264 | 274428 | 20.000 | ng | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 5.522 | 112 | 606643 | 82.853 | ng | 0.00 |
| 7) Phenol-d6 | 6.528 | 99 | 725535 | 82.317 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.457 | 82 | 442951 | 52.079 | ng | -0.02 |
| 42) 2,4,6-Tribromophenol | 10.727 | 330 | 199475 | 77.446 | ng | -0.01 |
| 45) 2-Fluorobiphenyl | 9.257 | 172 | 866115 | 50.080 | ng | -0.01 |
| 79) Terphenyl-d14 | 13.010 | 244 | 668267 | 39.911 | ng | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.734 | 88 | 117333 | 40.046 | ng | 97 |
| 3) Pyridine | 3.493 | 79 | 318357 | 42.668 | ng | 98 |
| 4) n-Nitrosodimethylamine | 3.446 | 42 | 168553 | 43.509 | ng | 89 |
| 6) Aniline | 6.557 | 93 | 422068 | 35.614 | ng | 97 |
| 8) 2-Chlorophenol | 6.681 | 128 | 354006 | 44.389 | ng | 99 |
| 9) Benzaldehyde | 6.445 | 77 | 186774 | 35.232 | ng | 99 |
| 10) Phenol | 6.539 | 94 | 425836 | 42.938 | ng | 100 |
| 11) bis(2-Chloroethyl)ether | 6.628 | 93 | 313745 | 43.948 | ng | 100 |
| 12) 1,3-Dichlorobenzene | 6.839 | 146 | 384366 | 43.191 | ng | 98 |
| 13) 1,4-Dichlorobenzene | 6.916 | 146 | 387280 | 43.203 | ng | 98 |
| 14) 1,2-Dichlorobenzene | 7.063 | 146 | 376839 | 43.933 | ng | 98 |
| 15) Benzyl Alcohol | 7.034 | 79 | 278195 | 42.711 | ng | 98 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.169 | 45 | 518664 | 43.262 | ng | 98 |
| 17) 2-Methylphenol | 7.145 | 107 | 266908 | 42.866 | ng | 100 |
| 18) Hexachloroethane | 7.410 | 117 | 136975 | 43.760 | ng | 100 |
| 19) n-Nitroso-di-n-propyla... | 7.304 | 70 | 220986 | 40.455 | ng | 99 |
| 20) 3+4-Methylphenols | 7.298 | 107 | 323534 | 40.575 | ng | 97 |
| 22) Acetophenone | 7.304 | 105 | 439621 | 42.819 | ng | 98 |
| 24) Nitrobenzene | 7.481 | 77 | 336215 | 43.829 | ng | 98 |
| 25) Isophorone | 7.716 | 82 | 599610 | 42.165 | ng | 98 |
| 26) 2-Nitrophenol | 7.792 | 139 | 192003 | 46.842 | ng | 97 |
| 27) 2,4-Dimethylphenol | 7.833 | 122 | 308954 | 42.741 | ng | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.928 | 93 | 385605 | 43.408 | ng | 99 |
| 29) 2,4-Dichlorophenol | 8.039 | 162 | 286625 | 43.601 | ng | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.122 | 180 | 316300 | 44.335 | ng | 98 |
| 31) Naphthalene | 8.204 | 128 | 990347 | 43.366 | ng | 100 |
| 32) Benzoic acid | 7.945 | 122 | 199134 | 45.256 | ng | 97 |
| 33) 4-Chloroaniline | 8.251 | 127 | 220081 | 23.783 | ng | 97 |
| 34) Hexachlorobutadiene | 8.316 | 225 | 191757 | 43.046 | ng | 99 |
| 35) Caprolactam | 8.616 | 113 | 85131m | 46.109 | ng | |
| 36) 4-Chloro-3-methylphenol | 8.733 | 107 | 276250 | 41.005 | ng | 95 |
| 37) 2-Methylnaphthalene | 8.892 | 142 | 603054 | 41.975 | ng | 99 |
| 38) 1-Methylnaphthalene | 8.992 | 142 | 620345 | 41.743 | ng | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.063 | 216 | 307948 | 46.227 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 9.045 | 237 | 381130 | 84.810 | ng | 99 |
| 43) 2,4,6-Trichlorophenol | 9.169 | 196 | 204875 | 45.608 | ng | 97 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142630.D
Acq On : 05 Jun 2025 13:07
Operator : RC/JU
Sample : Q2194-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 13:36:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
COMP-13MSD

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.210 | 196 | 206573 | 43.603 | ng | 98 |
| 46) 1,1'-Biphenyl | 9.357 | 154 | 809190 | 44.944 | ng | 99 |
| 47) 2-Chloronaphthalene | 9.386 | 162 | 601823 | 45.242 | ng | 98 |
| 48) 2-Nitroaniline | 9.480 | 65 | 173466 | 45.115 | ng | 96 |
| 49) Acenaphthylene | 9.798 | 152 | 984557 | 43.832 | ng | 99 |
| 50) Dimethylphthalate | 9.657 | 163 | 661895 | 43.225 | ng | 100 |
| 51) 2,6-Dinitrotoluene | 9.722 | 165 | 148392 | 44.900 | ng | 95 |
| 52) Acenaphthene | 9.975 | 154 | 654841 | 47.744 | ng | 99 |
| 53) 3-Nitroaniline | 9.886 | 138 | 106885 | 29.610 | ng | 99 |
| 54) 2,4-Dinitrophenol | 9.998 | 184 | 175836 | 102.981 | ng | 92 |
| 55) Dibenzofuran | 10.145 | 168 | 846807 | 42.904 | ng | 98 |
| 56) 4-Nitrophenol | 10.051 | 139 | 242899 | 91.196 | ng | 97 |
| 57) 2,4-Dinitrotoluene | 10.127 | 165 | 195481 | 45.290 | ng | 98 |
| 58) Fluorene | 10.486 | 166 | 646129 | 42.375 | ng | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.263 | 232 | 173703 | 43.920 | ng | 97 |
| 60) Diethylphthalate | 10.357 | 149 | 631869 | 42.251 | ng | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.480 | 204 | 311750 | 41.620 | ng | 96 |
| 62) 4-Nitroaniline | 10.504 | 138 | 147725 | 45.122 | ng | 97 |
| 63) Azobenzene | 10.639 | 77 | 633510 | 47.163 | ng | 95 |
| 65) 4,6-Dinitro-2-methylph... | 10.533 | 198 | 103631 | 51.670 | ng | 98 |
| 66) n-Nitrosodiphenylamine | 10.598 | 169 | 556337 | 45.248 | ng | 99 |
| 67) 4-Bromophenyl-phenylether | 10.969 | 248 | 191389 | 45.039 | ng | 97 |
| 68) Hexachlorobenzene | 11.033 | 284 | 209677 | 44.612 | ng | 99 |
| 69) Atrazine | 11.121 | 200 | 163121 | 49.956 | ng | 98 |
| 70) Pentachlorophenol | 11.233 | 266 | 230613 | 86.908 | ng | 99 |
| 71) Phenanthrene | 11.451 | 178 | 840862 | 43.781 | ng | 100 |
| 72) Anthracene | 11.504 | 178 | 862354 | 43.995 | ng | 100 |
| 73) Carbazole | 11.657 | 167 | 753059 | 44.940 | ng | 99 |
| 74) Di-n-butylphthalate | 11.980 | 149 | 877150 | 47.821 | ng | 100 |
| 75) Fluoranthene | 12.639 | 202 | 797484 | 44.438 | ng | 98 |
| 77) Benzidine | 12.757 | 184 | 347487 | 40.809 | ng | 99 |
| 78) Pyrene | 12.868 | 202 | 793809 | 37.189 | ng | 99 |
| 80) Butylbenzylphthalate | 13.480 | 149 | 304769 | 51.673 | ng | 99 |
| 81) Benzo(a)anthracene | 14.057 | 228 | 682149 | 44.645 | ng | 99 |
| 82) 3,3'-Dichlorobenzidine | 14.015 | 252 | 161271 | 34.799 | ng | 99 |
| 83) Chrysene | 14.092 | 228 | 625549 | 45.563 | ng | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.039 | 149 | 420218 | 55.655 | ng | 99 |
| 85) Di-n-octyl phthalate | 14.657 | 149 | 712180 | 48.240 | ng | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 17.074 | 276 | 891327 | 43.263 | ng | 99 |
| 88) Benzo(b)fluoranthene | 15.121 | 252 | 704683 | 43.387 | ng | 98 |
| 89) Benzo(k)fluoranthene | 15.151 | 252 | 698419 | 45.911 | ng | 98 |
| 90) Benzo(a)pyrene | 15.498 | 252 | 704890 | 46.042 | ng | 99 |
| 91) Dibenzo(a,h)anthracene | 17.092 | 278 | 722055 | 43.212 | ng | 98 |
| 92) Benzo(g,h,i)perylene | 17.539 | 276 | 713255 | 42.677 | ng | 99 |

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

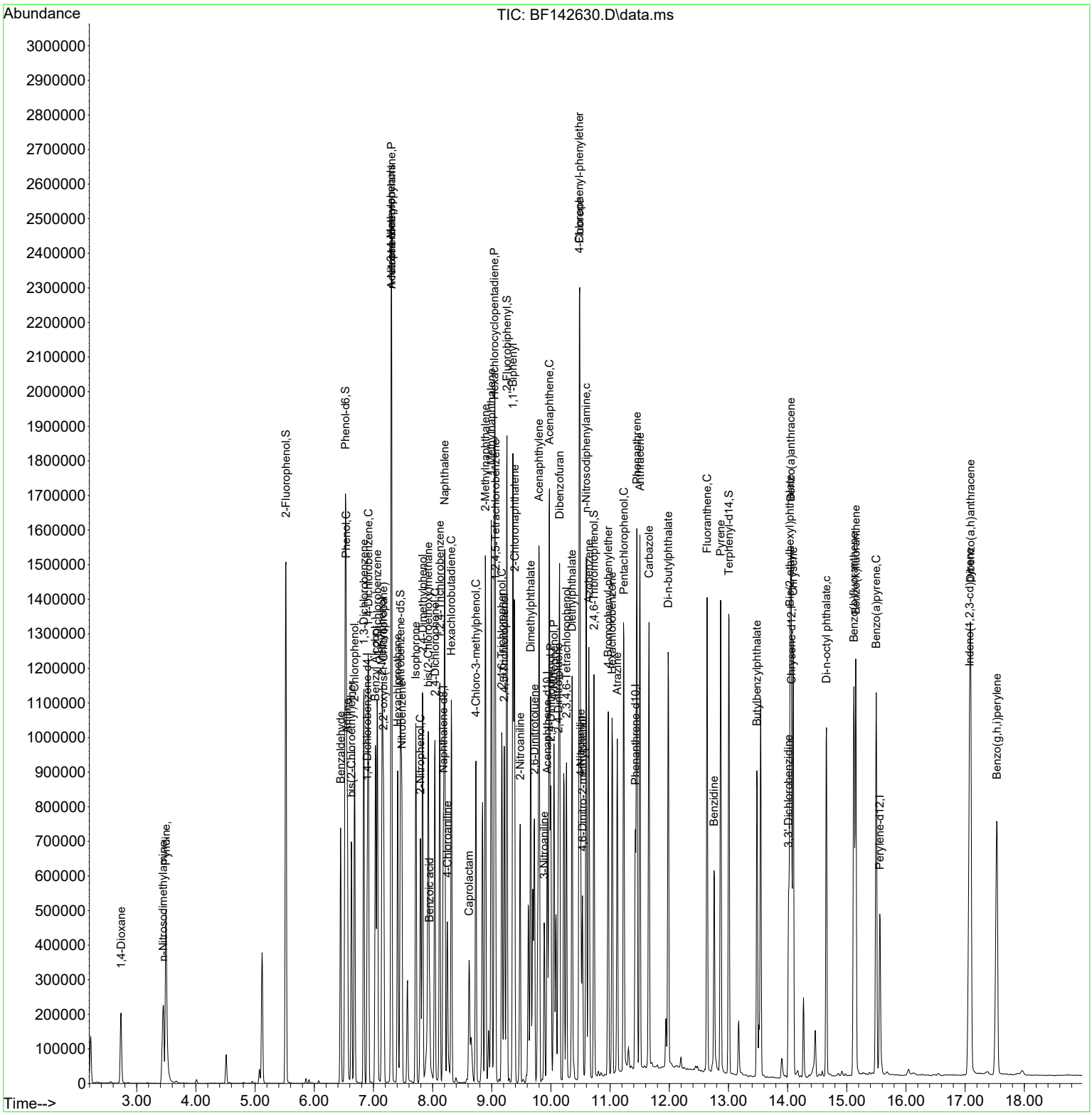
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142630.D
Acq On : 05 Jun 2025 13:07
Operator : RC/JU
Sample : Q2194-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 13:36:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
COMP-13MSD

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025



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

# Manual Integration Report

| Sequence: | bf052025 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICC010 | BF142469.D | Benzoic acid | Rahul | 5/21/2025 2:07:30 PM | Jagrut | 5/21/2025 4:43:55 PM | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | bf060525 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q2194-03MS | BF142629.D | Benzoic acid | Rahul | 6/6/2025 12:15:16 PM | Jagrut | 6/6/2025 1:16:55 PM | Peak Integrated by Software |
| Q2194-03MS | BF142629.D | Caprolactam | Rahul | 6/6/2025 12:15:16 PM | Jagrut | 6/6/2025 1:16:55 PM | Peak Integrated by Software |
| Q2194-03MSD | BF142630.D | Caprolactam | Rahul | 6/6/2025 12:15:18 PM | Jagrut | 6/6/2025 1:16:58 PM | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | BF060625 | Instrument | BNA_f |
|---|---|---|---|

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

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

# Manual Integration Report

| Sequence: | BF061125 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICC010 | BF142714.D | 2,3,4,6-Tetrachlorophenol | Rahul | 6/11/2025 9:18:06 AM | Jagrut | 6/11/2025 9:58:06 AM | Peak Integrated by Software |
| SSTDICC080 | BF142719.D | Caprolactam | Rahul | 6/11/2025 9:18:10 AM | Jagrut | 6/11/2025 9:58:02 AM | Peak Integrated by Software |
| PB168285BS | BF142727.D | Caprolactam | anahy | 6/12/2025 9:39:49 AM | Jagrut | 6/12/2025 11:37:36 AM | Peak Integrated by Software |
| PB168285BSD | BF142728.D | Caprolactam | anahy | 6/12/2025 9:45:24 AM | Jagrut | 6/12/2025 11:37:38 AM | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | BF061225 | Instrument | BNA_f |
|---|---|---|---|

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

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

# Manual Integration Report

| Sequence: | BP060625 | Instrument | BNA_p |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICC005 | BP024861.D | 2,3,4,6-Tetrachlorophenol | Rahul | 6/9/2025 10:51:15 AM | Jagrut | 6/9/2025 12:08:47 PM | Peak Integrated by Software |
| SSTDICC005 | BP024861.D | 4-Nitroaniline | Rahul | 6/9/2025 10:51:15 AM | Jagrut | 6/9/2025 12:08:47 PM | Peak Integrated by Software |
| SSTDICC010 | BP024862.D | Benzaldehyde | Rahul | 6/9/2025 10:51:18 AM | Jagrut | 6/9/2025 12:08:50 PM | Peak Integrated by Software |
| SSTDICC010 | BP024862.D | Benzo(b)fluoranthene | Rahul | 6/9/2025 10:51:18 AM | Jagrut | 6/9/2025 12:08:50 PM | Peak Integrated by Software |
| SSTDICC010 | BP024862.D | Benzoic acid | Rahul | 6/9/2025 10:51:18 AM | Jagrut | 6/9/2025 12:08:50 PM | Peak Integrated by Software |
| SSTDICC020 | BP024863.D | Benzaldehyde | Rahul | 6/9/2025 10:51:20 AM | Jagrut | 6/9/2025 12:08:52 PM | Peak Integrated by Software |
| SSTDICV040 | BP024868.D | Benzaldehyde | Rahul | 6/9/2025 10:51:26 AM | Jagrut | 6/9/2025 12:08:55 PM | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | BP061025 | Instrument | BNA_p |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q2177-06 | BP024899.D | Chrysene | anahy | 6/11/2025 9:23:55 AM | Jagrut | 6/11/2025 9:54:56 AM | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | BP061125 | Instrument | BNA_p |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC040 | BP024905.D | 4-Nitroaniline | anahy | 6/12/2025 9:29:15 AM | mohammad | 6/13/2025 9:04:12 AM | Peak Integrated by Software |
| SSTDCCC040 | BP024905.D | Indeno(1,2,3-cd)pyrene | anahy | 6/12/2025 9:29:15 AM | mohammad | 6/13/2025 9:04:12 AM | Peak Integrated by Software |
| Q2177-02DL | BP024917.D | Benzo(k)fluoranthene | anahy | 6/12/2025 9:30:05 AM | mohammad | 6/13/2025 9:04:12 AM | Peak Integrated by Software |

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

**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF052025

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Rahul | Review On | 5/21/2025 2:52:20 PM | | | | |
| Supervise By | Jagrut | Supervise On | 5/21/2025 4:44:06 PM | | | | |
| SubDirectory | BF052025 | HP Acquire Method | BNA_F | | HP Processing Method | bf052025 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12665,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF142465.D | 20 May 2025 11:13 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF142466.D | 20 May 2025 11:41 | RC/JU | Not Ok |
| 3 | SSTDICC2.5 | BF142467.D | 20 May 2025 12:10 | RC/JU | Ok |
| 4 | SSTDICC005 | BF142468.D | 20 May 2025 12:38 | RC/JU | Ok |
| 5 | SSTDICC010 | BF142469.D | 20 May 2025 13:07 | RC/JU | Ok,M |
| 6 | SSTDICC020 | BF142470.D | 20 May 2025 13:36 | RC/JU | Ok |
| 7 | SSTDICCC040 | BF142471.D | 20 May 2025 14:05 | RC/JU | Ok |
| 8 | SSTDICC050 | BF142472.D | 20 May 2025 14:34 | RC/JU | Ok |
| 9 | SSTDICC060 | BF142473.D | 20 May 2025 15:03 | RC/JU | Ok |
| 10 | SSTDICC080 | BF142474.D | 20 May 2025 15:31 | RC/JU | Ok |
| 11 | SSTDICV040 | BF142475.D | 20 May 2025 16:31 | RC/JU | Ok |
| 12 | PB168067TB | BF142476.D | 20 May 2025 17:29 | RC/JU | Ok |

M : Manual Integration

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

**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF060525

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/6/2025 12:18:39 PM | | | | |
| Supervise By | Jagrut | Supervise On | 6/6/2025 1:17:23 PM | | | | |
| SubDirectory | BF060525 | HP Acquire Method | BNA_F | | HP Processing Method | bf052025 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF142624.D | 05 Jun 2025 09:07 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF142625.D | 05 Jun 2025 09:37 | RC/JU | Ok |
| 3 | PB168285BL | BF142626.D | 05 Jun 2025 11:04 | RC/JU | Ok |
| 4 | Q2181-02 | BF142627.D | 05 Jun 2025 11:35 | RC/JU | Ok |
| 5 | Q2194-03 | BF142628.D | 05 Jun 2025 12:08 | RC/JU | Ok |
| 6 | Q2194-03MS | BF142629.D | 05 Jun 2025 12:38 | RC/JU | Ok,M |
| 7 | Q2194-03MSD | BF142630.D | 05 Jun 2025 13:07 | RC/JU | Ok,M |
| 8 | Q2185-05 | BF142631.D | 05 Jun 2025 13:37 | RC/JU | Ok |
| 9 | Q2194-01 | BF142632.D | 05 Jun 2025 14:07 | RC/JU | Ok |
| 10 | Q2199-01 | BF142633.D | 05 Jun 2025 14:37 | RC/JU | Ok,M |
| 11 | Q2199-03 | BF142634.D | 05 Jun 2025 15:06 | RC/JU | Ok,M |
| 12 | Q2199-05 | BF142635.D | 05 Jun 2025 15:36 | RC/JU | Ok,M |
| 13 | Q2178-01DL | BF142636.D | 05 Jun 2025 16:07 | RC/JU | Dilution |
| 14 | Q2178-01DL2 | BF142637.D | 05 Jun 2025 16:38 | RC/JU | Ok,M |
| 15 | SSTDCCC040 | BF142638.D | 05 Jun 2025 17:18 | RC/JU | Ok |

M : Manual Integration

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF060625

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/9/2025 11:32:18 AM | | | | |
| Supervise By | Jagrut | Supervise On | 6/9/2025 12:07:45 PM | | | | |
| SubDirectory | BF060625 | HP Acquire Method | BNA_F | | HP Processing Method | bf052025 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF142639.D | 06 Jun 2025 11:01 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF142640.D | 06 Jun 2025 11:36 | RC/JU | Ok |
| 3 | PB168259BL | BF142641.D | 06 Jun 2025 12:06 | RC/JU | Ok |
| 4 | Q2185-01 | BF142642.D | 06 Jun 2025 12:54 | RC/JU | Ok |
| 5 | Q2207-37 | BF142643.D | 06 Jun 2025 13:24 | RC/JU | Ok |
| 6 | Q2207-37MS | BF142644.D | 06 Jun 2025 13:54 | RC/JU | Ok |
| 7 | Q2207-37MSD | BF142645.D | 06 Jun 2025 14:25 | RC/JU | Ok |
| 8 | Q2219-01 | BF142646.D | 06 Jun 2025 14:58 | RC/JU | Ok,M |
| 9 | Q2214-01 | BF142647.D | 06 Jun 2025 15:29 | RC/JU | Ok |
| 10 | Q2208-19 | BF142648.D | 06 Jun 2025 16:00 | RC/JU | Ok |
| 11 | Q2207-28 | BF142649.D | 06 Jun 2025 16:30 | RC/JU | Ok |
| 12 | Q2176-07 | BF142650.D | 06 Jun 2025 17:01 | RC/JU | Ok |
| 13 | Q2198-01 | BF142651.D | 06 Jun 2025 17:31 | RC/JU | Ok |
| 14 | Q2177-04 | BF142652.D | 06 Jun 2025 18:01 | RC/JU | Ok |
| 15 | Q2198-05 | BF142653.D | 06 Jun 2025 18:31 | RC/JU | Ok |
| 16 | Q2207-10 | BF142654.D | 06 Jun 2025 19:02 | RC/JU | Ok |
| 17 | Q2207-19 | BF142655.D | 06 Jun 2025 19:32 | RC/JU | Ok |
| 18 | Q2208-10 | BF142656.D | 06 Jun 2025 20:02 | RC/JU | Ok |
| 19 | Q2208-01 | BF142657.D | 06 Jun 2025 20:32 | RC/JU | Ok |
| 20 | Q2177-08 | BF142658.D | 06 Jun 2025 21:02 | RC/JU | Ok |
| 21 | Q2242-01 | BF142659.D | 06 Jun 2025 21:32 | RC/JU | Ok |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF060625

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/9/2025 11:32:18 AM | | |
| Supervise By | Jagrut | Supervise On | 6/9/2025 12:07:45 PM | | |
| SubDirectory | BF060625 | HP Acquire Method | BNA_F | HP Processing Method | bf052025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2202-03 | BF142660.D | 06 Jun 2025 22:01 | RC/JU | Dilution |
| 23 | Q2176-01 | BF142661.D | 06 Jun 2025 22:31 | RC/JU | Ok |
| 24 | Q2208-28 | BF142662.D | 06 Jun 2025 23:01 | RC/JU | Ok |
| 25 | DFTPP | BF142663.D | 07 Jun 2025 00:32 | RC/JU | Ok |
| 26 | SSTDCCC040 | BF142664.D | 07 Jun 2025 01:38 | RC/JU | Ok |
| 27 | PB168300BL | BF142665.D | 07 Jun 2025 02:08 | RC/JU | Not Ok |
| 28 | PB168300BS | BF142666.D | 07 Jun 2025 02:38 | RC/JU | Not Ok |
| 29 | Q2226-01 | BF142667.D | 07 Jun 2025 03:08 | RC/JU | ReRun |
| 30 | Q2207-01 | BF142668.D | 07 Jun 2025 03:38 | RC/JU | ReRun |
| 31 | Q2198-03 | BF142669.D | 07 Jun 2025 04:08 | RC/JU | ReRun |
| 32 | Q2176-03 | BF142670.D | 07 Jun 2025 04:38 | RC/JU | ReRun |
| 33 | Q2176-05 | BF142671.D | 07 Jun 2025 05:07 | RC/JU | ReRun |
| 34 | Q2125-07 | BF142672.D | 07 Jun 2025 05:36 | RC/JU | ReRun |
| 35 | Q2176-02 | BF142673.D | 07 Jun 2025 06:05 | RC/JU | ReRun |
| 36 | Q2227-01 | BF142674.D | 07 Jun 2025 06:35 | RC/JU | ReRun |
| 37 | Q2228-01 | BF142675.D | 07 Jun 2025 07:03 | RC/JU | ReRun |
| 38 | Q2241-01 | BF142676.D | 07 Jun 2025 07:32 | RC/JU | ReRun |
| 39 | Q2241-05 | BF142677.D | 07 Jun 2025 08:02 | RC/JU | ReRun |
| 40 | Q2244-01 | BF142678.D | 07 Jun 2025 08:31 | RC/JU | ReRun |
| 41 | Q2244-01MS | BF142679.D | 07 Jun 2025 09:00 | RC/JU | Not Ok |
| 42 | Q2244-01MSD | BF142680.D | 07 Jun 2025 09:29 | RC/JU | Not Ok |
| 43 | Q2223-01 | BF142681.D | 07 Jun 2025 09:58 | RC/JU | ReRun |
| 44 | Q2223-03 | BF142682.D | 07 Jun 2025 10:27 | RC/JU | ReRun |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF060625

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/9/2025 11:32:18 AM | | | | |
| Supervise By | Jagrut | Supervise On | 6/9/2025 12:07:45 PM | | | | |
| SubDirectory | BF060625 | HP Acquire Method | BNA_F | | HP Processing Method | bf052025 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 45 | Q2224-01 | BF142683.D | 07 Jun 2025 10:57 | RC/JU | ReRun |
| 46 | Q2225-01 | BF142684.D | 07 Jun 2025 11:26 | RC/JU | ReRun |
| 47 | Q2206-01 | BF142685.D | 07 Jun 2025 11:54 | RC/JU | ReRun |
| 48 | Q2195-01 | BF142686.D | 07 Jun 2025 12:23 | RC/JU | ReRun |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF061125

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/11/2025 9:54:45 AM | | | | |
| Supervise By | Jagrut | Supervise On | 6/11/2025 9:58:22 AM | | | | |
| SubDirectory | BF061125 | HP Acquire Method | BNA_F | | HP Processing Method | BF061125 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12668,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF142710.D | 10 Jun 2025 15:42 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF142711.D | 10 Jun 2025 16:11 | RC/JU | Not Ok |
| 3 | SSTDICC2.5 | BF142712.D | 10 Jun 2025 16:54 | RC/JU | Ok |
| 4 | SSTDICC005 | BF142713.D | 10 Jun 2025 17:24 | RC/JU | Ok |
| 5 | SSTDICC010 | BF142714.D | 10 Jun 2025 17:53 | RC/JU | Ok,M |
| 6 | SSTDICC020 | BF142715.D | 10 Jun 2025 18:22 | RC/JU | Ok |
| 7 | SSTDICCC040 | BF142716.D | 10 Jun 2025 18:52 | RC/JU | Ok |
| 8 | SSTDICC050 | BF142717.D | 10 Jun 2025 19:21 | RC/JU | Ok |
| 9 | SSTDICC060 | BF142718.D | 10 Jun 2025 19:50 | RC/JU | Ok |
| 10 | SSTDICC080 | BF142719.D | 10 Jun 2025 20:19 | RC/JU | Ok,M |
| 11 | SSTDICV040 | BF142720.D | 10 Jun 2025 20:49 | RC/JU | Ok |
| 12 | PB168323BL | BF142721.D | 10 Jun 2025 21:47 | RC/JU | Ok |
| 13 | DFTPP | BF142722.D | 11 Jun 2025 08:56 | RC/JU | Ok |
| 14 | SSTDCCC040 | BF142723.D | 11 Jun 2025 09:24 | RC/JU | Ok |
| 15 | PB168376BL | BF142724.D | 11 Jun 2025 09:53 | RC/JU | Ok |
| 16 | PB168376BS | BF142725.D | 11 Jun 2025 10:22 | RC/JU | Ok,M |
| 17 | PB168234BS | BF142726.D | 11 Jun 2025 10:51 | RC/JU | Ok,M |
| 18 | PB168285BS | BF142727.D | 11 Jun 2025 11:21 | RC/JU | Ok,M |
| 19 | PB168285BSD | BF142728.D | 11 Jun 2025 11:50 | RC/JU | Ok,M |
| 20 | PB168378BS | BF142729.D | 11 Jun 2025 12:19 | RC/JU | Ok,M |
| 21 | PB168378BSD | BF142730.D | 11 Jun 2025 12:49 | RC/JU | Ok,M |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF061125

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/11/2025 9:54:45 AM | | |
| Supervise By | Jagrut | Supervise On | 6/11/2025 9:58:22 AM | | |
| SubDirectory | BF061125 | HP Acquire Method | BNA_F | HP Processing Method | BF061125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12668,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | PB168378BL | BF142731.D | 11 Jun 2025 13:18 | RC/JU | Ok |
| 23 | Q2264-04 | BF142732.D | 11 Jun 2025 13:52 | RC/JU | Ok |
| 24 | Q2268-10 | BF142733.D | 11 Jun 2025 14:21 | RC/JU | Ok |
| 25 | Q2268-03 | BF142734.D | 11 Jun 2025 14:50 | RC/JU | Dilution |
| 26 | Q2268-04MS | BF142735.D | 11 Jun 2025 15:20 | RC/JU | Ok,M |
| 27 | Q2268-05MSD | BF142736.D | 11 Jun 2025 15:50 | RC/JU | Ok |
| 28 | Q2268-06 | BF142737.D | 11 Jun 2025 16:19 | RC/JU | Dilution |
| 29 | Q2268-07 | BF142738.D | 11 Jun 2025 16:49 | RC/JU | Dilution |
| 30 | Q2268-08 | BF142739.D | 11 Jun 2025 17:19 | RC/JU | Dilution |
| 31 | Q2273-01 | BF142740.D | 11 Jun 2025 17:49 | RC/JU | Ok |
| 32 | Q2273-05 | BF142741.D | 11 Jun 2025 18:18 | RC/JU | Ok |
| 33 | Q2273-05MS | BF142742.D | 11 Jun 2025 18:48 | RC/JU | Ok |
| 34 | Q2273-05MSD | BF142743.D | 11 Jun 2025 19:18 | RC/JU | Ok |
| 35 | Q2268-03DL | BF142744.D | 11 Jun 2025 19:48 | RC/JU | Ok |
| 36 | Q2268-03 | BF142745.D | 11 Jun 2025 20:17 | RC/JU | Not Ok |
| 37 | Q2280-01 | BF142746.D | 11 Jun 2025 20:47 | RC/JU | ReRun |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF061225

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/13/2025 8:51:32 AM | | | | |
| Supervise By | mohammad | Supervise On | 6/13/2025 9:04:03 AM | | | | |
| SubDirectory | BF061225 | HP Acquire Method | BNA_F | | HP Processing Method | BF061125 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12668,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF142747.D | 12 Jun 2025 09:21 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF142748.D | 12 Jun 2025 09:50 | RC/JU | Ok |
| 3 | PB168376BL | BF142749.D | 12 Jun 2025 10:56 | RC/JU | Ok |
| 4 | PB168259BS | BF142750.D | 12 Jun 2025 11:25 | RC/JU | Ok |
| 5 | PB168412BL | BF142751.D | 12 Jun 2025 11:54 | RC/JU | Ok |
| 6 | PB168412BS | BF142752.D | 12 Jun 2025 12:24 | RC/JU | Ok |
| 7 | Q2268-06DL | BF142753.D | 12 Jun 2025 13:00 | RC/JU | Ok |
| 8 | Q2268-07DL | BF142754.D | 12 Jun 2025 13:29 | RC/JU | Ok |
| 9 | Q2268-08DL | BF142755.D | 12 Jun 2025 13:59 | RC/JU | Ok |
| 10 | Q2280-01 | BF142756.D | 12 Jun 2025 14:29 | RC/JU | Ok,M |
| 11 | Q2176-02 | BF142757.D | 12 Jun 2025 14:58 | RC/JU | Ok |
| 12 | Q2287-01 | BF142758.D | 12 Jun 2025 15:28 | RC/JU | Ok |
| 13 | Q2296-09 | BF142759.D | 12 Jun 2025 15:57 | RC/JU | Ok |
| 14 | Q2296-09MS | BF142760.D | 12 Jun 2025 16:27 | RC/JU | Ok |
| 15 | Q2296-09MSD | BF142761.D | 12 Jun 2025 16:57 | RC/JU | Ok |
| 16 | Q2223-01 | BF142762.D | 12 Jun 2025 17:27 | RC/JU | Ok |
| 17 | Q2223-03 | BF142763.D | 12 Jun 2025 17:57 | RC/JU | Ok |
| 18 | Q2224-01 | BF142764.D | 12 Jun 2025 18:27 | RC/JU | Ok,M |
| 19 | Q2225-01 | BF142765.D | 12 Jun 2025 18:57 | RC/JU | Ok,M |
| 20 | Q2206-01 | BF142766.D | 12 Jun 2025 19:26 | RC/JU | Ok,M |
| 21 | Q2195-01 | BF142767.D | 12 Jun 2025 19:56 | RC/JU | Ok,M |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF061225

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/13/2025 8:51:32 AM | | | | |
| Supervise By | mohammad | Supervise On | 6/13/2025 9:04:03 AM | | | | |
| SubDirectory | BF061225 | HP Acquire Method | BNA_F | | HP Processing Method | BF061125 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12668,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2283-01 | BF142768.D | 12 Jun 2025 20:26 | RC/JU | Ok,M |
| 23 | Q2278-01 | BF142769.D | 12 Jun 2025 20:56 | RC/JU | Ok |
| 24 | Q2286-01 | BF142770.D | 12 Jun 2025 21:25 | RC/JU | Not Ok |

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**Instrument ID: BNA_P**

## Daily Analysis Runlog For Sequence/QCBatch ID # BP060625

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/9/2025 11:36:10 AM | | |
| Supervise By | Jagrut | Supervise On | 6/9/2025 12:09:52 PM | | |
| SubDirectory | BP060625 | HP Acquire Method | BNA_P | HP Processing Method | BP060625 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6796 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BP024859.D | 06 Jun 2025 09:49 | RC/JU | Ok |
| 2 | SSTDICC2.5 | BP024860.D | 06 Jun 2025 10:30 | RC/JU | Ok |
| 3 | SSTDICC005 | BP024861.D | 06 Jun 2025 11:11 | RC/JU | Ok,M |
| 4 | SSTDICC010 | BP024862.D | 06 Jun 2025 11:52 | RC/JU | Ok,M |
| 5 | SSTDICC020 | BP024863.D | 06 Jun 2025 12:33 | RC/JU | Ok,M |
| 6 | SSTDICCC040 | BP024864.D | 06 Jun 2025 13:14 | RC/JU | Ok |
| 7 | SSTDICC050 | BP024865.D | 06 Jun 2025 13:56 | RC/JU | Ok |
| 8 | SSTDICC060 | BP024866.D | 06 Jun 2025 14:37 | RC/JU | Ok |
| 9 | SSTDICC080 | BP024867.D | 06 Jun 2025 15:18 | RC/JU | Ok |
| 10 | SSTDICV040 | BP024868.D | 06 Jun 2025 17:09 | RC/JU | Ok,M |
| 11 | PB168259BL | BP024869.D | 06 Jun 2025 17:50 | RC/JU | Ok |

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**Instrument ID: BNA_P**

## Daily Analysis Runlog For Sequence/QCBatch ID # BP061025

| | | | | | |
|---|---|---|---|---|---|
| Review By | anahy | Review On | 6/11/2025 9:57:08 AM | | |
| Supervise By | Jagrut | Supervise On | 6/11/2025 9:57:38 AM | | |
| SubDirectory | BP061025 | HP Acquire Method | BNA_P | HP Processing Method | BP060625 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6796 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BP024887.D | 10 Jun 2025 10:12 | RC/JU | Ok |
| 2 | SSTDCCC040 | BP024888.D | 10 Jun 2025 10:53 | RC/JU | Ok |
| 3 | PB168321BL | BP024889.D | 10 Jun 2025 11:33 | RC/JU | Ok |
| 4 | PB168321BS | BP024890.D | 10 Jun 2025 12:14 | RC/JU | Ok |
| 5 | Q2266-01 | BP024891.D | 10 Jun 2025 13:02 | RC/JU | Ok |
| 6 | Q2265-01 | BP024892.D | 10 Jun 2025 13:43 | RC/JU | Ok |
| 7 | Q2266-08RE | BP024893.D | 10 Jun 2025 14:24 | RC/JU | Confirms |
| 8 | Q2176-08 | BP024894.D | 10 Jun 2025 15:05 | RC/JU | Ok |
| 9 | Q2177-02 | BP024895.D | 10 Jun 2025 15:46 | RC/JU | Dilution |
| 10 | Q2161-02 | BP024896.D | 10 Jun 2025 16:27 | RC/JU | Ok |
| 11 | Q2176-06 | BP024897.D | 10 Jun 2025 17:08 | RC/JU | Ok |
| 12 | Q2246-01 | BP024898.D | 10 Jun 2025 17:49 | RC/JU | Ok,M |
| 13 | Q2177-06 | BP024899.D | 10 Jun 2025 18:30 | RC/JU | Ok,M |
| 14 | Q2240-09 | BP024900.D | 10 Jun 2025 19:10 | RC/JU | Ok,M |
| 15 | Q2176-04 | BP024901.D | 10 Jun 2025 19:51 | RC/JU | Ok,M |
| 16 | Q2161-01 | BP024902.D | 10 Jun 2025 20:32 | RC/JU | Ok |
| 17 | Q2240-05 | BP024903.D | 10 Jun 2025 21:13 | RC/JU | Ok,M |

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**Instrument ID: BNA_P**

## Daily Analysis Runlog For Sequence/QCBatch ID # BP061125

| | | | | | |
|---|---|---|---|---|---|
| Review By | anahy | Review On | 6/12/2025 9:31:34 AM | | |
| Supervise By | mohammad | Supervise On | 6/13/2025 9:04:12 AM | | |
| SubDirectory | BP061125 | HP Acquire Method | BNA_P | HP Processing Method | BP060625 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12668,10ul/1000ul sample |
| ICV/I.BLK | SP6796 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BP024904.D | 11 Jun 2025 09:29 | RC/JU | Ok |
| 2 | SSTDCCC040 | BP024905.D | 11 Jun 2025 10:09 | RC/JU | Ok,M |
| 3 | PB168300BL | BP024906.D | 11 Jun 2025 10:50 | RC/JU | Ok |
| 4 | PB168300BS | BP024907.D | 11 Jun 2025 11:31 | RC/JU | Ok |
| 5 | Q2176-03 | BP024908.D | 11 Jun 2025 12:18 | RC/JU | Ok |
| 6 | Q2176-05 | BP024909.D | 11 Jun 2025 12:59 | RC/JU | Ok |
| 7 | Q2207-01 | BP024910.D | 11 Jun 2025 13:40 | RC/JU | Ok |
| 8 | Q2227-01 | BP024911.D | 11 Jun 2025 14:21 | RC/JU | Ok |
| 9 | Q2228-01 | BP024912.D | 11 Jun 2025 15:02 | RC/JU | Ok |
| 10 | Q2226-01 | BP024913.D | 11 Jun 2025 15:43 | RC/JU | Ok |
| 11 | Q2244-01 | BP024914.D | 11 Jun 2025 16:24 | RC/JU | Ok |
| 12 | Q2244-01MS | BP024915.D | 11 Jun 2025 17:05 | RC/JU | Ok |
| 13 | Q2244-01MSD | BP024916.D | 11 Jun 2025 17:46 | RC/JU | Ok |
| 14 | Q2177-02DL | BP024917.D | 11 Jun 2025 18:27 | RC/JU | Ok,M |
| 15 | Q2241-01 | BP024918.D | 11 Jun 2025 19:08 | RC/JU | Ok |
| 16 | Q2198-03 | BP024919.D | 11 Jun 2025 19:49 | RC/JU | Ok,M |
| 17 | Q2125-07 | BP024920.D | 11 Jun 2025 20:30 | RC/JU | Ok |
| 18 | Q2241-05 | BP024921.D | 11 Jun 2025 21:11 | RC/JU | Ok |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF052025

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 5/21/2025 2:52:20 PM | | |
| Supervise By | Jagrut | Supervise On | 5/21/2025 4:44:06 PM | | |
| SubDirectory | BF052025 | HP Acquire Method | BNA_F | HP Processing Method | bf052025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12665,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BF142465.D | 20 May 2025 11:13 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF142466.D | 20 May 2025 11:41 | Fresh Calibration Required | RC/JU | Not Ok |
| 3 | SSTDICC2.5 | SSTDICC2.5 | BF142467.D | 20 May 2025 12:10 | | RC/JU | Ok |
| 4 | SSTDICC005 | SSTDICC005 | BF142468.D | 20 May 2025 12:38 | Compound #32,54,85 removed from 5ppm | RC/JU | Ok |
| 5 | SSTDICC010 | SSTDICC010 | BF142469.D | 20 May 2025 13:07 | | RC/JU | Ok,M |
| 6 | SSTDICC020 | SSTDICC020 | BF142470.D | 20 May 2025 13:36 | | RC/JU | Ok |
| 7 | SSTDICCC040 | SSTDICCC040 | BF142471.D | 20 May 2025 14:05 | This calibration is good for both the methods, 8270E DOD and 625.1. | RC/JU | Ok |
| 8 | SSTDICC050 | SSTDICC050 | BF142472.D | 20 May 2025 14:34 | | RC/JU | Ok |
| 9 | SSTDICC060 | SSTDICC060 | BF142473.D | 20 May 2025 15:03 | | RC/JU | Ok |
| 10 | SSTDICC080 | SSTDICC080 | BF142474.D | 20 May 2025 15:31 | | RC/JU | Ok |
| 11 | SSTDICV040 | ICVBF052025 | BF142475.D | 20 May 2025 16:31 | | RC/JU | Ok |
| 12 | PB168067TB | PB168067TB | BF142476.D | 20 May 2025 17:29 | | RC/JU | Ok |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF060525

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/6/2025 12:18:39 PM | | |
| Supervise By | Jagrut | Supervise On | 6/6/2025 1:17:23 PM | | |
| SubDirectory | BF060525 | HP Acquire Method | BNA_F | HP Processing Method | bf052025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BF142624.D | 05 Jun 2025 09:07 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF142625.D | 05 Jun 2025 09:37 | | RC/JU | Ok |
| 3 | PB168285BL | PB168285BL | BF142626.D | 05 Jun 2025 11:04 | | RC/JU | Ok |
| 4 | Q2181-02 | 38073-032124 | BF142627.D | 05 Jun 2025 11:35 | PT Sample | RC/JU | Ok |
| 5 | Q2194-03 | COMP-13 | BF142628.D | 05 Jun 2025 12:08 | | RC/JU | Ok |
| 6 | Q2194-03MS | COMP-13MS | BF142629.D | 05 Jun 2025 12:38 | | RC/JU | Ok,M |
| 7 | Q2194-03MSD | COMP-13MSD | BF142630.D | 05 Jun 2025 13:07 | | RC/JU | Ok,M |
| 8 | Q2185-05 | TP01-MHA-WC | BF142631.D | 05 Jun 2025 13:37 | | RC/JU | Ok |
| 9 | Q2194-01 | COMP-12 | BF142632.D | 05 Jun 2025 14:07 | | RC/JU | Ok |
| 10 | Q2199-01 | ETGI-343 | BF142633.D | 05 Jun 2025 14:37 | | RC/JU | Ok,M |
| 11 | Q2199-03 | VNJ-231 | BF142634.D | 05 Jun 2025 15:06 | | RC/JU | Ok,M |
| 12 | Q2199-05 | 72-11978 | BF142635.D | 05 Jun 2025 15:36 | | RC/JU | Ok,M |
| 13 | Q2178-01DL | RT2929DL | BF142636.D | 05 Jun 2025 16:07 | Internal Standard Fail, Need furthed 2X dilution | RC/JU | Dilution |
| 14 | Q2178-01DL2 | RT2929DL2 | BF142637.D | 05 Jun 2025 16:38 | Internal Standard Fail | RC/JU | Ok,M |
| 15 | SSTDCCC040 | SSTDCCC040EC | BF142638.D | 05 Jun 2025 17:18 | | RC/JU | Ok |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF060625

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/9/2025 11:32:18 AM | | |
| Supervise By | Jagrut | Supervise On | 6/9/2025 12:07:45 PM | | |
| SubDirectory | BF060625 | HP Acquire Method | BNA_F | HP Processing Method | bf052025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BF142639.D | 06 Jun 2025 11:01 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF142640.D | 06 Jun 2025 11:36 | | RC/JU | Ok |
| 3 | PB168259BL | PB168259BL | BF142641.D | 06 Jun 2025 12:06 | | RC/JU | Ok |
| 4 | Q2185-01 | TP02-MHB-WC | BF142642.D | 06 Jun 2025 12:54 | | RC/JU | Ok |
| 5 | Q2207-37 | BU-703-COMP-05 | BF142643.D | 06 Jun 2025 13:24 | | RC/JU | Ok |
| 6 | Q2207-37MS | BU-703-COMP-05MS | BF142644.D | 06 Jun 2025 13:54 | | RC/JU | Ok |
| 7 | Q2207-37MSD | BU-703-COMP-05MSD | BF142645.D | 06 Jun 2025 14:25 | | RC/JU | Ok |
| 8 | Q2219-01 | 72-11995 | BF142646.D | 06 Jun 2025 14:58 | | RC/JU | Ok,M |
| 9 | Q2214-01 | RBR251425 | BF142647.D | 06 Jun 2025 15:29 | | RC/JU | Ok |
| 10 | Q2208-19 | BU-703-COMP-08 | BF142648.D | 06 Jun 2025 16:00 | | RC/JU | Ok |
| 11 | Q2207-28 | BU-703-COMP-04 | BF142649.D | 06 Jun 2025 16:30 | | RC/JU | Ok |
| 12 | Q2176-07 | TP-31 | BF142650.D | 06 Jun 2025 17:01 | | RC/JU | Ok |
| 13 | Q2198-01 | B-202-SB02 | BF142651.D | 06 Jun 2025 17:31 | | RC/JU | Ok |
| 14 | Q2177-04 | B-187-SB02 | BF142652.D | 06 Jun 2025 18:01 | | RC/JU | Ok |
| 15 | Q2198-05 | B-202-GW01 | BF142653.D | 06 Jun 2025 18:31 | | RC/JU | Ok |
| 16 | Q2207-10 | BU-703-COMP-02 | BF142654.D | 06 Jun 2025 19:02 | | RC/JU | Ok |
| 17 | Q2207-19 | BU-703-COMP-03 | BF142655.D | 06 Jun 2025 19:32 | | RC/JU | Ok |
| 18 | Q2208-10 | BU-703-COMP-07 | BF142656.D | 06 Jun 2025 20:02 | | RC/JU | Ok |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF060625

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/9/2025 11:32:18 AM | | |
| Supervise By | Jagrut | Supervise On | 6/9/2025 12:07:45 PM | | |
| SubDirectory | BF060625 | HP Acquire Method | BNA_F | HP Processing Method | bf052025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2208-01 | BU-703-COMP-06 | BF142657.D | 06 Jun 2025 20:32 | | RC/JU | Ok |
| 20 | Q2177-08 | EB05312025 | BF142658.D | 06 Jun 2025 21:02 | | RC/JU | Ok |
| 21 | Q2242-01 | TP09-MHJ | BF142659.D | 06 Jun 2025 21:32 | | RC/JU | Ok |
| 22 | Q2202-03 | MW-12-20250603 | BF142660.D | 06 Jun 2025 22:01 | Need 10X Dilution | RC/JU | Dilution |
| 23 | Q2176-01 | TP-46 | BF142661.D | 06 Jun 2025 22:31 | | RC/JU | Ok |
| 24 | Q2208-28 | BU-703-COMP-09 | BF142662.D | 06 Jun 2025 23:01 | | RC/JU | Ok |
| 25 | DFTPP | DFTPP | BF142663.D | 07 Jun 2025 00:32 | | RC/JU | Ok |
| 26 | SSTDCCC040 | SSTDCCC040 | BF142664.D | 07 Jun 2025 01:38 | CCC fail high for compounds #41,54,56,70,84 and failed low for compounds # 78,79,87,91,92. | RC/JU | Ok |
| 27 | PB168300BL | PB168300BL | BF142665.D | 07 Jun 2025 02:08 | CCC fail low for compound # 78,79,87,91,92. | RC/JU | Not Ok |
| 28 | PB168300BS | PB168300BS | BF142666.D | 07 Jun 2025 02:38 | CCC fail low for compound # 78,79,87,91,92. Also #92 Recovery fail low side. | RC/JU | Not Ok |
| 29 | Q2226-01 | TP06-MHI-WC | BF142667.D | 07 Jun 2025 03:08 | CCC fail low for compound # 78,79,87,91,92. | RC/JU | ReRun |
| 30 | Q2207-01 | BU-703-COMP-01 | BF142668.D | 07 Jun 2025 03:38 | CCC fail low for compound # 78,79,87,91,92. | RC/JU | ReRun |
| 31 | Q2198-03 | B-207-SB02 | BF142669.D | 07 Jun 2025 04:08 | CCC fail low for compound # 78,79,87,91,92. | RC/JU | ReRun |
| 32 | Q2176-03 | TP-25 | BF142670.D | 07 Jun 2025 04:38 | CCC fail low for compound # 78,79,87,91,92. | RC/JU | ReRun |
| 33 | Q2176-05 | TP-28 | BF142671.D | 07 Jun 2025 05:07 | CCC fail low for compound # 78,79,87,91,92. | RC/JU | ReRun |
| 34 | Q2125-07 | GSB3 | BF142672.D | 07 Jun 2025 05:36 | CCC fail low for compound #79 | RC/JU | ReRun |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF060625

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/9/2025 11:32:18 AM | | |
| Supervise By | Jagrut | Supervise On | 6/9/2025 12:07:45 PM | | |
| SubDirectory | BF060625 | HP Acquire Method | BNA_F | HP Processing Method | bf052025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 35 | Q2176-02 | TP-56 | BF142673.D | 07 Jun 2025 06:05 | CCC fail low for compound # 78,79,87,91,92. | RC/JU | ReRun |
| 36 | Q2227-01 | TP07-MHH-WC | BF142674.D | 07 Jun 2025 06:35 | CCC fail low for compound # 78,79,87,91,92. | RC/JU | ReRun |
| 37 | Q2228-01 | TP08-MHI-WC | BF142675.D | 07 Jun 2025 07:03 | CCC fail low for compound # 78,79,87,91,92. | RC/JU | ReRun |
| 38 | Q2241-01 | TP-N | BF142676.D | 07 Jun 2025 07:32 | CCC fail low for compound # 78,79,87,91,92. | RC/JU | ReRun |
| 39 | Q2241-05 | TP-S | BF142677.D | 07 Jun 2025 08:02 | CCC fail low for compound # 78,79,87,91,92. | RC/JU | ReRun |
| 40 | Q2244-01 | TP03-MHC | BF142678.D | 07 Jun 2025 08:31 | CCC fail low for compound # 78,79,87,91,92. | RC/JU | ReRun |
| 41 | Q2244-01MS | TP03-MHCMS | BF142679.D | 07 Jun 2025 09:00 | CCC fail low for compound # 78,79,87,91,92. | RC/JU | Not Ok |
| 42 | Q2244-01MSD | TP03-MHCMSD | BF142680.D | 07 Jun 2025 09:29 | CCC fail low for compound # 78,79,87,91,92. | RC/JU | Not Ok |
| 43 | Q2223-01 | HR-01-06042025 | BF142681.D | 07 Jun 2025 09:58 | CCC fail low for compound # 78,79,87,91,92. Need Straight Run | RC/JU | ReRun |
| 44 | Q2223-03 | HR-04-06042025 | BF142682.D | 07 Jun 2025 10:27 | CCC fail low for compound # 78,79,87,91,92. Need Straight Run | RC/JU | ReRun |
| 45 | Q2224-01 | EO-01-06042025 | BF142683.D | 07 Jun 2025 10:57 | CCC fail low for compound # 78,79,87,91,92. | RC/JU | ReRun |
| 46 | Q2225-01 | SU-03-06042025 | BF142684.D | 07 Jun 2025 11:26 | CCC fail low for compound # 78,79,87,91,92. Internal Standard Fail | RC/JU | ReRun |
| 47 | Q2206-01 | TP-1 | BF142685.D | 07 Jun 2025 11:54 | CCC fail low for compound # 78,79,87,91,92. Need Straight Run | RC/JU | ReRun |
| 48 | Q2195-01 | OK-01-060325 | BF142686.D | 07 Jun 2025 12:23 | CCC fail low for compound # 78,79,87,91,92. Internal Standard Fail | RC/JU | ReRun |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF060625

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/9/2025 11:32:18 AM | | |
| Supervise By | Jagrut | Supervise On | 6/9/2025 12:07:45 PM | | |
| SubDirectory | BF060625 | HP Acquire Method | BNA_F | HP Processing Method | bf052025 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF061125

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/11/2025 9:54:45 AM | | |
| Supervise By | Jagrut | Supervise On | 6/11/2025 9:58:22 AM | | |
| SubDirectory | BF061125 | HP Acquire Method | BNA_F | HP Processing Method | BF061125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12668,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BF142710.D | 10 Jun 2025 15:42 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF142711.D | 10 Jun 2025 16:11 | A Fresh Calibration is required. | RC/JU | Not Ok |
| 3 | SSTDICC2.5 | SSTDICC2.5 | BF142712.D | 10 Jun 2025 16:54 | | RC/JU | Ok |
| 4 | SSTDICC005 | SSTDICC005 | BF142713.D | 10 Jun 2025 17:24 | | RC/JU | Ok |
| 5 | SSTDICC010 | SSTDICC010 | BF142714.D | 10 Jun 2025 17:53 | | RC/JU | Ok,M |
| 6 | SSTDICC020 | SSTDICC020 | BF142715.D | 10 Jun 2025 18:22 | | RC/JU | Ok |
| 7 | SSTDICCC040 | SSTDICCC040 | BF142716.D | 10 Jun 2025 18:52 | Calibration is Good for 8270 E, 8270 DOD and 625.1 methods. | RC/JU | Ok |
| 8 | SSTDICC050 | SSTDICC050 | BF142717.D | 10 Jun 2025 19:21 | | RC/JU | Ok |
| 9 | SSTDICC060 | SSTDICC060 | BF142718.D | 10 Jun 2025 19:50 | | RC/JU | Ok |
| 10 | SSTDICC080 | SSTDICC080 | BF142719.D | 10 Jun 2025 20:19 | Compound #09 removed from 80 PPM. | RC/JU | Ok,M |
| 11 | SSTDICV040 | ICVBF061125 | BF142720.D | 10 Jun 2025 20:49 | | RC/JU | Ok |
| 12 | PB168323BL | PB168323BL | BF142721.D | 10 Jun 2025 21:47 | | RC/JU | Ok |
| 13 | DFTPP | DFTPP | BF142722.D | 11 Jun 2025 08:56 | | RC/JU | Ok |
| 14 | SSTDCCC040 | SSTDCCC040 | BF142723.D | 11 Jun 2025 09:24 | | RC/JU | Ok |
| 15 | PB168376BL | PB168376BL | BF142724.D | 11 Jun 2025 09:53 | | RC/JU | Ok |
| 16 | PB168376BS | PB168376BS | BF142725.D | 11 Jun 2025 10:22 | | RC/JU | Ok,M |
| 17 | PB168234BS | PB168234BS | BF142726.D | 11 Jun 2025 10:51 | | RC/JU | Ok,M |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF061125

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/11/2025 9:54:45 AM | | |
| Supervise By | Jagrut | Supervise On | 6/11/2025 9:58:22 AM | | |
| SubDirectory | BF061125 | HP Acquire Method | BNA_F | HP Processing Method | BF061125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12668,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | PB168285BS | PB168285BS | BF142727.D | 11 Jun 2025 11:21 | | RC/JU | Ok,M |
| 19 | PB168285BSD | PB168285BSD | BF142728.D | 11 Jun 2025 11:50 | | RC/JU | Ok,M |
| 20 | PB168378BS | PB168378BS | BF142729.D | 11 Jun 2025 12:19 | | RC/JU | Ok,M |
| 21 | PB168378BSD | PB168378BSD | BF142730.D | 11 Jun 2025 12:49 | | RC/JU | Ok,M |
| 22 | PB168378BL | PB168378BL | BF142731.D | 11 Jun 2025 13:18 | | RC/JU | Ok |
| 23 | Q2264-04 | EF-WW | BF142732.D | 11 Jun 2025 13:52 | Surrogate and Internal Standard Failed | RC/JU | Ok |
| 24 | Q2268-10 | FB-20250605 | BF142733.D | 11 Jun 2025 14:21 | | RC/JU | Ok |
| 25 | Q2268-03 | MW-2-20250605 | BF142734.D | 11 Jun 2025 14:50 | Need 2X Dilution | RC/JU | Dilution |
| 26 | Q2268-04MS | MW-2-20250605MS | BF142735.D | 11 Jun 2025 15:20 | | RC/JU | Ok,M |
| 27 | Q2268-05MSD | MW-2-20250605MSD | BF142736.D | 11 Jun 2025 15:50 | | RC/JU | Ok |
| 28 | Q2268-06 | MW-2-20250605-A | BF142737.D | 11 Jun 2025 16:19 | Need 2X Dilution | RC/JU | Dilution |
| 29 | Q2268-07 | MW-6-20250605 | BF142738.D | 11 Jun 2025 16:49 | Internal Standard Fail, Need 2X Dilution | RC/JU | Dilution |
| 30 | Q2268-08 | MW-3-20250605 | BF142739.D | 11 Jun 2025 17:19 | Internal Standard Fail, Need 2X Dilution | RC/JU | Dilution |
| 31 | Q2273-01 | WC-4 | BF142740.D | 11 Jun 2025 17:49 | | RC/JU | Ok |
| 32 | Q2273-05 | WC-6 | BF142741.D | 11 Jun 2025 18:18 | | RC/JU | Ok |
| 33 | Q2273-05MS | WC-6MS | BF142742.D | 11 Jun 2025 18:48 | | RC/JU | Ok |
| 34 | Q2273-05MSD | WC-6MSD | BF142743.D | 11 Jun 2025 19:18 | | RC/JU | Ok |
| 35 | Q2268-03DL | MW-2-20250605DL | BF142744.D | 11 Jun 2025 19:48 | | RC/JU | Ok |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF061125

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/11/2025 9:54:45 AM | | |
| Supervise By | Jagrut | Supervise On | 6/11/2025 9:58:22 AM | | |
| SubDirectory | BF061125 | HP Acquire Method | BNA_F | HP Processing Method | BF061125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12668,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 36 | Q2268-03 | MW-2-20250605 | BF142745.D | 11 Jun 2025 20:17 | Already analyzed with OK status | RC/JU | Not Ok |
| 37 | Q2280-01 | VNJ-210 | BF142746.D | 11 Jun 2025 20:47 | Internal standard fail | RC/JU | ReRun |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF061225

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/13/2025 8:51:32 AM | | |
| Supervise By | mohammad | Supervise On | 6/13/2025 9:04:03 AM | | |
| SubDirectory | BF061225 | HP Acquire Method | BNA_F | HP Processing Method | BF061125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12668,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BF142747.D | 12 Jun 2025 09:21 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF142748.D | 12 Jun 2025 09:50 | | RC/JU | Ok |
| 3 | PB168376BL | PB168376BL | BF142749.D | 12 Jun 2025 10:56 | | RC/JU | Ok |
| 4 | PB168259BS | PB168259BS | BF142750.D | 12 Jun 2025 11:25 | | RC/JU | Ok |
| 5 | PB168412BL | PB168412BL | BF142751.D | 12 Jun 2025 11:54 | | RC/JU | Ok |
| 6 | PB168412BS | PB168412BS | BF142752.D | 12 Jun 2025 12:24 | | RC/JU | Ok |
| 7 | Q2268-06DL | MW-2-20250605-ADL | BF142753.D | 12 Jun 2025 13:00 | | RC/JU | Ok |
| 8 | Q2268-07DL | MW-6-20250605DL | BF142754.D | 12 Jun 2025 13:29 | | RC/JU | Ok |
| 9 | Q2268-08DL | MW-3-20250605DL | BF142755.D | 12 Jun 2025 13:59 | | RC/JU | Ok |
| 10 | Q2280-01 | VNJ-210 | BF142756.D | 12 Jun 2025 14:29 | | RC/JU | Ok,M |
| 11 | Q2176-02 | TP-56 | BF142757.D | 12 Jun 2025 14:58 | | RC/JU | Ok |
| 12 | Q2287-01 | CONCRETE-SLAB | BF142758.D | 12 Jun 2025 15:28 | | RC/JU | Ok |
| 13 | Q2296-09 | WC-3 | BF142759.D | 12 Jun 2025 15:57 | | RC/JU | Ok |
| 14 | Q2296-09MS | WC-3MS | BF142760.D | 12 Jun 2025 16:27 | | RC/JU | Ok |
| 15 | Q2296-09MSD | WC-3MSD | BF142761.D | 12 Jun 2025 16:57 | | RC/JU | Ok |
| 16 | Q2223-01 | HR-01-06042025 | BF142762.D | 12 Jun 2025 17:27 | | RC/JU | Ok |
| 17 | Q2223-03 | HR-04-06042025 | BF142763.D | 12 Jun 2025 17:57 | | RC/JU | Ok |
| 18 | Q2224-01 | EO-01-06042025 | BF142764.D | 12 Jun 2025 18:27 | | RC/JU | Ok,M |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF061225

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/13/2025 8:51:32 AM | | |
| Supervise By | mohammad | Supervise On | 6/13/2025 9:04:03 AM | | |
| SubDirectory | BF061225 | HP Acquire Method | BNA_F | HP Processing Method | BF061125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12668,10ul/1000ul sample |
| ICV/I.BLK | SP6770 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2225-01 | SU-03-06042025 | BF142765.D | 12 Jun 2025 18:57 | | RC/JU | Ok,M |
| 20 | Q2206-01 | TP-1 | BF142766.D | 12 Jun 2025 19:26 | | RC/JU | Ok,M |
| 21 | Q2195-01 | OK-01-060325 | BF142767.D | 12 Jun 2025 19:56 | | RC/JU | Ok,M |
| 22 | Q2283-01 | MOO-25-0166-MOO-25 | BF142768.D | 12 Jun 2025 20:26 | | RC/JU | Ok,M |
| 23 | Q2278-01 | TP-2 | BF142769.D | 12 Jun 2025 20:56 | | RC/JU | Ok |
| 24 | Q2286-01 | LAW-25-0082-LAW-250 | BF142770.D | 12 Jun 2025 21:25 | Out of Tune time. | RC/JU | Not Ok |

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**Instrument ID:** BNA_P

## Daily Analysis Runlog For Sequence/QCBatch ID # BP060625

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/9/2025 11:36:10 AM | | |
| Supervise By | Jagrut | Supervise On | 6/9/2025 12:09:52 PM | | |
| SubDirectory | BP060625 | HP Acquire Method | BNA_P | HP Processing Method | BP060625 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6796 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BP024859.D | 06 Jun 2025 09:49 | | RC/JU | Ok |
| 2 | SSTDICC2.5 | SSTDICC2.5 | BP024860.D | 06 Jun 2025 10:30 | | RC/JU | Ok |
| 3 | SSTDICC005 | SSTDICC005 | BP024861.D | 06 Jun 2025 11:11 | | RC/JU | Ok,M |
| 4 | SSTDICC010 | SSTDICC010 | BP024862.D | 06 Jun 2025 11:52 | | RC/JU | Ok,M |
| 5 | SSTDICC020 | SSTDICC020 | BP024863.D | 06 Jun 2025 12:33 | Calibration is Good for 8270 E, 8270 DOD and 625.1 methods. | RC/JU | Ok,M |
| 6 | SSTDICCC040 | SSTDICCC040 | BP024864.D | 06 Jun 2025 13:14 | Compound#54 & 56 are Kept on LR | RC/JU | Ok |
| 7 | SSTDICC050 | SSTDICC050 | BP024865.D | 06 Jun 2025 13:56 | | RC/JU | Ok |
| 8 | SSTDICC060 | SSTDICC060 | BP024866.D | 06 Jun 2025 14:37 | | RC/JU | Ok |
| 9 | SSTDICC080 | SSTDICC080 | BP024867.D | 06 Jun 2025 15:18 | | RC/JU | Ok |
| 10 | SSTDICV040 | ICVBP060625 | BP024868.D | 06 Jun 2025 17:09 | | RC/JU | Ok,M |
| 11 | PB168259BL | PB168259BL | BP024869.D | 06 Jun 2025 17:50 | | RC/JU | Ok |

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**Instrument ID:** BNA_P

## Daily Analysis Runlog For Sequence/QCBatch ID # BP061025

| | | | | | |
|---|---|---|---|---|---|
| Review By | anahy | Review On | 6/11/2025 9:57:08 AM | | |
| Supervise By | Jagrut | Supervise On | 6/11/2025 9:57:38 AM | | |
| SubDirectory | BP061025 | HP Acquire Method | BNA_P | HP Processing Method | BP060625 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6796 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BP024887.D | 10 Jun 2025 10:12 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BP024888.D | 10 Jun 2025 10:53 | | RC/JU | Ok |
| 3 | PB168321BL | PB168321BL | BP024889.D | 10 Jun 2025 11:33 | | RC/JU | Ok |
| 4 | PB168321BS | PB168321BS | BP024890.D | 10 Jun 2025 12:14 | | RC/JU | Ok |
| 5 | Q2266-01 | WC-3 | BP024891.D | 10 Jun 2025 13:02 | | RC/JU | Ok |
| 6 | Q2265-01 | TP11-MHL-WC | BP024892.D | 10 Jun 2025 13:43 | | RC/JU | Ok |
| 7 | Q2266-08RE | WC-5RE | BP024893.D | 10 Jun 2025 14:24 | Internal Standard Fail and Surrogate fail | RC/JU | Confirms |
| 8 | Q2176-08 | TP-65 | BP024894.D | 10 Jun 2025 15:05 | | RC/JU | Ok |
| 9 | Q2177-02 | B-187-SB01 | BP024895.D | 10 Jun 2025 15:46 | Need 5X Dilution | RC/JU | Dilution |
| 10 | Q2161-02 | B28-SOIL-SAMPLE | BP024896.D | 10 Jun 2025 16:27 | Surrogate Fail | RC/JU | Ok |
| 11 | Q2176-06 | TP-27 | BP024897.D | 10 Jun 2025 17:08 | | RC/JU | Ok |
| 12 | Q2246-01 | BU-03-060525 | BP024898.D | 10 Jun 2025 17:49 | | RC/JU | Ok,M |
| 13 | Q2177-06 | B-202-SB01 | BP024899.D | 10 Jun 2025 18:30 | | RC/JU | Ok,M |
| 14 | Q2240-09 | TP-1 | BP024900.D | 10 Jun 2025 19:10 | | RC/JU | Ok,M |
| 15 | Q2176-04 | TP-26 | BP024901.D | 10 Jun 2025 19:51 | | RC/JU | Ok,M |
| 16 | Q2161-01 | B27-SOIL-SAMPLE | BP024902.D | 10 Jun 2025 20:32 | | RC/JU | Ok |
| 17 | Q2240-05 | TP-2 | BP024903.D | 10 Jun 2025 21:13 | | RC/JU | Ok,M |

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**Instrument ID:** BNA_P

## Daily Analysis Runlog For Sequence/QCBatch ID # BP061125

| | | | | | |
|---|---|---|---|---|---|
| Review By | anahy | Review On | 6/12/2025 9:31:34 AM | | |
| Supervise By | mohammad | Supervise On | 6/13/2025 9:04:12 AM | | |
| SubDirectory | BP061125 | HP Acquire Method | BNA_P | HP Processing Method | BP060625 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12668,10ul/1000ul sample |
| ICV/I.BLK | SP6796 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BP024904.D | 11 Jun 2025 09:29 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BP024905.D | 11 Jun 2025 10:09 | | RC/JU | Ok,M |
| 3 | PB168300BL | PB168300BL | BP024906.D | 11 Jun 2025 10:50 | | RC/JU | Ok |
| 4 | PB168300BS | PB168300BS | BP024907.D | 11 Jun 2025 11:31 | | RC/JU | Ok |
| 5 | Q2176-03 | TP-25 | BP024908.D | 11 Jun 2025 12:18 | | RC/JU | Ok |
| 6 | Q2176-05 | TP-28 | BP024909.D | 11 Jun 2025 12:59 | | RC/JU | Ok |
| 7 | Q2207-01 | BU-703-COMP-01 | BP024910.D | 11 Jun 2025 13:40 | | RC/JU | Ok |
| 8 | Q2227-01 | TP07-MHH-WC | BP024911.D | 11 Jun 2025 14:21 | | RC/JU | Ok |
| 9 | Q2228-01 | TP08-MHI-WC | BP024912.D | 11 Jun 2025 15:02 | | RC/JU | Ok |
| 10 | Q2226-01 | TP06-MHI-WC | BP024913.D | 11 Jun 2025 15:43 | | RC/JU | Ok |
| 11 | Q2244-01 | TP03-MHC | BP024914.D | 11 Jun 2025 16:24 | | RC/JU | Ok |
| 12 | Q2244-01MS | TP03-MHCMS | BP024915.D | 11 Jun 2025 17:05 | | RC/JU | Ok |
| 13 | Q2244-01MSD | TP03-MHCMSD | BP024916.D | 11 Jun 2025 17:46 | | RC/JU | Ok |
| 14 | Q2177-02DL | B-187-SB01DL | BP024917.D | 11 Jun 2025 18:27 | | RC/JU | Ok,M |
| 15 | Q2241-01 | TP-N | BP024918.D | 11 Jun 2025 19:08 | | RC/JU | Ok |
| 16 | Q2198-03 | B-207-SB02 | BP024919.D | 11 Jun 2025 19:49 | | RC/JU | Ok,M |
| 17 | Q2125-07 | GSB3 | BP024920.D | 11 Jun 2025 20:30 | | RC/JU | Ok |
| 18 | Q2241-05 | TP-S | BP024921.D | 11 Jun 2025 21:11 | | RC/JU | Ok |

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**Instrument ID:** BNA_P

## Daily Analysis Runlog For Sequence/QCBatch ID # BP061125

| | | | | | |
|---|---|---|---|---|---|
| Review By | anahy | Review On | 6/12/2025 9:31:34 AM | | |
| Supervise By | mohammad | Supervise On | 6/13/2025 9:04:12 AM | | |
| SubDirectory | BP061125 | HP Acquire Method | BNA_P | HP Processing Method | BP060625 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12668,10ul/1000ul sample |
| ICV/I.BLK | SP6796 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

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Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB168259

| | | | | | |
|---|---|---|---|---|---|
| **SOP ID:** | M3541-ASE Extraction-14 | | | | |
| **Clean Up SOP #:** | N/A | | | **Extraction Start Date :** | 06/04/2025 |
| **Matrix :** | Solid | | | **Extraction Start Time :** | 12:45 |
| **Weigh By:** | EH | **Extraction By:** | RJ | **Extraction End Date :** | 06/04/2025 |
| **Balance check:** | RJ | **Filter By:** | RJ | **Extraction End Time :** | 15:55 |
| **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 | SP6794 |
| Surrogate | 1.0ML | 100/150 PPM | SP6754 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| MeCl2/Acetone/1:1 | N/A | EP2612 |
| Baked Na2SO4 | N/A | EP2620 |
| Sand | N/A | E2865 |
| Methylene Chloride | N/A | E3939 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| 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 Vail Lot # 2210443.

| | | | |
|---|---|---|---|
| **KD Bath ID:** | N/A | **Envap ID:** | NEVAP-02 |
| **KD Bath Temperature:** | N/A | **Envap Temperature:** | 40 °C |

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 6/4/25 | RS (Ext-lab) | RC/SVOC |
| 16:00 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB168259**

**Analytical Method:** M3541-ASE Extraction-14

**Concentration Date:** 06/04/2025

| Sample ID | Client Sample ID | Test | g/mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB168259BL | SBLK259 | SVOC-TCL BNA -20 | 30.01 | N/A | ritesh | Evelyn | 1 | | | U6-1 |
| PB168259BS | SLCS259 | SVOC-TCL BNA -20 | 30.03 | N/A | ritesh | Evelyn | 1 | | | 2 |
| Q2177-02 | B-187-SB01 | SVOC-TCL BNA -20 | 30.06 | N/A | ritesh | Evelyn | 1 | F | | 3 |
| Q2177-04 | B-187-SB02 | SVOC-TCL BNA -20 | 30.02 | N/A | ritesh | Evelyn | 1 | F | | 4 |
| Q2177-06 | B-202-SB01 | SVOC-TCL BNA -20 | 30.08 | N/A | ritesh | Evelyn | 1 | F | | 5 |
| Q2178-01 | RT2929 | SVOC-PAH | 50.02 | N/A | ritesh | Evelyn | 1 | B | Concete | 6 |
| Q2182-01 | OR-03-06022025 | SVOC-TCL BNA -20 | 50.05 | N/A | ritesh | Evelyn | 1 | E | | U1-1 |
| Q2194-01 | COMP-12 | SVOC-TCL BNA -20 | 50.09 | N/A | ritesh | Evelyn | 1 | D | | 2 |
| Q2194-03 | COMP-13 | SVOC-TCL BNA -20 | 50.03 | N/A | ritesh | Evelyn | 1 | D | | 3 |
| Q2194-03MS | COMP-13MS | SVOC-TCL BNA -20 | 50.06 | N/A | ritesh | Evelyn | 1 | D | | 4 |
| Q2194-03MSD | COMP-13MSD | SVOC-TCL BNA -20 | 50.08 | N/A | ritesh | Evelyn | 1 | D | | 5 |
| Q2195-01 | OK-01-060325 | SVOC-TCL BNA -20 | 50.01 | N/A | ritesh | Evelyn | 1 | E | | 6 |
| Q2199-01 | ETGI-343 | SVOC-TCL BNA -20 | 50.04 | N/A | ritesh | Evelyn | 1 | E | | U2-1 |
| Q2199-03 | VNJ-231 | SVOC-TCL BNA -20 | 50.08 | N/A | ritesh | Evelyn | 1 | E | | 2 |
| Q2199-05 | 72-11978 | SVOC-TCL BNA -20 | 50.05 | N/A | ritesh | Evelyn | 1 | E | | 3 |

RS
6/4

* **Extracts relinguished on the same date as received.**

189259 12:45

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q2199 **WorkList ID :** 189935 **Department :** Extraction **Date :** 06-04-2025 12:40:43

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2177-02 | B-187-SB01 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 8270E |
| Q2177-04 | B-187-SB02 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 8270E |
| Q2177-06 | B-202-SB01 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 8270E |
| Q2178-01 | RT2929 | Solid | SVOC-PAH | Cool 4 deg C | PSEG03 | L41 | 06/02/2025 | 8270E |
| Q2182-01 | OR-03-06022025 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG05 | N11 | 06/02/2025 | 8270E |
| Q2194-01 | COMP-12 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | L31 | 06/03/2025 | 8270E |
| Q2194-03 | COMP-13 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | L31 | 06/03/2025 | 8270E |
| Q2195-01 | OK-01-060325 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG05 | L31 | 06/03/2025 | 8270E |
| Q2199-01 | ETGI-343 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | N31 | 06/03/2025 | 8270E |
| Q2199-03 | VNJ-231 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | N31 | 06/03/2025 | 8270E |
| Q2199-05 | 72-11978 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | N31 | 06/03/2025 | 8270E |

**Date/Time** 6/4/25 12:40

**Raw Sample Received by:** RJ (Ext-Lab)

**Raw Sample Relinquished by:** RM SM



**Date/Time** 6/4/25 13:10

**Raw Sample Received by:** RM SM

**Raw Sample Relinquished by:** RJ (Ext-Lab)

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB168285

**SOP ID:** M3510C,3580A-Extraction SVOC-20

**Clean Up SOP #:** N/A

**Matrix :** Water

**Weigh By:** N/A

**Balance check:** N/A

**Balance ID:** N/A

**pH Strip Lot#:** E3880

**Extraction By:** RS

**Filter By:** RJ

**pH Meter ID:** N/A

**Hood ID:** 4,6,7

**Extraction Start Date :** 06/04/2025

**Extraction Start Time :** 11:45

**Extraction End Date :** 06/04/2025

**Extraction End Time :** 16:40

**Concentration By:** EH

**Supervisor By :** RUPESH

**Extraction Method:** [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 50/100 PPM | SP6794 |
| Surrogate | 1.0ML | 100/150 PPM | SP6754 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Methylene Chloride | N/A | E3939 |
| Baked Na2SO4 | N/A | EP2620 |
| 10N NaoH | N/A | EP2609 |
| H2SO4 1:1 | N/A | EP2610 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH, Q2177-08 Split volume.

**KD Bath ID:** WATER BATH-1,2

**KD Bath Temperature:** 60 °C

**Envap ID:** NEVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 6/4/25 | RS (Ext lab) | RC/SVOC |
| 16:45 | **Preparation Group** | **Analysis Group** |

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**EXTRACTION LOGPAGE**

**PrepBatch ID : PB168285**

**Analytical Method:** M3510C,3580A-Extraction SVOC-20 **Concentration Date:** 06/04/2025

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB168285BL | SBLK285 | SVOC-TCL BNA -20 | 1000 | 6 | RUPESH | ritesh | 1 | | | SEP-1 |
| PB168285BS | SLCS285 | SVOC-TCL BNA -20 | 1000 | 6 | RUPESH | ritesh | 1 | | | 2 |
| PB168285BSD | SLCSD285 | SVOC-TCL BNA -20 | 1000 | 6 | RUPESH | ritesh | 1 | | | 3 |
| Q2177-08 | EB05312025 | SVOC-TCL BNA -20 | 490 | 6 | RUPESH | ritesh | 0.5 | F | | 4 |
| Q2181-02 | 38073-032124 | SVOCMS Group2 | 1000 | 6 | RUPESH | ritesh | 1 | | | 5 |
| Q2198-05 | B-202-GW01 | SVOC-TCL BNA -20 | 990 | 6 | RUPESH | ritesh | 1 | F | | 6 |

RS
6/4

* **Extracts relinguished on the same date as received.**

1682285
11:45

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q2177 **WorkList ID :** 189930 **Department :** Extraction **Date :** 06-04-2025 11:38:16

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2177-08 | EB05312025 | Water | SVOC-TCL BNA -20 | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 8270E |
| Q2181-02 | 38073-032124 | Water | SVOCMS Group2 | Cool 4 deg C | ALLI03 | QA Of | 05/30/2025 | 8270E |
| Q2198-05 | B-202-GW01 | Water | SVOC-TCL BNA -20 | Cool 4 deg C | PORT06 | N22 | 05/31/2025 | 8270E |

**Date/Time** 6/4/25 11:40
**Raw Sample Received by:** RS (Ext-Lab)
**Raw Sample Relinquished by:** RM SM



**Date/Time** 6/4/25 12:15
**Raw Sample Received by:** RM SM
**Raw Sample Relinquished by:** RS (Ext-Lab)

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2177 | **OrderDate:** | 6/2/2025 11:19:00 AM |
| **Client:** | Portal Partners Tri-Venture | **Project:** | Amtrak Sawtooth Bridges 2025 |
| **Contact:** | Joseph Krupansky | **Location:** | L41,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2177-02** | **B-187-SB01** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 06/04/25 | 06/10/25 | |
| **Q2177-02DL** | **B-187-SB01DL** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 06/04/25 | 06/11/25 | |
| **Q2177-03** | **B-187-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP BNA | 8270E | | 06/04/25 | 06/06/25 | |
| **Q2177-04** | **B-187-SB02** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 06/04/25 | 06/06/25 | |
| **Q2177-05** | **B-187-SB02** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP BNA | 8270E | | 06/04/25 | 06/07/25 | |
| **Q2177-06** | **B-202-SB01** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 06/04/25 | 06/10/25 | |
| **Q2177-07** | **B-202-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP BNA | 8270E | | 06/04/25 | 06/07/25 | |
| **Q2177-08** | **EB05312025** | **Water** | | | **05/31/25** | | | **06/02/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 06/04/25 | 06/06/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID :** | | | | | | | | |
| | | | | 0.000 | | | | |
| | | | **Total Svoc :** | | | **0.00** | | |
| | | | **Total Concentration:** | | | **0.00** | | |

# SAMPLE DATA

Raw Data: **BM050203.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/04/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/04/25 |
| Client Sample ID: | PB168224TB | SDG No.: | Q2177 |
| Lab Sample ID: | PB168224TB | Matrix: | TCLP |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BM050203.D | 1 | 06/04/25 08:30 | 06/05/25 16:35 | PB168269 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 12.8 | U | 12.8 | 50.0 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 5.30 | U | 5.30 | 50.0 | ug/L |
| 95-48-7 | 2-Methylphenol | 11.2 | U | 11.2 | 50.0 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 11.0 | U | 11.0 | 100 | ug/L |
| 67-72-1 | Hexachloroethane | 6.50 | U | 6.50 | 50.0 | ug/L |
| 98-95-3 | Nitrobenzene | 7.60 | U | 7.60 | 50.0 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 5.40 | U | 5.40 | 50.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 5.10 | U | 5.10 | 50.0 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 6.20 | U | 6.20 | 50.0 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 12.2 | U | 12.2 | 50.0 | ug/L |
| 118-74-1 | Hexachlorobenzene | 5.20 | U | 5.20 | 50.0 | ug/L |
| 87-86-5 | Pentachlorophenol | 15.8 | U | 15.8 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 131 | | 15 (23) - 110 (138) | 88% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 121 | | 15 (10) - 110 (134) | 81% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 80.0 | | 30 (67) - 130 (132) | 80% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 80.1 | | 30 (52) - 130 (132) | 80% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 120 | | 15 (44) - 110 (137) | 80% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 78.2 | | 30 (42) - 130 (152) | 78% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 259000 | 7.787 | | | |
| 1146-65-2 | Naphthalene-d8 | 957000 | 10.575 | | | |
| 15067-26-2 | Acenaphthene-d10 | 523000 | 14.416 | | | |
| 1517-22-2 | Phenanthrene-d10 | 933000 | 17.151 | | | |
| 1719-03-5 | Chrysene-d12 | 870000 | 21.38 | | | |
| 1520-96-3 | Perylene-d12 | 921000 | 24.374 | | | |

Raw Data: **BM050203.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/04/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/04/25 |
| Client Sample ID: | PB168224TB | SDG No.: | Q2177 |
| Lab Sample ID: | PB168224TB | Matrix: | TCLP |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BM050203.D | 1 | 06/04/25 08:30 | 06/05/25 16:35 | PB168269 |

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

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

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

Raw Data: **BM050209.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-03 | Matrix: | TCLP |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BM050209.D | 1 | 06/04/25 08:30 | 06/06/25 11:27 | PB168269 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 12.8 | U | 12.8 | 50.0 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 5.30 | U | 5.30 | 50.0 | ug/L |
| 95-48-7 | 2-Methylphenol | 11.2 | U | 11.2 | 50.0 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 11.0 | U | 11.0 | 100 | ug/L |
| 67-72-1 | Hexachloroethane | 6.50 | U | 6.50 | 50.0 | ug/L |
| 98-95-3 | Nitrobenzene | 7.60 | U | 7.60 | 50.0 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 5.40 | U | 5.40 | 50.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 5.10 | U | 5.10 | 50.0 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 6.20 | U | 6.20 | 50.0 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 12.2 | U | 12.2 | 50.0 | ug/L |
| 118-74-1 | Hexachlorobenzene | 5.20 | U | 5.20 | 50.0 | ug/L |
| 87-86-5 | Pentachlorophenol | 15.8 | U | 15.8 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 119 | | 15 (23) - 110 (138) | 80% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 104 | | 15 (10) - 110 (134) | 69% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 80.2 | | 30 (67) - 130 (132) | 80% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 78.2 | | 30 (52) - 130 (132) | 78% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 126 | | 15 (44) - 110 (137) | 84% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 77.5 | | 30 (42) - 130 (152) | 78% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 305000 | 7.787 | | | |
| 1146-65-2 | Naphthalene-d8 | 1160000 | 10.575 | | | |
| 15067-26-2 | Acenaphthene-d10 | 659000 | 14.41 | | | |
| 1517-22-2 | Phenanthrene-d10 | 1220000 | 17.151 | | | |
| 1719-03-5 | Chrysene-d12 | 1160000 | 21.38 | | | |
| 1520-96-3 | Perylene-d12 | 1240000 | 24.368 | | | |

Raw Data: **BM050209.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-03 | Matrix: | TCLP |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BM050209.D | 1 | 06/04/25 08:30 | 06/06/25 11:27 | PB168269 |

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

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

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

Raw Data: **BM050232.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-05 | Matrix: | TCLP |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BM050232.D | 1 | 06/04/25 08:30 | 06/07/25 03:20 | PB168269 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 12.8 | U | 12.8 | 50.0 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 5.30 | U | 5.30 | 50.0 | ug/L |
| 95-48-7 | 2-Methylphenol | 11.2 | U | 11.2 | 50.0 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 11.0 | U | 11.0 | 100 | ug/L |
| 67-72-1 | Hexachloroethane | 6.50 | U | 6.50 | 50.0 | ug/L |
| 98-95-3 | Nitrobenzene | 7.60 | U | 7.60 | 50.0 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 5.40 | U | 5.40 | 50.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 5.10 | U | 5.10 | 50.0 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 6.20 | U | 6.20 | 50.0 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 12.2 | U | 12.2 | 50.0 | ug/L |
| 118-74-1 | Hexachlorobenzene | 5.20 | U | 5.20 | 50.0 | ug/L |
| 87-86-5 | Pentachlorophenol | 15.8 | U | 15.8 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 119 | | 15 (23) - 110 (138) | 80% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 97.8 | | 15 (10) - 110 (134) | 65% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 80.7 | | 30 (67) - 130 (132) | 81% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 78.2 | | 30 (52) - 130 (132) | 78% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 121 | | 15 (44) - 110 (137) | 80% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 79.5 | | 30 (42) - 130 (152) | 80% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 305000 | 7.786 | | | |
| 1146-65-2 | Naphthalene-d8 | 1150000 | 10.575 | | | |
| 15067-26-2 | Acenaphthene-d10 | 611000 | 14.41 | | | |
| 1517-22-2 | Phenanthrene-d10 | 1090000 | 17.145 | | | |
| 1719-03-5 | Chrysene-d12 | 1090000 | 21.374 | | | |
| 1520-96-3 | Perylene-d12 | 1170000 | 24.362 | | | |

Raw Data: **BM050232.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-05 | Matrix: | TCLP |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BM050232.D | 1 | 06/04/25 08:30 | 06/07/25 03:20 | PB168269 |

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

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

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

Raw Data: **BM050233.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-07 | Matrix: | TCLP |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BM050233.D | 1 | 06/04/25 08:30 | 06/07/25 04:00 | PB168269 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 12.8 | U | 12.8 | 50.0 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 5.30 | U | 5.30 | 50.0 | ug/L |
| 95-48-7 | 2-Methylphenol | 11.2 | U | 11.2 | 50.0 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 11.0 | U | 11.0 | 100 | ug/L |
| 67-72-1 | Hexachloroethane | 6.50 | U | 6.50 | 50.0 | ug/L |
| 98-95-3 | Nitrobenzene | 7.60 | U | 7.60 | 50.0 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 5.40 | U | 5.40 | 50.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 5.10 | U | 5.10 | 50.0 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 6.20 | U | 6.20 | 50.0 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 12.2 | U | 12.2 | 50.0 | ug/L |
| 118-74-1 | Hexachlorobenzene | 5.20 | U | 5.20 | 50.0 | ug/L |
| 87-86-5 | Pentachlorophenol | 15.8 | U | 15.8 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 124 | | 15 (23) - 110 (138) | 83% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 107 | | 15 (10) - 110 (134) | 71% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 80.5 | | 30 (67) - 130 (132) | 80% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 76.4 | | 30 (52) - 130 (132) | 76% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 117 | | 15 (44) - 110 (137) | 78% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 83.0 | | 30 (42) - 130 (152) | 83% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 307000 | 7.787 | | | |
| 1146-65-2 | Naphthalene-d8 | 1160000 | 10.569 | | | |
| 15067-26-2 | Acenaphthene-d10 | 625000 | 14.41 | | | |
| 1517-22-2 | Phenanthrene-d10 | 1110000 | 17.145 | | | |
| 1719-03-5 | Chrysene-d12 | 1040000 | 21.374 | | | |
| 1520-96-3 | Perylene-d12 | 1120000 | 24.356 | | | |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | | | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | | | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-07 | | | Matrix: | TCLP |
| Analytical Method: | 8270E | | | % Solid: | 0 |
| Sample Wt/Vol: | 100 | Units: | mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | TCLP BNA |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3541 | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BM050233.D | 1 | 06/04/25 08:30 | 06/07/25 04:00 | PB168269 |

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

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

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

# QC SUMMARY

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# Surrogate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| PB168224TB | PB168224TB | 2-Fluorophenol | 150 | 131 | 88 | | 15 (23) | 110 (138) |
| | | Phenol-d6 | 150 | 121 | 81 | | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 80.0 | 80 | | 30 (67) | 130 (132) |
| | | 2-Fluorobiphenyl | 100 | 80.1 | 80 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 120 | 80 | | 15 (44) | 110 (137) |
| | | Terphenyl-d14 | 100 | 78.2 | 78 | | 30 (42) | 130 (152) |
| PB168269BL | PB168269BL | 2-Fluorophenol | 150 | 137 | 91 | | 15 (23) | 110 (138) |
| | | Phenol-d6 | 150 | 129 | 86 | | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 83.4 | 83 | | 30 (67) | 130 (132) |
| | | 2-Fluorobiphenyl | 100 | 82.9 | 83 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 126 | 84 | | 15 (44) | 110 (137) |
| | | Terphenyl-d14 | 100 | 83.7 | 84 | | 30 (42) | 130 (152) |
| PB168269BS | PB168269BS | 2-Fluorophenol | 150 | 131 | 87 | | 15 (23) | 110 (138) |
| | | Phenol-d6 | 150 | 121 | 81 | | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 79.8 | 80 | | 30 (67) | 130 (132) |
| | | 2-Fluorobiphenyl | 100 | 80.2 | 80 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 123 | 82 | | 15 (44) | 110 (137) |
| | | Terphenyl-d14 | 100 | 79.3 | 79 | | 30 (42) | 130 (152) |
| Q2177-03 | B-187-SB01 | 2-Fluorophenol | 150 | 119 | 80 | | 15 (23) | 110 (138) |
| | | Phenol-d6 | 150 | 104 | 69 | | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 80.2 | 80 | | 30 (67) | 130 (132) |
| | | 2-Fluorobiphenyl | 100 | 78.2 | 78 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 126 | 84 | | 15 (44) | 110 (137) |
| | | Terphenyl-d14 | 100 | 77.5 | 78 | | 30 (42) | 130 (152) |
| Q2177-03MS | B-187-SB01MS | 2-Fluorophenol | 150 | 122 | 81 | | 15 (23) | 110 (138) |
| | | Phenol-d6 | 150 | 109 | 73 | | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 79.5 | 79 | | 30 (67) | 130 (132) |
| | | 2-Fluorobiphenyl | 100 | 77.7 | 78 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 124 | 83 | | 15 (44) | 110 (137) |
| | | Terphenyl-d14 | 100 | 79.5 | 79 | | 30 (42) | 130 (152) |
| Q2177-03MSD | B-187-SB01MSD | 2-Fluorophenol | 150 | 117 | 78 | | 15 (23) | 110 (138) |
| | | Phenol-d6 | 150 | 106 | 71 | | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 77.2 | 77 | | 30 (67) | 130 (132) |
| | | 2-Fluorobiphenyl | 100 | 75.1 | 75 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 121 | 80 | | 15 (44) | 110 (137) |
| | | Terphenyl-d14 | 100 | 78.0 | 78 | | 30 (42) | 130 (152) |
| Q2177-05 | B-187-SB02 | 2-Fluorophenol | 150 | 119 | 80 | | 15 (23) | 110 (138) |
| | | Phenol-d6 | 150 | 97.8 | 65 | | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 80.7 | 81 | | 30 (67) | 130 (132) |
| | | 2-Fluorobiphenyl | 100 | 78.2 | 78 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 121 | 80 | | 15 (44) | 110 (137) |
| | | Terphenyl-d14 | 100 | 79.5 | 80 | | 30 (42) | 130 (152) |
| Q2177-07 | B-202-SB01 | 2-Fluorophenol | 150 | 124 | 83 | | 15 (23) | 110 (138) |
| | | Phenol-d6 | 150 | 107 | 71 | | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 80.5 | 80 | | 30 (67) | 130 (132) |
| | | 2-Fluorobiphenyl | 100 | 76.4 | 76 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 117 | 78 | | 15 (44) | 110 (137) |
| | | Terphenyl-d14 | 100 | 83.0 | 83 | | 30 (42) | 130 (152) |

( ) = LABORATORY INHOUSE LIMIT

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: Q2177-03MS** | | **Client Sample ID: B-187-SB01MS** | | | | | | **DataFile: BM050210.D** | | | |
| Pyridine | 500 | 0 | 370 | ug/L | 74 | | | | 20 (10) | 160 (109) | |
| 1,4-Dichlorobenzene | 500 | 0 | 380 | ug/L | 76 | | | | 70 (55) | 130 (125) | |
| 2-Methylphenol | 500 | 0 | 430 | ug/L | 86 | | | | 70 (60) | 130 (131) | |
| 3+4-Methylphenols | 500 | 0 | 420 | ug/L | 84 | | | | 20 (54) | 160 (136) | |
| Hexachloroethane | 500 | 0 | 380 | ug/L | 76 | | | | 20 (19) | 160 (146) | |
| Nitrobenzene | 500 | 0 | 450 | ug/L | 90 | | | | 70 (62) | 130 (112) | |
| Hexachlorobutadiene | 500 | 0 | 410 | ug/L | 82 | | | | 70 (52) | 130 (125) | |
| 2,4,6-Trichlorophenol | 500 | 0 | 480 | ug/L | 96 | | | | 70 (78) | 130 (112) | |
| 2,4,5-Trichlorophenol | 500 | 0 | 470 | ug/L | 94 | | | | 70 (71) | 130 (111) | |
| 2,4-Dinitrotoluene | 500 | 0 | 490 | ug/L | 98 | | | | 70 (74) | 130 (137) | |
| Hexachlorobenzene | 500 | 0 | 470 | ug/L | 94 | | | | 70 (72) | 130 (115) | |
| Pentachlorophenol | 1000 | 0 | 960 | ug/L | 96 | | | | 20 (52) | 160 (162) | |

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: Q2177-03MSD** | | **Client Sample ID: B-187-SB01MSD** | | | | | | **DataFile: BM050211.D** | | | |
| Pyridine | 500 | 0 | 350 | ug/L | 70 | | 6 | | 20 (10) | 160 (109) | 20 (20) |
| 1,4-Dichlorobenzene | 500 | 0 | 360 | ug/L | 72 | | 5 | | 70 (55) | 130 (125) | 20 (20) |
| 2-Methylphenol | 500 | 0 | 420 | ug/L | 84 | | 2 | | 70 (60) | 130 (131) | 20 (20) |
| 3+4-Methylphenols | 500 | 0 | 410 | ug/L | 82 | | 2 | | 20 (54) | 160 (136) | 20 (20) |
| Hexachloroethane | 500 | 0 | 360 | ug/L | 72 | | 5 | | 20 (19) | 160 (146) | 20 (20) |
| Nitrobenzene | 500 | 0 | 430 | ug/L | 86 | | 5 | | 70 (62) | 130 (112) | 20 (20) |
| Hexachlorobutadiene | 500 | 0 | 400 | ug/L | 80 | | 2 | | 70 (52) | 130 (125) | 20 (20) |
| 2,4,6-Trichlorophenol | 500 | 0 | 470 | ug/L | 94 | | 2 | | 70 (78) | 130 (112) | 20 (20) |
| 2,4,5-Trichlorophenol | 500 | 0 | 460 | ug/L | 92 | | 2 | | 70 (71) | 130 (111) | 20 (20) |
| 2,4-Dinitrotoluene | 500 | 0 | 480 | ug/L | 96 | | 2 | | 70 (74) | 130 (137) | 20 (20) |
| Hexachlorobenzene | 500 | 0 | 460 | ug/L | 92 | | 2 | | 70 (72) | 130 (115) | 20 (20) |
| Pentachlorophenol | 1000 | 0 | 920 | ug/L | 92 | | 4 | | 20 (52) | 160 (162) | 20 (20) |

( ) = LABORATORY INHOUSE LIMIT

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8270E **DataFile:** BM050208.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168269BS | Pyridine | 50 | 40.6 | ug/L | 81 | | | | 20 (29) | 160 (97) | |
| | 1,4-Dichlorobenzene | 50 | 44.3 | ug/L | 89 | | | | 70 (76) | 130 (103) | |
| | 2-Methylphenol | 50 | 43.4 | ug/L | 87 | | | | 70 (69) | 130 (109) | |
| | 3+4-Methylphenols | 50 | 42.7 | ug/L | 85 | | | | 20 (67) | 160 (106) | |
| | Hexachloroethane | 50 | 46.2 | ug/L | 92 | | | | 20 (76) | 160 (118) | |
| | Nitrobenzene | 50 | 46.8 | ug/L | 94 | | | | 70 (58) | 130 (106) | |
| | Hexachlorobutadiene | 50 | 47.0 | ug/L | 94 | | | | 70 (69) | 130 (101) | |
| | 2,4,6-Trichlorophenol | 50 | 47.9 | ug/L | 96 | | | | 70 (61) | 130 (110) | |
| | 2,4,5-Trichlorophenol | 50 | 47.4 | ug/L | 95 | | | | 70 (70) | 130 (106) | |
| | 2,4-Dinitrotoluene | 50 | 49.4 | ug/L | 99 | | | | 70 (60) | 130 (115) | |
| | Hexachlorobenzene | 50 | 47.6 | ug/L | 95 | | | | 70 (73) | 130 (106) | |
| | Pentachlorophenol | 100 | 98.6 | ug/L | 99 | | | | 20 (47) | 160 (114) | |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168269BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BM050207.D Lab Sample ID: PB168269BL

Instrument ID: BNA_M Date Extracted: 06/04/2025

Matrix: (soil/water) water Date Analyzed: 06/06/2025

Level: (low/med) LOW Time Analyzed: 10:08

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| PB168269BS | PB168269BS | BM050208.D | 06/06/2025 |
| B-187-SB01 | Q2177-03 | BM050209.D | 06/06/2025 |
| B-187-SB01MS | Q2177-03MS | BM050210.D | 06/06/2025 |
| B-187-SB01MSD | Q2177-03MSD | BM050211.D | 06/06/2025 |
| B-187-SB02 | Q2177-05 | BM050232.D | 06/07/2025 |
| B-202-SB01 | Q2177-07 | BM050233.D | 06/07/2025 |
| PB168224TB | PB168224TB | BM050203.D | 06/05/2025 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BM050193.D DFTPP Injection Date: 06/05/2025

Instrument ID: BNA_M DFTPP Injection Time: 08:40

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 20.3 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.6 ) 1 |
| 69 | Mass 69 relative abundance | 37.2 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 47.5 |
| 197 | Less than 2.0% of mass 198 | 0.4 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 7 |
| 275 | 10.0 - 60.0% of mass 198 | 24.6 |
| 365 | Greater than 1% of mass 198 | 3.2 |
| 441 | Present, but less than mass 443 | 11.6 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 14.8 (19.9) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BM050194.D | 06/05/2025 | 09:20 |
| SSTDICC005 | SSTDICC005 | BM050195.D | 06/05/2025 | 09:59 |
| SSTDICC010 | SSTDICC010 | BM050196.D | 06/05/2025 | 10:38 |
| SSTDICC020 | SSTDICC020 | BM050197.D | 06/05/2025 | 11:17 |
| SSTDICCC040 | SSTDICCC040 | BM050198.D | 06/05/2025 | 11:57 |
| SSTDICC050 | SSTDICC050 | BM050199.D | 06/05/2025 | 12:36 |
| SSTDICC060 | SSTDICC060 | BM050200.D | 06/05/2025 | 13:16 |
| SSTDICC080 | SSTDICC080 | BM050201.D | 06/05/2025 | 13:56 |
| PB168224TB | PB168224TB | BM050203.D | 06/05/2025 | 16:35 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BM050205.D DFTPP Injection Date: 06/06/2025

Instrument ID: BNA_M DFTPP Injection Time: 08:50

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 19.3 |
| 68 | Less than 2.0% of mass 69 | 0.5 ( 1.5 ) 1 |
| 69 | Mass 69 relative abundance | 34 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 44.7 |
| 197 | Less than 2.0% of mass 198 | 0.4 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 |
| 275 | 10.0 - 60.0% of mass 198 | 26 |
| 365 | Greater than 1% of mass 198 | 3.4 |
| 441 | Present, but less than mass 443 | 12.9 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 16.2 (19.4) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BM050206.D | 06/06/2025 | 09:29 |
| PB168269BL | PB168269BL | BM050207.D | 06/06/2025 | 10:08 |
| PB168269BS | PB168269BS | BM050208.D | 06/06/2025 | 10:47 |
| B-187-SB01 | Q2177-03 | BM050209.D | 06/06/2025 | 11:27 |
| B-187-SB01MS | Q2177-03MS | BM050210.D | 06/06/2025 | 12:06 |
| B-187-SB01MSD | Q2177-03MSD | BM050211.D | 06/06/2025 | 12:46 |

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5B

# SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BM050222.D DFTPP Injection Date: 06/06/2025

Instrument ID: BNA_M DFTPP Injection Time: 20:43

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 21.3 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.5 ) 1 |
| 69 | Mass 69 relative abundance | 39.8 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48.9 |
| 197 | Less than 2.0% of mass 198 | 0.2 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 |
| 275 | 10.0 - 60.0% of mass 198 | 24.9 |
| 365 | Greater than 1% of mass 198 | 3.2 |
| 441 | Present, but less than mass 443 | 11.5 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 14.8 (19.5) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BM050223.D | 06/06/2025 | 21:23 |
| B-187-SB02 | Q2177-05 | BM050232.D | 06/07/2025 | 03:20 |
| B-202-SB01 | Q2177-07 | BM050233.D | 06/07/2025 | 04:00 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDICCC040 Date Analyzed: 06/05/2025

Lab File ID: BM050198.D Time Analyzed: 11:57

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 308806 | 7.793 | 1316350 | 10.58 | 819036 | 14.42 |
| | UPPER LIMIT | 617612 | 8.293 | 2632700 | 11.075 | 1638070 | 14.916 |
| | LOWER LIMIT | 154403 | 7.293 | 658175 | 10.075 | 409518 | 13.916 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB168224TB | 259307 | 7.79 | 956559 | 10.58 | 522891 | 14.42 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDICCC040 Date Analyzed: 06/05/2025

Lab File ID: BM050198.D Time Analyzed: 11:57

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 1590670 | 17.151 | 1484490 | 21.386 | 1410380 | 24.374 |
| | UPPER LIMIT | 3181340 | 17.651 | 2968980 | 21.886 | 2820760 | 24.874 |
| | LOWER LIMIT | 795335 | 16.651 | 742245 | 20.886 | 705190 | 23.874 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB168224TB | 932766 | 17.15 | 869671 | 21.38 | 921150 | 24.37 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/06/2025

Lab File ID: BM050206.D Time Analyzed: 09:29

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 295242 | 7.787 | 1183110 | 10.58 | 689122 | 14.42 |
| | UPPER LIMIT | 590484 | 8.287 | 2366220 | 11.075 | 1378240 | 14.916 |
| | LOWER LIMIT | 147621 | 7.287 | 591555 | 10.075 | 344561 | 13.916 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB168269BL | 307416 | 7.79 | 1142670 | 10.58 | 634427 | 14.41 |
| 02 | PB168269BS | 327776 | 7.79 | 1233280 | 10.58 | 655553 | 14.42 |
| 03 | B-187-SB01 | 304642 | 7.79 | 1159120 | 10.58 | 659350 | 14.41 |
| 04 | B-187-SB01MS | 326296 | 7.79 | 1267570 | 10.58 | 684770 | 14.42 |
| 05 | B-187-SB01MSD | 347769 | 7.79 | 1350320 | 10.58 | 744312 | 14.42 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/06/2025

Lab File ID: BM050206.D Time Analyzed: 09:29

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 1340070 | 17.151 | 1418640 | 21.386 | 1586720 | 24.368 |
| | UPPER LIMIT | 2680140 | 17.651 | 2837280 | 21.886 | 3173440 | 24.868 |
| | LOWER LIMIT | 670035 | 16.651 | 709320 | 20.886 | 793360 | 23.868 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB168269BL | 1133740 | 17.15 | 982238 | 21.38 | 1022860 | 24.37 |
| 02 | PB168269BS | 1123560 | 17.15 | 1060560 | 21.38 | 1186020 | 24.37 |
| 03 | B-187-SB01 | 1216070 | 17.15 | 1157740 | 21.38 | 1244730 | 24.37 |
| 04 | B-187-SB01MS | 1179350 | 17.15 | 1089190 | 21.38 | 1220890 | 24.37 |
| 05 | B-187-SB01MSD | 1278960 | 17.15 | 1127470 | 21.39 | 1245310 | 24.37 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/06/2025

Lab File ID: BM050223.D Time Analyzed: 21:23

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 279322 | 7.786 | 1074650 | 10.58 | 577654 | 14.41 |
| | UPPER LIMIT | 558644 | 8.286 | 2149300 | 11.075 | 1155310 | 14.91 |
| | LOWER LIMIT | 139661 | 7.286 | 537325 | 10.075 | 288827 | 13.91 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | B-187-SB02 | 305472 | 7.79 | 1153730 | 10.58 | 611005 | 14.41 |
| 02 | B-202-SB01 | 306776 | 7.79 | 1155500 | 10.57 | 625136 | 14.41 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/06/2025

Lab File ID: BM050223.D Time Analyzed: 21:23

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 1020060 | 17.151 | 1029160 | 21.38 | 1065460 | 24.362 |
| | UPPER LIMIT | 2040120 | 17.651 | 2058320 | 21.88 | 2130920 | 24.862 |
| | LOWER LIMIT | 510030 | 16.651 | 514580 | 20.88 | 532730 | 23.862 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | B-187-SB02 | 1089580 | 17.15 | 1091420 | 21.37 | 1171440 | 24.36 |
| 02 | B-202-SB01 | 1109440 | 17.15 | 1043230 | 21.37 | 1124100 | 24.36 |

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: **BM050207.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168269BL | SDG No.: | Q2177 |
| Lab Sample ID: | PB168269BL | Matrix: | TCLP |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BM050207.D | 1 | 06/04/25 08:30 | 06/06/25 10:08 | PB168269 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 1.30 | U | 1.30 | 5.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.53 | U | 0.53 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 1.10 | U | 1.10 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 1.10 | U | 1.10 | 10.0 | ug/L |
| 67-72-1 | Hexachloroethane | 0.65 | U | 0.65 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 0.76 | U | 0.76 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 0.54 | U | 0.54 | 5.00 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.51 | U | 0.51 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.62 | U | 0.62 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 0.52 | U | 0.52 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 1.60 | U | 1.60 | 10.0 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 137 | | 15 (23) - 110 (138) | 91% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 129 | | 15 (10) - 110 (134) | 86% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 83.4 | | 30 (67) - 130 (132) | 83% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 82.9 | | 30 (52) - 130 (132) | 83% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 126 | | 15 (44) - 110 (137) | 84% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 83.7 | | 30 (42) - 130 (152) | 84% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 307000 | 7.787 | | | |
| 1146-65-2 | Naphthalene-d8 | 1140000 | 10.575 | | | |
| 15067-26-2 | Acenaphthene-d10 | 634000 | 14.41 | | | |
| 1517-22-2 | Phenanthrene-d10 | 1130000 | 17.151 | | | |
| 1719-03-5 | Chrysene-d12 | 982000 | 21.38 | | | |
| 1520-96-3 | Perylene-d12 | 1020000 | 24.368 | | | |

Raw Data: **BM050207.D**

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | | | Date Received: | |
| Client Sample ID: | PB168269BL | | | SDG No.: | Q2177 |
| Lab Sample ID: | PB168269BL | | | Matrix: | TCLP |
| Analytical Method: | 8270E | | | % Solid: | 0 |
| Sample Wt/Vol: | 1000 | Units: | mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | TCLP BNA |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3510C | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BM050207.D | 1 | 06/04/25 08:30 | 06/06/25 10:08 | PB168269 |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168269BS | SDG No.: | Q2177 |
| Lab Sample ID: | PB168269BS | Matrix: | TCLP |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BM050208.D | 1 | 06/04/25 08:30 | 06/06/25 10:47 | PB168269 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 40.6 | | 1.30 | 5.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 44.3 | | 0.53 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 43.4 | | 1.10 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 42.7 | | 1.10 | 10.0 | ug/L |
| 67-72-1 | Hexachloroethane | 46.2 | | 0.65 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 46.8 | | 0.76 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 47.0 | | 0.54 | 5.00 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 47.9 | | 0.51 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 47.4 | | 0.62 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 49.4 | | 1.20 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 47.6 | | 0.52 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 98.6 | E | 1.60 | 10.0 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 131 | | 15 (23) - 110 (138) | 87% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 121 | | 15 (10) - 110 (134) | 81% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 79.8 | | 30 (67) - 130 (132) | 80% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 80.2 | | 30 (52) - 130 (132) | 80% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 123 | | 15 (44) - 110 (137) | 82% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 79.3 | | 30 (42) - 130 (152) | 79% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 328000 | 7.786 | | | |
| 1146-65-2 | Naphthalene-d8 | 1230000 | 10.575 | | | |
| 15067-26-2 | Acenaphthene-d10 | 656000 | 14.415 | | | |
| 1517-22-2 | Phenanthrene-d10 | 1120000 | 17.151 | | | |
| 1719-03-5 | Chrysene-d12 | 1060000 | 21.38 | | | |
| 1520-96-3 | Perylene-d12 | 1190000 | 24.368 | | | |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | | | Date Received: | |
| Client Sample ID: | PB168269BS | | | SDG No.: | Q2177 |
| Lab Sample ID: | PB168269BS | | | Matrix: | TCLP |
| Analytical Method: | 8270E | | | % Solid: | 0 |
| Sample Wt/Vol: | 1000 | Units: | mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | TCLP BNA |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3510C | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BM050208.D | 1 | 06/04/25 08:30 | 06/06/25 10:47 | PB168269 |

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

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

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

Raw Data: **BM050210.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01MS | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-03MS | Matrix: | TCLP |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BM050210.D | 1 | 06/04/25 08:30 | 06/06/25 12:06 | PB168269 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 370 | | 12.8 | 50.0 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 380 | | 5.30 | 50.0 | ug/L |
| 95-48-7 | 2-Methylphenol | 430 | | 11.2 | 50.0 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 420 | | 11.0 | 100 | ug/L |
| 67-72-1 | Hexachloroethane | 380 | | 6.50 | 50.0 | ug/L |
| 98-95-3 | Nitrobenzene | 450 | | 7.60 | 50.0 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 410 | | 5.40 | 50.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 480 | | 5.10 | 50.0 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 470 | | 6.20 | 50.0 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 490 | | 12.2 | 50.0 | ug/L |
| 118-74-1 | Hexachlorobenzene | 470 | | 5.20 | 50.0 | ug/L |
| 87-86-5 | Pentachlorophenol | 960 | E | 15.8 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 122 | | 15 (23) - 110 (138) | 81% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 109 | | 15 (10) - 110 (134) | 73% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 79.5 | | 30 (67) - 130 (132) | 79% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 77.7 | | 30 (52) - 130 (132) | 78% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 124 | | 15 (44) - 110 (137) | 83% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 79.5 | | 30 (42) - 130 (152) | 79% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 326000 | 7.787 | | | |
| 1146-65-2 | Naphthalene-d8 | 1270000 | 10.575 | | | |
| 15067-26-2 | Acenaphthene-d10 | 685000 | 14.416 | | | |
| 1517-22-2 | Phenanthrene-d10 | 1180000 | 17.151 | | | |
| 1719-03-5 | Chrysene-d12 | 1090000 | 21.38 | | | |
| 1520-96-3 | Perylene-d12 | 1220000 | 24.368 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01MS | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-03MS | Matrix: | TCLP |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BM050210.D | 1 | 06/04/25 08:30 | 06/06/25 12:06 | PB168269 |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01MSD | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-03MSD | Matrix: | TCLP |
| Analytical Method: | 8270E | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BM050211.D | 1 | 06/04/25 08:30 | 06/06/25 12:46 | PB168269 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 350 | | 12.8 | 50.0 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 360 | | 5.30 | 50.0 | ug/L |
| 95-48-7 | 2-Methylphenol | 420 | | 11.2 | 50.0 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 410 | | 11.0 | 100 | ug/L |
| 67-72-1 | Hexachloroethane | 360 | | 6.50 | 50.0 | ug/L |
| 98-95-3 | Nitrobenzene | 430 | | 7.60 | 50.0 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 400 | | 5.40 | 50.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 470 | | 5.10 | 50.0 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 460 | | 6.20 | 50.0 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 480 | | 12.2 | 50.0 | ug/L |
| 118-74-1 | Hexachlorobenzene | 460 | | 5.20 | 50.0 | ug/L |
| 87-86-5 | Pentachlorophenol | 920 | E | 15.8 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 117 | | 15 (23) - 110 (138) | 78% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 106 | | 15 (10) - 110 (134) | 71% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 77.2 | | 30 (67) - 130 (132) | 77% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 75.1 | | 30 (52) - 130 (132) | 75% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 121 | | 15 (44) - 110 (137) | 80% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 78.0 | | 30 (42) - 130 (152) | 78% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 348000 | 7.786 | | | |
| 1146-65-2 | Naphthalene-d8 | 1350000 | 10.575 | | | |
| 15067-26-2 | Acenaphthene-d10 | 744000 | 14.415 | | | |
| 1517-22-2 | Phenanthrene-d10 | 1280000 | 17.151 | | | |
| 1719-03-5 | Chrysene-d12 | 1130000 | 21.386 | | | |
| 1520-96-3 | Perylene-d12 | 1250000 | 24.368 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | Date Collected: | 05/31/25 | |
| Project: | Amtrak Sawtooth Bridges 2025 | | Date Received: | 06/02/25 | |
| Client Sample ID: | B-187-SB01MSD | | SDG No.: | Q2177 | |
| Lab Sample ID: | Q2177-03MSD | | Matrix: | TCLP | |
| Analytical Method: | 8270E | | % Solid: | 0 | |
| Sample Wt/Vol: | 100 Units: | mL | Final Vol: | 1000 | uL |
| Soil Aliquot Vol: | | uL | Test: | TCLP BNA | |
| Extraction Type : | | Decanted : N | Level : | LOW | |
| Injection Volume : | | GPC Factor : 1.0 | GPC Cleanup : | N | PH : |
| Prep Method : | SW3510C | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BM050211.D | 1 | 06/04/25 08:30 | 06/06/25 12:46 | PB168269 |

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

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

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

# CALIBRATION SUMMARY

# Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM060525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 05 16:20:25 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BM050194.D 5 =BM050195.D 10 =BM050196.D 20 =BM050197.D 40 =BM050198.D 50 =BM050199.D 60 =BM050200.D 80 =BM0502
01.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.597 | 0.552 | 0.516 | 0.479 | 0.511 | 0.536 | 0.488 | 0.526 | 7.69 |
| 3) | | Pyridine | | 1.353 | 1.352 | 1.370 | 1.311 | 1.425 | 1.389 | 1.326 | 1.361 | 2.80 |
| 4) | | n-Nitrosodimet... | | 0.283 | 0.265 | 0.279 | 0.272 | 0.297 | 0.293 | 0.282 | 0.281 | 3.95 |
| 5) | S | 2-Fluorophenol | | 1.251 | 1.193 | 1.192 | 1.145 | 1.238 | 1.224 | 1.150 | 1.199 | 3.45 |
| 6) | | Aniline | | 2.033 | 2.016 | 2.147 | 2.065 | 2.250 | 2.064 | 2.031 | 2.086 | 4.02 |
| 7) | S | Phenol-d6 | | 1.569 | 1.521 | 1.617 | 1.565 | 1.699 | 1.560 | 1.516 | 1.578 | 4.00 |
| 8) | | 2-Chlorophenol | | 1.289 | 1.259 | 1.344 | 1.295 | 1.418 | 1.338 | 1.288 | 1.319 | 4.02 |
| 9) | | Benzaldehyde | | 1.188 | 1.080 | 1.096 | 0.878 | 0.975 | 0.804 | | 1.003 | 14.43 |
| 10) | C | Phenol | | 1.673 | 1.644 | 1.710 | 1.644 | 1.782 | 1.637 | 1.600 | 1.670 | 3.58 |
| 11) | | bis(2-Chloroet... | | 1.396 | 1.319 | 1.380 | 1.315 | 1.428 | 1.295 | 1.269 | 1.343 | 4.36 |
| 12) | | 1,3-Dichlorobe... | | 1.516 | 1.462 | 1.491 | 1.412 | 1.545 | 1.485 | 1.409 | 1.474 | 3.46 |
| 13) | C | 1,4-Dichlorobe... | | 1.619 | 1.544 | 1.564 | 1.450 | 1.591 | 1.525 | 1.444 | 1.534 | 4.34 |
| 14) | | 1,2-Dichlorobe... | | 1.503 | 1.456 | 1.492 | 1.402 | 1.540 | 1.450 | 1.392 | 1.462 | 3.68 |
| 15) | | Benzyl Alcohol | | 1.072 | 1.045 | 1.152 | 1.141 | 1.267 | 1.102 | 1.101 | 1.126 | 6.43 |
| 16) | | 2,2'-oxybis(1-... | | 1.012 | 0.949 | 0.974 | 0.909 | 0.978 | 0.863 | 0.845 | 0.933 | 6.68 |
| 17) | | 2-Methylphenol | | 1.078 | 1.042 | 1.133 | 1.108 | 1.207 | 1.077 | 1.068 | 1.102 | 4.96 |
| 18) | | Hexachloroethane | | 0.564 | 0.544 | 0.552 | 0.533 | 0.593 | 0.559 | 0.543 | 0.556 | 3.51 |
| 19) | P | n-Nitroso-di-n... | 0.847 | 0.944 | 0.947 | 1.072 | 1.001 | 1.096 | 0.906 | 0.913 | 0.966 | 8.82 |
| 20) | | 3+4-Methylphenols | | 1.367 | 1.375 | 1.533 | 1.509 | 1.661 | 1.437 | 1.438 | 1.474 | 6.98 |
| 21) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | |
| 22) | | Acetophenone | | 0.515 | 0.506 | 0.517 | 0.476 | 0.519 | 0.495 | 0.470 | 0.500 | 4.03 |
| 23) | S | Nitrobenzene-d5 | | 0.359 | 0.362 | 0.392 | 0.377 | 0.414 | 0.406 | 0.382 | 0.385 | 5.42 |
| 24) | | Nitrobenzene | | 0.333 | 0.337 | 0.359 | 0.339 | 0.370 | 0.363 | 0.347 | 0.350 | 4.10 |
| 25) | | Isophorone | | 0.647 | 0.624 | 0.685 | 0.659 | 0.733 | 0.652 | 0.646 | 0.664 | 5.33 |
| 26) | C | 2-Nitrophenol | | 0.116 | 0.124 | 0.146 | 0.155 | 0.178 | 0.169 | 0.169 | 0.151 | 15.65 |
| 27) | | 2,4-Dimethylph... | | 0.311 | 0.298 | 0.315 | 0.303 | 0.332 | 0.313 | 0.299 | 0.310 | 3.80 |
| 28) | | bis(2-Chloroet... | | 0.426 | 0.413 | 0.447 | 0.427 | 0.470 | 0.432 | 0.420 | 0.434 | 4.42 |
| 29) | C | 2,4-Dichloroph... | | 0.265 | 0.262 | 0.289 | 0.286 | 0.319 | 0.300 | 0.289 | 0.287 | 6.83 |
| 30) | | 1,2,4-Trichlor... | | 0.324 | 0.307 | 0.321 | 0.305 | 0.337 | 0.330 | 0.312 | 0.319 | 3.72 |
| 31) | | Naphthalene | | 1.111 | 1.041 | 1.056 | 0.977 | 1.061 | 1.025 | 0.969 | 1.034 | 4.79 |
| 32) | | Benzoic acid | | | 0.127 | 0.176 | 0.204 | 0.233 | 0.211 | 0.219 | 0.195 | 19.69 |
| 33) | | 4-Chloroaniline | | 0.438 | 0.423 | 0.454 | 0.433 | 0.477 | 0.440 | 0.422 | 0.441 | 4.37 |
| 34) | C | Hexachlorobuta... | | 0.188 | 0.184 | 0.189 | 0.182 | 0.202 | 0.197 | 0.188 | 0.190 | 3.74 |
| 35) | | Caprolactam | | 0.077 | 0.077 | 0.093 | 0.097 | 0.112 | 0.092 | 0.090 | 0.091 | 13.48 |
| 36) | C | 4-Chloro-3-met... | | 0.293 | 0.276 | 0.313 | 0.313 | 0.347 | 0.302 | 0.299 | 0.306 | 7.19 |
| 37) | | 2-Methylnaphth... | | 0.625 | 0.592 | 0.643 | 0.615 | 0.679 | 0.619 | 0.594 | 0.624 | 4.78 |
| 38) | | 1-Methylnaphth... | | 0.676 | 0.637 | 0.689 | 0.649 | 0.714 | 0.648 | 0.622 | 0.662 | 4.86 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM060525.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.586 | 0.561 | 0.585 | 0.541 | 0.589 | 0.607 | 0.574 | 0.578 | 3.71 |
| 41) | P | Hexachlorocycl... | 0.295 | 0.305 | 0.339 | 0.341 | 0.382 | 0.401 | 0.392 | 0.351 | 12.02 |
| 42) | S | 2,4,6-Tribromo... | 0.210 | 0.213 | 0.238 | 0.231 | 0.254 | 0.233 | 0.214 | 0.227 | 6.99 |
| 43) | C | 2,4,6-Trichlor... | 0.346 | 0.347 | 0.379 | 0.375 | 0.414 | 0.402 | 0.396 | 0.380 | 6.93 |
| 44) | | 2,4,5-Trichlor... | 0.371 | 0.382 | 0.424 | 0.414 | 0.457 | 0.442 | 0.429 | 0.417 | 7.46 |
| 45) | S | 2-Fluorobiphenyl | 1.589 | 1.536 | 1.532 | 1.377 | 1.463 | 1.480 | 1.364 | 1.477 | 5.67 |
| 46) | | 1,1'-Biphenyl | 1.582 | 1.513 | 1.514 | 1.404 | 1.526 | 1.508 | 1.437 | 1.498 | 3.96 |
| 47) | | 2-Chloronaphth... | 1.221 | 1.194 | 1.180 | 1.084 | 1.171 | 1.177 | 1.123 | 1.164 | 3.94 |
| 48) | | 2-Nitroaniline | 0.200 | 0.206 | 0.252 | 0.268 | 0.302 | 0.290 | 0.277 | 0.256 | 15.56 |
| 49) | | Acenaphthylene | 1.863 | 1.834 | 1.940 | 1.819 | 1.978 | 1.924 | 1.824 | 1.883 | 3.39 |
| 50) | | Dimethylphthalate | 1.339 | 1.285 | 1.398 | 1.343 | 1.474 | 1.344 | 1.284 | 1.353 | 4.92 |
| 51) | | 2,6-Dinitrotol... | 0.204 | 0.231 | 0.284 | 0.289 | 0.320 | 0.297 | 0.284 | 0.273 | 14.82 |
| 52) | C | Acenaphthene | 1.217 | 1.176 | 1.185 | 1.132 | 1.228 | 1.181 | 1.127 | 1.178 | 3.24 |
| 53) | | 3-Nitroaniline | 0.231 | 0.252 | 0.312 | 0.323 | 0.360 | 0.336 | 0.314 | 0.304 | 15.16 |
| 54) | P | 2,4-Dinitrophenol | | 0.093 | 0.131 | 0.152 | 0.179 | 0.160 | 0.160 | 0.146 | 20.67 |
| 55) | | Dibenzofuran | 1.782 | 1.710 | 1.775 | 1.662 | 1.797 | 1.719 | 1.617 | 1.723 | 3.87 |
| 56) | P | 4-Nitrophenol | 0.199 | 0.216 | 0.265 | 0.274 | 0.307 | 0.288 | 0.262 | 0.259 | 14.93 |
| 57) | | 2,4-Dinitrotol... | 0.250 | 0.283 | 0.365 | 0.396 | 0.447 | 0.398 | 0.380 | 0.360 | 19.28 |
| 58) | | Fluorene | 1.413 | 1.358 | 1.394 | 1.267 | 1.348 | 1.289 | 1.169 | 1.320 | 6.40 |
| 59) | | 2,3,4,6-Tetrac... | 0.338 | 0.330 | 0.370 | 0.365 | 0.401 | 0.371 | 0.350 | 0.361 | 6.60 |
| 60) | | Diethylphthalate | 1.314 | 1.272 | 1.416 | 1.346 | 1.490 | 1.317 | 1.238 | 1.342 | 6.43 |
| 61) | | 4-Chlorophenyl... | 0.675 | 0.656 | 0.667 | 0.611 | 0.660 | 0.623 | 0.573 | 0.638 | 5.81 |
| 62) | | 4-Nitroaniline | 0.213 | 0.236 | 0.291 | 0.308 | 0.342 | 0.319 | 0.285 | 0.285 | 16.00 |
| 63) | | Azobenzene | 1.342 | 1.330 | 1.415 | 1.313 | 1.443 | 1.316 | 1.230 | 1.341 | 5.25 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.075 | 0.101 | 0.111 | 0.128 | 0.120 | 0.121 | 0.109 | 17.72 |
| 66) | c | n-Nitrosodiphe... | 0.630 | 0.626 | 0.639 | 0.594 | 0.646 | 0.639 | 0.625 | 0.628 | 2.73 |
| 67) | | 4-Bromophenyl-... | 0.207 | 0.204 | 0.215 | 0.204 | 0.228 | 0.217 | 0.218 | 0.213 | 4.13 |
| 68) | | Hexachlorobenzene | 0.249 | 0.240 | 0.253 | 0.238 | 0.261 | 0.255 | 0.249 | 0.249 | 3.29 |
| 69) | | Atrazine | 0.166 | 0.177 | 0.206 | 0.206 | 0.231 | 0.212 | 0.204 | 0.200 | 10.86 |
| 70) | C | Pentachlorophenol | 0.133 | 0.138 | 0.165 | 0.164 | 0.187 | 0.177 | 0.171 | 0.162 | 12.21 |
| 71) | | Phenanthrene | 1.239 | 1.156 | 1.160 | 1.071 | 1.161 | 1.144 | 1.068 | 1.143 | 5.14 |
| 72) | | Anthracene | 1.167 | 1.135 | 1.175 | 1.086 | 1.181 | 1.165 | 1.092 | 1.143 | 3.46 |
| 73) | | Carbazole | 1.041 | 1.003 | 1.063 | 1.009 | 1.103 | 1.085 | 0.985 | 1.041 | 4.30 |
| 74) | | Di-n-butylphth... | 0.998 | 1.007 | 1.187 | 1.159 | 1.300 | 1.187 | 1.093 | 1.133 | 9.53 |
| 75) | C | Fluoranthene | 1.180 | 1.139 | 1.231 | 1.178 | 1.301 | 1.284 | 1.121 | 1.205 | 5.77 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | | 0.381 | 0.568 | 0.617 | 0.689 | 0.600 | 0.520 | 0.562 | 18.64 |
| 78) | | Pyrene | 1.331 | 1.307 | 1.444 | 1.324 | 1.423 | 1.274 | 1.334 | 1.348 | 4.61 |
| 79) | S | Terphenyl-d14 | 1.148 | 1.088 | 1.165 | 1.010 | 1.064 | 0.955 | 0.957 | 1.055 | 8.06 |
| 80) | | Butylbenzylpht... | 0.322 | 0.347 | 0.460 | 0.490 | 0.563 | 0.480 | 0.485 | 0.450 | 18.95 |
| 81) | | Benzo(a)anthra... | 1.271 | 1.231 | 1.298 | 1.218 | 1.338 | 1.280 | 1.225 | 1.266 | 3.47 |
| 82) | | 3,3'-Dichlorob... | 0.265 | 0.301 | 0.379 | 0.415 | 0.476 | 0.450 | 0.416 | 0.386 | 19.97 |
| 83) | | Chrysene | 1.235 | 1.184 | 1.225 | 1.151 | 1.256 | 1.217 | 1.161 | 1.204 | 3.27 |
| 84) | | Bis(2-ethylhex... | 0.525 | 0.574 | 0.702 | 0.740 | 0.851 | 0.741 | 0.714 | 0.693 | 15.84 |
| 85) | c | Di-n-octyl pht... | 0.641 | 0.729 | 0.936 | 1.114 | 1.359 | 1.245 | 1.169 | 1.028 | 26.08 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM060525.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.189 | 1.183 | 1.254 | 1.191 | 1.318 | 1.472 | 1.407 | 1.288 | 8.99 |
| 88) | | Benzo(b)fluora... | 1.104 | 1.082 | 1.205 | 1.170 | 1.269 | 1.178 | 1.132 | 1.163 | 5.46 |
| 89) | | Benzo(k)fluora... | 1.141 | 1.149 | 1.222 | 1.167 | 1.295 | 1.190 | 1.144 | 1.187 | 4.71 |
| 90) | C | Benzo(a)pyrene | 0.994 | 1.007 | 1.111 | 1.081 | 1.197 | 1.153 | 1.111 | 1.093 | 6.73 |
| 91) | | Dibenzo(a,h)an... | 0.954 | 0.966 | 1.021 | 0.972 | 1.075 | 1.188 | 1.141 | 1.045 | 8.83 |
| 92) | | Benzo(g,h,i)pe... | 1.002 | 0.978 | 1.013 | 0.954 | 1.037 | 1.194 | 1.146 | 1.046 | 8.57 |

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_M Calibration Date/Time: 06/06/2025 09:29

Lab File ID: BM050206.D Init. Calib. Date(s): 06/05/2025 06/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:20 13:56

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Pyridine | 1.361 | 1.358 | | -0.2 | |
| 2-Fluorophenol | 1.199 | 1.202 | | 0.3 | |
| Phenol-d6 | 1.578 | 1.546 | | -2.0 | |
| 1,4-Dichlorobenzene | 1.534 | 1.457 | | -5.0 | 20.0 |
| 2-Methylphenol | 1.102 | 1.055 | | -4.3 | |
| 3+4-Methylphenols | 1.474 | 1.406 | | -4.6 | |
| Nitrobenzene-d5 | 0.385 | 0.379 | | -1.6 | |
| Hexachloroethane | 0.555 | 0.534 | | -3.8 | |
| Nitrobenzene | 0.350 | 0.343 | | -2.0 | |
| Hexachlorobutadiene | 0.190 | 0.177 | | -6.8 | 20.0 |
| 2,4,6-Trichlorophenol | 0.380 | 0.368 | | -3.2 | 20.0 |
| 2-Fluorobiphenyl | 1.477 | 1.393 | | -5.7 | |
| 2,4,5-Trichlorophenol | 0.417 | 0.407 | | -2.4 | |
| 2,4-Dinitrotoluene | 0.360 | 0.386 | | 7.2 | |
| 2,4,6-Tribromophenol | 0.227 | 0.225 | | -0.9 | |
| Hexachlorobenzene | 0.249 | 0.231 | | -7.2 | |
| Pentachlorophenol | 0.162 | 0.161 | | -0.6 | 20.0 |
| Terphenyl-d14 | 1.055 | 0.942 | | -10.7 | |

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_M Calibration Date/Time: 06/06/2025 21:23

Lab File ID: BM050223.D Init. Calib. Date(s): 06/05/2025 06/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:20 13:56

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Pyridine | 1.361 | 1.385 | | 1.8 | |
| 2-Fluorophenol | 1.199 | 1.211 | | 1.0 | |
| Phenol-d6 | 1.578 | 1.509 | | -4.4 | |
| 1,4-Dichlorobenzene | 1.534 | 1.456 | | -5.1 | 20.0 |
| 2-Methylphenol | 1.102 | 1.030 | | -6.5 | |
| 3+4-Methylphenols | 1.474 | 1.350 | | -8.4 | |
| Nitrobenzene-d5 | 0.385 | 0.383 | | -0.5 | |
| Hexachloroethane | 0.555 | 0.553 | | -0.4 | |
| Nitrobenzene | 0.350 | 0.352 | | 0.6 | |
| Hexachlorobutadiene | 0.190 | 0.178 | | -6.3 | 20.0 |
| 2,4,6-Trichlorophenol | 0.380 | 0.368 | | -3.2 | 20.0 |
| 2-Fluorobiphenyl | 1.477 | 1.470 | | -0.5 | |
| 2,4,5-Trichlorophenol | 0.417 | 0.402 | | -3.6 | |
| 2,4-Dinitrotoluene | 0.360 | 0.337 | | -6.4 | |
| 2,4,6-Tribromophenol | 0.227 | 0.216 | | -4.8 | |
| Hexachlorobenzene | 0.249 | 0.244 | | -2.0 | |
| Pentachlorophenol | 0.162 | 0.221 | | 36.4 | 20.0 |
| Terphenyl-d14 | 1.055 | 1.019 | | -3.4 | |

All other compounds must meet a minimum RRF of 0.010.

# SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060525\
Data File : BM050203.D
Acq On : 05 Jun 2025 16:35
Operator : RC/JU
Sample : PB168224TB
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PB168224TB

Quant Time: Jun 05 17:43:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

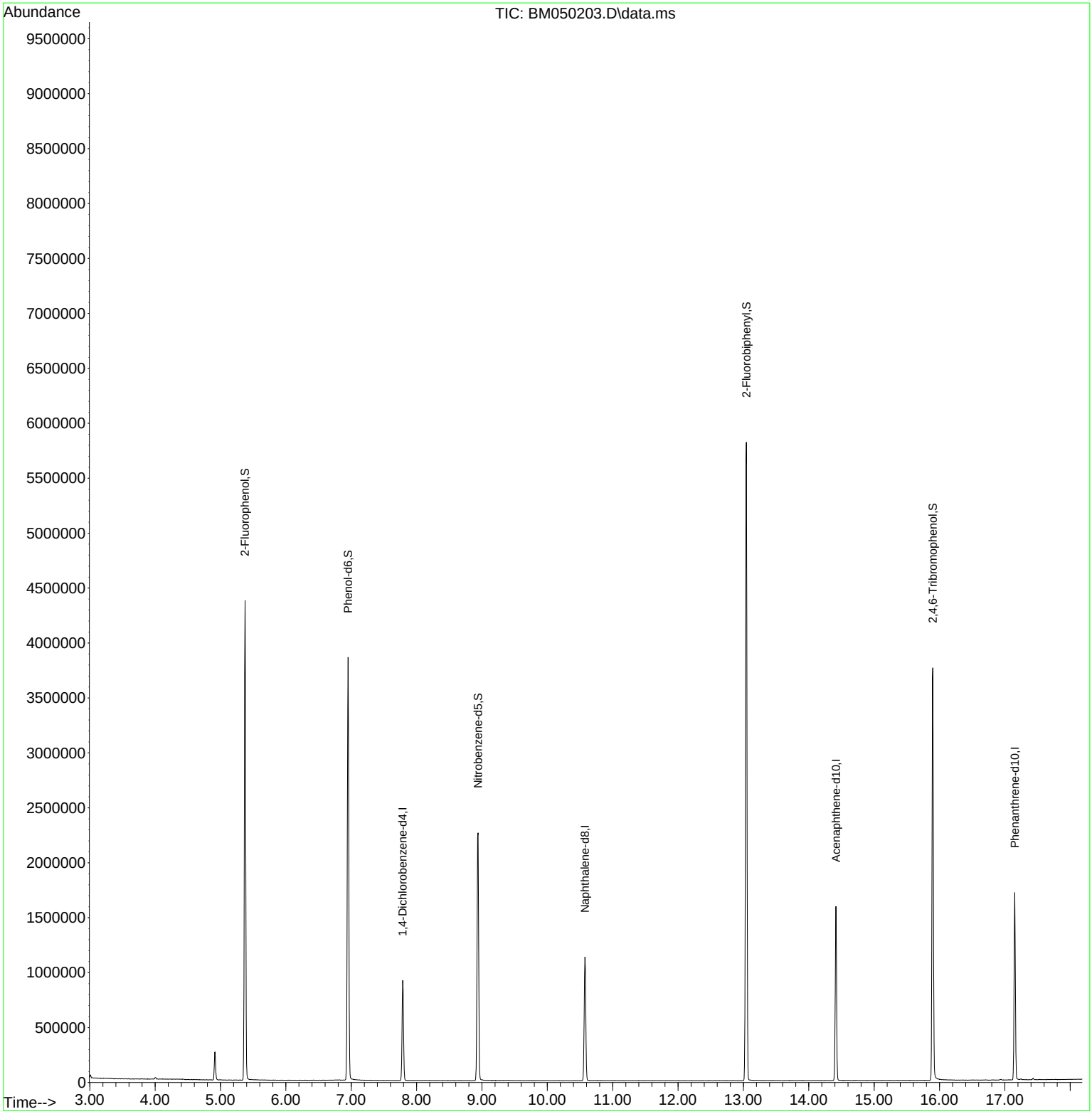
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.787 | 152 | 259307 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.575 | 136 | 956559 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 14.416 | 164 | 522891 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 17.151 | 188 | 932766 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 21.380 | 240 | 869671 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 24.374 | 264 | 921150 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.375 | 112 | 2041130 | 131.307 | ng | 0.00 |
| 7) Phenol-d6 | 6.952 | 99 | 2485850 | 121.480 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 8.940 | 82 | 1472280 | 80.048 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.898 | 330 | 712283 | 119.761 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 13.045 | 172 | 3094556 | 80.123 | ng | 0.00 |
| 79) Terphenyl-d14 | 19.780 | 244 | 3588909 | 78.203 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060525\
Data File : BM050203.D
Acq On : 05 Jun 2025 16:35
Operator : RC/JU
Sample : PB168224TB
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PB168224TB

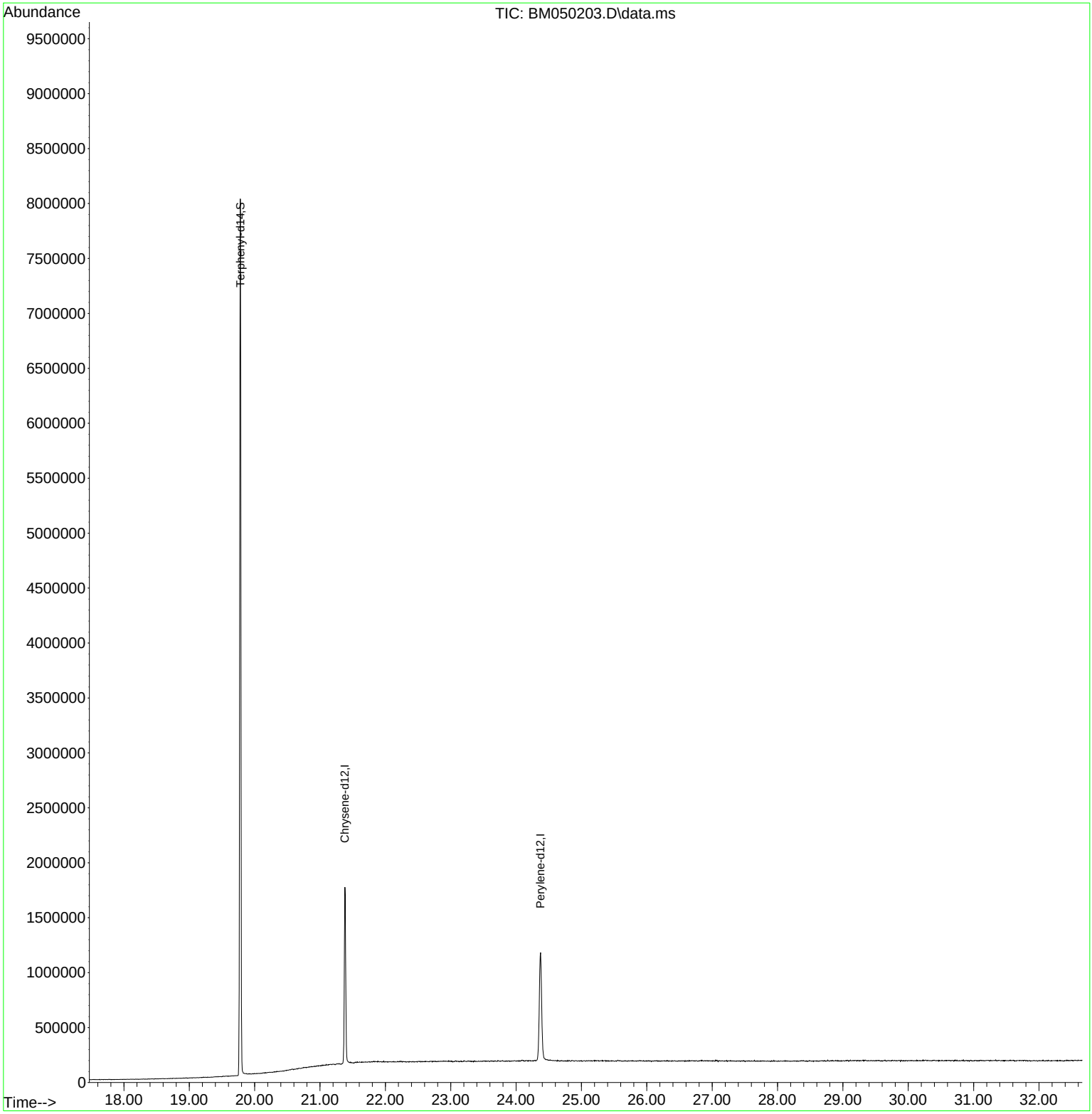
Quant Time: Jun 05 17:43:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

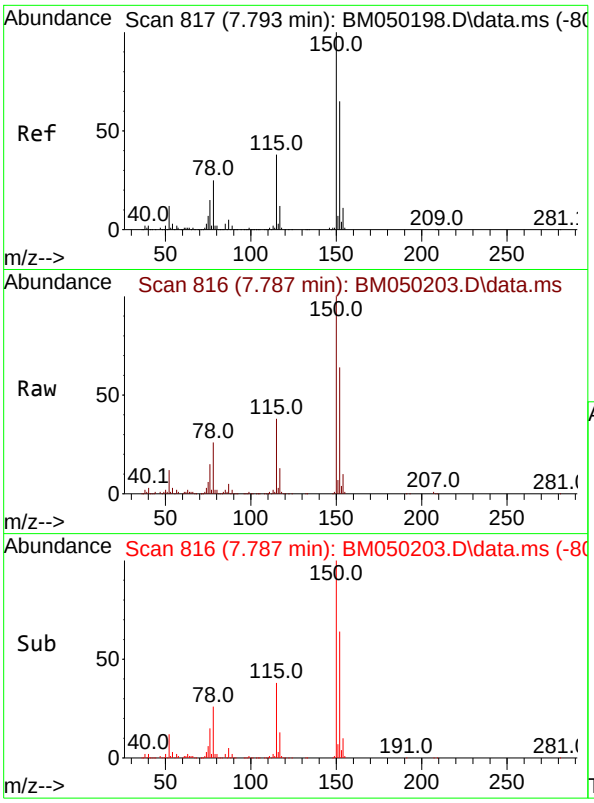


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060525\
Data File : BM050203.D
Acq On : 05 Jun 2025 16:35
Operator : RC/JU
Sample : PB168224TB
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PB168224TB

Quant Time: Jun 05 17:43:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



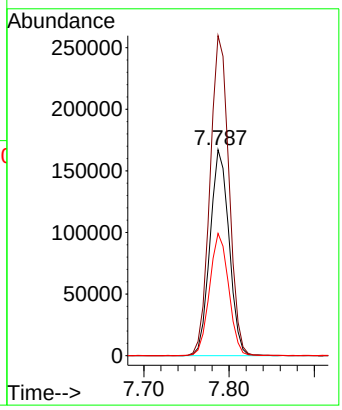


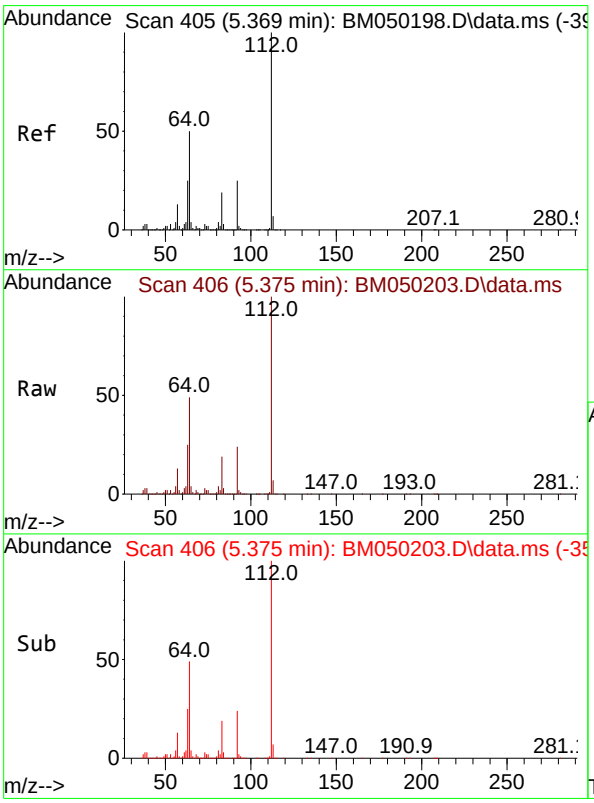

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.787 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

**Instrument :**
BNA_M
**ClientSampleId :**
PB168224TB

Tgt Ion:152 Resp: 259307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.4 | 122.2 | 183.4 |
| 115 | 59.4 | 46.3 | 69.5 |

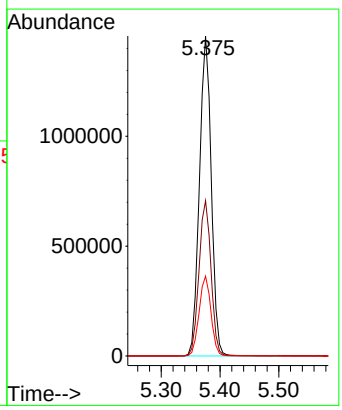


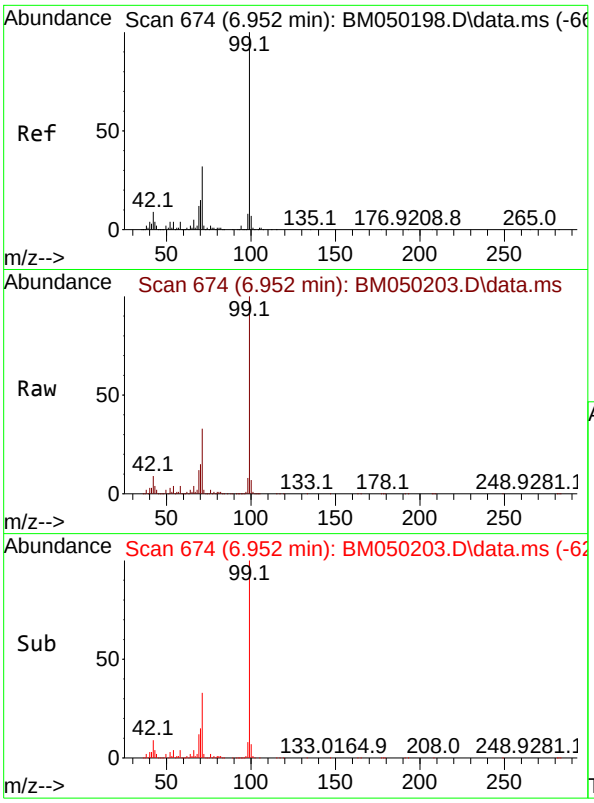




#5
2-Fluorophenol
Concen: 131.307 ng
RT: 5.375 min Scan# 406
Delta R.T. 0.000 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Tgt Ion:112 Resp: 2041130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 48.5 | 39.8 | 59.6 |
| 63 | 24.9 | 19.8 | 29.8 |



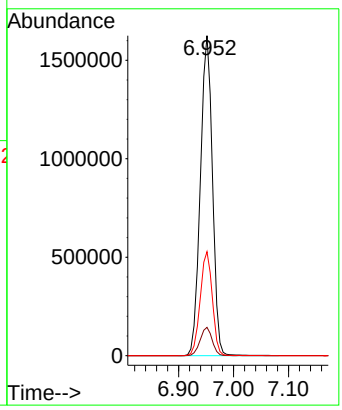


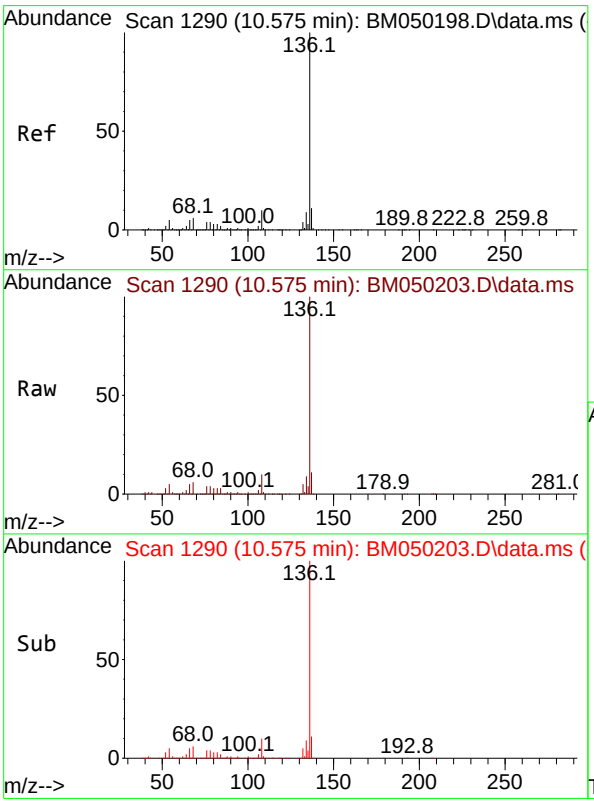

#7
Phenol-d6
Concen: 121.480 ng
RT: 6.952 min Scan# 6
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

**Instrument :**
BNA_M
**ClientSampleId :**
PB168224TB

Tgt Ion: 99 Resp: 2485850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 8.8 | 6.9 | 10.3 |
| 71 | 32.5 | 25.3 | 37.9 |

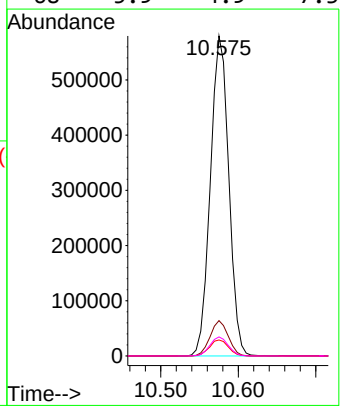


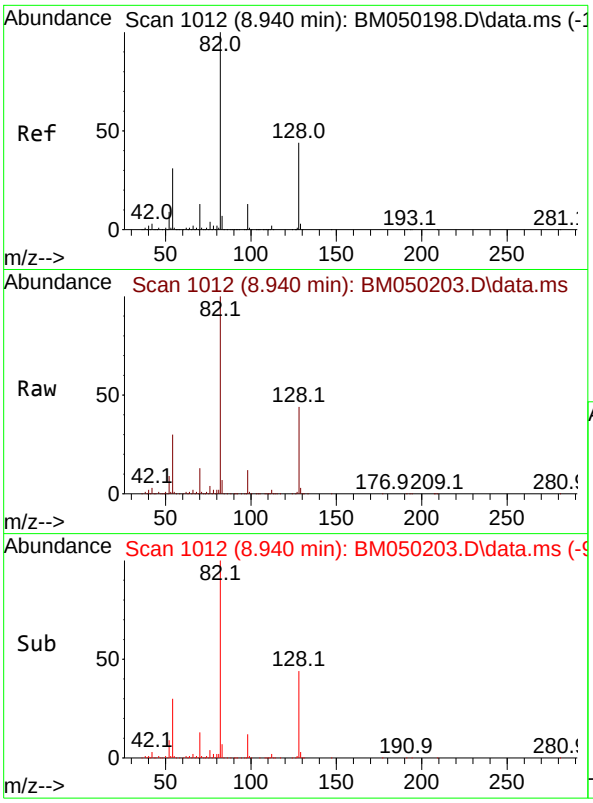




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.575 min Scan# 1290
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Tgt Ion:136 Resp: 956559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.1 | 8.6 | 13.0 |
| 54 | 5.0 | 3.8 | 5.8 |
| 68 | 5.9 | 4.9 | 7.3 |



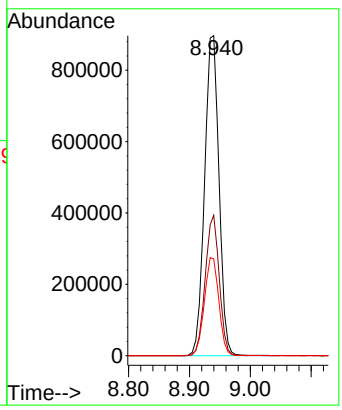


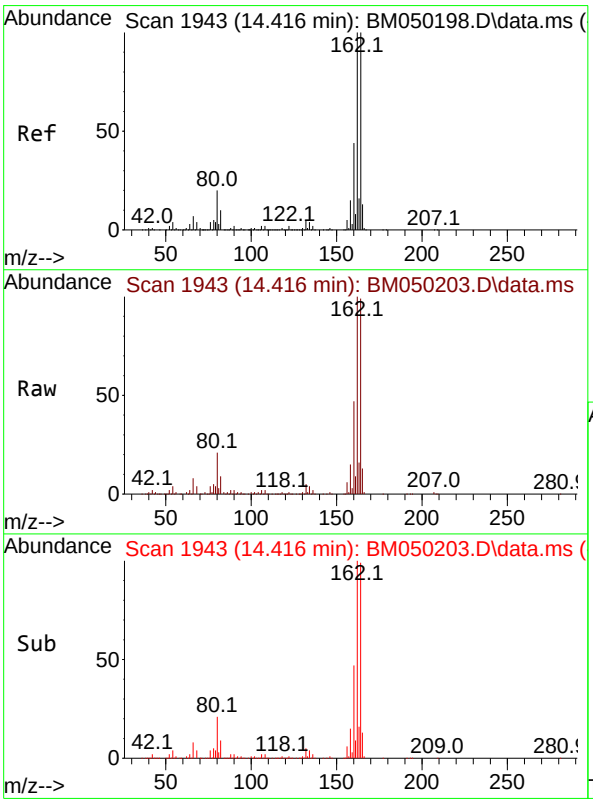

#23
Nitrobenzene-d5
Concen: 80.048 ng
RT: 8.940 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

**Instrument :**
BNA_M
**ClientSampleId :**
PB168224TB

Tgt Ion: 82 Resp: 1472280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.9 | 35.2 | 52.8 |
| 54 | 30.3 | 24.5 | 36.7 |

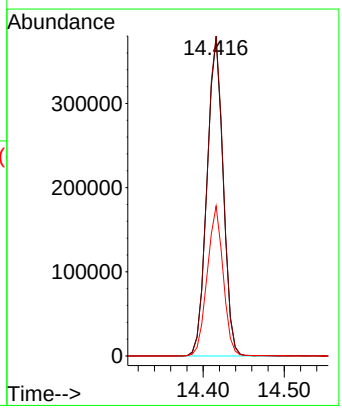


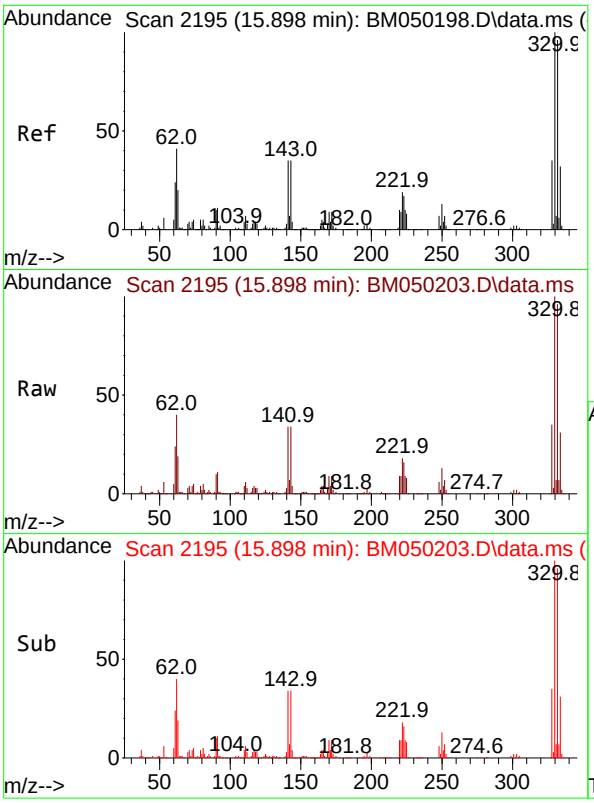




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.416 min Scan# 1943
Delta R.T. 0.000 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Tgt Ion:164 Resp: 522891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.8 | 80.2 | 120.4 |
| 160 | 47.2 | 35.7 | 53.5 |



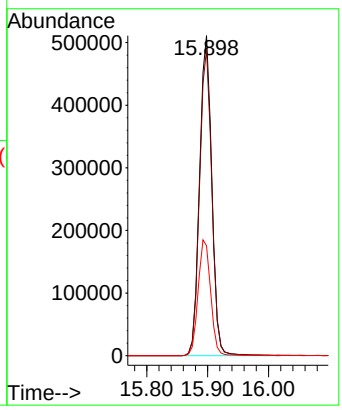


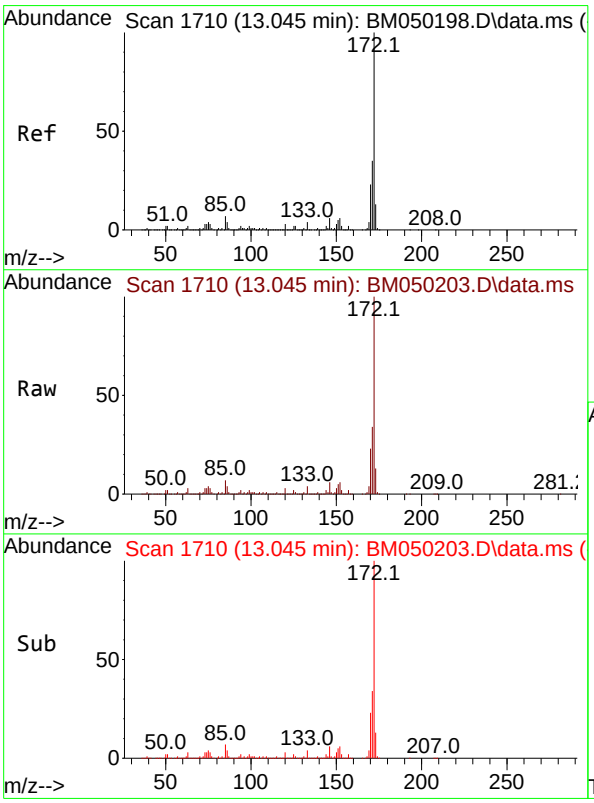

#42
2,4,6-Tribromophenol
Concen: 119.761 ng
RT: 15.898 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

**Instrument :**
BNA_M
**ClientSampleId :**
PB168224TB

Tgt Ion:330 Resp: 712283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.0 | 77.5 | 116.3 |
| 141 | 37.0 | 28.8 | 43.2 |

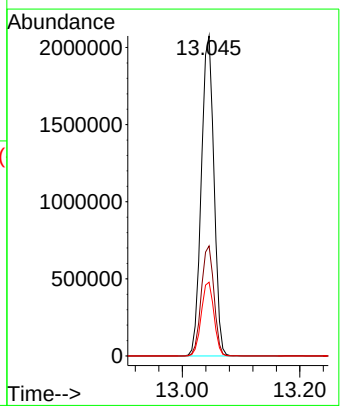


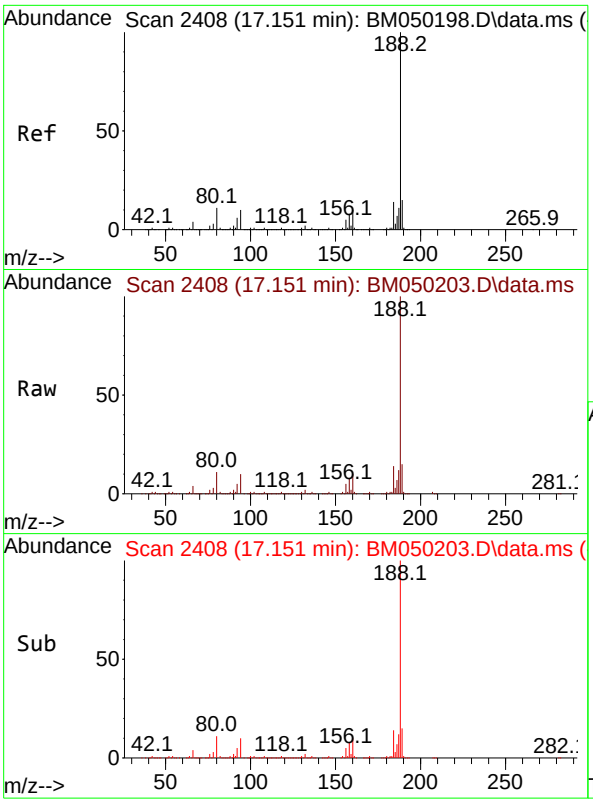




#45
2-Fluorobiphenyl
Concen: 80.123 ng
RT: 13.045 min Scan# 1710
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Tgt Ion:172 Resp: 3094556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.4 | 27.8 | 41.6 |
| 170 | 23.0 | 18.6 | 27.8 |



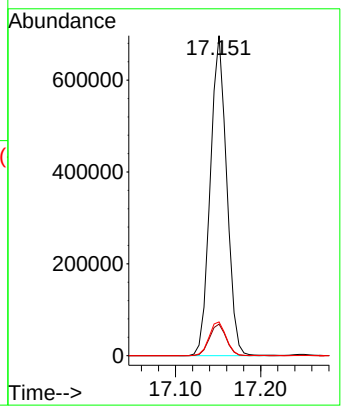


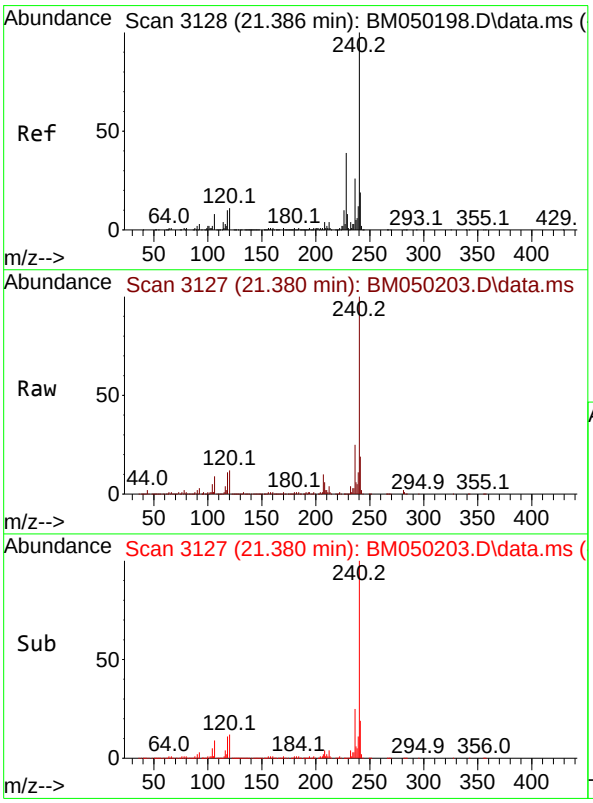

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.151 min Scan# 24
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

**Instrument :**
BNA_M
**ClientSampleId :**
PB168224TB

Tgt Ion:188 Resp: 932766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.9 | 8.1 | 12.1 |
| 80 | 10.6 | 8.6 | 13.0 |

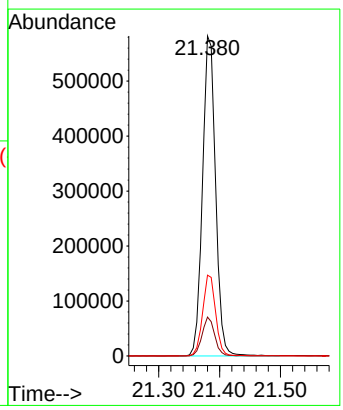


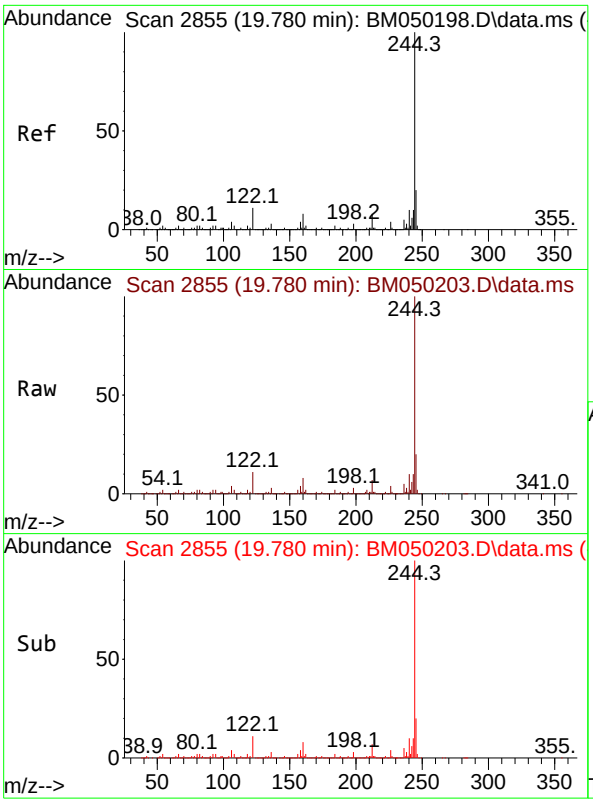




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.380 min Scan# 3127
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Tgt Ion:240 Resp: 869671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.2 | 9.0 | 13.4 |
| 236 | 25.2 | 20.7 | 31.1 |



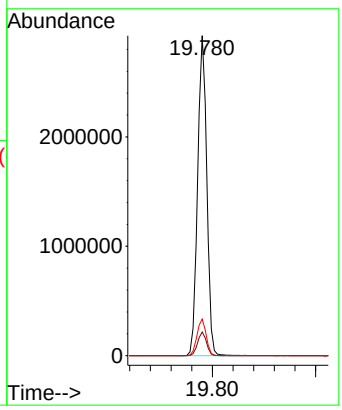


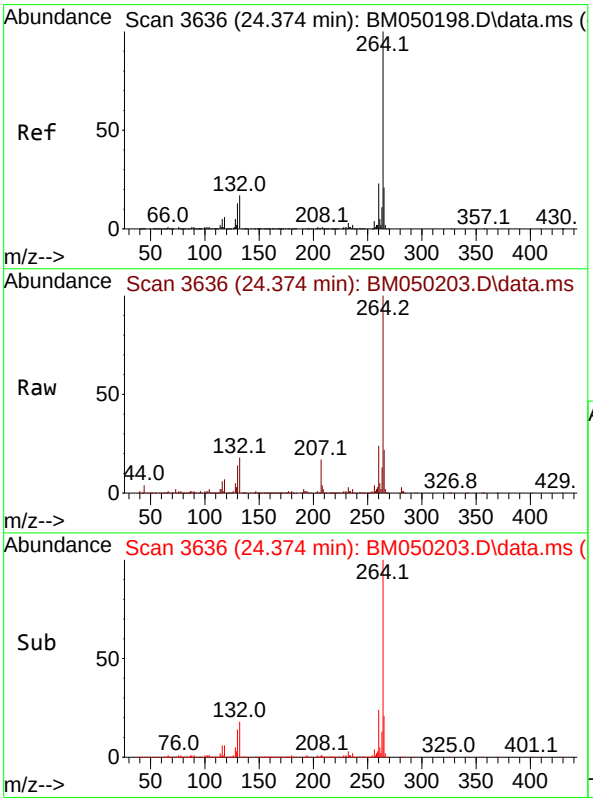

#79
Terphenyl-d14
Concen: 78.203 ng
RT: 19.780 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

**Instrument :**
BNA_M
**ClientSampleId :**
PB168224TB

Tgt Ion:244 Resp: 3588909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.4 | 6.0 | 9.0 |
| 122 | 11.4 | 8.6 | 12.8 |

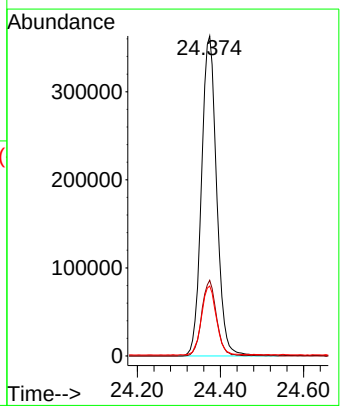



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.374 min Scan# 3636
Delta R.T. 0.000 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Tgt Ion:264 Resp: 921150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.6 | 18.6 | 28.0 |
| 265 | 21.8 | 16.8 | 25.2 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050209.D
Acq On : 06 Jun 2025 11:27
Operator : RC/JU
Sample : Q2177-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01

Quant Time: Jun 06 12:11:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

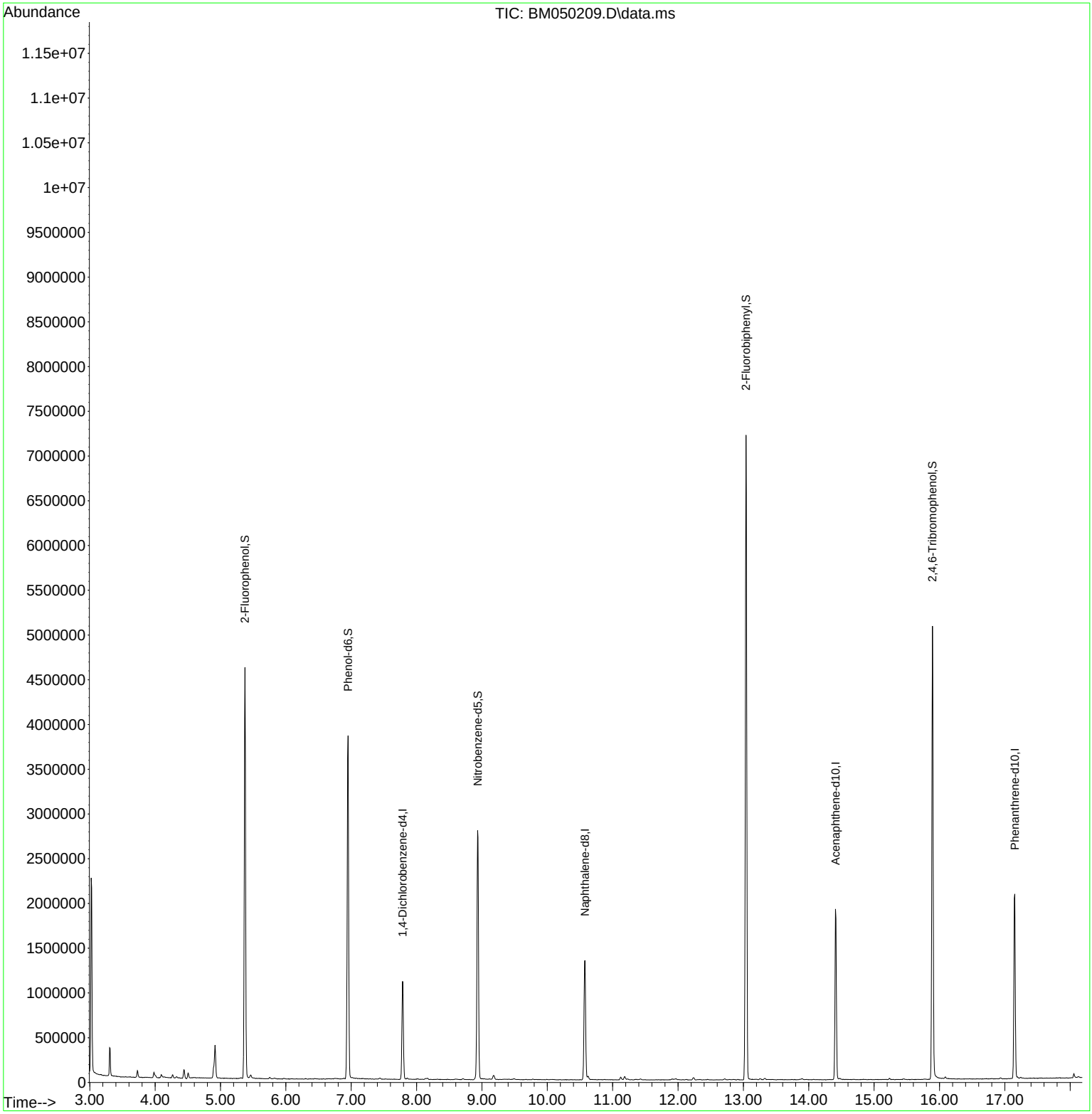
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.787 | 152 | 304642 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.575 | 136 | 1159115 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 14.410 | 164 | 659350 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 17.151 | 188 | 1216071 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 21.380 | 240 | 1157737 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 24.368 | 264 | 1244732 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.375 | 112 | 2178864 | 119.309 | ng | 0.00 |
| 7) Phenol-d6 | 6.951 | 99 | 2491728 | 103.646 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 8.934 | 82 | 1787618 | 80.208 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 15.892 | 330 | 943327 | 125.783 | ng | -0.01 |
| 45) 2-Fluorobiphenyl | 13.039 | 172 | 3806562 | 78.161 | ng | -0.01 |
| 79) Terphenyl-d14 | 19.780 | 244 | 4737529 | 77.545 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050209.D
Acq On : 06 Jun 2025 11:27
Operator : RC/JU
Sample : Q2177-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01

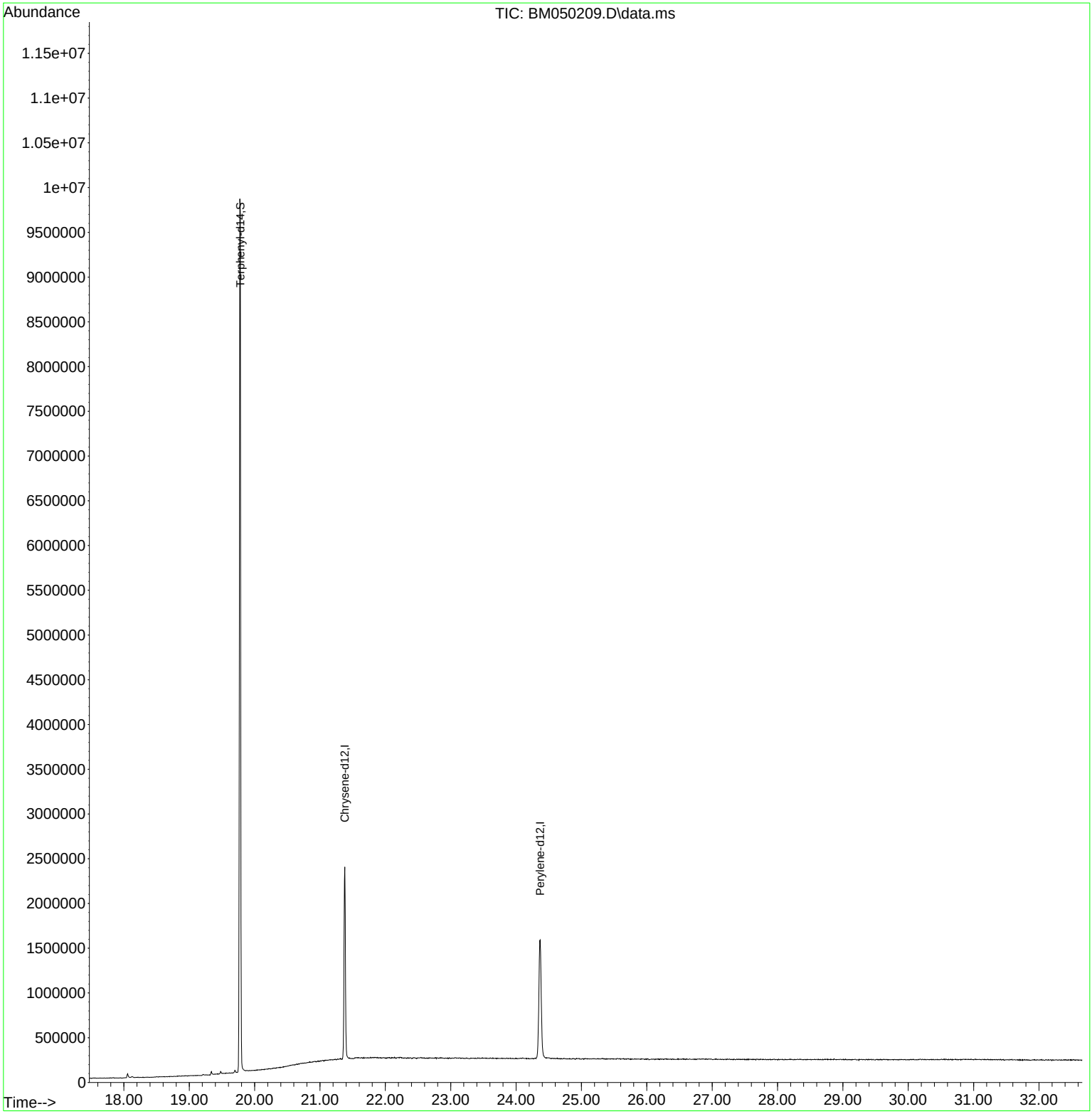
Quant Time: Jun 06 12:11:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

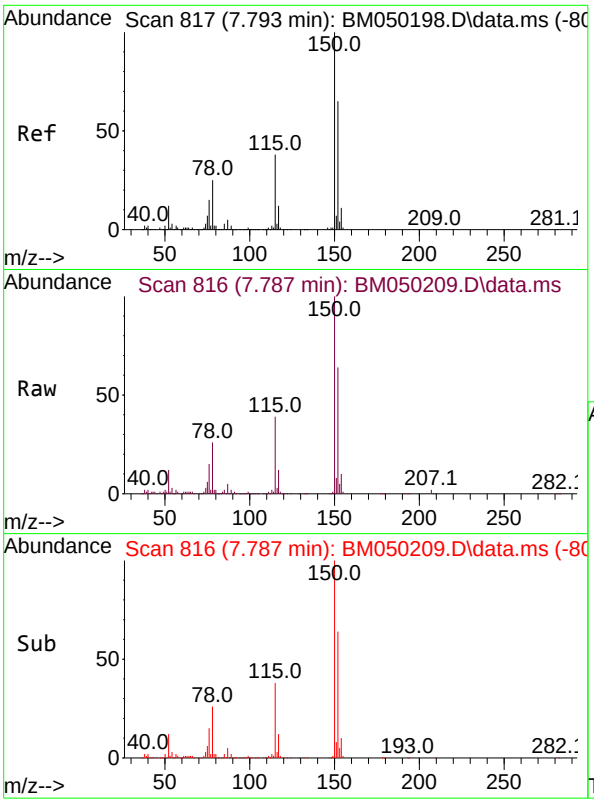


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050209.D
Acq On : 06 Jun 2025 11:27
Operator : RC/JU
Sample : Q2177-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01

Quant Time: Jun 06 12:11:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



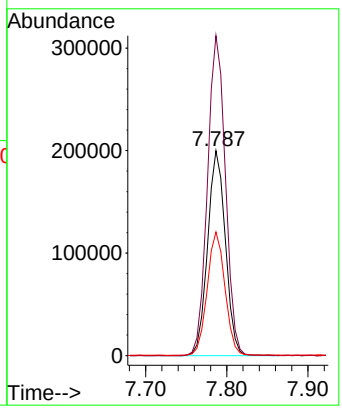


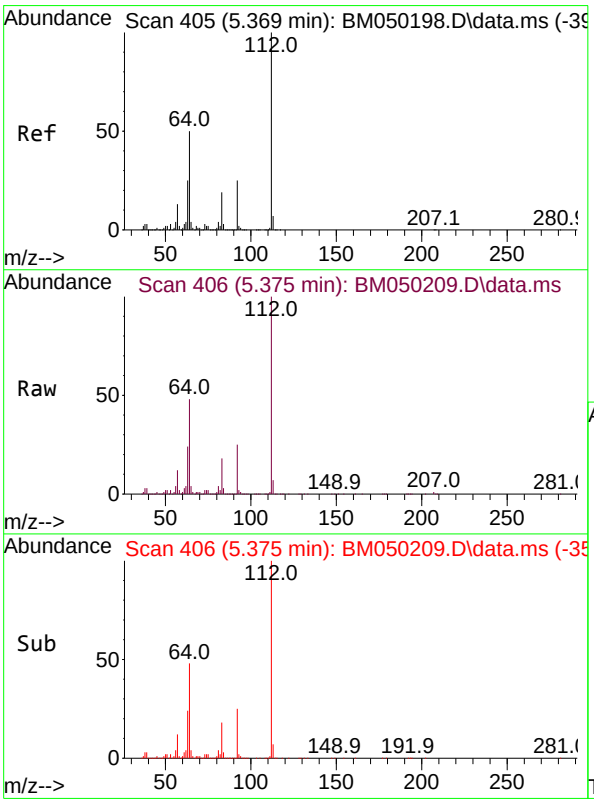

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.787 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01

Tgt Ion:152 Resp: 304642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.1 | 122.2 | 183.4 |
| 115 | 60.3 | 46.3 | 69.5 |

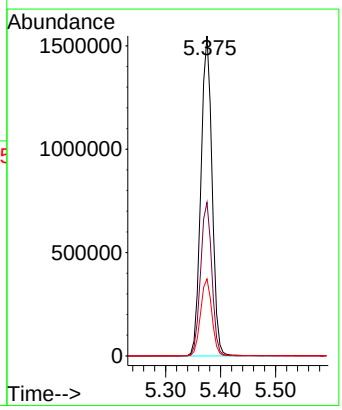


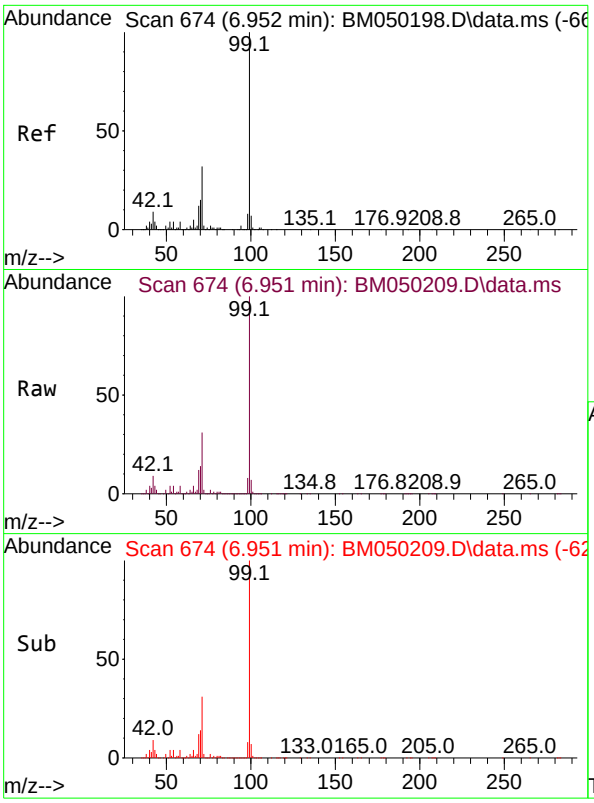




#5
2-Fluorophenol
Concen: 119.309 ng
RT: 5.375 min Scan# 406
Delta R.T. -0.000 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Tgt Ion:112 Resp: 2178864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 48.0 | 39.8 | 59.6 |
| 63 | 24.1 | 19.8 | 29.8 |



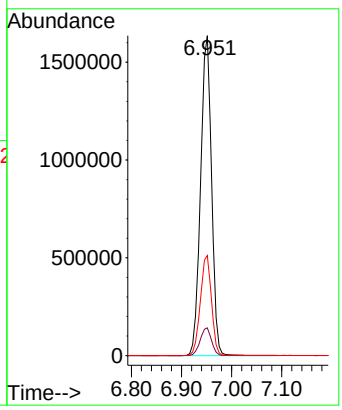


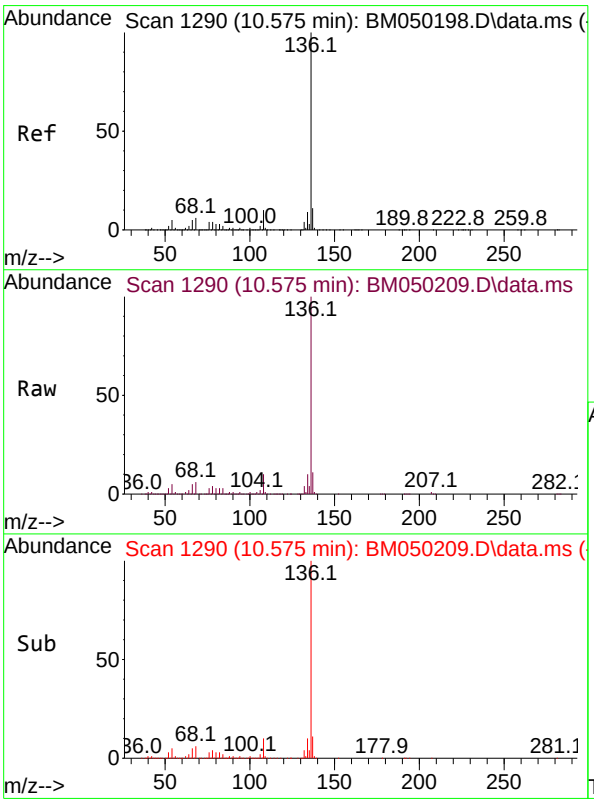

#7
Phenol-d6
Concen: 103.646 ng
RT: 6.951 min Scan# 6
Delta R.T. -0.006 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01

Tgt Ion: 99 Resp: 2491728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 8.7 | 6.9 | 10.3 |
| 71 | 31.3 | 25.3 | 37.9 |

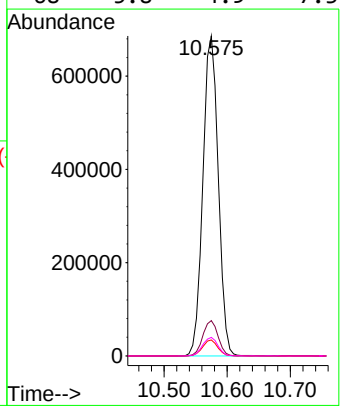


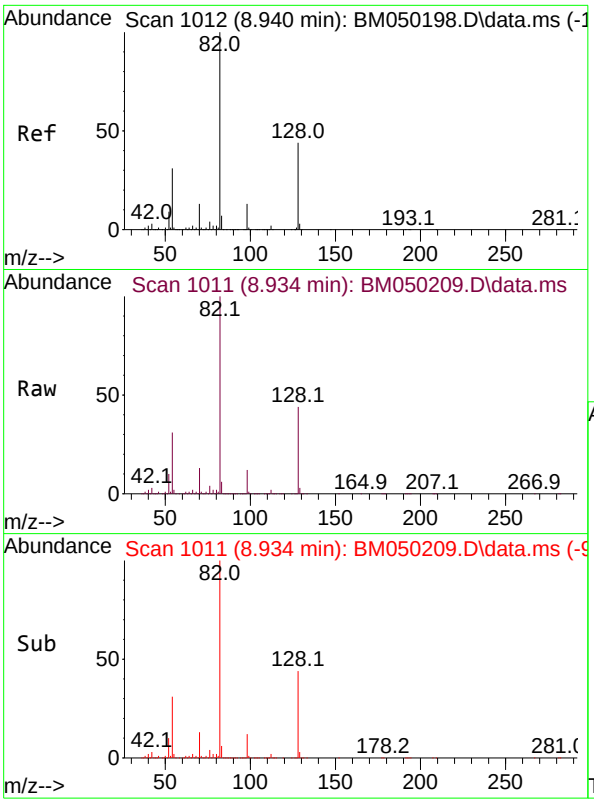




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.575 min Scan# 1290
Delta R.T. -0.006 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Tgt Ion:136 Resp: 1159115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.6 | 13.0 |
| 54 | 5.0 | 3.8 | 5.8 |
| 68 | 5.8 | 4.9 | 7.3 |



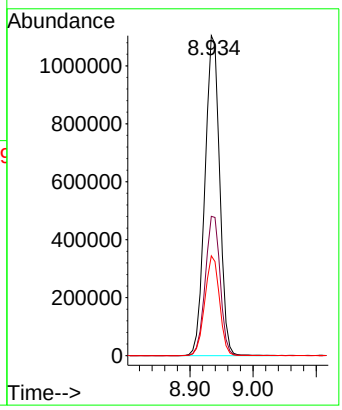


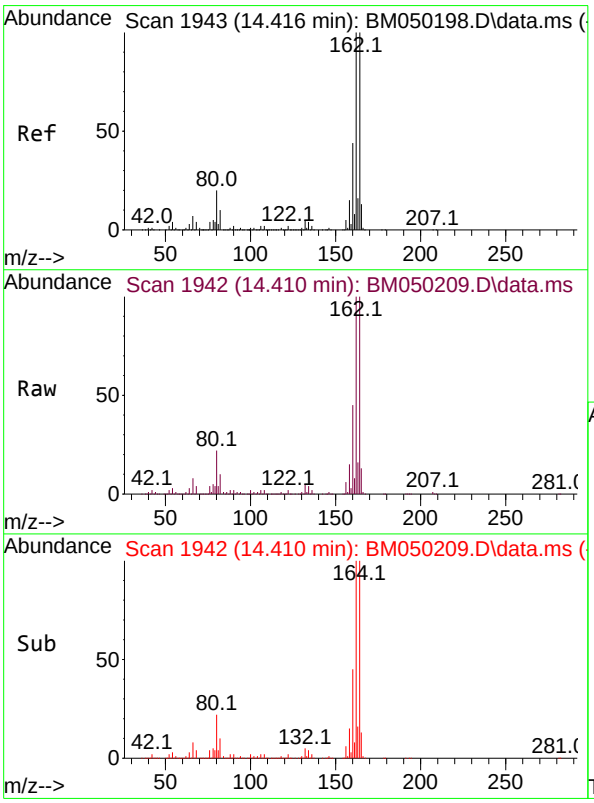

#23
Nitrobenzene-d5
Concen: 80.208 ng
RT: 8.934 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01

Tgt Ion: 82 Resp: 1787618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.5 | 35.2 | 52.8 |
| 54 | 31.2 | 24.5 | 36.7 |

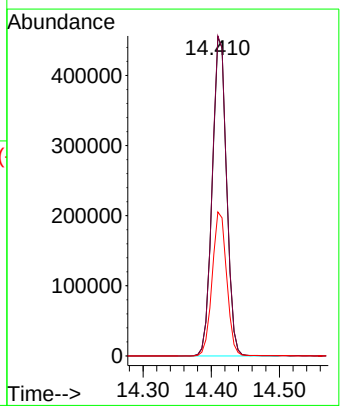


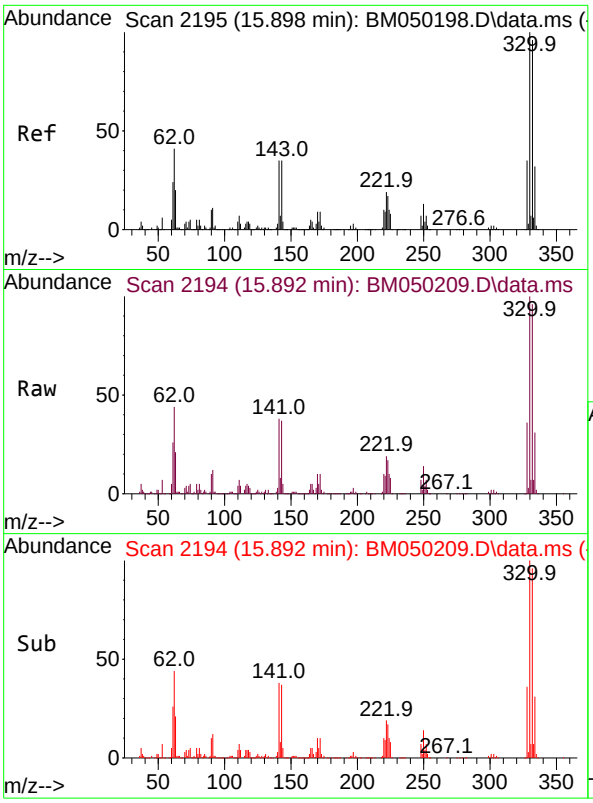




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.006 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Tgt Ion:164 Resp: 659350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.4 | 80.2 | 120.4 |
| 160 | 45.2 | 35.7 | 53.5 |



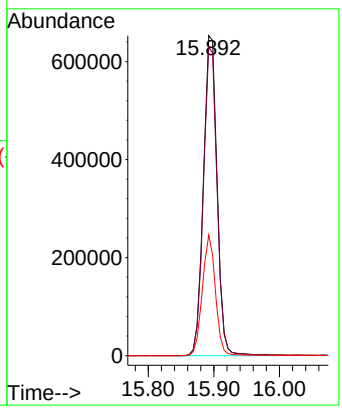


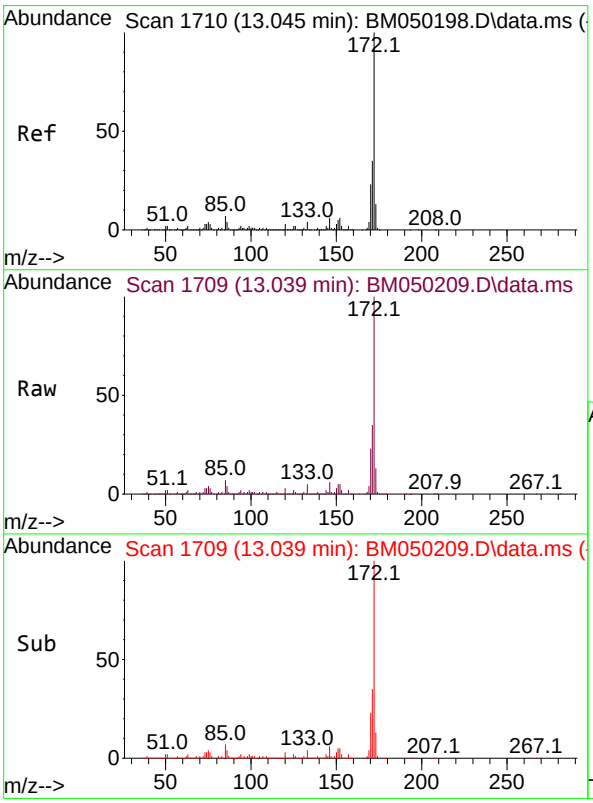

#42
2,4,6-Tribromophenol
Concen: 125.783 ng
RT: 15.892 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01

Tgt Ion:330 Resp: 943327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.4 | 77.5 | 116.3 |
| 141 | 36.0 | 28.8 | 43.2 |

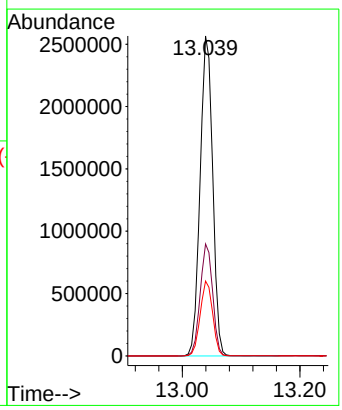


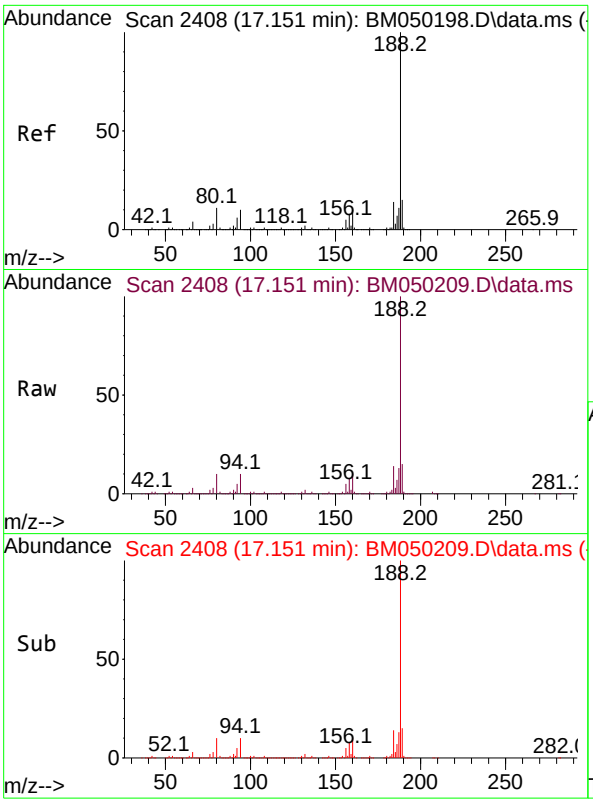




#45
2-Fluorobiphenyl
Concen: 78.161 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Tgt Ion:172 Resp: 3806562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.0 | 27.8 | 41.6 |
| 170 | 23.4 | 18.6 | 27.8 |



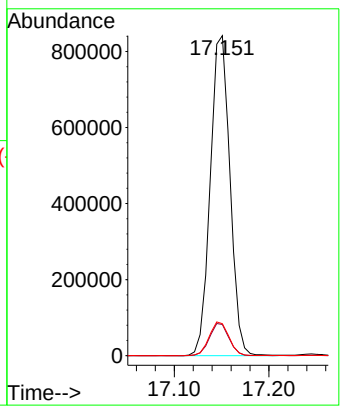


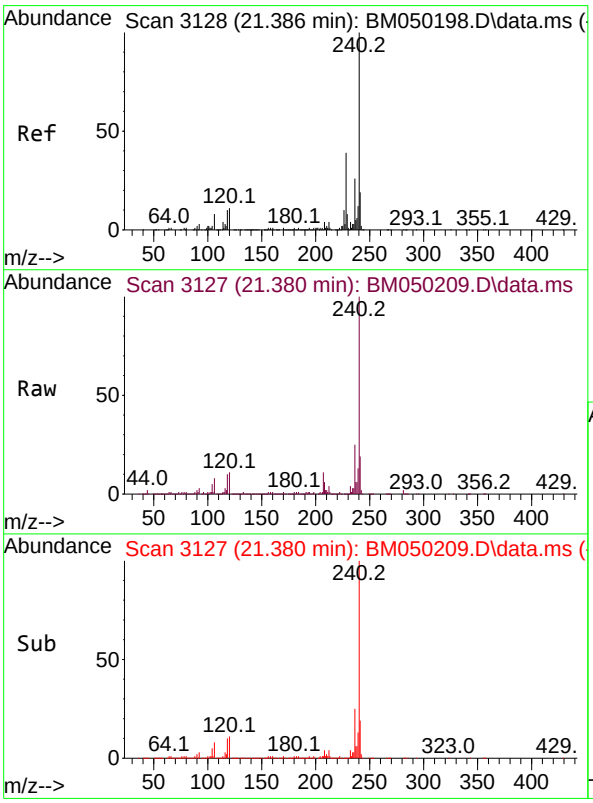

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.151 min Scan# 24
Delta R.T. -0.006 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01

Tgt Ion:188 Resp: 1216071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.7 | 8.1 | 12.1 |
| 80 | 10.0 | 8.6 | 13.0 |

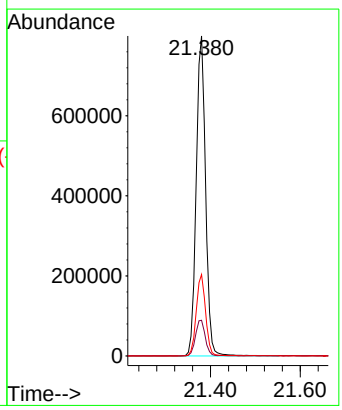


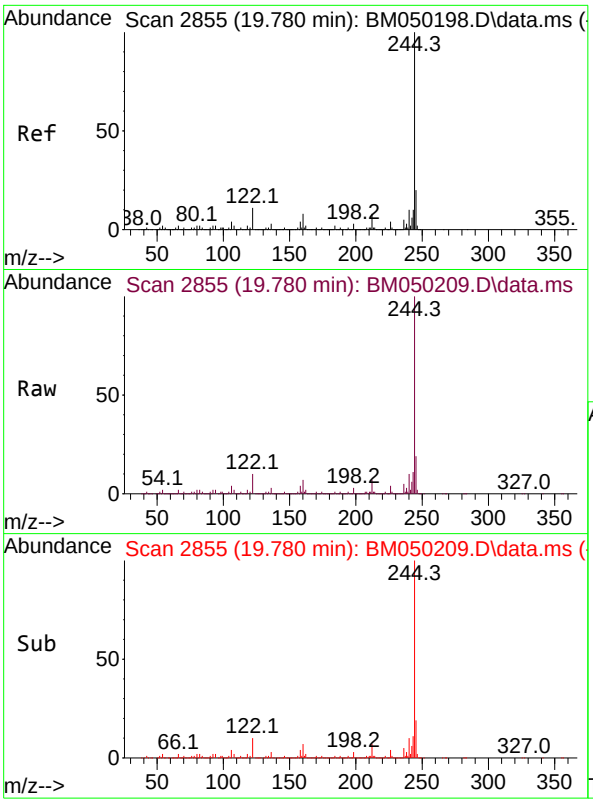




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.380 min Scan# 3127
Delta R.T. -0.006 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Tgt Ion:240 Resp: 1157737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.1 | 9.0 | 13.4 |
| 236 | 25.4 | 20.7 | 31.1 |



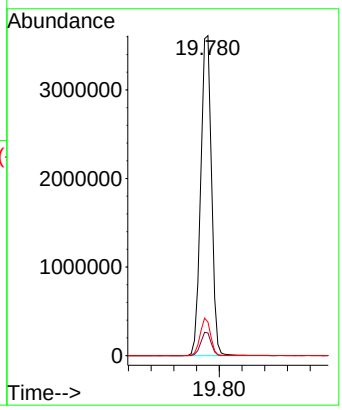


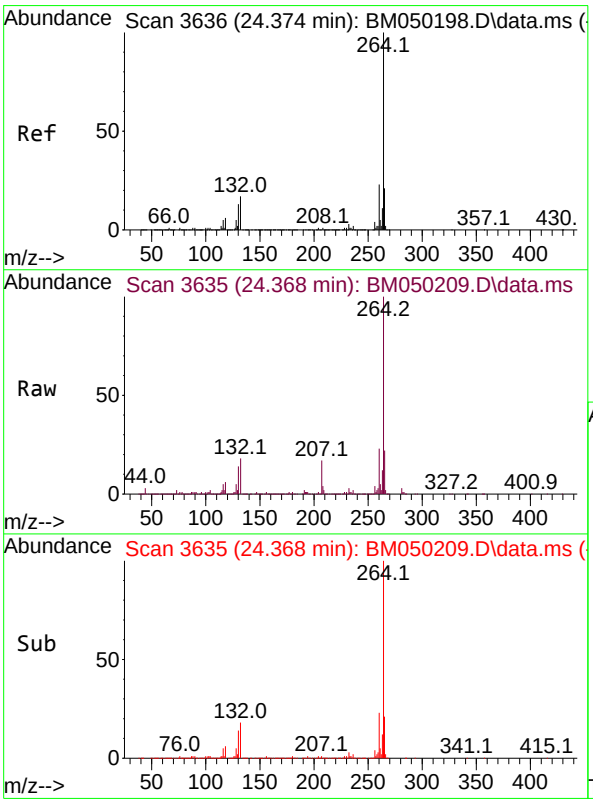

#79
Terphenyl-d14
Concen: 77.545 ng
RT: 19.780 min Scan# 28
Delta R.T. -0.006 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01

Tgt Ion:244 Resp: 4737529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 6.0 | 9.0 |
| 122 | 10.5 | 8.6 | 12.8 |

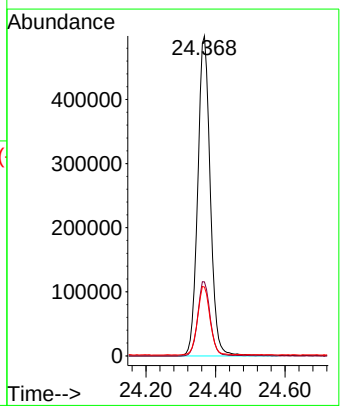



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.368 min Scan# 3635
Delta R.T. -0.006 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Tgt Ion:264 Resp: 1244732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.1 | 18.6 | 28.0 |
| 265 | 21.5 | 16.8 | 25.2 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050232.D
Acq On : 07 Jun 2025 03:20
Operator : RC/JU
Sample : Q2177-05
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB02

Quant Time: Jun 07 04:09:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

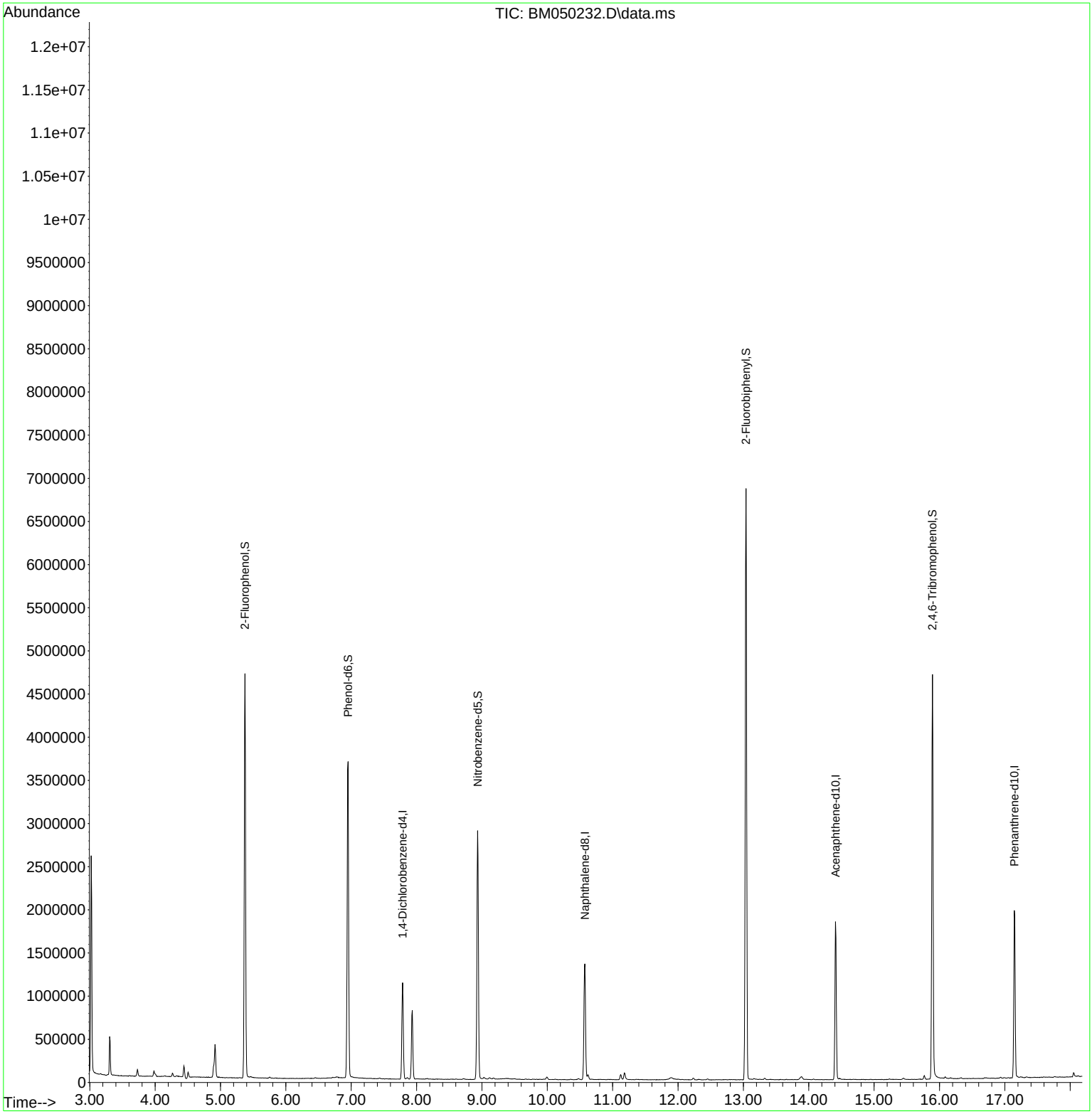
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.786 | 152 | 305472 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.575 | 136 | 1153728 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 14.410 | 164 | 611005 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 17.145 | 188 | 1089581 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 21.374 | 240 | 1091419 | 20.000 | ng | -0.01 |
| 86) Perylene-d12 | 24.362 | 264 | 1171439 | 20.000 | ng | -0.01 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.375 | 112 | 2187255 | 119.443 | ng | 0.00 |
| 7) Phenol-d6 | 6.951 | 99 | 2358204 | 97.826 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 8.933 | 82 | 1789228 | 80.655 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 15.892 | 330 | 838659 | 120.675 | ng | -0.01 |
| 45) 2-Fluorobiphenyl | 13.039 | 172 | 3530581 | 78.230 | ng | -0.01 |
| 79) Terphenyl-d14 | 19.774 | 244 | 4581312 | 79.545 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050232.D
Acq On : 07 Jun 2025 03:20
Operator : RC/JU
Sample : Q2177-05
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB02

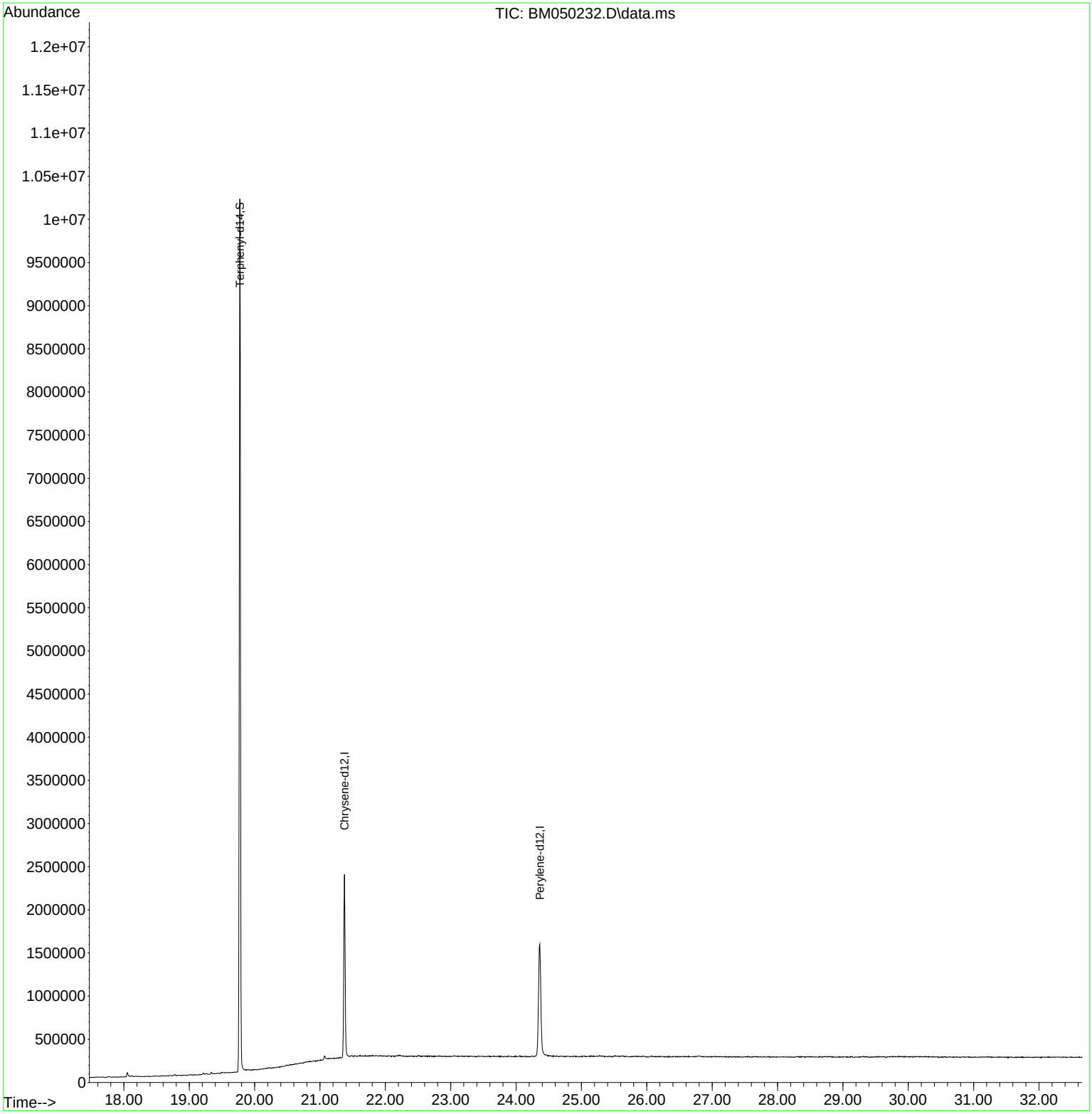
Quant Time: Jun 07 04:09:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

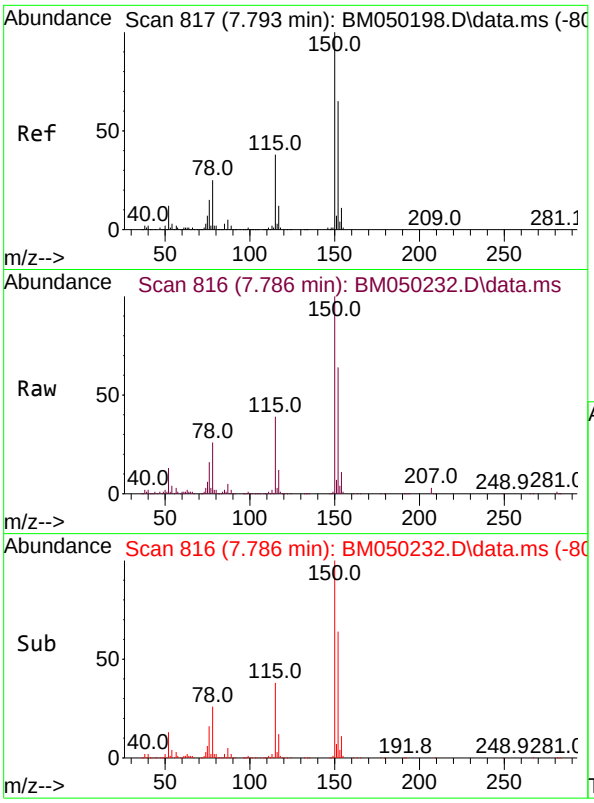


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050232.D
Acq On : 07 Jun 2025 03:20
Operator : RC/JU
Sample : Q2177-05
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB02

Quant Time: Jun 07 04:09:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



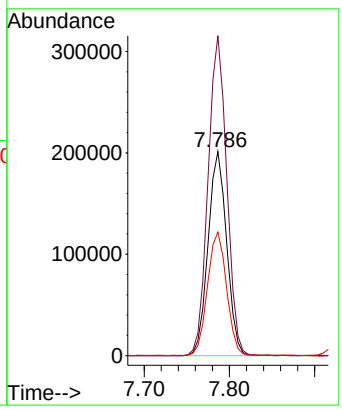


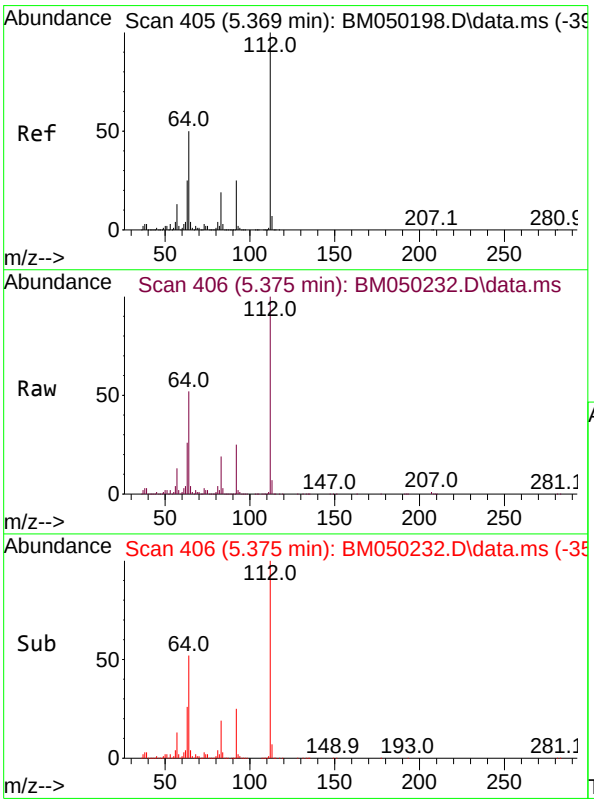

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.786 min Scan# 81
Delta R.T. -0.007 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB02

Tgt Ion:152 Resp: 305472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.8 | 122.2 | 183.4 |
| 115 | 60.5 | 46.3 | 69.5 |

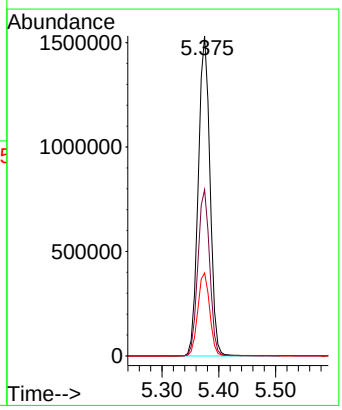


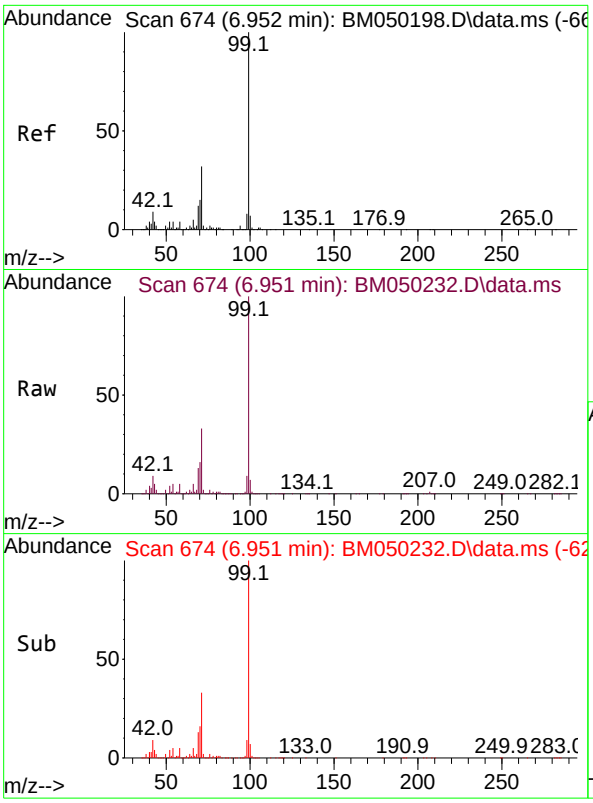

#5
2-Fluorophenol
Concen: 119.443 ng
RT: 5.375 min Scan# 406
Delta R.T. -0.000 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Tgt Ion:112 Resp: 2187255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.9 | 39.8 | 59.6 |
| 63 | 25.9 | 19.8 | 29.8 |



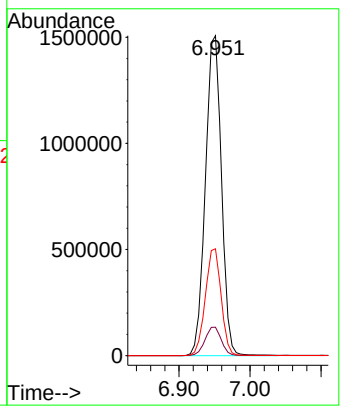
**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB02

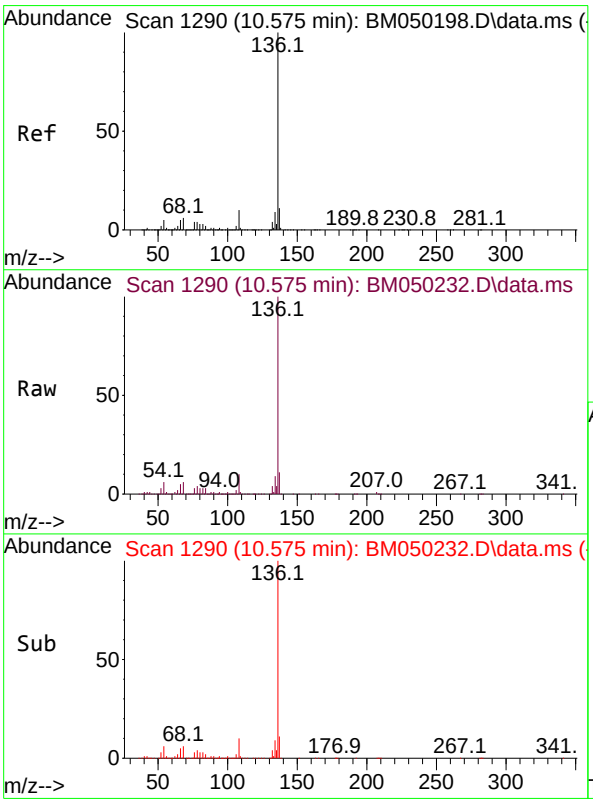



#7
Phenol-d6
Concen: 97.826 ng
RT: 6.951 min Scan# 6
Delta R.T. -0.006 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Tgt Ion: 99 Resp: 2358204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 8.9 | 6.9 | 10.3 |
| 71 | 33.4 | 25.3 | 37.9 |

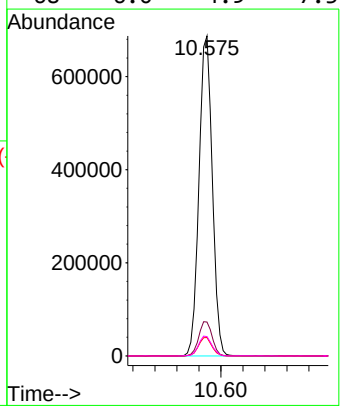


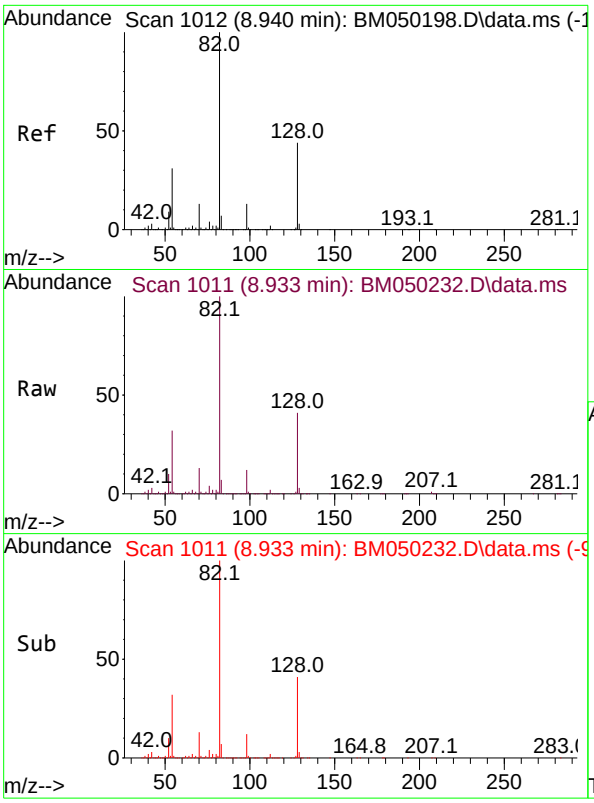




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.575 min Scan# 1290
Delta R.T. -0.006 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Tgt Ion:136 Resp: 1153728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.6 | 8.6 | 13.0 |
| 54 | 5.7 | 3.8 | 5.8 |
| 68 | 6.0 | 4.9 | 7.3 |



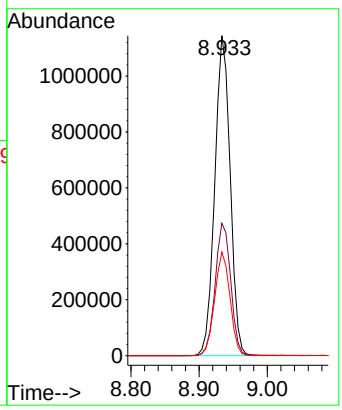


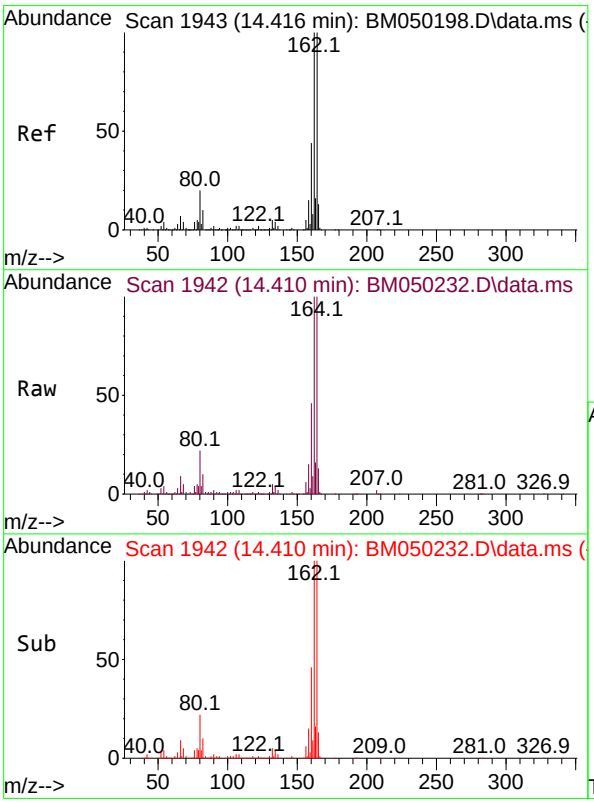

#23
Nitrobenzene-d5
Concen: 80.655 ng
RT: 8.933 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB02

Tgt Ion: 82 Resp: 1789228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.3 | 35.2 | 52.8 |
| 54 | 32.3 | 24.5 | 36.7 |

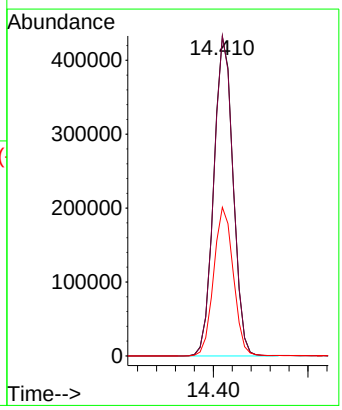


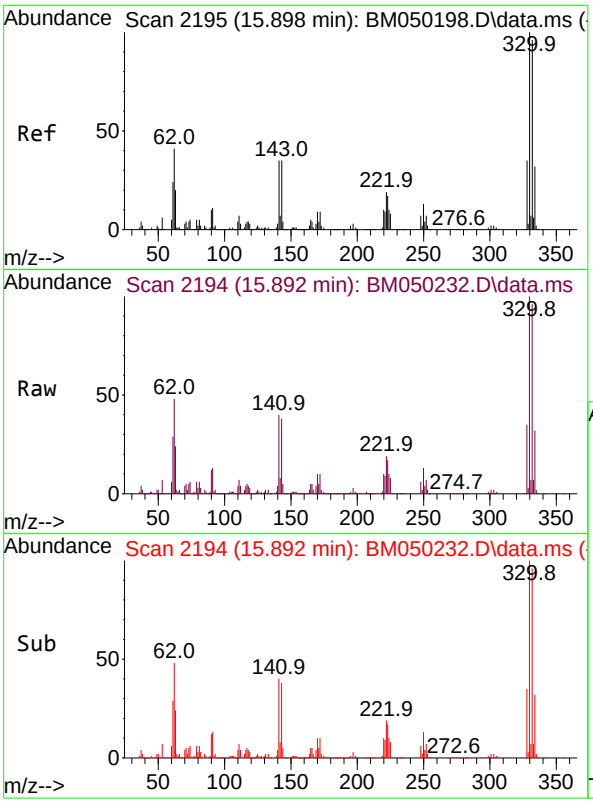




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.006 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Tgt Ion:164 Resp: 611005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.2 | 80.2 | 120.4 |
| 160 | 46.5 | 35.7 | 53.5 |



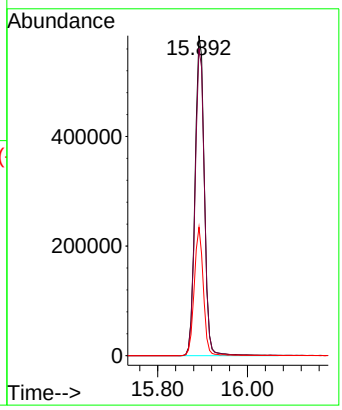


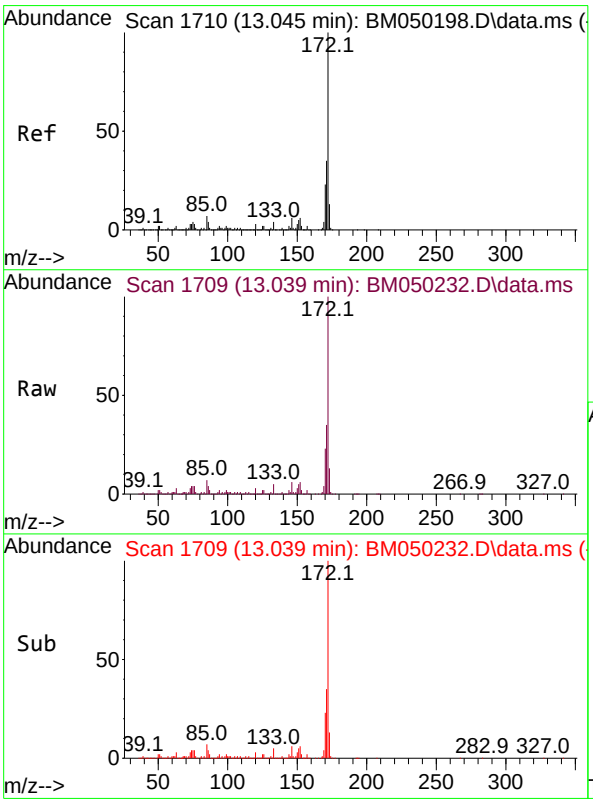

#42
2,4,6-Tribromophenol
Concen: 120.675 ng
RT: 15.892 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB02

Tgt Ion:330 Resp: 838659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.2 | 77.5 | 116.3 |
| 141 | 38.9 | 28.8 | 43.2 |

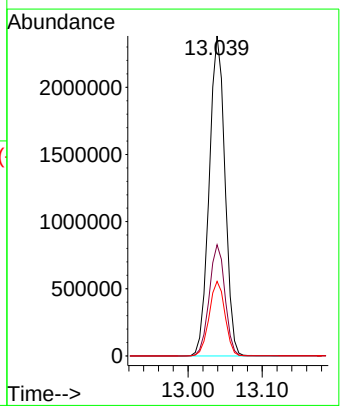


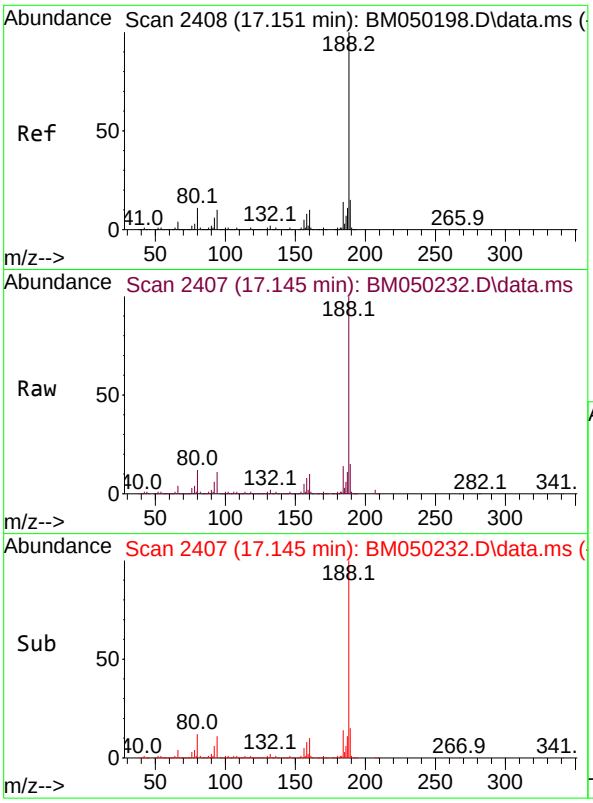




#45
2-Fluorobiphenyl
Concen: 78.230 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Tgt Ion:172 Resp: 3530581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.7 | 27.8 | 41.6 |
| 170 | 23.3 | 18.6 | 27.8 |



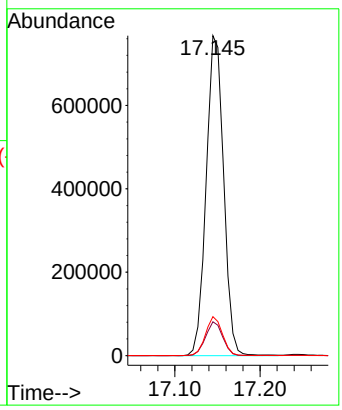


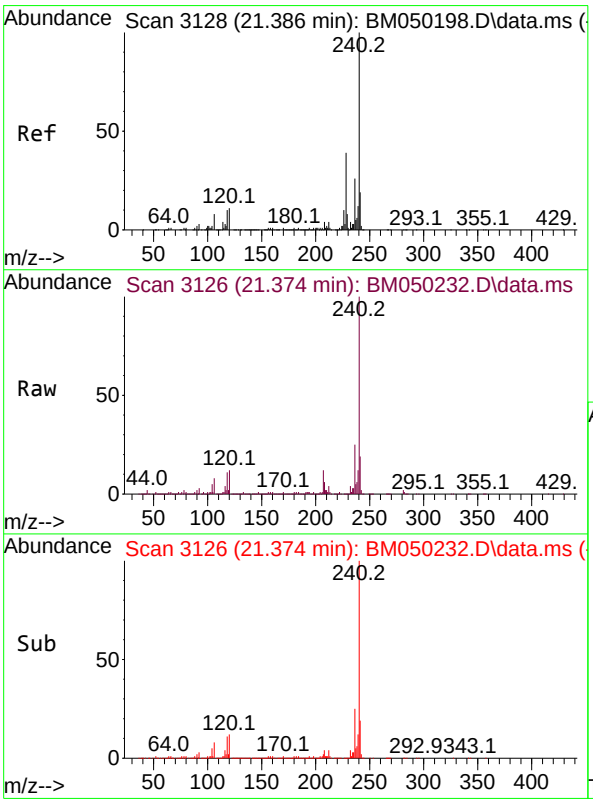

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.145 min Scan# 24
Delta R.T. -0.012 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB02

Tgt Ion:188 Resp: 1089581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.6 | 8.1 | 12.1 |
| 80 | 12.2 | 8.6 | 13.0 |

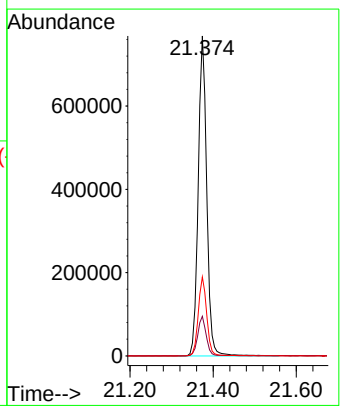


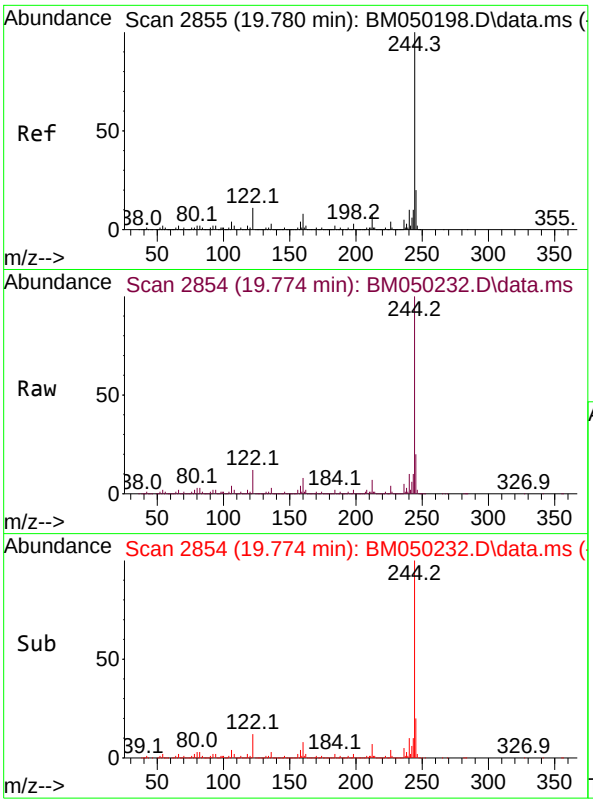




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.374 min Scan# 3126
Delta R.T. -0.012 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Tgt Ion:240 Resp: 1091419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.4 | 9.0 | 13.4 |
| 236 | 24.7 | 20.7 | 31.1 |



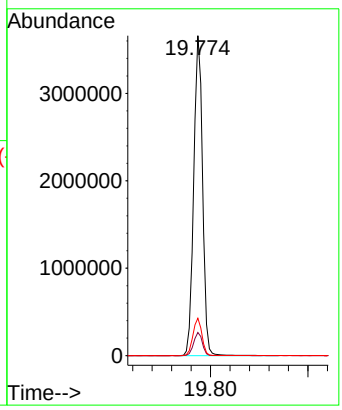


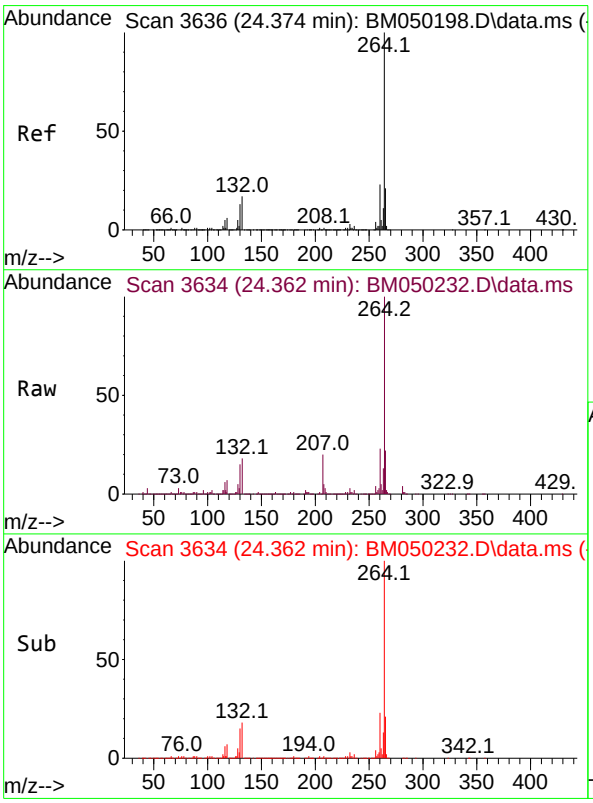

#79
Terphenyl-d14
Concen: 79.545 ng
RT: 19.774 min Scan# 2
Delta R.T. -0.012 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB02

Tgt Ion:244 Resp: 4581312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.2 | 6.0 | 9.0 |
| 122 | 11.7 | 8.6 | 12.8 |

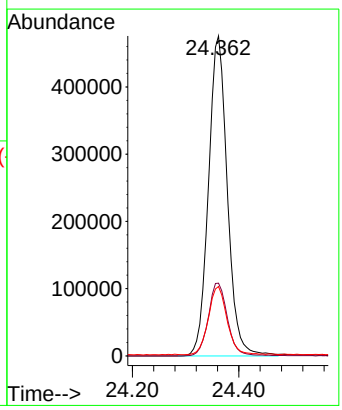



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.362 min Scan# 3634
Delta R.T. -0.012 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Tgt Ion:264 Resp: 1171439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 22.7 | 18.6 | 28.0 |
| 265 | 21.7 | 16.8 | 25.2 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050233.D
Acq On : 07 Jun 2025 04:00
Operator : RC/JU
Sample : Q2177-07
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
B-202-SB01

Quant Time: Jun 07 05:36:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

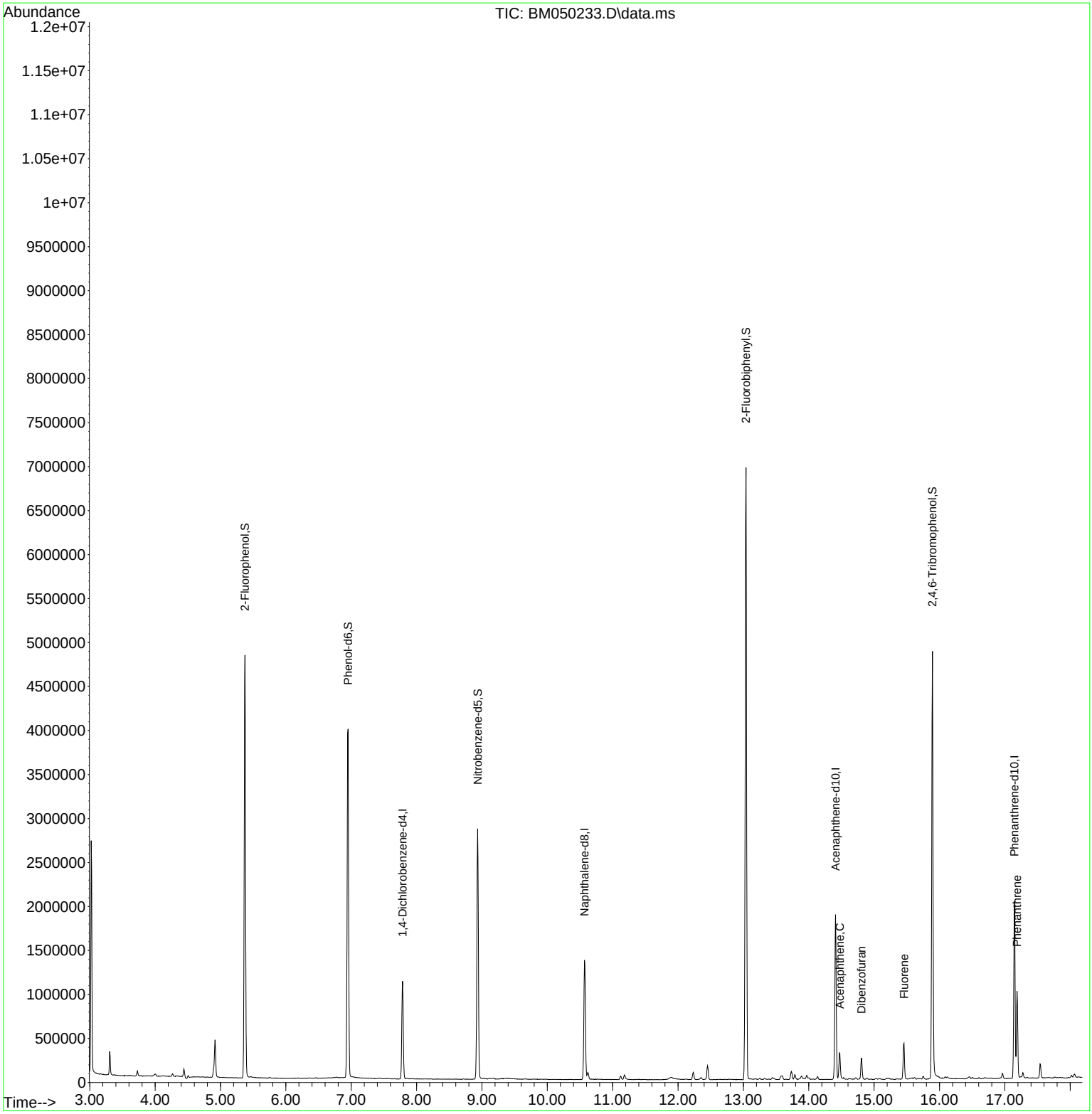
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.787 | 152 | 306776 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.569 | 136 | 1155499 | 20.000 | ng | #-0.01 |
| 39) Acenaphthene-d10 | 14.410 | 164 | 625136 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 17.145 | 188 | 1109436 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 21.374 | 240 | 1043232 | 20.000 | ng | -0.01 |
| 86) Perylene-d12 | 24.356 | 264 | 1124100 | 20.000 | ng | -0.02 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.375 | 112 | 2277932 | 123.866 | ng | 0.00 |
| 7) Phenol-d6 | 6.952 | 99 | 2586807 | 106.853 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 8.934 | 82 | 1787839 | 80.469 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 15.892 | 330 | 829869 | 116.711 | ng | -0.01 |
| 45) 2-Fluorobiphenyl | 13.039 | 172 | 3525780 | 76.357 | ng | -0.01 |
| 79) Terphenyl-d14 | 19.774 | 244 | 4569124 | 82.998 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 52) Acenaphthene | 14.475 | 154 | 102876 | 2.794 | ng | 96 |
| 55) Dibenzofuran | 14.804 | 168 | 147513 | 2.739 | ng | 97 |
| 58) Fluorene | 15.457 | 166 | 171436 | 4.156 | ng | 97 |
| 71) Phenanthrene | 17.186 | 178 | 558859 | 8.818 | ng | 99 |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050233.D
Acq On : 07 Jun 2025 04:00
Operator : RC/JU
Sample : Q2177-07
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
B-202-SB01

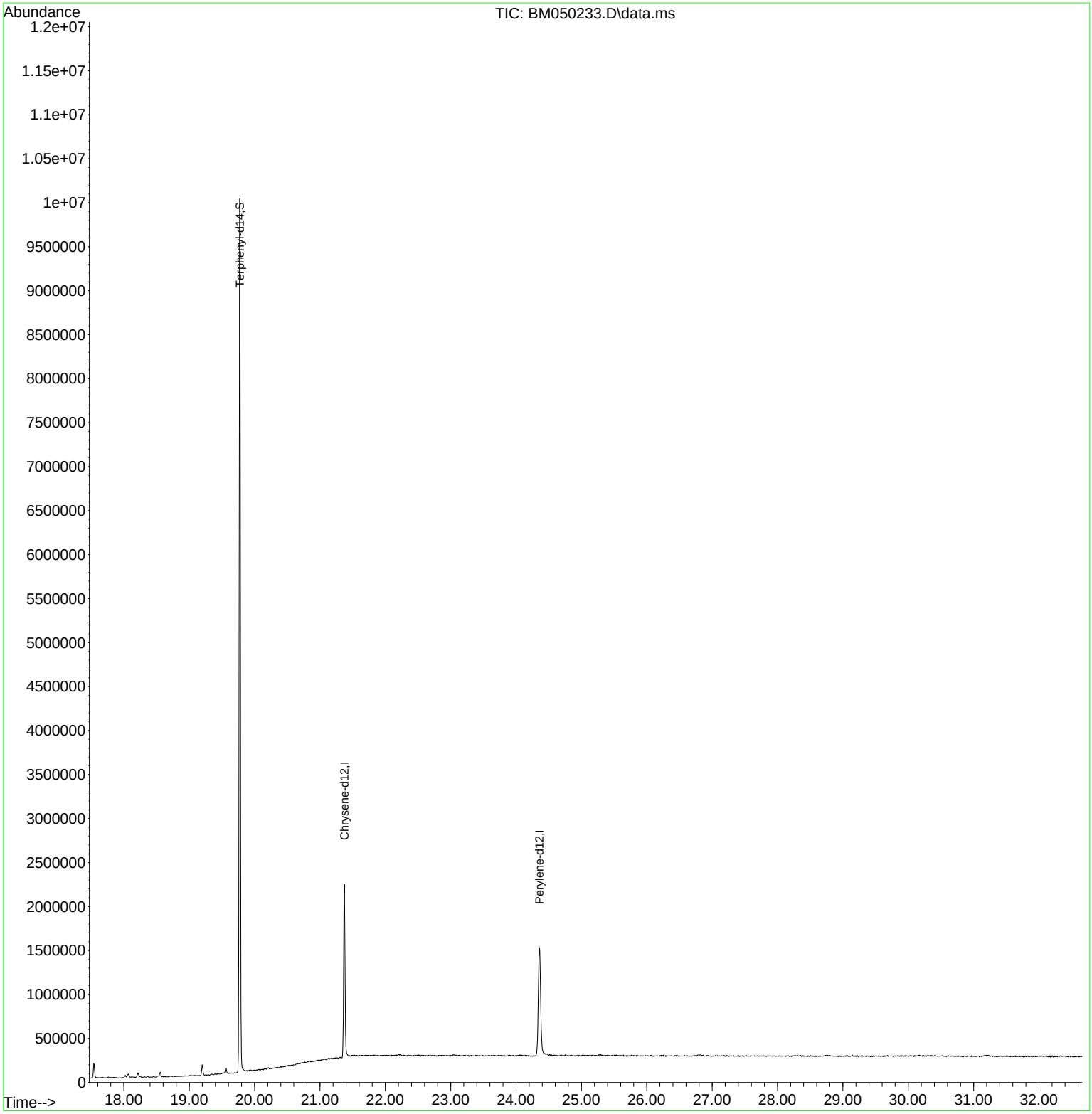
Quant Time: Jun 07 05:36:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

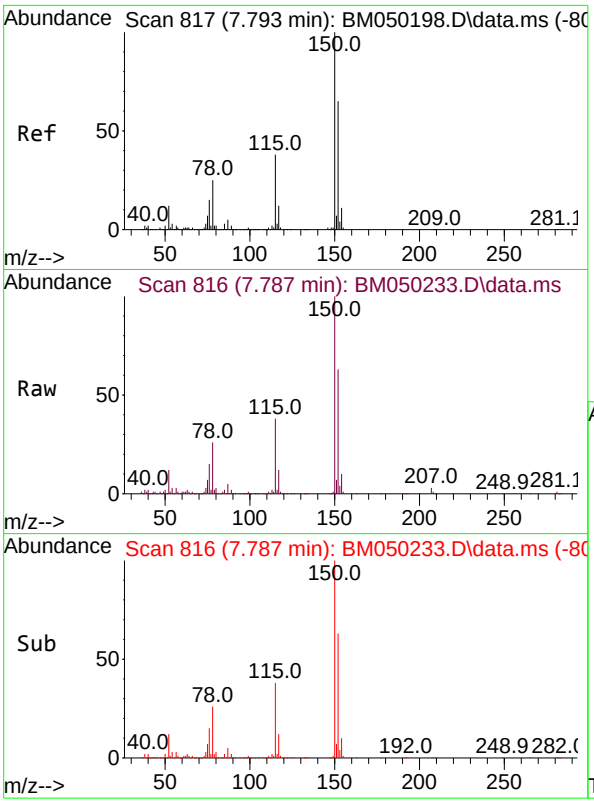


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050233.D
Acq On : 07 Jun 2025 04:00
Operator : RC/JU
Sample : Q2177-07
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
B-202-SB01

Quant Time: Jun 07 05:36:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



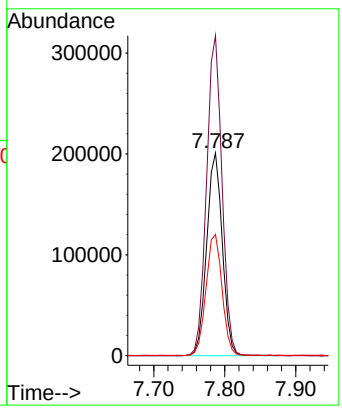


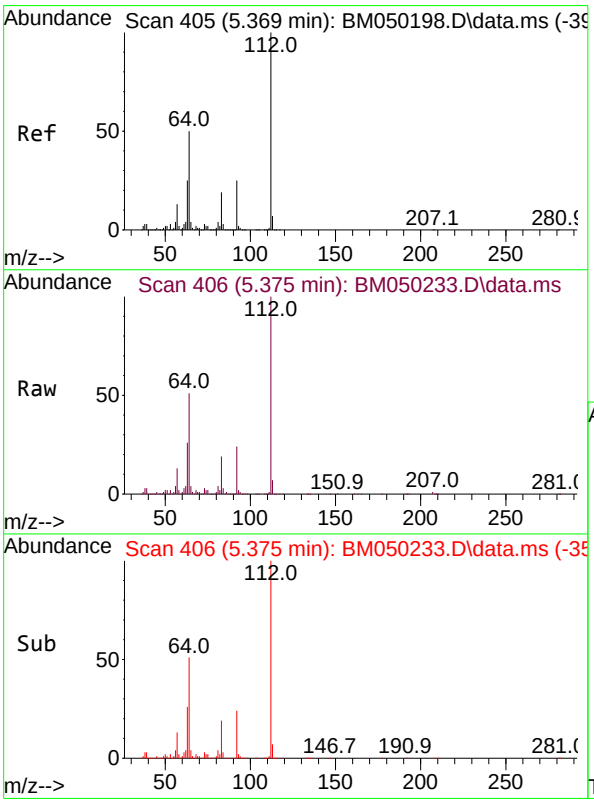

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.787 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

**Instrument :**
BNA_M
**ClientSampleId :**
B-202-SB01

Tgt Ion:152 Resp: 306776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 158.0 | 122.2 | 183.4 |
| 115 | 59.9 | 46.3 | 69.5 |

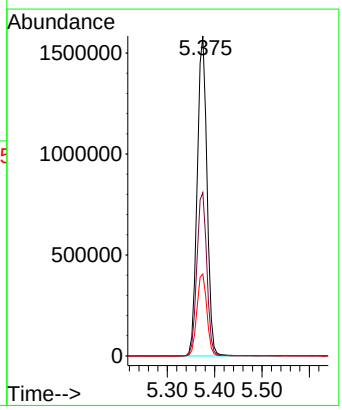


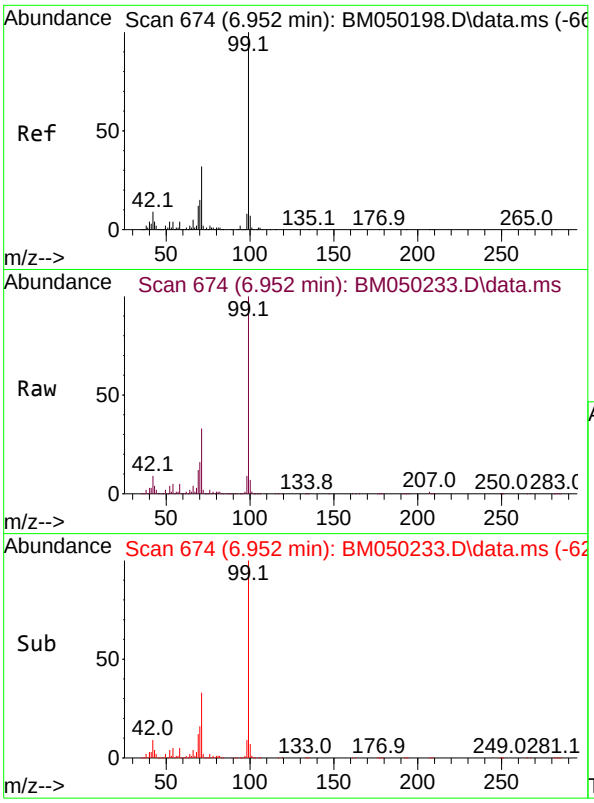




#5
2-Fluorophenol
Concen: 123.866 ng
RT: 5.375 min Scan# 406
Delta R.T. 0.000 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Tgt Ion:112 Resp: 2277932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.0 | 39.8 | 59.6 |
| 63 | 25.6 | 19.8 | 29.8 |



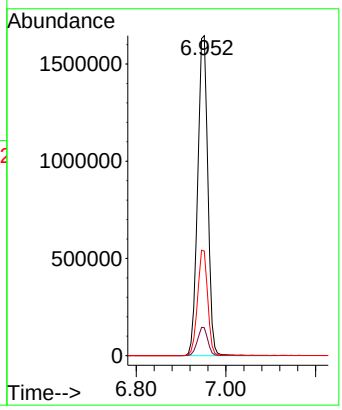


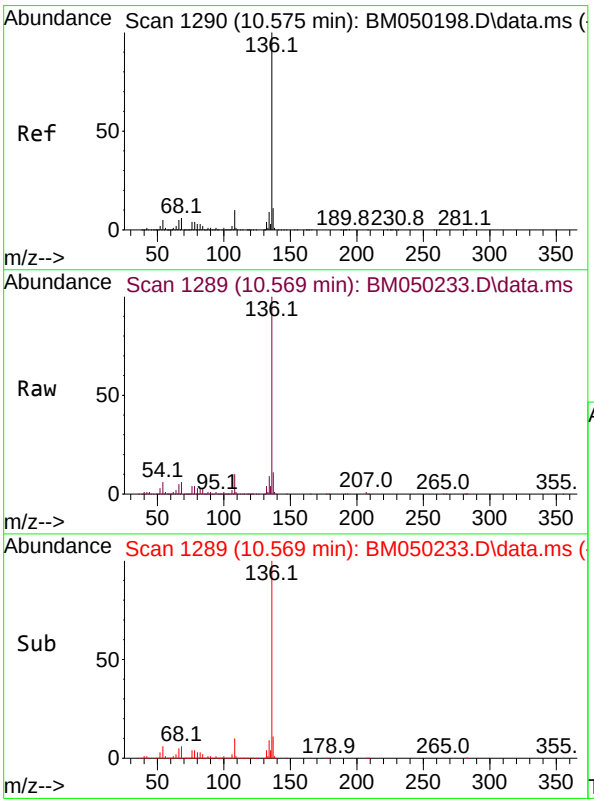

#7
Phenol-d6
Concen: 106.853 ng
RT: 6.952 min Scan# 6
Delta R.T. -0.006 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

**Instrument :**
BNA_M
**ClientSampleId :**
B-202-SB01

Tgt Ion: 99 Resp: 2586807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 8.7 | 6.9 | 10.3 |
| 71 | 32.7 | 25.3 | 37.9 |

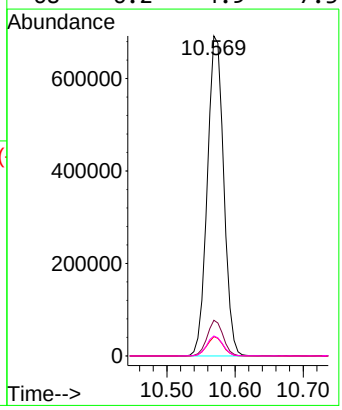


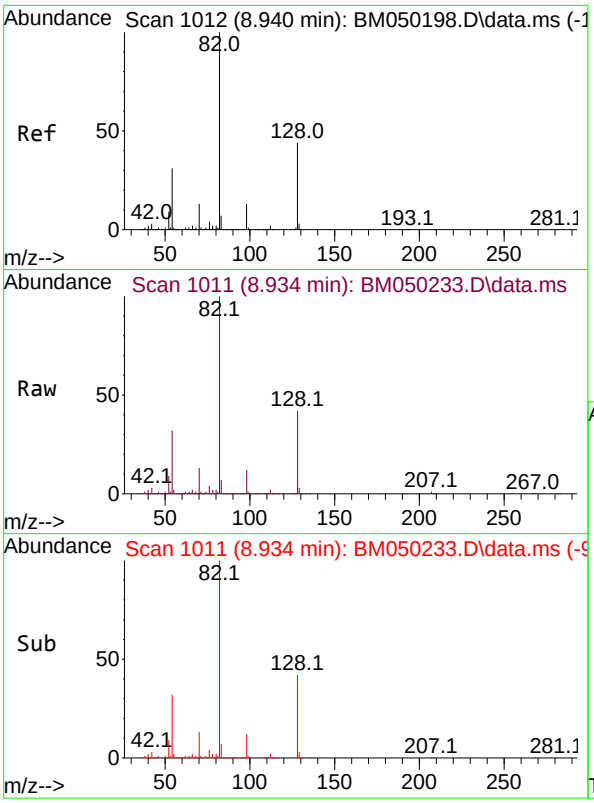




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.569 min Scan# 1289
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Tgt Ion:136 Resp: 1155499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.1 | 8.6 | 13.0 |
| 54 | 6.0 | 3.8 | 5.8# |
| 68 | 6.2 | 4.9 | 7.3 |



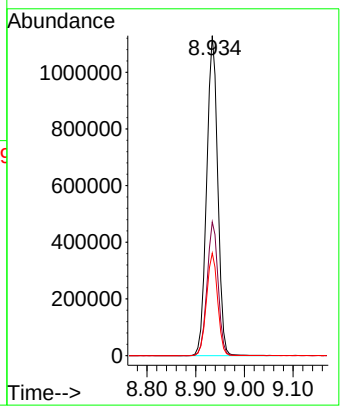


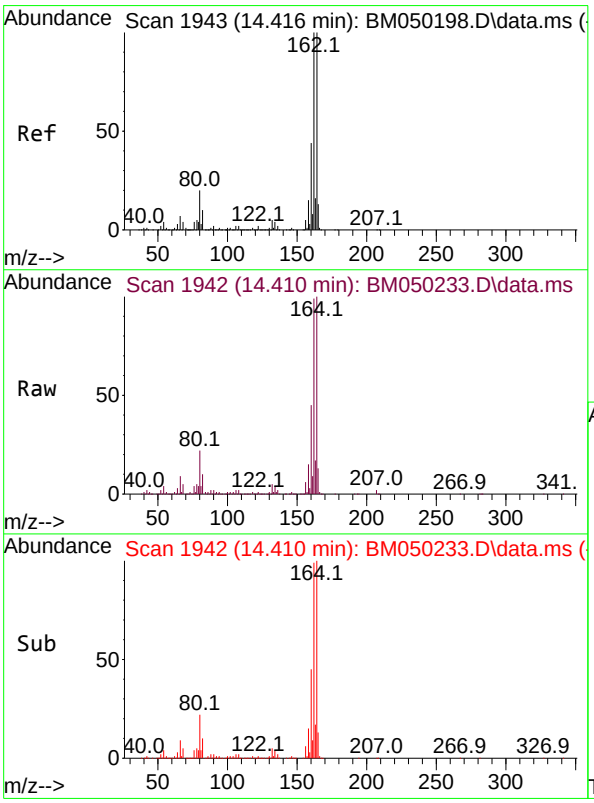

#23
Nitrobenzene-d5
Concen: 80.469 ng
RT: 8.934 min Scan# 1
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

**Instrument :**
BNA_M
**ClientSampleId :**
B-202-SB01

Tgt Ion: 82 Resp: 1787839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.8 | 35.2 | 52.8 |
| 54 | 32.0 | 24.5 | 36.7 |

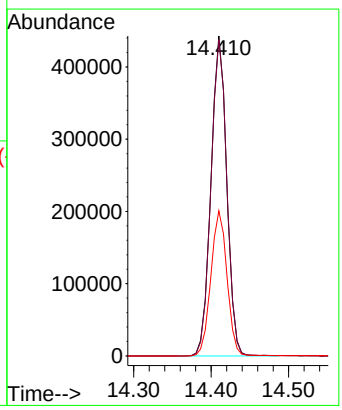


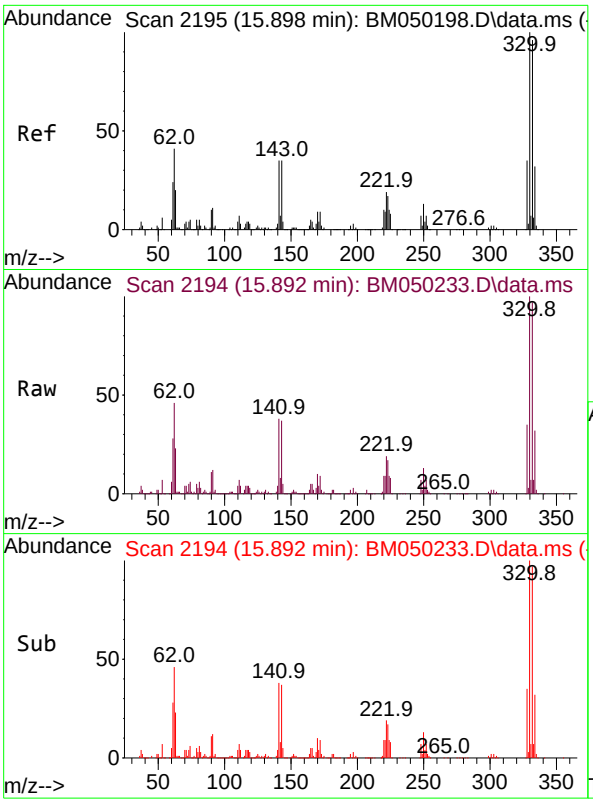




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.006 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Tgt Ion:164 Resp: 625136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 98.9 | 80.2 | 120.4 |
| 160 | 45.3 | 35.7 | 53.5 |



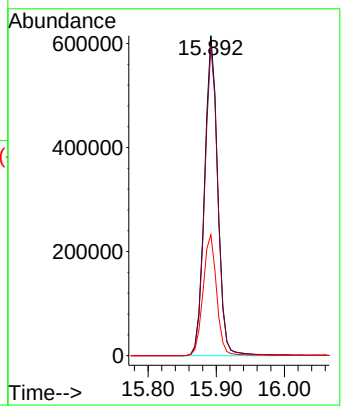


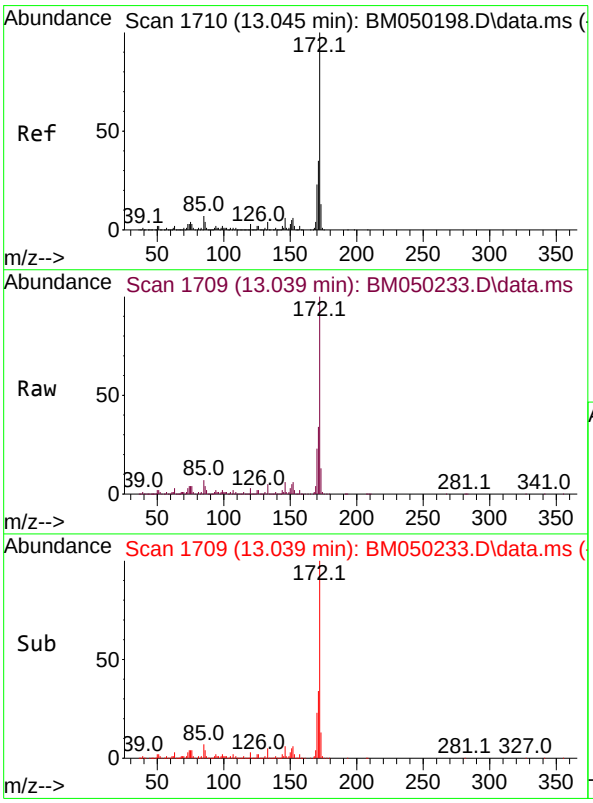

#42
2,4,6-Tribromophenol
Concen: 116.711 ng
RT: 15.892 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

**Instrument :**
BNA_M
**ClientSampleId :**
B-202-SB01

Tgt Ion:330 Resp: 829869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.9 | 77.5 | 116.3 |
| 141 | 38.8 | 28.8 | 43.2 |

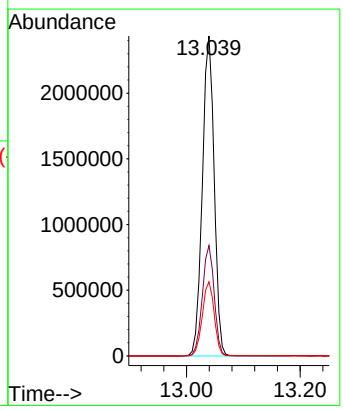


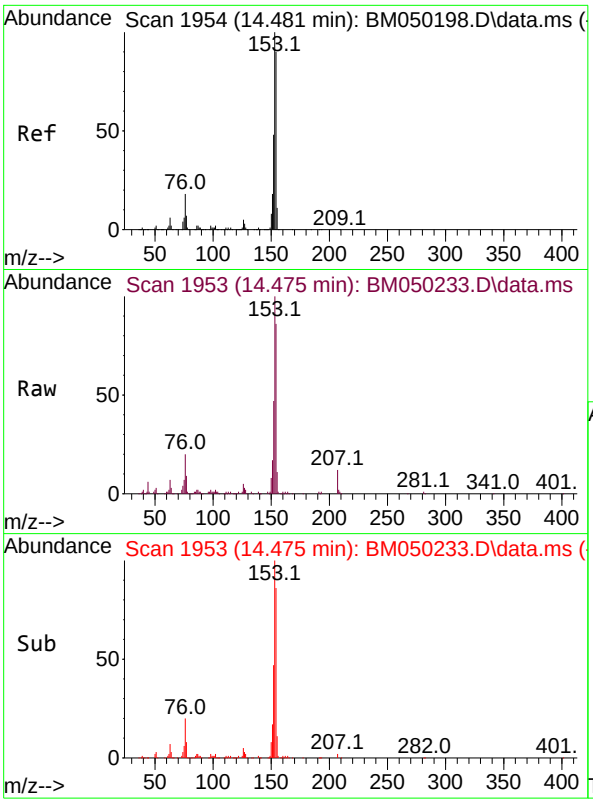




#45
2-Fluorobiphenyl
Concen: 76.357 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Tgt Ion:172 Resp: 3525780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.5 | 27.8 | 41.6 |
| 170 | 23.2 | 18.6 | 27.8 |



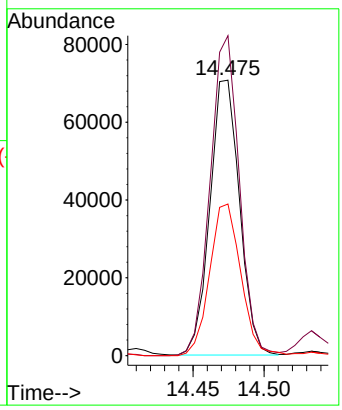


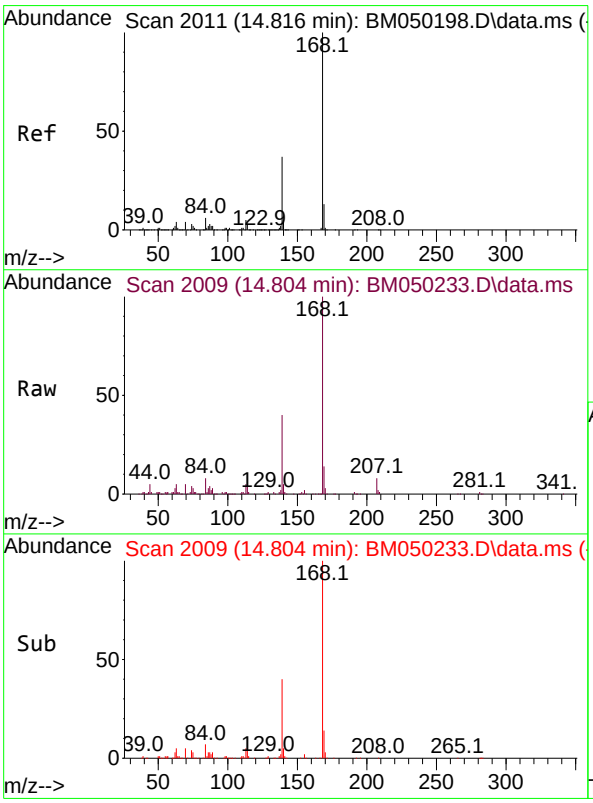

#52
Acenaphthene
Concen: 2.794 ng
RT: 14.475 min Scan# 19
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

**Instrument :**
BNA_M
**ClientSampleId :**
B-202-SB01

Tgt Ion:154 Resp: 102876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.1 | 88.7 | 133.1 |
| 152 | 55.0 | 42.6 | 63.8 |

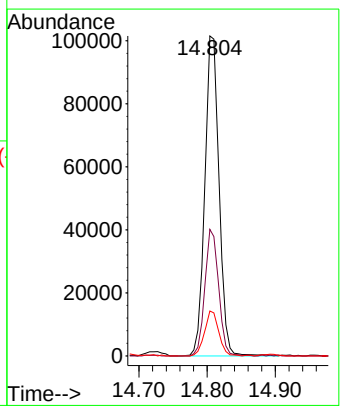


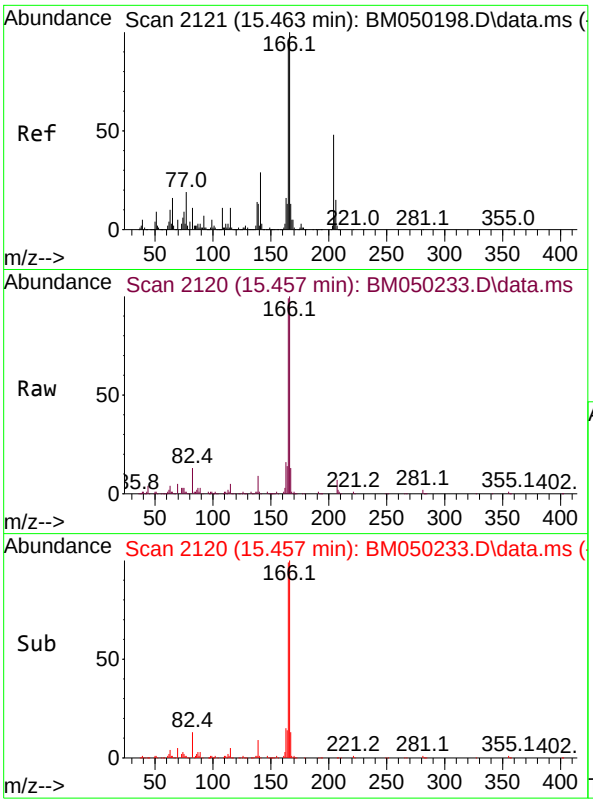




#55
Dibenzofuran
Concen: 2.739 ng
RT: 14.804 min Scan# 2009
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Tgt Ion:168 Resp: 147513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 39.5 | 29.9 | 44.9 |
| 169 | 14.0 | 10.6 | 16.0 |



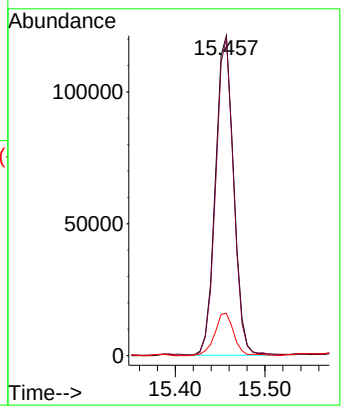


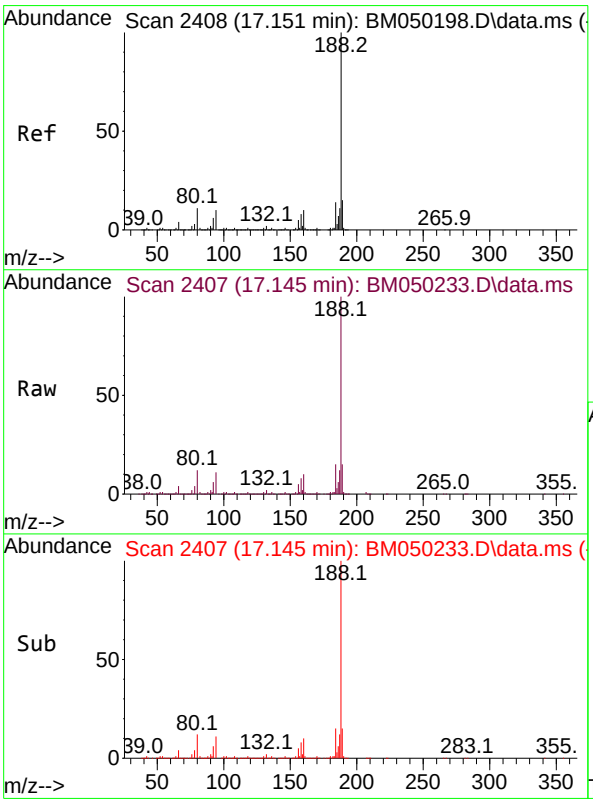

#58
Fluorene
Concen: 4.156 ng
RT: 15.457 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

**Instrument :**
BNA_M
**ClientSampleId :**
B-202-SB01

Tgt Ion:166 Resp: 171436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.4 | 77.0 | 115.4 |
| 167 | 13.2 | 10.7 | 16.1 |

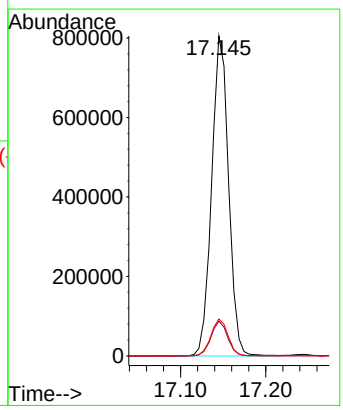


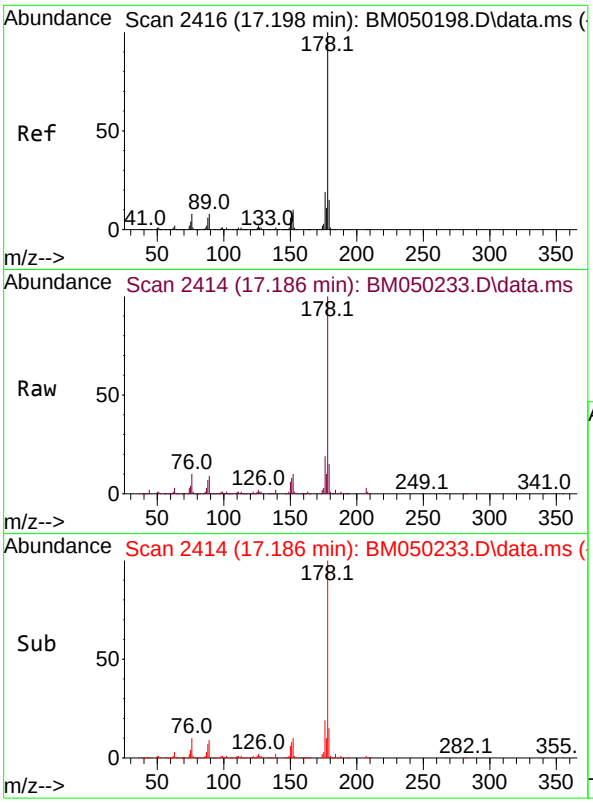




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.145 min Scan# 2407
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Tgt Ion:188 Resp: 1109436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.9 | 8.1 | 12.1 |
| 80 | 11.5 | 8.6 | 13.0 |



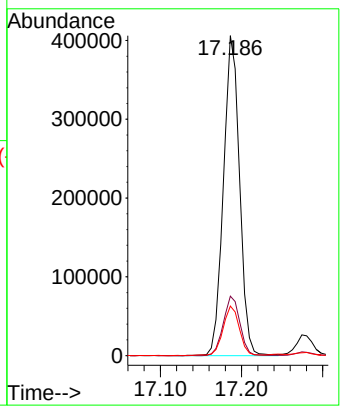


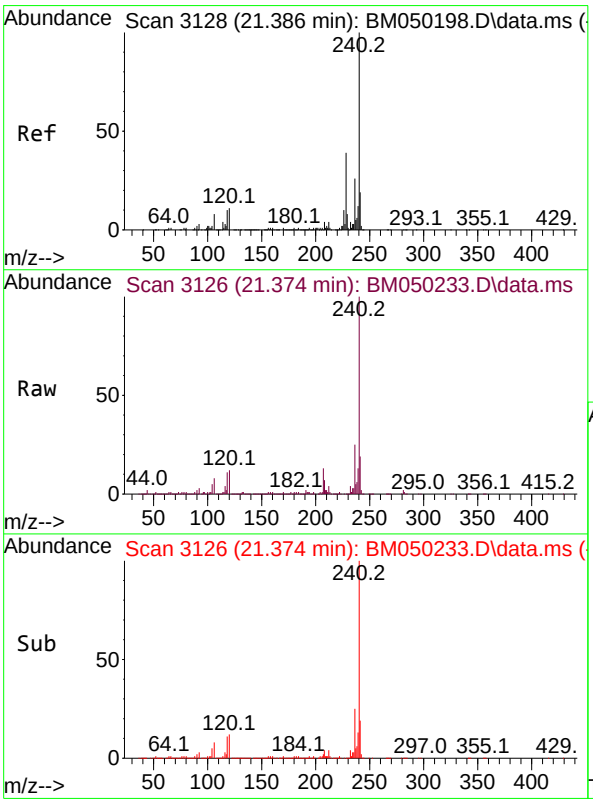

#71
Phenanthrene
Concen: 8.818 ng
RT: 17.186 min Scan# 24
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

**Instrument :**
BNA_M
**ClientSampleId :**
B-202-SB01

Tgt Ion:178 Resp: 558859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 15.6 | 23.4 |
| 179 | 15.5 | 12.3 | 18.5 |

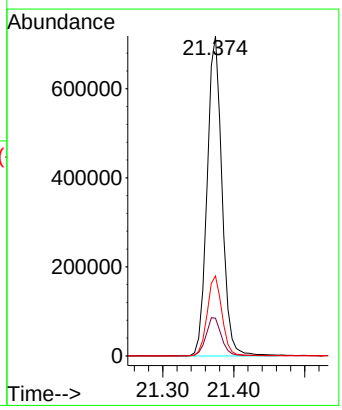


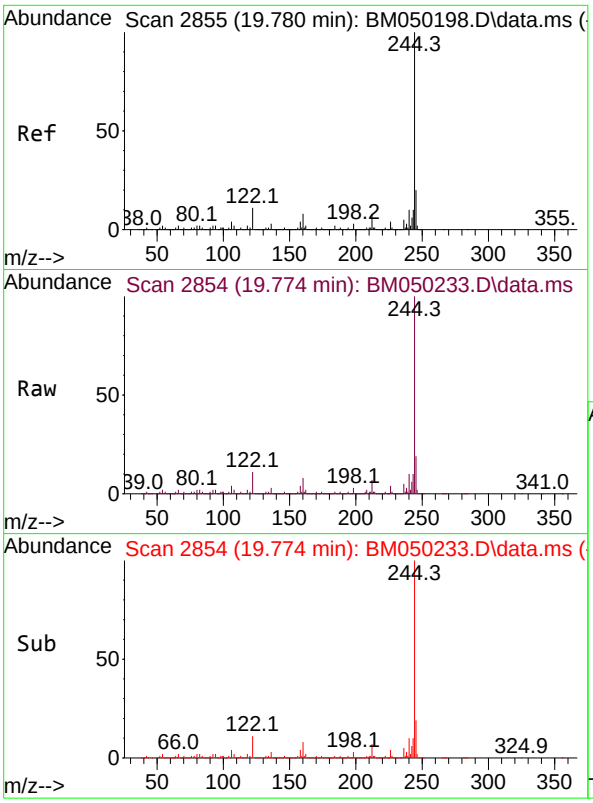




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.374 min Scan# 3126
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Tgt Ion:240 Resp: 1043232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.8 | 9.0 | 13.4 |
| 236 | 25.0 | 20.7 | 31.1 |



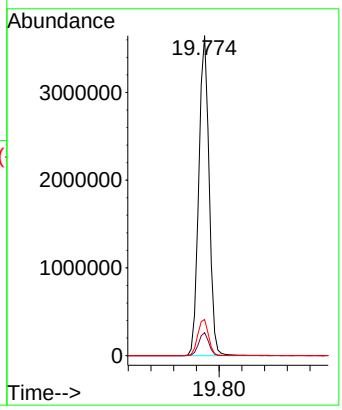


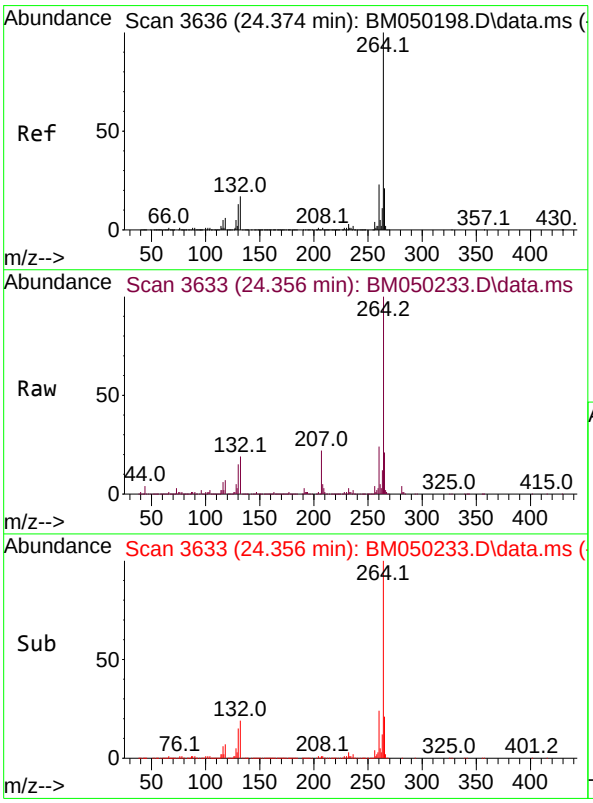

#79
Terphenyl-d14
Concen: 82.998 ng
RT: 19.774 min Scan# 2
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

**Instrument :**
BNA_M
**ClientSampleId :**
B-202-SB01

Tgt Ion:244 Resp: 4569124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.2 | 6.0 | 9.0 |
| 122 | 11.3 | 8.6 | 12.8 |

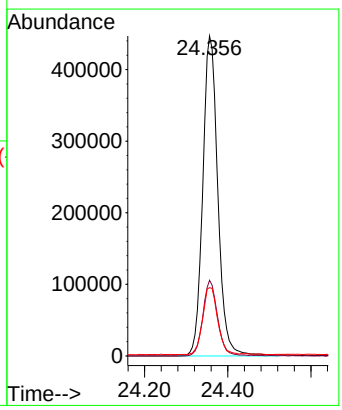



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.356 min Scan# 3633
Delta R.T. -0.018 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Tgt Ion:264 Resp: 1124100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.6 | 18.6 | 28.0 |
| 265 | 21.3 | 16.8 | 25.2 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050207.D
Acq On : 06 Jun 2025 10:08
Operator : RC/JU
Sample : PB168269BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PB168269BL

Quant Time: Jun 06 10:53:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

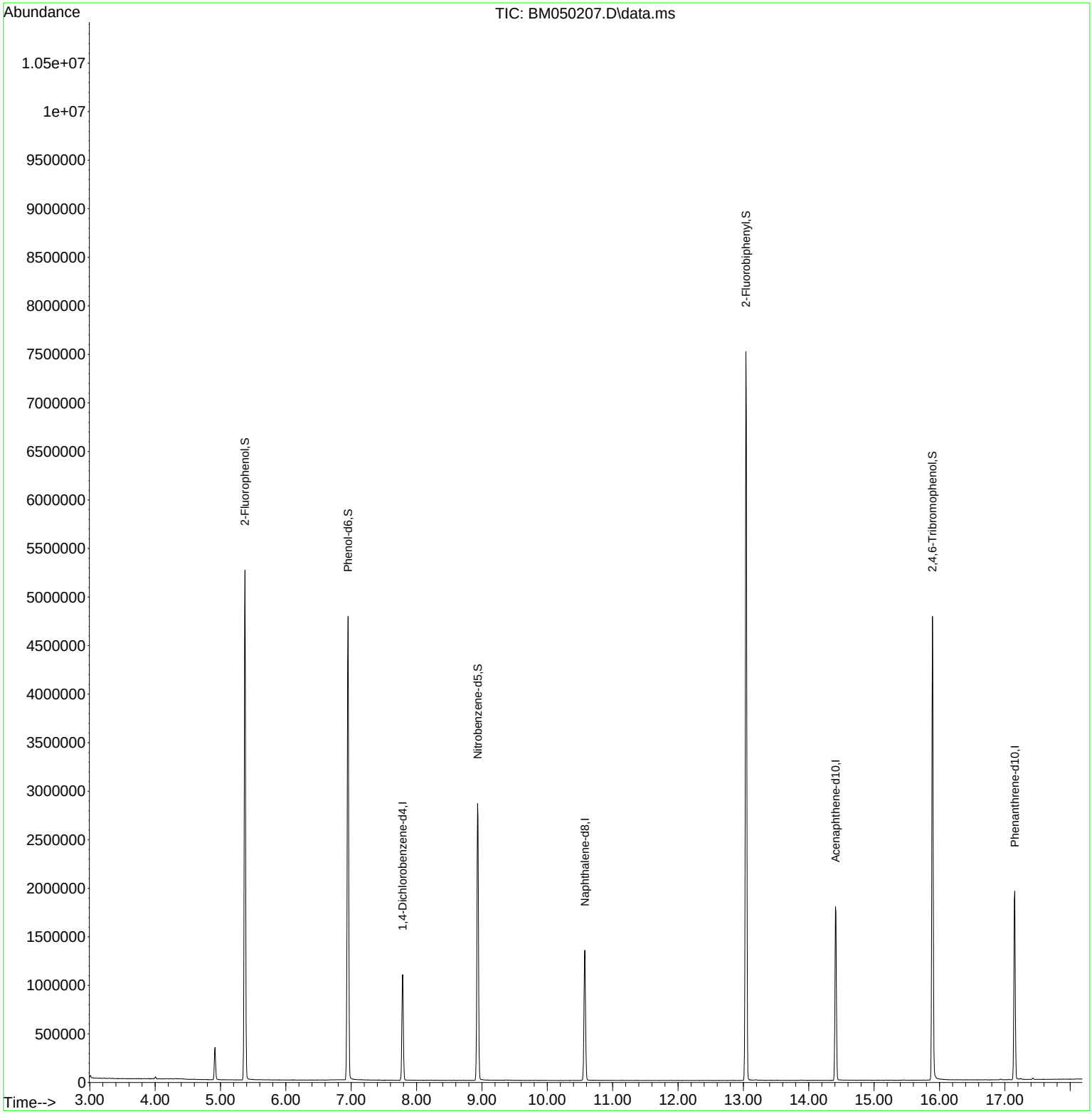
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.787 | 152 | 307416 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.575 | 136 | 1142669 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 14.410 | 164 | 634427 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 17.151 | 188 | 1133741 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 21.380 | 240 | 982238 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 24.368 | 264 | 1022855 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.375 | 112 | 2527466 | 137.149 | ng | 0.00 |
| 7) Phenol-d6 | 6.951 | 99 | 3136982 | 129.309 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 8.934 | 82 | 1832446 | 83.403 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 15.892 | 330 | 906461 | 125.615 | ng | -0.01 |
| 45) 2-Fluorobiphenyl | 13.039 | 172 | 3884866 | 82.902 | ng | -0.01 |
| 79) Terphenyl-d14 | 19.780 | 244 | 4336326 | 83.660 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050207.D
Acq On : 06 Jun 2025 10:08
Operator : RC/JU
Sample : PB168269BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PB168269BL

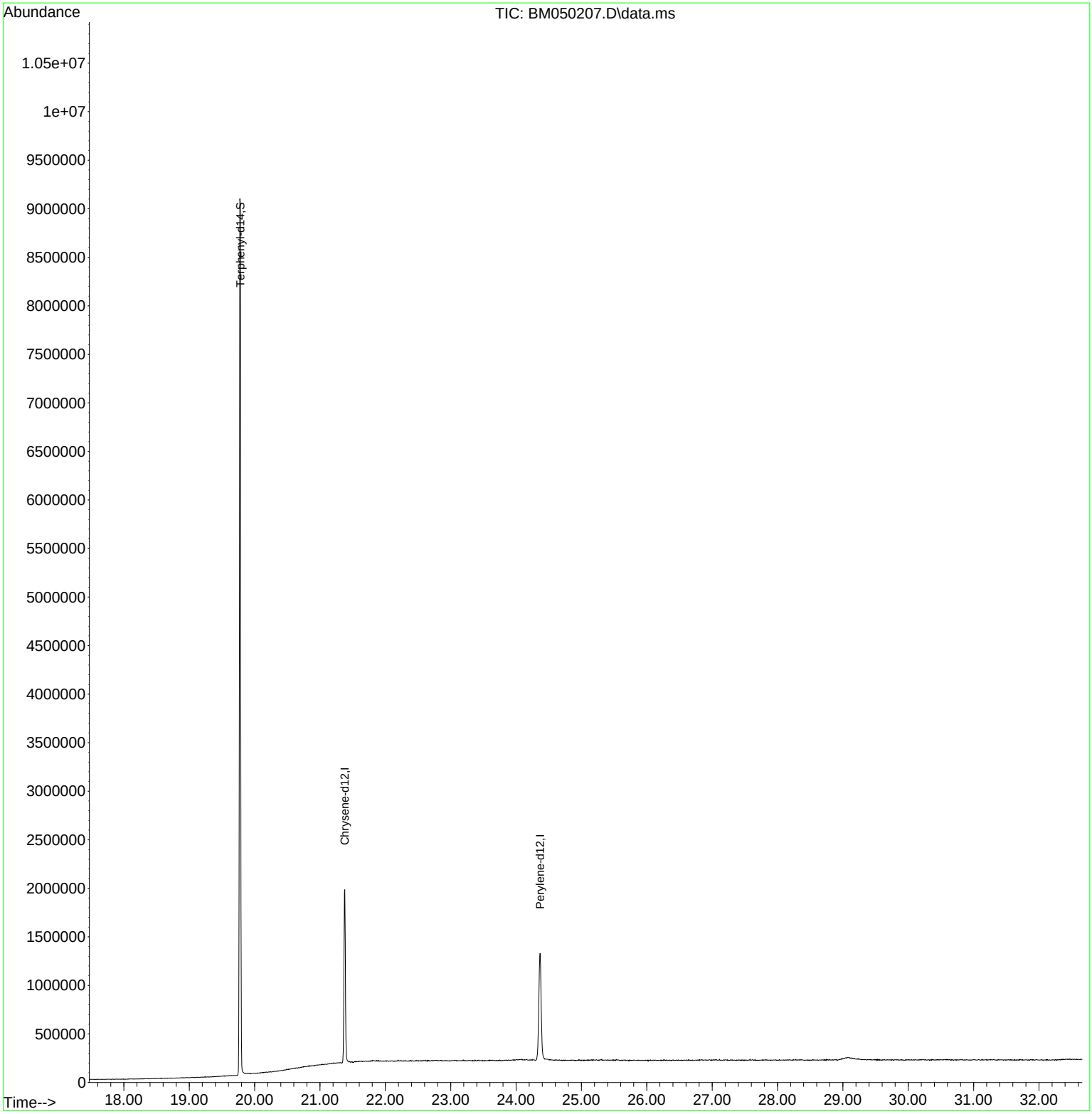
Quant Time: Jun 06 10:53:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

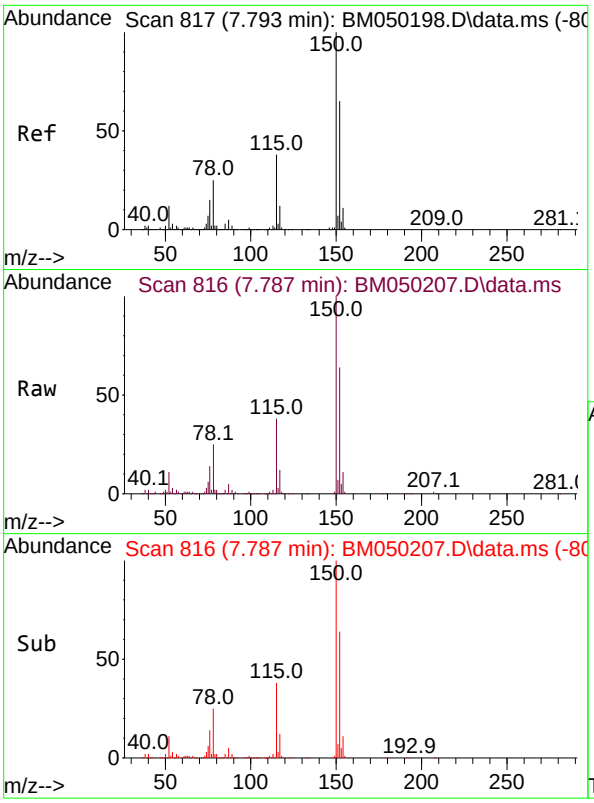


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050207.D
Acq On : 06 Jun 2025 10:08
Operator : RC/JU
Sample : PB168269BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PB168269BL

Quant Time: Jun 06 10:53:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



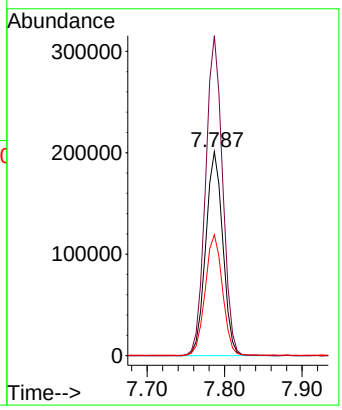


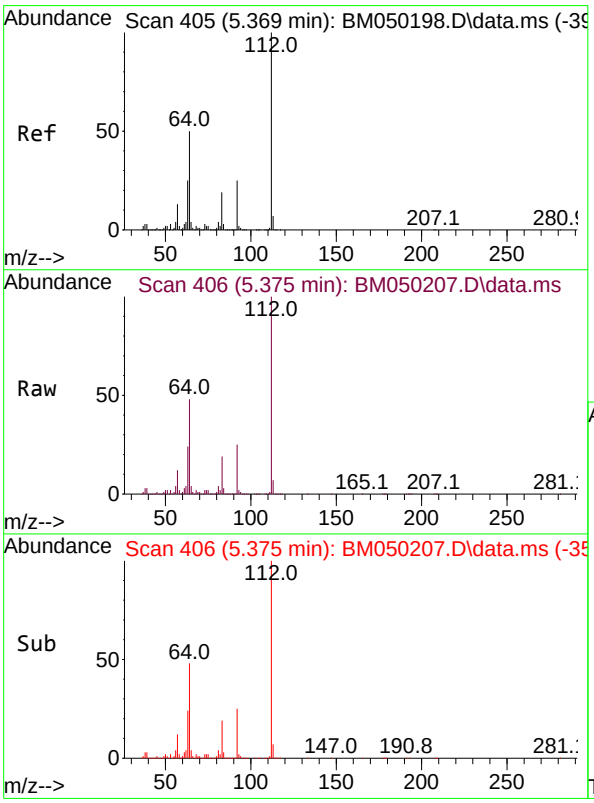

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.787 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

**Instrument :**
BNA_M
**ClientSampleId :**
PB168269BL

Tgt Ion:152 Resp: 307416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.0 | 122.2 | 183.4 |
| 115 | 59.3 | 46.3 | 69.5 |

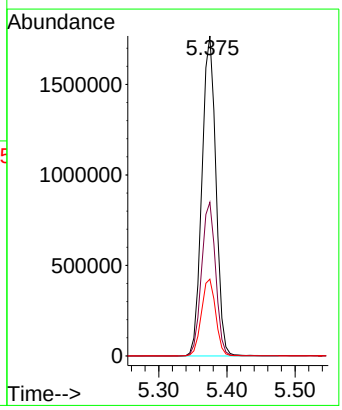


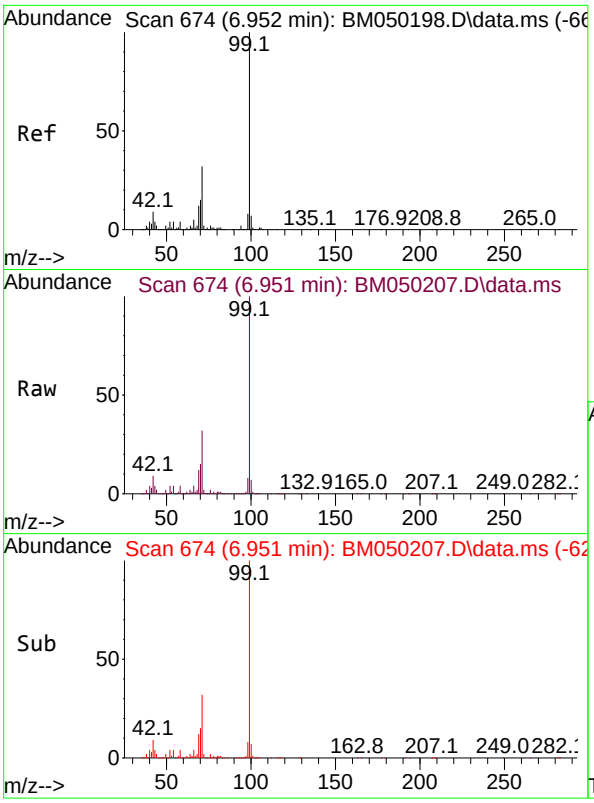




#5
2-Fluorophenol
Concen: 137.149 ng
RT: 5.375 min Scan# 406
Delta R.T. -0.000 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Tgt Ion:112 Resp: 2527466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 48.0 | 39.8 | 59.6 |
| 63 | 24.0 | 19.8 | 29.8 |



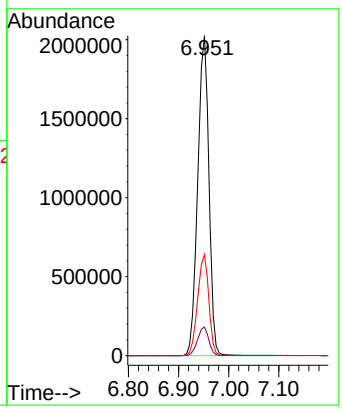


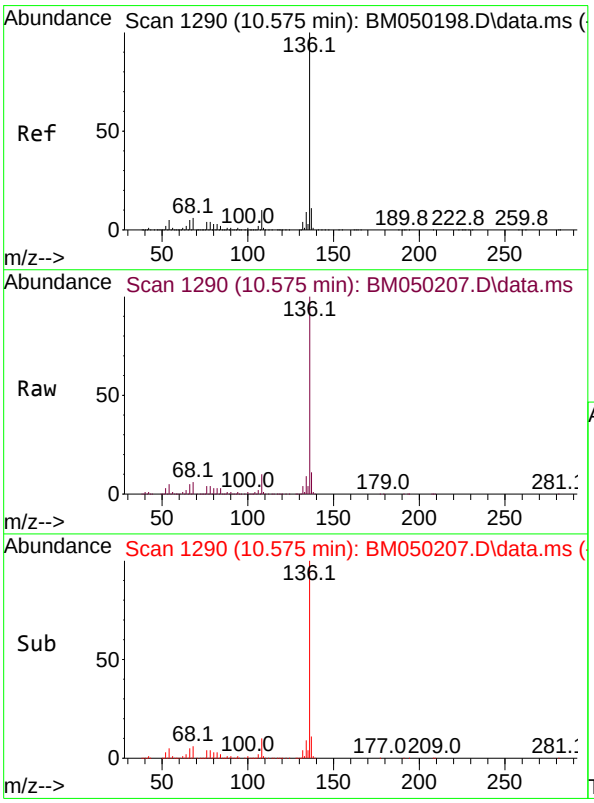

#7
Phenol-d6
Concen: 129.309 ng
RT: 6.951 min Scan# 6
Delta R.T. -0.006 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

**Instrument :**
BNA_M
**ClientSampleId :**
PB168269BL

Tgt Ion: 99 Resp: 3136982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 8.9 | 6.9 | 10.3 |
| 71 | 31.5 | 25.3 | 37.9 |

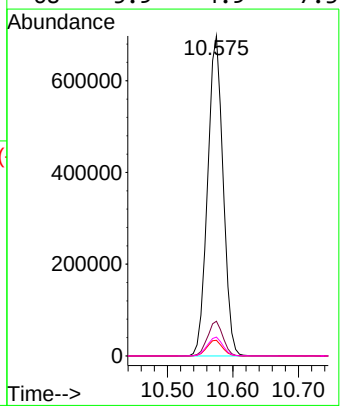


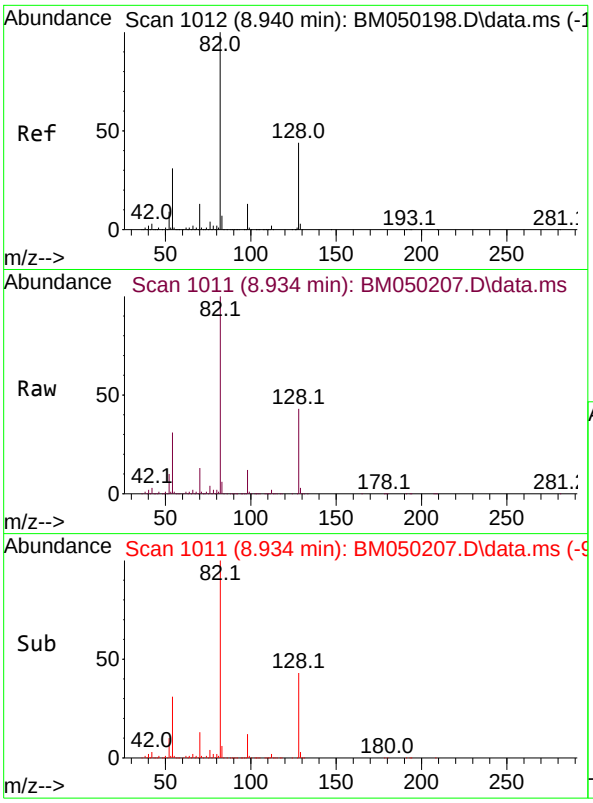




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.575 min Scan# 1290
Delta R.T. -0.006 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Tgt Ion:136 Resp: 1142669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.8 | 8.6 | 13.0 |
| 54 | 4.9 | 3.8 | 5.8 |
| 68 | 5.9 | 4.9 | 7.3 |



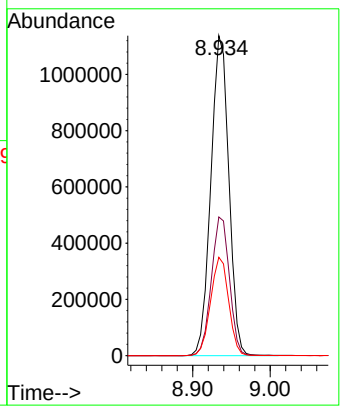


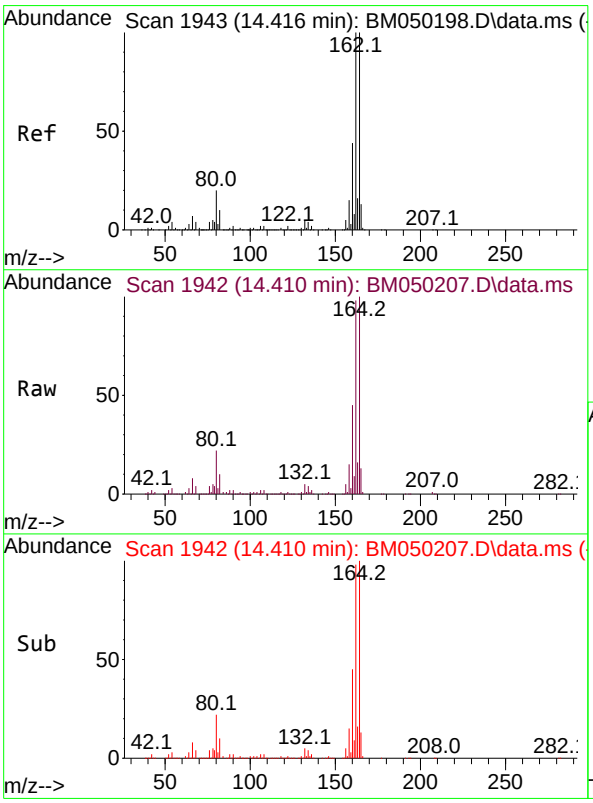

#23
Nitrobenzene-d5
Concen: 83.403 ng
RT: 8.934 min Scan# 1
Delta R.T. -0.012 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

**Instrument :**
BNA_M
**ClientSampleId :**
PB168269BL

Tgt Ion: 82 Resp: 1832446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.3 | 35.2 | 52.8 |
| 54 | 30.7 | 24.5 | 36.7 |

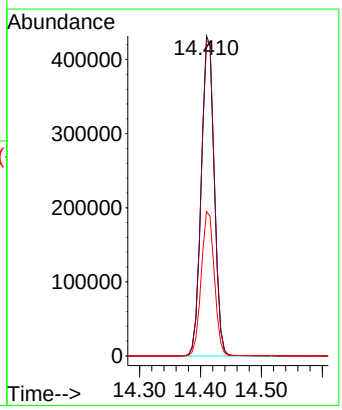


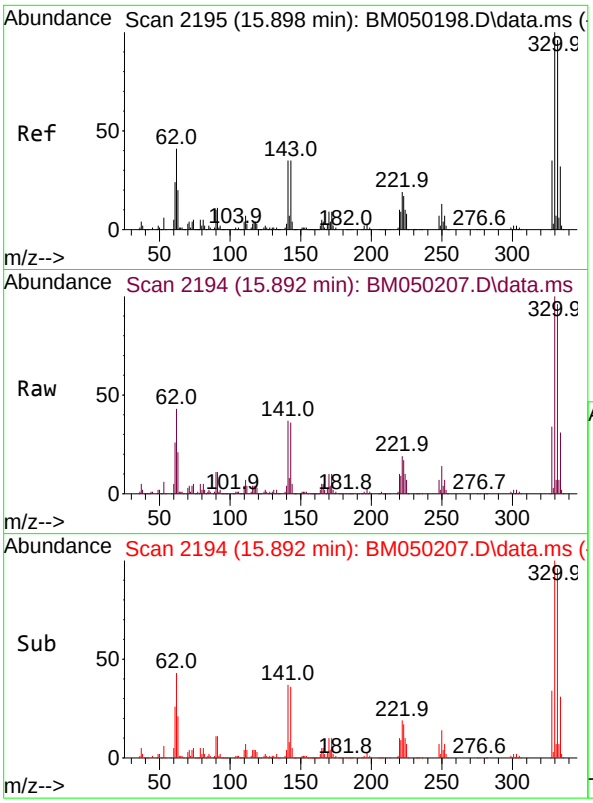




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.006 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Tgt Ion:164 Resp: 634427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 98.3 | 80.2 | 120.4 |
| 160 | 45.1 | 35.7 | 53.5 |



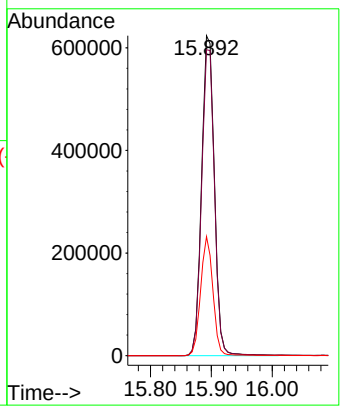


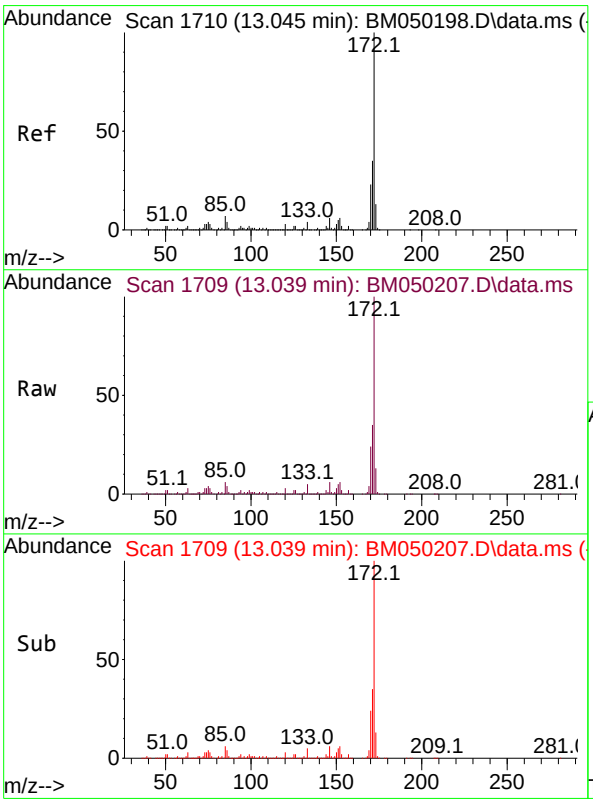

#42
2,4,6-Tribromophenol
Concen: 125.615 ng
RT: 15.892 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

**Instrument :**
BNA_M
**ClientSampleId :**
PB168269BL

Tgt Ion:330 Resp: 906461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.4 | 77.5 | 116.3 |
| 141 | 35.8 | 28.8 | 43.2 |

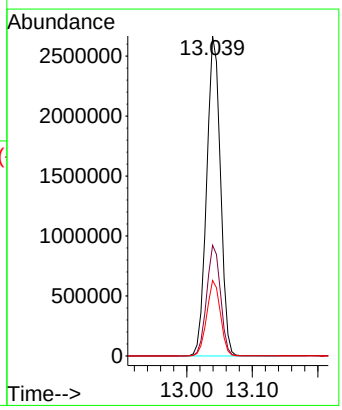


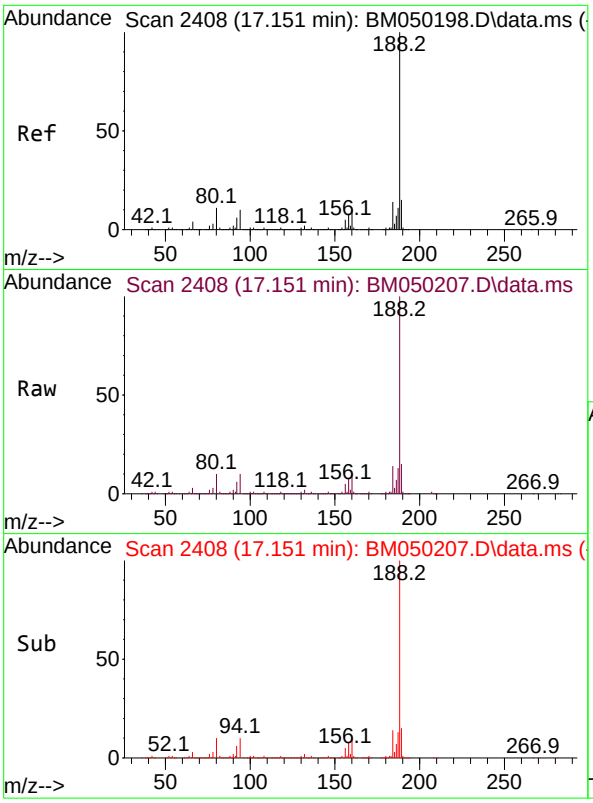




#45
2-Fluorobiphenyl
Concen: 82.902 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Tgt Ion:172 Resp: 3884866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.6 | 27.8 | 41.6 |
| 170 | 23.6 | 18.6 | 27.8 |



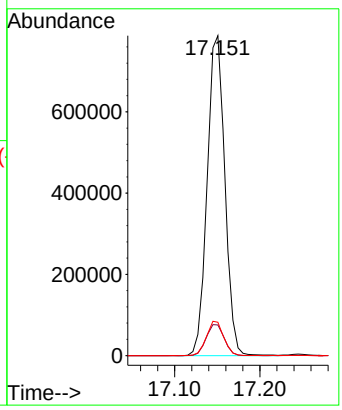


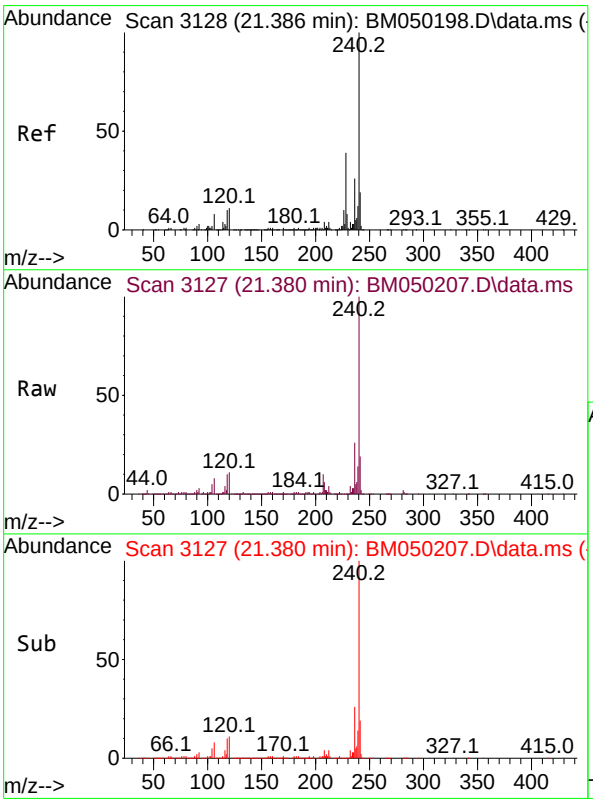

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.151 min Scan# 24
Delta R.T. -0.006 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

**Instrument :**
BNA_M
**ClientSampleId :**
PB168269BL

Tgt Ion:188 Resp: 1133741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.6 | 8.1 | 12.1 |
| 80 | 10.4 | 8.6 | 13.0 |

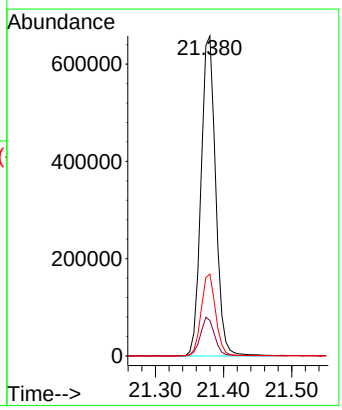


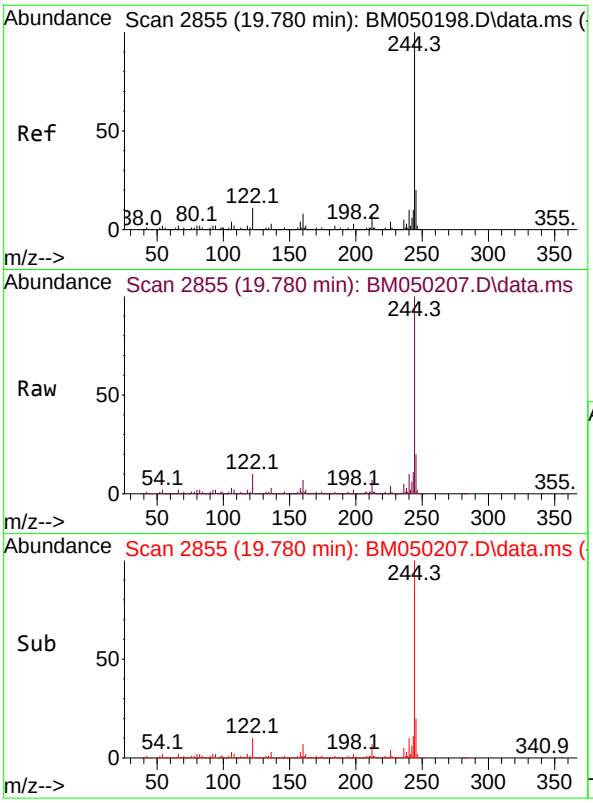




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.380 min Scan# 3127
Delta R.T. -0.006 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Tgt Ion:240 Resp: 982238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.1 | 9.0 | 13.4 |
| 236 | 25.6 | 20.7 | 31.1 |



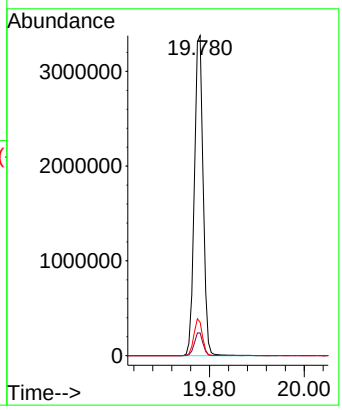


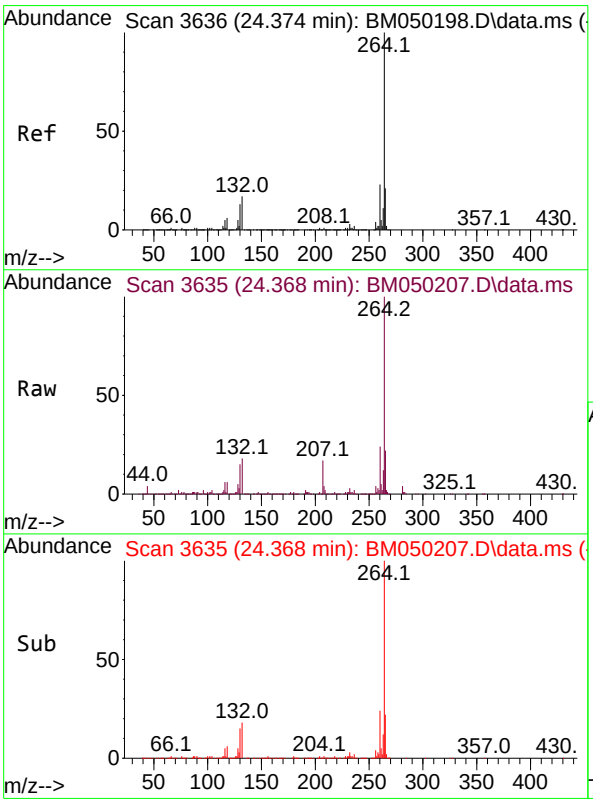

#79
Terphenyl-d14
Concen: 83.660 ng
RT: 19.780 min Scan# 28
Delta R.T. -0.006 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

**Instrument :**
BNA_M
**ClientSampleId :**
PB168269BL

Tgt Ion:244 Resp: 4336326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 6.0 | 9.0 |
| 122 | 10.4 | 8.6 | 12.8 |

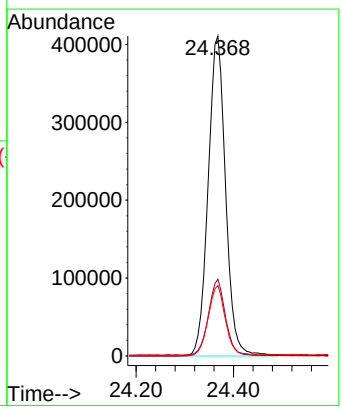



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.368 min Scan# 3635
Delta R.T. -0.006 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Tgt Ion:264 Resp: 1022855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.0 | 18.6 | 28.0 |
| 265 | 22.0 | 16.8 | 25.2 |



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050208.D
Acq On : 06 Jun 2025 10:47
Operator : RC/JU
Sample : PB168269BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 11:23:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
PB168269BS

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.786 | 152 | 327776 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.575 | 136 | 1233278 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 14.415 | 164 | 655553 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 17.151 | 188 | 1123564 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 21.380 | 240 | 1060555 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 24.368 | 264 | 1186020 | 20.000 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.375 | 112 | 2567295 | 130.657 | ng | | 0.00 |
| 7) Phenol-d6 | 6.951 | 99 | 3136308 | 121.251 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 8.939 | 82 | 1892430 | 79.805 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.898 | 330 | 914951 | 122.706 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 13.045 | 172 | 3882156 | 80.174 | ng | | 0.00 |
| 79) Terphenyl-d14 | 19.780 | 244 | 4436403 | 79.271 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.293 | 88 | 325321 | 37.771 | ng | | 99 |
| 3) Pyridine | 3.681 | 79 | 904757 | 40.563 | ng | | 100 |
| 4) n-Nitrosodimethylamine | 3.593 | 42 | 208634 | 45.234 | ng | | 99 |
| 6) Aniline | 7.110 | 93 | 837259 | 24.485 | ng | | 98 |
| 8) 2-Chlorophenol | 7.351 | 128 | 992699 | 45.930 | ng | | 100 |
| 9) Benzaldehyde | 6.922 | 77 | 542414 | 32.983 | ng | | 99 |
| 10) Phenol | 6.981 | 94 | 1215351 | 44.407 | ng | | 98 |
| 11) bis(2-Chloroethyl)ether | 7.210 | 93 | 981243 | 44.575 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 7.681 | 146 | 1093012 | 45.236 | ng | | 100 |
| 13) 1,4-Dichlorobenzene | 7.822 | 146 | 1114691 | 44.340 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 8.139 | 146 | 1068631 | 44.590 | ng | | 99 |
| 15) Benzyl Alcohol | 8.022 | 79 | 794202 | 43.049 | ng | | 100 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.322 | 45 | 679997 | 44.467 | ng | | 99 |
| 17) 2-Methylphenol | 8.222 | 107 | 782986 | 43.360 | ng | | 99 |
| 18) Hexachloroethane | 8.869 | 117 | 420967 | 46.239 | ng | | 99 |
| 19) n-Nitroso-di-n-propyla... | 8.592 | 70 | 663797 | 41.936 | ng | | 98 |
| 20) 3+4-Methylphenols | 8.551 | 107 | 1032399 | 42.732 | ng | | 99 |
| 22) Acetophenone | 8.604 | 105 | 1394781 | 45.269 | ng | # | 98 |
| 24) Nitrobenzene | 8.980 | 77 | 1008774 | 46.775 | ng | | 99 |
| 25) Isophorone | 9.510 | 82 | 1809915 | 44.221 | ng | | 99 |
| 26) 2-Nitrophenol | 9.686 | 139 | 452068 | 48.560 | ng | | 99 |
| 27) 2,4-Dimethylphenol | 9.751 | 122 | 860580 | 44.991 | ng | | 99 |
| 28) bis(2-Chloroethoxy)met... | 9.992 | 93 | 1192528 | 44.601 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 10.222 | 162 | 815245 | 46.057 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 10.439 | 180 | 918180 | 46.614 | ng | | 99 |
| 31) Naphthalene | 10.627 | 128 | 2842640 | 44.581 | ng | | 100 |
| 32) Benzoic acid | 9.869 | 122 | 514873 | 42.831 | ng | | 99 |
| 33) 4-Chloroaniline | 10.727 | 127 | 288124 | 10.599 | ng | | 98 |
| 34) Hexachlorobutadiene | 10.922 | 225 | 550713 | 47.004 | ng | | 99 |
| 35) Caprolactam | 11.492 | 113 | 228114 | 40.649 | ng | | 93 |
| 36) 4-Chloro-3-methylphenol | 11.851 | 107 | 803016 | 42.515 | ng | | 100 |
| 37) 2-Methylnaphthalene | 12.239 | 142 | 1697571 | 44.131 | ng | | 99 |
| 38) 1-Methylnaphthalene | 12.457 | 142 | 1765176 | 43.235 | ng | | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 12.610 | 216 | 919860 | 48.593 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 12.598 | 237 | 1246647 | 108.441 | ng | | 98 |
| 43) 2,4,6-Trichlorophenol | 12.845 | 196 | 596512 | 47.918 | ng | | 99 |

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050208.D
Acq On : 06 Jun 2025 10:47
Operator : RC/JU
Sample : PB168269BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 11:23:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
PB168269BS

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 44) | 2,4,5-Trichlorophenol | 12.910 | 196 | 648023 | 47.413 | ng | | 98 |
| 46) | 1,1'-Biphenyl | 13.251 | 154 | 2302794 | 46.912 | ng | | 100 |
| 47) | 2-Chloronaphthalene | 13.292 | 162 | 1775566 | 46.527 | ng | | 99 |
| 48) | 2-Nitroaniline | 13.486 | 65 | 406112 | 48.358 | ng | | 99 |
| 49) | Acenaphthylene | 14.133 | 152 | 2844003 | 46.075 | ng | | 99 |
| 50) | Dimethylphthalate | 13.874 | 163 | 1978120 | 44.618 | ng | | 99 |
| 51) | 2,6-Dinitrotoluene | 13.980 | 165 | 425559 | 47.597 | ng | | 95 |
| 52) | Acenaphthene | 14.480 | 154 | 1905934 | 49.367 | ng | | 99 |
| 53) | 3-Nitroaniline | 14.304 | 138 | 180262 | 18.090 | ng | | 94 |
| 54) | 2,4-Dinitrophenol | 14.510 | 184 | 466278 | 90.070 | ng | | 96 |
| 55) | Dibenzofuran | 14.815 | 168 | 2529176 | 44.778 | ng | | 99 |
| 56) | 4-Nitrophenol | 14.610 | 139 | 818441 | 96.500 | ng | | 100 |
| 57) | 2,4-Dinitrotoluene | 14.768 | 165 | 582583 | 49.396 | ng | | 99 |
| 58) | Fluorene | 15.462 | 166 | 1923441 | 44.461 | ng | | 100 |
| 59) | 2,3,4,6-Tetrachlorophenol | 15.033 | 232 | 539527m | 45.625 | ng | | |
| 60) | Diethylphthalate | 15.245 | 149 | 1933121 | 43.945 | ng | | 99 |
| 61) | 4-Chlorophenyl-phenyle... | 15.462 | 204 | 928607 | 44.414 | ng | | 98 |
| 62) | 4-Nitroaniline | 15.468 | 138 | 395494 | 42.346 | ng | | 99 |
| 63) | Azobenzene | 15.751 | 77 | 1951359 | 44.381 | ng | | 98 |
| 65) | 4,6-Dinitro-2-methylph... | 15.527 | 198 | 292506 | 47.665 | ng | | 95 |
| 66) | n-Nitrosodiphenylamine | 15.668 | 169 | 1684849 | 47.725 | ng | | 99 |
| 67) | 4-Bromophenyl-phenylether | 16.351 | 248 | 573472 | 47.863 | ng | | 99 |
| 68) | Hexachlorobenzene | 16.462 | 284 | 665920 | 47.570 | ng | | 98 |
| 69) | Atrazine | 16.621 | 200 | 556402 | 49.464 | ng | | 100 |
| 70) | Pentachlorophenol | 16.804 | 266 | 897621 | 98.626 | ng | | 99 |
| 71) | Phenanthrene | 17.192 | 178 | 2959230 | 46.104 | ng | | 100 |
| 72) | Anthracene | 17.286 | 178 | 3004594 | 46.793 | ng | | 100 |
| 73) | Carbazole | 17.551 | 167 | 2762804 | 47.230 | ng | | 99 |
| 74) | Di-n-butylphthalate | 18.133 | 149 | 3068125 | 48.203 | ng | | 100 |
| 75) | Fluoranthene | 19.203 | 202 | 3170134 | 46.834 | ng | | 98 |
| 77) | Benzidine | 19.386 | 184 | 762450 | 25.565 | ng | | 100 |
| 78) | Pyrene | 19.568 | 202 | 3317752 | 46.414 | ng | | 99 |
| 80) | Butylbenzylphthalate | 20.480 | 149 | 1200885 | 50.365 | ng | | 97 |
| 81) | Benzo(a)anthracene | 21.362 | 228 | 3170963 | 47.237 | ng | | 100 |
| 82) | 3,3'-Dichlorobenzidine | 21.286 | 252 | 487751 | 23.827 | ng | | 100 |
| 83) | Chrysene | 21.427 | 228 | 3030852 | 47.465 | ng | | 99 |
| 84) | Bis(2-ethylhexyl)phtha... | 21.315 | 149 | 1865304 | 50.788 | ng | | 98 |
| 85) | Di-n-octyl phthalate | 22.456 | 149 | 3032564 | 55.644 | ng | | 100 |
| 87) | Indeno(1,2,3-cd)pyrene | 27.744 | 276 | 4171594 | 54.627 | ng | # | 93 |
| 88) | Benzo(b)fluoranthene | 23.427 | 252 | 3291254 | 47.730 | ng | | 100 |
| 89) | Benzo(k)fluoranthene | 23.491 | 252 | 3268507 | 46.432 | ng | | 99 |
| 90) | Benzo(a)pyrene | 24.227 | 252 | 3181588 | 49.074 | ng | | 99 |
| 91) | Dibenzo(a,h)anthracene | 27.809 | 278 | 3373519 | 54.424 | ng | | 98 |
| 92) | Benzo(g,h,i)perylene | 28.791 | 276 | 3433734 | 55.347 | ng | | 100 |

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

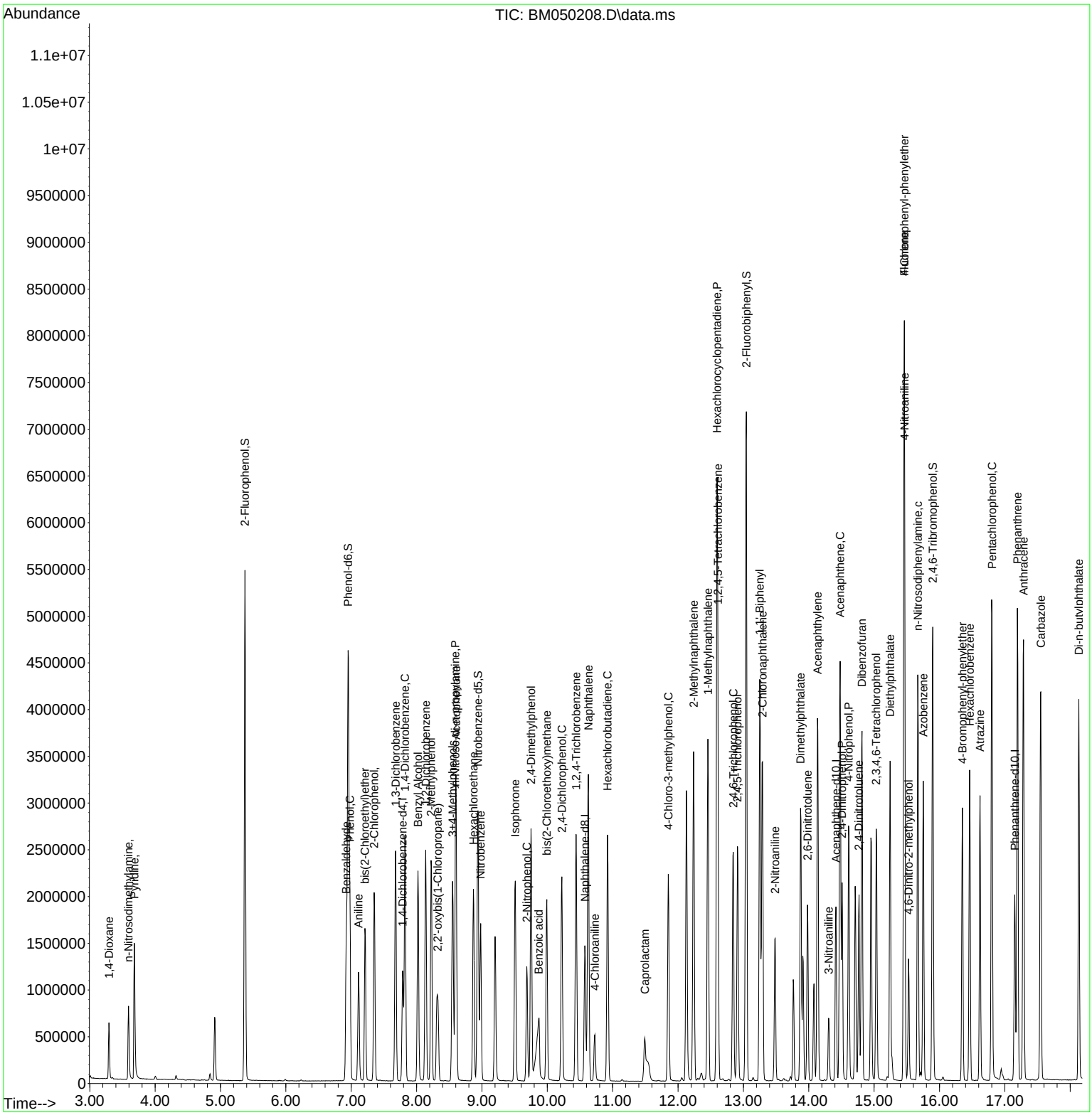
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050208.D
Acq On : 06 Jun 2025 10:47
Operator : RC/JU
Sample : PB168269BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 11:23:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
PB168269BS

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025



Quantitation Report (QT Reviewed)

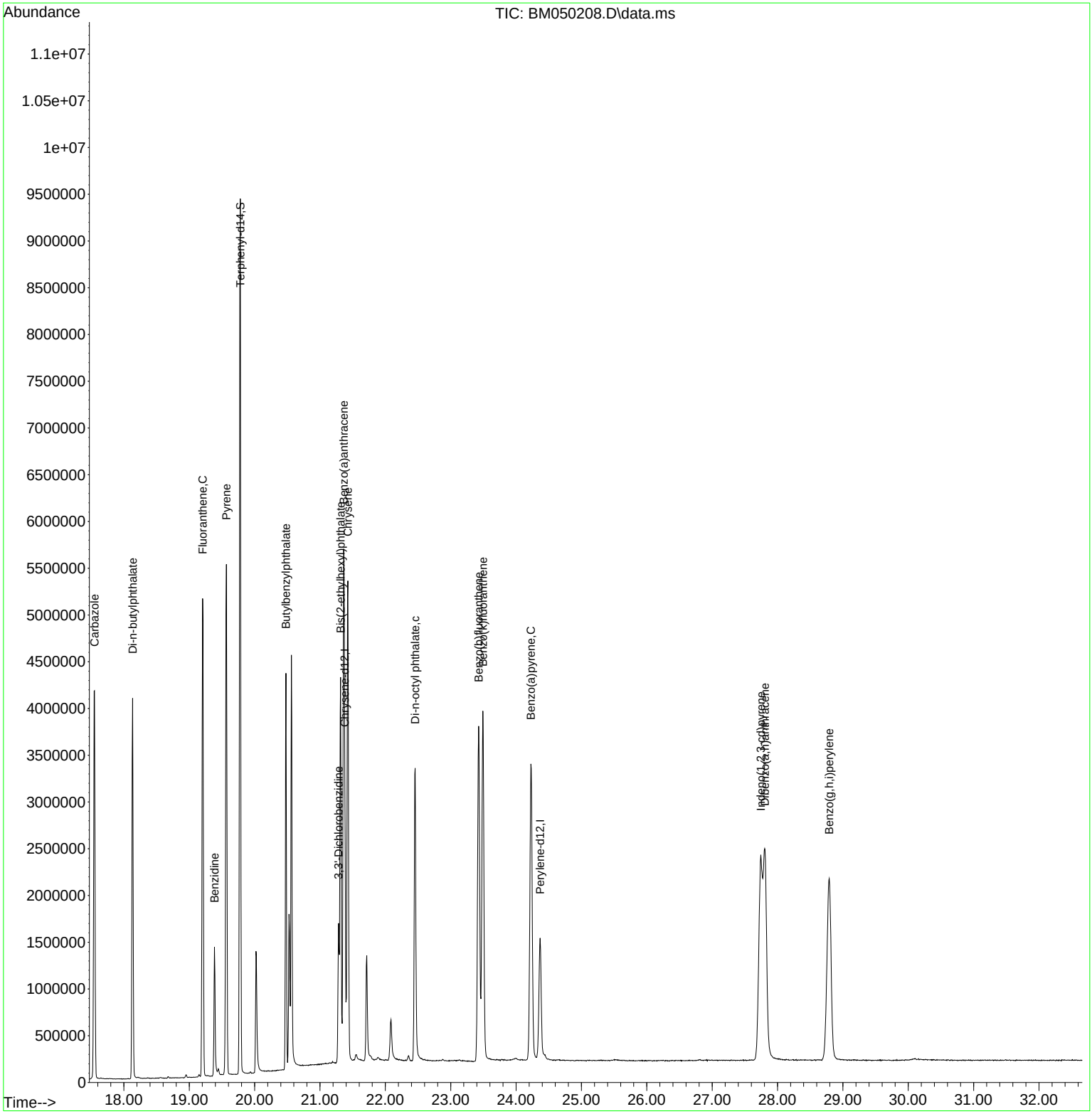
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050208.D
Acq On : 06 Jun 2025 10:47
Operator : RC/JU
Sample : PB168269BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 11:23:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
PB168269BS

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050210.D
Acq On : 06 Jun 2025 12:06
Operator : RC/JU
Sample : Q2177-03MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 12:38:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01MS

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.787 | 152 | 326296 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.575 | 136 | 1267565 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 14.416 | 164 | 684770 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 17.151 | 188 | 1179346 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 21.380 | 240 | 1089185 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 24.368 | 264 | 1220890 | 20.000 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.375 | 112 | 2382563 | 121.805 | ng | | 0.00 |
| 7) Phenol-d6 | 6.951 | 99 | 2812170 | 109.213 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 8.939 | 82 | 1937115 | 79.480 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.898 | 330 | 969471 | 124.470 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 13.045 | 172 | 3927928 | 77.659 | ng | | 0.00 |
| 79) Terphenyl-d14 | 19.780 | 244 | 4567622 | 79.470 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.305 | 88 | 307156 | 35.824 | ng | # | 76 |
| 3) Pyridine | 3.693 | 79 | 829922 | 37.377 | ng | | 99 |
| 4) n-Nitrosodimethylamine | 3.599 | 42 | 195836 | 42.652 | ng | | 96 |
| 6) Aniline | 7.116 | 93 | 636648 | 18.703 | ng | | 98 |
| 8) 2-Chlorophenol | 7.351 | 128 | 953896 | 44.335 | ng | | 99 |
| 9) Benzaldehyde | 6.928 | 77 | 331231 | 20.233 | ng | | 99 |
| 10) Phenol | 6.981 | 94 | 1055295 | 38.734 | ng | | 99 |
| 11) bis(2-Chloroethyl)ether | 7.216 | 93 | 939657 | 42.879 | ng | | 100 |
| 12) 1,3-Dichlorobenzene | 7.681 | 146 | 906130 | 37.672 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 7.822 | 146 | 941185 | 37.608 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 8.140 | 146 | 911840 | 38.220 | ng | | 98 |
| 15) Benzyl Alcohol | 8.022 | 79 | 799947 | 43.557 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.316 | 45 | 640359 | 42.065 | ng | | 98 |
| 17) 2-Methylphenol | 8.222 | 107 | 764025 | 42.501 | ng | | 99 |
| 18) Hexachloroethane | 8.869 | 117 | 343431 | 37.893 | ng | | 100 |
| 19) n-Nitroso-di-n-propyla... | 8.592 | 70 | 665245 | 42.218 | ng | | 99 |
| 20) 3+4-Methylphenols | 8.551 | 107 | 1011265 | 42.047 | ng | | 99 |
| 22) Acetophenone | 8.604 | 105 | 1363804 | 43.066 | ng | # | 99 |
| 24) Nitrobenzene | 8.981 | 77 | 991933 | 44.750 | ng | | 99 |
| 25) Isophorone | 9.510 | 82 | 1843904 | 43.833 | ng | | 99 |
| 26) 2-Nitrophenol | 9.686 | 139 | 446203 | 46.634 | ng | | 98 |
| 27) 2,4-Dimethylphenol | 9.751 | 122 | 870473 | 44.277 | ng | | 100 |
| 28) bis(2-Chloroethoxy)met... | 9.992 | 93 | 1203792 | 43.804 | ng | | 100 |
| 29) 2,4-Dichlorophenol | 10.222 | 162 | 821582 | 45.159 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 10.439 | 180 | 854167 | 42.191 | ng | | 100 |
| 31) Naphthalene | 10.628 | 128 | 2759166 | 42.102 | ng | | 100 |
| 32) Benzoic acid | 9.863 | 122 | 448266 | 36.282 | ng | | 99 |
| 33) 4-Chloroaniline | 10.728 | 127 | 165910 | 5.938 | ng | | 97 |
| 34) Hexachlorobutadiene | 10.922 | 225 | 499405 | 41.472 | ng | | 99 |
| 35) Caprolactam | 11.486 | 113 | 203525 | 35.286 | ng | | 97 |
| 36) 4-Chloro-3-methylphenol | 11.851 | 107 | 825779 | 42.538 | ng | | 98 |
| 37) 2-Methylnaphthalene | 12.239 | 142 | 1691822 | 42.792 | ng | | 99 |
| 38) 1-Methylnaphthalene | 12.457 | 142 | 1762386 | 41.999 | ng | | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 12.610 | 216 | 919589 | 46.506 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 12.598 | 237 | 1103835 | 91.922 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 12.845 | 196 | 620811 | 47.742 | ng | | 99 |

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050210.D
Acq On : 06 Jun 2025 12:06
Operator : RC/JU
Sample : Q2177-03MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 12:38:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01MS

**Manual Integrations APPROVED**
Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) | 2,4,5-Trichlorophenol | 12.910 | 196 | 667141 | 46.729 | ng | 98 |
| 46) | 1,1'-Biphenyl | 13.251 | 154 | 2341527 | 45.666 | ng | 98 |
| 47) | 2-Chloronaphthalene | 13.292 | 162 | 1792919 | 44.977 | ng | 99 |
| 48) | 2-Nitroaniline | 13.486 | 65 | 427535 | 48.737 | ng | 99 |
| 49) | Acenaphthylene | 14.133 | 152 | 2916115 | 45.228 | ng | 99 |
| 50) | Dimethylphthalate | 13.874 | 163 | 2077786 | 44.866 | ng | 99 |
| 51) | 2,6-Dinitrotoluene | 13.980 | 165 | 442037 | 47.330 | ng | 94 |
| 52) | Acenaphthene | 14.480 | 154 | 1930436 | 47.868 | ng | 100 |
| 53) | 3-Nitroaniline | 14.304 | 138 | 186328 | 17.901 | ng | 99 |
| 54) | 2,4-Dinitrophenol | 14.510 | 184 | 415808 | 74.958 | ng | 98 |
| 55) | Dibenzofuran | 14.816 | 168 | 2598540 | 44.043 | ng | 100 |
| 56) | 4-Nitrophenol | 14.610 | 139 | 759762 | 85.759 | ng | 100 |
| 57) | 2,4-Dinitrotoluene | 14.768 | 165 | 601051 | 48.787 | ng | 99 |
| 58) | Fluorene | 15.463 | 166 | 2002920 | 44.323 | ng | 99 |
| 59) | 2,3,4,6-Tetrachlorophenol | 15.033 | 232 | 554722m | 44.909 | ng | |
| 60) | Diethylphthalate | 15.245 | 149 | 2023715 | 44.042 | ng | 99 |
| 61) | 4-Chlorophenyl-phenyle... | 15.463 | 204 | 958609 | 43.892 | ng | 98 |
| 62) | 4-Nitroaniline | 15.468 | 138 | 405168 | 41.531 | ng | 98 |
| 63) | Azobenzene | 15.751 | 77 | 2021498 | 44.015 | ng | 99 |
| 65) | 4,6-Dinitro-2-methylph... | 15.527 | 198 | 283528 | 44.016 | ng | 97 |
| 66) | n-Nitrosodiphenylamine | 15.668 | 169 | 1749325 | 47.208 | ng | 100 |
| 67) | 4-Bromophenyl-phenylether | 16.351 | 248 | 599446 | 47.664 | ng | 99 |
| 68) | Hexachlorobenzene | 16.462 | 284 | 690076 | 46.964 | ng | 97 |
| 69) | Atrazine | 16.621 | 200 | 563892 | 47.759 | ng | 100 |
| 70) | Pentachlorophenol | 16.798 | 266 | 916700 | 95.958 | ng | 99 |
| 71) | Phenanthrene | 17.192 | 178 | 3030486 | 44.981 | ng | 99 |
| 72) | Anthracene | 17.286 | 178 | 3066040 | 45.491 | ng | 100 |
| 73) | Carbazole | 17.545 | 167 | 2802423 | 45.641 | ng | 100 |
| 74) | Di-n-butylphthalate | 18.133 | 149 | 3131978 | 46.879 | ng | 100 |
| 75) | Fluoranthene | 19.203 | 202 | 3233462 | 45.511 | ng | 99 |
| 77) | Benzidine | 19.386 | 184 | 634071 | 20.702 | ng | 99 |
| 78) | Pyrene | 19.568 | 202 | 3367898 | 45.877 | ng | 99 |
| 80) | Butylbenzylphthalate | 20.480 | 149 | 1220876 | 49.857 | ng | 99 |
| 81) | Benzo(a)anthracene | 21.362 | 228 | 3202268 | 46.450 | ng | 99 |
| 82) | 3,3'-Dichlorobenzidine | 21.286 | 252 | 453770 | 21.584 | ng | 99 |
| 83) | Chrysene | 21.427 | 228 | 3030304 | 46.209 | ng | 99 |
| 84) | Bis(2-ethylhexyl)phtha... | 21.315 | 149 | 1831065 | 48.545 | ng | 100 |
| 85) | Di-n-octyl phthalate | 22.456 | 149 | 2992661 | 53.468 | ng | 100 |
| 87) | Indeno(1,2,3-cd)pyrene | 27.738 | 276 | 4161319 | 52.936 | ng | 100 |
| 88) | Benzo(b)fluoranthene | 23.433 | 252 | 3292419 | 46.383 | ng | 100 |
| 89) | Benzo(k)fluoranthene | 23.491 | 252 | 3248849 | 44.834 | ng | 100 |
| 90) | Benzo(a)pyrene | 24.233 | 252 | 3177372 | 47.609 | ng | 98 |
| 91) | Dibenzo(a,h)anthracene | 27.809 | 278 | 3351181 | 52.519 | ng | 98 |
| 92) | Benzo(g,h,i)perylene | 28.791 | 276 | 3427026 | 53.661 | ng | 100 |

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

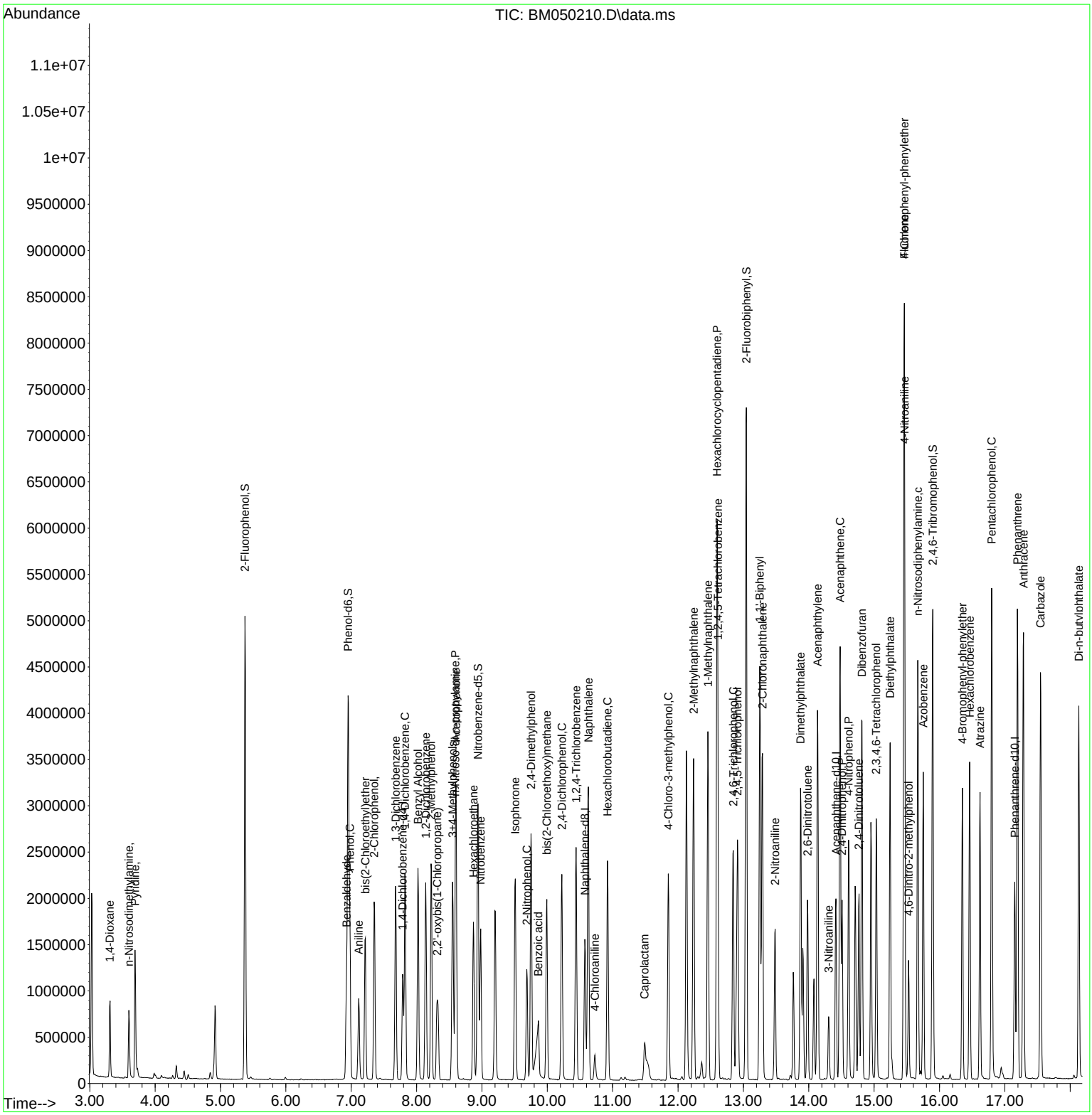
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050210.D
Acq On : 06 Jun 2025 12:06
Operator : RC/JU
Sample : Q2177-03MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 12:38:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01MS

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025



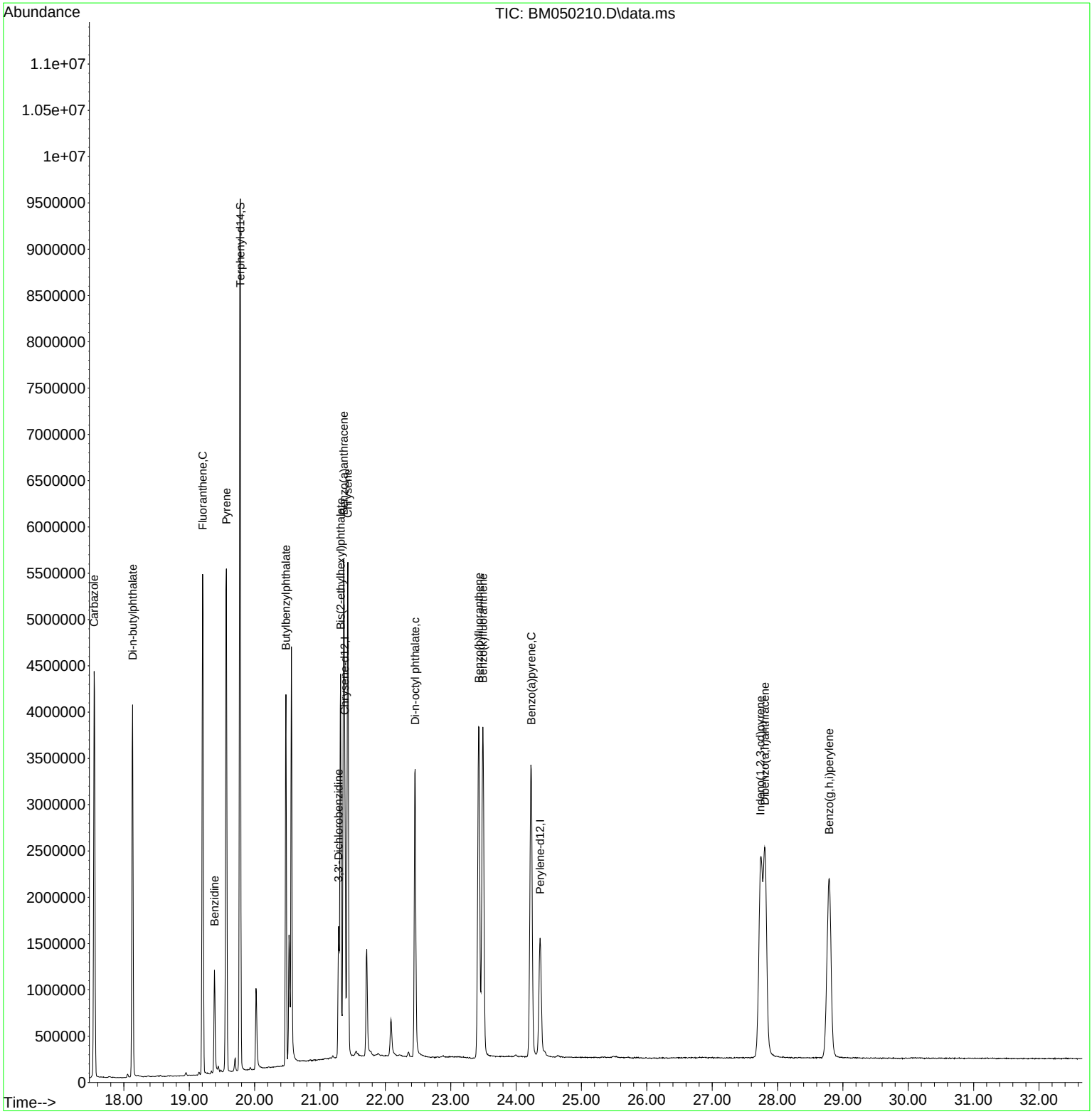
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050210.D
Acq On : 06 Jun 2025 12:06
Operator : RC/JU
Sample : Q2177-03MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 12:38:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01MS

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050211.D
Acq On : 06 Jun 2025 12:46
Operator : RC/JU
Sample : Q2177-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01MSD

Quant Time: Jun 06 14:32:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.786 | 152 | 347769 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 10.575 | 136 | 1350319 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 14.415 | 164 | 744312 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 17.151 | 188 | 1278962 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 21.386 | 240 | 1127474 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 24.368 | 264 | 1245310 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.375 | 112 | 2430803 | 116.598 | ng | 0.00 |
| 7) Phenol-d6 | 6.957 | 99 | 2905330 | 105.864 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 8.939 | 82 | 2004766 | 77.214 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.898 | 330 | 1020943 | 120.593 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 13.045 | 172 | 4129019 | 75.104 | ng | 0.00 |
| 79) Terphenyl-d14 | 19.780 | 244 | 4641959 | 78.021 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 304263 | 33.295 | ng | # 77 |
| 3) Pyridine | 3.693 | 79 | 827427 | 34.964 | ng | 99 |
| 4) n-Nitrosodimethylamine | 3.599 | 42 | 193516 | 39.545 | ng | 95 |
| 6) Aniline | 7.116 | 93 | 729082 | 20.096 | ng | 99 |
| 8) 2-Chlorophenol | 7.357 | 128 | 974022 | 42.475 | ng | 99 |
| 9) Benzaldehyde | 6.928 | 77 | 349435 | 20.027 | ng | 100 |
| 10) Phenol | 6.981 | 94 | 1087108 | 37.438 | ng | 99 |
| 11) bis(2-Chloroethyl)ether | 7.216 | 93 | 950012 | 40.675 | ng | 99 |
| 12) 1,3-Dichlorobenzene | 7.681 | 146 | 922280 | 35.976 | ng | 99 |
| 13) 1,4-Dichlorobenzene | 7.822 | 146 | 952487 | 35.710 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 8.139 | 146 | 937100 | 36.854 | ng | 99 |
| 15) Benzyl Alcohol | 8.022 | 79 | 826863 | 42.243 | ng | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 8.322 | 45 | 643282 | 39.648 | ng | 100 |
| 17) 2-Methylphenol | 8.228 | 107 | 797691 | 41.634 | ng | 99 |
| 18) Hexachloroethane | 8.869 | 117 | 350837 | 36.320 | ng | 100 |
| 19) n-Nitroso-di-n-propyla... | 8.592 | 70 | 683284 | 40.685 | ng | 99 |
| 20) 3+4-Methylphenols | 8.551 | 107 | 1054728 | 41.147 | ng | 99 |
| 22) Acetophenone | 8.604 | 105 | 1400969 | 41.529 | ng | 99 |
| 24) Nitrobenzene | 8.981 | 77 | 1011971 | 42.856 | ng | 99 |
| 25) Isophorone | 9.510 | 82 | 1912338 | 42.674 | ng | 99 |
| 26) 2-Nitrophenol | 9.686 | 139 | 471795 | 46.287 | ng | 99 |
| 27) 2,4-Dimethylphenol | 9.751 | 122 | 918348 | 43.849 | ng | 98 |
| 28) bis(2-Chloroethoxy)met... | 9.992 | 93 | 1245014 | 42.528 | ng | 100 |
| 29) 2,4-Dichlorophenol | 10.222 | 162 | 873426 | 45.067 | ng | 99 |
| 30) 1,2,4-Trichlorobenzene | 10.439 | 180 | 886234 | 41.092 | ng | 99 |
| 31) Naphthalene | 10.627 | 128 | 2831466 | 40.557 | ng | 100 |
| 32) Benzoic acid | 9.863 | 122 | 477925 | 36.311 | ng | 98 |
| 33) 4-Chloroaniline | 10.727 | 127 | 187043 | 6.284 | ng | 99 |
| 34) Hexachlorobutadiene | 10.922 | 225 | 516046 | 40.227 | ng | 100 |
| 35) Caprolactam | 11.492 | 113 | 211805 | 34.472 | ng | 97 |
| 36) 4-Chloro-3-methylphenol | 11.851 | 107 | 877820 | 42.447 | ng | 100 |
| 37) 2-Methylnaphthalene | 12.239 | 142 | 1772625 | 42.088 | ng | 99 |
| 38) 1-Methylnaphthalene | 12.457 | 142 | 1844686 | 41.266 | ng | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 12.610 | 216 | 960082 | 44.670 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 12.598 | 237 | 1140357 | 87.366 | ng | 97 |
| 43) 2,4,6-Trichlorophenol | 12.845 | 196 | 659262 | 46.644 | ng | 98 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050211.D
Acq On : 06 Jun 2025 12:46
Operator : RC/JU
Sample : Q2177-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01MSD

Quant Time: Jun 06 14:32:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

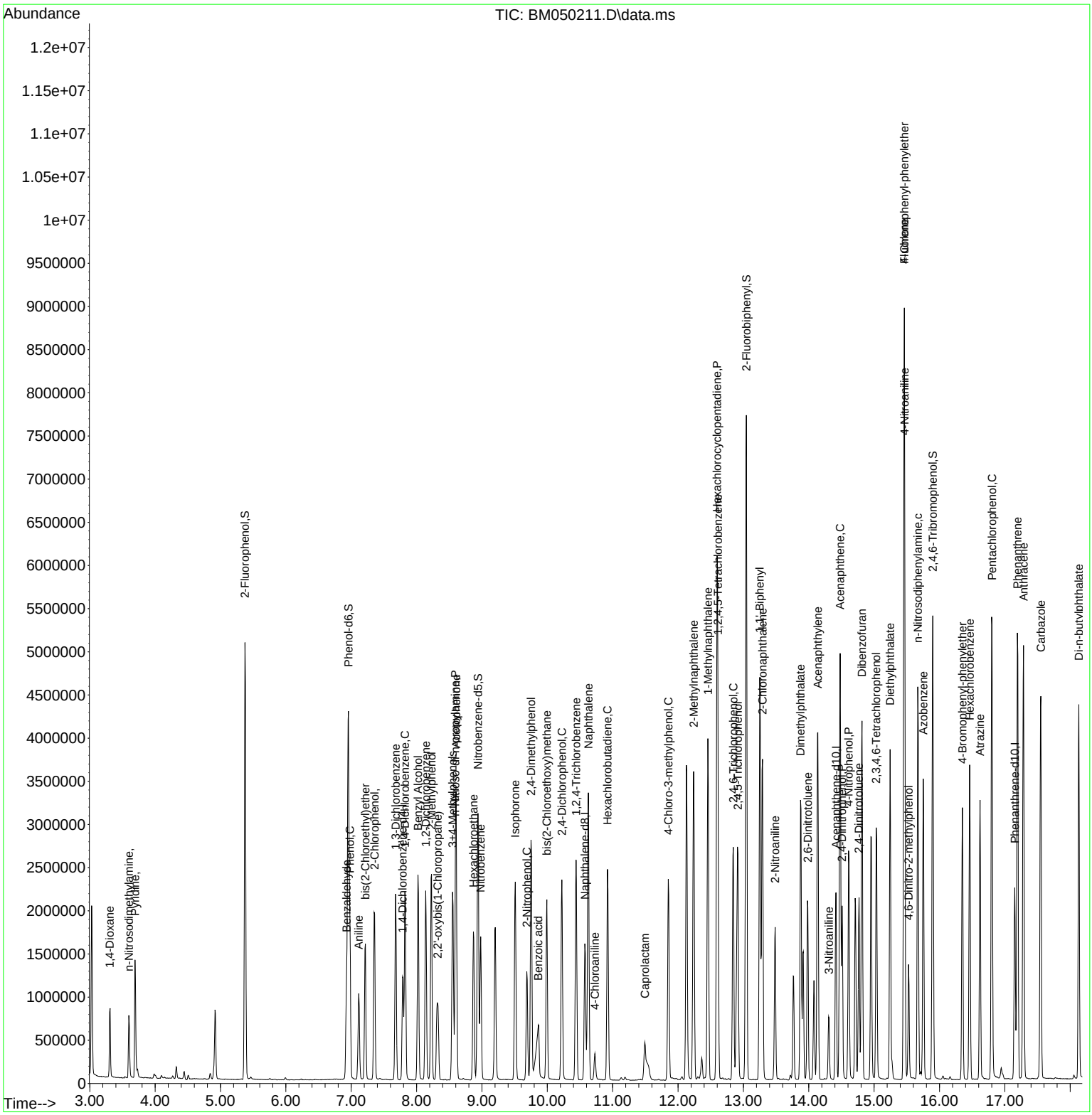
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 12.916 | 196 | 711164 | 45.827 | ng | | 99 |
| 46) 1,1'-Biphenyl | 13.251 | 154 | 2452677 | 44.007 | ng | | 99 |
| 47) 2-Chloronaphthalene | 13.292 | 162 | 1881619 | 43.426 | ng | | 100 |
| 48) 2-Nitroaniline | 13.486 | 65 | 452934 | 47.502 | ng | | 98 |
| 49) Acenaphthylene | 14.139 | 152 | 3052359 | 43.554 | ng | | 100 |
| 50) Dimethylphthalate | 13.874 | 163 | 2192800 | 43.562 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 13.986 | 165 | 471247 | 46.422 | ng | | 99 |
| 52) Acenaphthene | 14.480 | 154 | 2026567 | 46.232 | ng | | 99 |
| 53) 3-Nitroaniline | 14.310 | 138 | 203472 | 17.984 | ng | | 98 |
| 54) 2,4-Dinitrophenol | 14.510 | 184 | 442324 | 73.179 | ng | | 97 |
| 55) Dibenzofuran | 14.815 | 168 | 2748348 | 42.856 | ng | | 99 |
| 56) 4-Nitrophenol | 14.610 | 139 | 789854 | 82.024 | ng | | 99 |
| 57) 2,4-Dinitrotoluene | 14.768 | 165 | 637253 | 47.588 | ng | | 99 |
| 58) Fluorene | 15.462 | 166 | 2086832 | 42.486 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 15.033 | 232 | 586771 | 43.703 | ng | | 93 |
| 60) Diethylphthalate | 15.245 | 149 | 2118106 | 42.409 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 15.462 | 204 | 1007290 | 42.432 | ng | | 97 |
| 62) 4-Nitroaniline | 15.468 | 138 | 431923 | 40.732 | ng | | 98 |
| 63) Azobenzene | 15.751 | 77 | 2096222 | 41.991 | ng | | 98 |
| 65) 4,6-Dinitro-2-methylph... | 15.527 | 198 | 303524 | 43.451 | ng | | 98 |
| 66) n-Nitrosodiphenylamine | 15.668 | 169 | 1833639 | 45.629 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 16.351 | 248 | 631109 | 46.273 | ng | | 99 |
| 68) Hexachlorobenzene | 16.462 | 284 | 727918 | 45.681 | ng | | 98 |
| 69) Atrazine | 16.621 | 200 | 590156 | 46.090 | ng | | 98 |
| 70) Pentachlorophenol | 16.804 | 266 | 953669 | 92.052 | ng | | 99 |
| 71) Phenanthrene | 17.192 | 178 | 3163946 | 43.304 | ng | | 100 |
| 72) Anthracene | 17.286 | 178 | 3193033 | 43.685 | ng | | 100 |
| 73) Carbazole | 17.551 | 167 | 2890483 | 43.408 | ng | | 100 |
| 74) Di-n-butylphthalate | 18.133 | 149 | 3263385 | 45.042 | ng | | 100 |
| 75) Fluoranthene | 19.203 | 202 | 3320524 | 43.096 | ng | | 99 |
| 77) Benzidine | 19.386 | 184 | 701246 | 22.118 | ng | | 99 |
| 78) Pyrene | 19.568 | 202 | 3454160 | 45.454 | ng | | 99 |
| 80) Butylbenzylphthalate | 20.480 | 149 | 1245626 | 49.140 | ng | | 99 |
| 81) Benzo(a)anthracene | 21.368 | 228 | 3199318 | 44.831 | ng | | 100 |
| 82) 3,3'-Dichlorobenzidine | 21.286 | 252 | 474153 | 21.788 | ng | | 99 |
| 83) Chrysene | 21.427 | 228 | 3033462 | 44.686 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 21.315 | 149 | 1868435 | 47.853 | ng | | 99 |
| 85) Di-n-octyl phthalate | 22.456 | 149 | 3010702 | 51.964 | ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 27.744 | 276 | 4044672 | 50.443 | ng | # | 93 |
| 88) Benzo(b)fluoranthene | 23.433 | 252 | 3187024 | 44.018 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 23.497 | 252 | 3248023 | 43.944 | ng | | 99 |
| 90) Benzo(a)pyrene | 24.232 | 252 | 3112925 | 45.728 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 27.809 | 278 | 3254856 | 50.009 | ng | | 100 |
| 92) Benzo(g,h,i)perylene | 28.791 | 276 | 3327556 | 51.082 | ng | | 99 |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050211.D
Acq On : 06 Jun 2025 12:46
Operator : RC/JU
Sample : Q2177-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01MSD

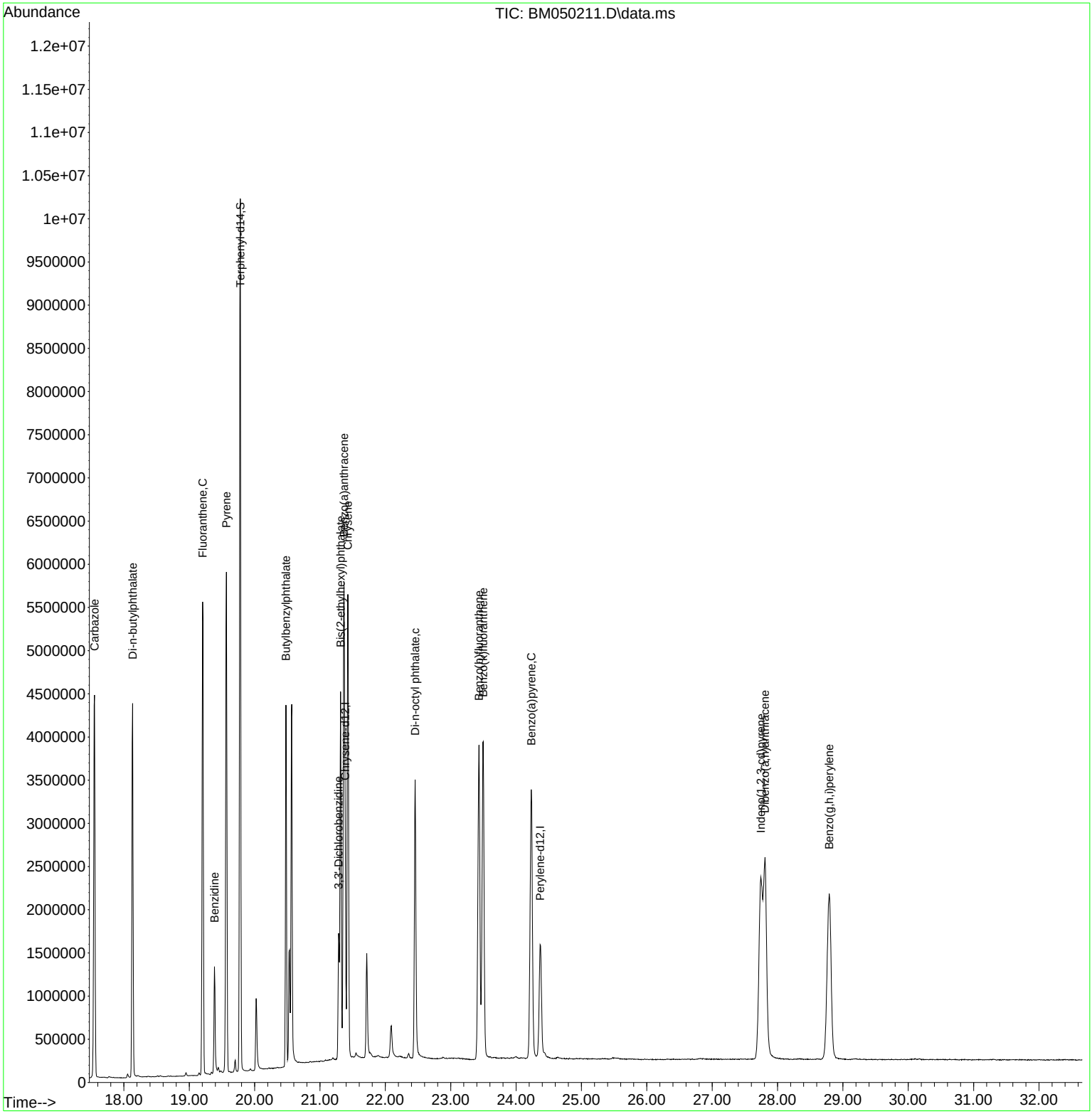
Quant Time: Jun 06 14:32:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050211.D
Acq On : 06 Jun 2025 12:46
Operator : RC/JU
Sample : Q2177-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
B-187-SB01MSD

Quant Time: Jun 06 14:32:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



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

# Manual Integration Report

| Sequence: | BM060525 | Instrument | BNA_m |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICC005 | BM050195.D | 2,3,4,6-Tetrachlorophenol | Rahul | 6/6/2025 12:19:17 PM | Jagrut | 6/6/2025 1:16:08 PM | Peak Integrated by Software |
| SSTDICC005 | BM050195.D | Benzaldehyde | Rahul | 6/6/2025 12:19:17 PM | Jagrut | 6/6/2025 1:16:08 PM | Peak Integrated by Software |
| SSTDICC010 | BM050196.D | 2,3,4,6-Tetrachlorophenol | Rahul | 6/5/2025 4:48:25 PM | Jagrut | 6/6/2025 1:16:10 PM | Peak Integrated by Software |
| SSTDICC020 | BM050197.D | Benzaldehyde | Rahul | 6/6/2025 12:19:19 PM | Jagrut | 6/6/2025 1:16:13 PM | Peak Integrated by Software |
| SSTDICCC040 | BM050198.D | 2,3,4,6-Tetrachlorophenol | Rahul | 6/5/2025 4:48:28 PM | Jagrut | 6/6/2025 1:16:15 PM | Peak Integrated by Software |
| SSTDICV040 | BM050202.D | Benzaldehyde | Rahul | 6/5/2025 4:48:30 PM | Jagrut | 6/6/2025 1:16:18 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BM060625 | Instrument | BNA_m |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC040 | BM050206.D | 2,3,4,6-Tetrachlorophenol | Rahul | 6/9/2025 10:50:24 AM | Jagrut | 6/9/2025 12:05:51 PM | Peak Integrated by Software |
| PB168269BS | BM050208.D | 2,3,4,6-Tetrachlorophenol | Rahul | 6/9/2025 10:50:30 AM | Jagrut | 6/9/2025 12:05:54 PM | Peak Integrated by Software |
| Q2177-03MS | BM050210.D | 2,3,4,6-Tetrachlorophenol | Rahul | 6/9/2025 10:50:33 AM | Jagrut | 6/9/2025 12:05:56 PM | Peak Integrated by Software |
| SSTDCCC040 | BM050223.D | 2,3,4,6-Tetrachlorophenol | Rahul | 6/9/2025 10:50:43 AM | Jagrut | 6/9/2025 12:06:05 PM | Peak Integrated by Software |

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**Instrument ID: BNA_M**

## Daily Analysis Runlog For Sequence/QCBatch ID # BM060525

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/6/2025 12:27:19 PM | | | | |
| Supervise By | Jagrut | Supervise On | 6/6/2025 1:16:37 PM | | | | |
| SubDirectory | BM060525 | HP Acquire Method | BNA_M | | HP Processing Method | bm060525 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6796 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BM050193.D | 05 Jun 2025 08:40 | RC/JU | Ok |
| 2 | SSTDICC2.5 | BM050194.D | 05 Jun 2025 09:20 | RC/JU | Ok |
| 3 | SSTDICC005 | BM050195.D | 05 Jun 2025 09:59 | RC/JU | Ok,M |
| 4 | SSTDICC010 | BM050196.D | 05 Jun 2025 10:38 | RC/JU | Ok,M |
| 5 | SSTDICC020 | BM050197.D | 05 Jun 2025 11:17 | RC/JU | Ok,M |
| 6 | SSTDICCC040 | BM050198.D | 05 Jun 2025 11:57 | RC/JU | Ok,M |
| 7 | SSTDICC050 | BM050199.D | 05 Jun 2025 12:36 | RC/JU | Ok |
| 8 | SSTDICC060 | BM050200.D | 05 Jun 2025 13:16 | RC/JU | Ok |
| 9 | SSTDICC080 | BM050201.D | 05 Jun 2025 13:56 | RC/JU | Ok |
| 10 | SSTDICV040 | BM050202.D | 05 Jun 2025 14:36 | RC/JU | Ok,M |
| 11 | PB168224TB | BM050203.D | 05 Jun 2025 16:35 | RC/JU | Ok |
| 12 | SP6794 | BM050204.D | 05 Jun 2025 17:15 | RC/JU | Ok |

M : Manual Integration

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**Instrument ID: BNA_M**

## Daily Analysis Runlog For Sequence/QCBatch ID # BM060625

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/9/2025 11:33:37 AM | | | | |
| Supervise By | Jagrut | Supervise On | 6/9/2025 12:06:36 PM | | | | |
| SubDirectory | BM060625 | HP Acquire Method | BNA_M | | HP Processing Method | bm060525 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6796 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BM050205.D | 06 Jun 2025 08:50 | RC/JU | Ok |
| 2 | SSTDCCC040 | BM050206.D | 06 Jun 2025 09:29 | RC/JU | Ok,M |
| 3 | PB168269BL | BM050207.D | 06 Jun 2025 10:08 | RC/JU | Ok |
| 4 | PB168269BS | BM050208.D | 06 Jun 2025 10:47 | RC/JU | Ok,M |
| 5 | Q2177-03 | BM050209.D | 06 Jun 2025 11:27 | RC/JU | Ok |
| 6 | Q2177-03MS | BM050210.D | 06 Jun 2025 12:06 | RC/JU | Ok,M |
| 7 | Q2177-03MSD | BM050211.D | 06 Jun 2025 12:46 | RC/JU | Ok |
| 8 | Q2194-02 | BM050212.D | 06 Jun 2025 13:26 | RC/JU | Ok |
| 9 | Q2194-02MS | BM050213.D | 06 Jun 2025 14:06 | RC/JU | Ok |
| 10 | Q2194-02MSD | BM050214.D | 06 Jun 2025 14:46 | RC/JU | Ok |
| 11 | Q2194-04 | BM050215.D | 06 Jun 2025 15:26 | RC/JU | Ok,M |
| 12 | Q2207-09 | BM050216.D | 06 Jun 2025 16:06 | RC/JU | Ok,M |
| 13 | Q2207-18 | BM050217.D | 06 Jun 2025 16:45 | RC/JU | Ok,M |
| 14 | Q2207-27 | BM050218.D | 06 Jun 2025 17:25 | RC/JU | Ok |
| 15 | Q2207-36 | BM050219.D | 06 Jun 2025 18:05 | RC/JU | Ok |
| 16 | Q2207-45 | BM050220.D | 06 Jun 2025 18:45 | RC/JU | Ok |
| 17 | Q2208-09 | BM050221.D | 06 Jun 2025 19:24 | RC/JU | Ok |
| 18 | DFTPP | BM050222.D | 06 Jun 2025 20:43 | RC/JU | Ok |
| 19 | SSTDCCC040 | BM050223.D | 06 Jun 2025 21:23 | RC/JU | Ok,M |
| 20 | PB168314BL | BM050224.D | 06 Jun 2025 22:03 | RC/JU | Ok |
| 21 | PB168314BS | BM050225.D | 06 Jun 2025 22:42 | RC/JU | Ok,M |

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**Instrument ID: BNA_M**

## Daily Analysis Runlog For Sequence/QCBatch ID # BM060625

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/9/2025 11:33:37 AM | | |
| Supervise By | Jagrut | Supervise On | 6/9/2025 12:06:36 PM | | |
| SubDirectory | BM060625 | HP Acquire Method | BNA_M | HP Processing Method | bm060525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6796 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | PB168271TB | BM050226.D | 06 Jun 2025 23:22 | RC/JU | Ok |
| 23 | Q2208-27 | BM050227.D | 07 Jun 2025 00:02 | RC/JU | Ok |
| 24 | Q2208-36 | BM050228.D | 07 Jun 2025 00:41 | RC/JU | Ok |
| 25 | Q2198-02 | BM050229.D | 07 Jun 2025 01:21 | RC/JU | Ok |
| 26 | Q2198-04 | BM050230.D | 07 Jun 2025 02:01 | RC/JU | Ok |
| 27 | Q2206-04 | BM050231.D | 07 Jun 2025 02:41 | RC/JU | Ok |
| 28 | Q2177-05 | BM050232.D | 07 Jun 2025 03:20 | RC/JU | Ok |
| 29 | Q2177-07 | BM050233.D | 07 Jun 2025 04:00 | RC/JU | Ok |
| 30 | Q2208-18 | BM050234.D | 07 Jun 2025 04:39 | RC/JU | Ok |

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**Instrument ID:** BNA_M

## Daily Analysis Runlog For Sequence/QCBatch ID # BM060525

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/6/2025 12:27:19 PM | | |
| Supervise By | Jagrut | Supervise On | 6/6/2025 1:16:37 PM | | |
| SubDirectory | BM060525 | HP Acquire Method | BNA_M | HP Processing Method | bm060525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6796 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BM050193.D | 05 Jun 2025 08:40 | | RC/JU | Ok |
| 2 | SSTDICC2.5 | SSTDICC2.5 | BM050194.D | 05 Jun 2025 09:20 | | RC/JU | Ok |
| 3 | SSTDICC005 | SSTDICC005 | BM050195.D | 05 Jun 2025 09:59 | Compound #32,54,65,77 removed from 5PPM | RC/JU | Ok,M |
| 4 | SSTDICC010 | SSTDICC010 | BM050196.D | 05 Jun 2025 10:38 | Compound #54 kept on QR | RC/JU | Ok,M |
| 5 | SSTDICC020 | SSTDICC020 | BM050197.D | 05 Jun 2025 11:17 | | RC/JU | Ok,M |
| 6 | SSTDICCC040 | SSTDICCC040 | BM050198.D | 05 Jun 2025 11:57 | The compound # 85 failed in the Calibration. | RC/JU | Ok,M |
| 7 | SSTDICC050 | SSTDICC050 | BM050199.D | 05 Jun 2025 12:36 | | RC/JU | Ok |
| 8 | SSTDICC060 | SSTDICC060 | BM050200.D | 05 Jun 2025 13:16 | | RC/JU | Ok |
| 9 | SSTDICC080 | SSTDICC080 | BM050201.D | 05 Jun 2025 13:56 | Compound #9 removed from 80PPM | RC/JU | Ok |
| 10 | SSTDICV040 | ICVBM060525 | BM050202.D | 05 Jun 2025 14:36 | | RC/JU | Ok,M |
| 11 | PB168224TB | PB168224TB | BM050203.D | 05 Jun 2025 16:35 | | RC/JU | Ok |
| 12 | SP6794 | SP6794 | BM050204.D | 05 Jun 2025 17:15 | | RC/JU | Ok |

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**Instrument ID:** BNA_M

## Daily Analysis Runlog For Sequence/QCBatch ID # BM060625

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/9/2025 11:33:37 AM | | |
| Supervise By | Jagrut | Supervise On | 6/9/2025 12:06:36 PM | | |
| SubDirectory | BM060625 | HP Acquire Method | BNA_M | HP Processing Method | bm060525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6796 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BM050205.D | 06 Jun 2025 08:50 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BM050206.D | 06 Jun 2025 09:29 | | RC/JU | Ok,M |
| 3 | PB168269BL | PB168269BL | BM050207.D | 06 Jun 2025 10:08 | | RC/JU | Ok |
| 4 | PB168269BS | PB168269BS | BM050208.D | 06 Jun 2025 10:47 | | RC/JU | Ok,M |
| 5 | Q2177-03 | B-187-SB01 | BM050209.D | 06 Jun 2025 11:27 | | RC/JU | Ok |
| 6 | Q2177-03MS | B-187-SB01MS | BM050210.D | 06 Jun 2025 12:06 | | RC/JU | Ok,M |
| 7 | Q2177-03MSD | B-187-SB01MSD | BM050211.D | 06 Jun 2025 12:46 | | RC/JU | Ok |
| 8 | Q2194-02 | COMP-12 | BM050212.D | 06 Jun 2025 13:26 | | RC/JU | Ok |
| 9 | Q2194-02MS | COMP-12MS | BM050213.D | 06 Jun 2025 14:06 | | RC/JU | Ok |
| 10 | Q2194-02MSD | COMP-12MSD | BM050214.D | 06 Jun 2025 14:46 | | RC/JU | Ok |
| 11 | Q2194-04 | COMP-13 | BM050215.D | 06 Jun 2025 15:26 | | RC/JU | Ok,M |
| 12 | Q2207-09 | BU-703-COMP-01 | BM050216.D | 06 Jun 2025 16:06 | | RC/JU | Ok,M |
| 13 | Q2207-18 | BU-703-COMP-02 | BM050217.D | 06 Jun 2025 16:45 | | RC/JU | Ok,M |
| 14 | Q2207-27 | BU-703-COMP-03 | BM050218.D | 06 Jun 2025 17:25 | | RC/JU | Ok |
| 15 | Q2207-36 | BU-703-COMP-04 | BM050219.D | 06 Jun 2025 18:05 | | RC/JU | Ok |
| 16 | Q2207-45 | BU-703-COMP-05 | BM050220.D | 06 Jun 2025 18:45 | | RC/JU | Ok |
| 17 | Q2208-09 | BU-703-COMP-06 | BM050221.D | 06 Jun 2025 19:24 | | RC/JU | Ok |
| 18 | DFTPP | DFTPP | BM050222.D | 06 Jun 2025 20:43 | | RC/JU | Ok |

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**Instrument ID:** BNA_M

## Daily Analysis Runlog For Sequence/QCBatch ID # BM060625

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 6/9/2025 11:33:37 AM | | |
| Supervise By | Jagrut | Supervise On | 6/9/2025 12:06:36 PM | | |
| SubDirectory | BM060625 | HP Acquire Method | BNA_M | HP Processing Method | bm060525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791 |
| CCC | SP6787 |
| Internal Standard/PEM | S12667,10ul/1000ul sample |
| ICV/I.BLK | SP6796 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | SSTDCCC040 | SSTDCCC040 | BM050223.D | 06 Jun 2025 21:23 | | RC/JU | Ok,M |
| 20 | PB168314BL | PB168314BL | BM050224.D | 06 Jun 2025 22:03 | | RC/JU | Ok |
| 21 | PB168314BS | PB168314BS | BM050225.D | 06 Jun 2025 22:42 | | RC/JU | Ok,M |
| 22 | PB168271TB | PB168271TB | BM050226.D | 06 Jun 2025 23:22 | | RC/JU | Ok |
| 23 | Q2208-27 | BU-703-COMP-08 | BM050227.D | 07 Jun 2025 00:02 | | RC/JU | Ok |
| 24 | Q2208-36 | BU-703-COMP-09 | BM050228.D | 07 Jun 2025 00:41 | | RC/JU | Ok |
| 25 | Q2198-02 | B-202-SB02 | BM050229.D | 07 Jun 2025 01:21 | | RC/JU | Ok |
| 26 | Q2198-04 | B-207-SB02 | BM050230.D | 07 Jun 2025 02:01 | | RC/JU | Ok |
| 27 | Q2206-04 | TP-1 | BM050231.D | 07 Jun 2025 02:41 | | RC/JU | Ok |
| 28 | Q2177-05 | B-187-SB02 | BM050232.D | 07 Jun 2025 03:20 | | RC/JU | Ok |
| 29 | Q2177-07 | B-202-SB01 | BM050233.D | 07 Jun 2025 04:00 | | RC/JU | Ok |
| 30 | Q2208-18 | BU-703-COMP-07 | BM050234.D | 07 Jun 2025 04:39 | | RC/JU | Ok |

M : Manual Integration

Alliance TECHNICAL GROUP

**TCLP EXTRACTION LOGPAGE**

PB168224

**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 / T-2

**TCLP Filter ID :** 115525

**Start Prep Date :** 06/02/2025 **Time :** 16:00

**End Prep Date :** 06/03/2025 **Time :** 09:15

**Combination Ratio :** 20

**ZHE Cleaning Batch :** 10 N/A

**Initial Room Temperature:** 22 °C

**Final Room Temperature:** 21 °C

**TCLP Technician Signature :** JP

**Supervisor By :** SJ

| 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 | WP112795 |
| HCL-TCLP,1N | N/A | WP112797 |
| HNO3-TCLP,1N | N/A | WP112799 |
| pH Strips | N/A | W1931,W1934,W3171,W3172 |
| pH Strips | N/A | W3166,W1938,W1939, |
| 1 Liter Amber | N/A | 90924-08 |
| 120ml Plastic bottle | N/A | 2738 |
| 1:1 HNO3 | N/A | MP84041 |

**Extraction Conformance/Non-Conformance Comments:**

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. q2185-08 is used for MS-MSD.

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 06/03/25 11:00 | JP / TCLP Room | SJS. RS 1Ext |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

## TCLP EXTRACTION LOGPAGE

PB168224

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| PB168224TB | LEB224 | 17 | N/A | 2000 | N/A | N/A | N/A | 4.93 | 1.5 | T-2 |
| Q2159-04 | TP05-MHO-WC | 01 | 100.02 | 2000 | N/A | N/A | N/A | 3.0 | 1.0 | T-1 |
| Q2160-04 | TP04-MHG-WC | 02 | 100.03 | 2000 | N/A | N/A | N/A | 3.0 | 1.5 | T-1 |
| Q2160-08 | TP05-MHH-WC | 03 | 100.02 | 2000 | N/A | N/A | N/A | 3.5 | 1.0 | T-1 |
| Q2168-02 | SAN-A1-A3 | 04 | 100.03 | 2000 | N/A | N/A | N/A | 4.5 | 1.5 | T-1 |
| Q2168-06 | SAN-B1-B3 | 05 | 100.02 | 2000 | N/A | N/A | N/A | 4.5 | 1.0 | T-1 |
| Q2168-10 | SAN-C1-C2 | 06 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.5 | T-1 |
| Q2172-04 | TP06-MHQ | 07 | 100.01 | 2000 | N/A | N/A | N/A | 3.0 | 1.5 | T-1 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | 08 | 100.02 | 2000 | N/A | N/A | N/A | 7.0 | 1.0 | T-1 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | 09 | 100.03 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-1 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | 10 | 100.04 | 2000 | N/A | N/A | N/A | 6.0 | 1.0 | T-1 |
| Q2177-03 | B-187-SB01 | 11 | 100.02 | 2000 | N/A | N/A | N/A | 6.0 | 1.5 | T-2 |
| Q2177-05 | B-187-SB02 | 12 | 100.03 | 2000 | N/A | N/A | N/A | 5.6 | 1.0 | T-2 |
| Q2177-07 | B-202-SB01 | 13 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-2 |
| Q2178-02 | RT2929 | 14 | 100.03 | 2000 | N/A | N/A | N/A | 10.0 | 1.5 | T-2 |
| Q2185-04 | TP02-MHB-WC | 15 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-2 |
| Q2185-08 | TP01-MHB-WC | 16 | 100.03 | 2000 | N/A | N/A | N/A | 6.0 | 1.0 | T-2 |

Alliance TECHNICAL GROUP

**TCLP Solid Determination**

PB168224

| SampleID | ClientID | Sample Weight (g) | Filter Weight (g) | Filtrate (mL) | Filter + Solid (After 100°C) | % solids | % Dry Solids |
|---|---|---|---|---|---|---|---|
| PB168224TB | LEB224 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2159-04 | TP05-MHO-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2160-04 | TP04-MHG-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2160-08 | TP05-MHH-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2168-02 | SAN-A1-A3 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2168-06 | SAN-B1-B3 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2168-10 | SAN-C1-C2 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2172-04 | TP06-MHQ | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2173-06 | OR-400-CF-402B-COMP-23 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2173-12 | OR-400-CF-402B-COMP-24 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2173-18 | OR-400-CF-402B-COMP-25 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2177-03 | B-187-SB01 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2177-05 | B-187-SB02 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2177-07 | B-202-SB01 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2178-02 | RT2929 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2185-04 | TP02-MHB-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2185-08 | TP01-MHB-WC | N/A | N/A | N/A | N/A | 100 | N/A |

Alliance TECHNICAL GROUP

**TCLP Fluid Determination**

PB168224

**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 |
|---|---|---|---|---|---|---|---|
| PB168224TB | LEB224 | N/A | N/A | N/A | N/A | #1 | 4.93 |
| Q2159-04 | TP05-MHO-WC | 5.02 | 96.5 | 5.6 | 2.0 | #1 | 4.93 |
| Q2160-04 | TP04-MHG-WC | 5.01 | 96.5 | 5.5 | 2.0 | #1 | 4.93 |
| Q2160-08 | TP05-MHH-WC | 5.02 | 96.5 | 5.8 | 2.0 | #1 | 4.93 |
| Q2168-02 | SAN-A1-A3 | 5.01 | 96.5 | 6.2 | 2.5 | #1 | 4.93 |
| Q2168-06 | SAN-B1-B3 | 5.02 | 96.5 | 6.0 | 2.0 | #1 | 4.93 |
| Q2168-10 | SAN-C1-C2 | 5.03 | 96.5 | 6.0 | 2.0 | #1 | 4.93 |
| Q2172-04 | TP06-MHQ | 5.03 | 96.5 | 5.5 | 1.5 | #1 | 4.93 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | 5.02 | 96.5 | 9.0 | 3.5 | #1 | 4.93 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | 5.03 | 96.5 | 7.2 | 2.5 | #1 | 4.93 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | 5.02 | 96.5 | 8.4 | 3.0 | #1 | 4.93 |
| Q2177-03 | B-187-SB01 | 5.03 | 96.5 | 8.2 | 3.0 | #1 | 4.93 |
| Q2177-05 | B-187-SB02 | 5.02 | 96.5 | 7.2 | 2.5 | #1 | 4.93 |
| Q2177-07 | B-202-SB01 | 5.01 | 96.5 | 8.2 | 3.0 | #1 | 4.93 |
| Q2178-02 | RT2929 | 5.02 | 96.5 | 10.5 | 4.0 | #1 | 4.93 |
| Q2185-04 | TP02-MHB-WC | 5.02 | 96.5 | 8.0 | 3.0 | #1 | 4.93 |
| Q2185-08 | TP01-MHB-WC | 5.01 | 96.5 | 8.0 | 3.0 | N/A | 4.93 |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** tclp q2177 **WorkList ID :** 189871 **Department :** TCLP Extraction **Date :** 06-02-2025 12:11:06

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2159-04 | TP05-MHO-WC | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 | 1311 |
| Q2160-04 | TP04-MHG-WC | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 | 1311 |
| Q2160-08 | TP05-MHH-WC | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 | 1311 |
| Q2168-02 | SAN-A1-A3 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 | 1311 |
| Q2168-06 | SAN-B1-B3 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 1311 |
| Q2168-10 | SAN-C1-C2 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 1311 |
| Q2172-04 | TP06-MHQ | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 1311 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 1311 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 1311 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 1311 |
| Q2177-03 | B-187-SB01 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 1311 |
| Q2177-05 | B-187-SB02 | Solid | TCLP Extraction | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 1311 |
| Q2177-07 | B-202-SB01 | Solid | TCLP Extraction | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 1311 |
| Q2178-02 | RT2929 | Solid | TCLP Extraction | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 1311 |
| Q2185-04 | TP02-MHB-WC | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 06/02/2025 | 1311 |
| Q2185-08 | TP01-MHB-WC | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L31 | 06/02/2025 | 1311 |

**Date/Time** 06/02/25 15:00

**Raw Sample Received by:** JW WC

**Raw Sample Relinquished by:** JW SH



**Date/Time** 06/02/25 17:30

**Raw Sample Received by:** JW SH

**Raw Sample Relinquished by:** JW WC

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB168269

**SOP ID:** M3510C,3580A-Extraction SVOC-20

**Clean Up SOP #:** N/A

**Matrix :** Water

**Weigh By:** N/A

**Balance check:** N/A

**Balance ID:** N/A

**pH Strip Lot#:** E3880

**Extraction By:** RJ

**Filter By:** RS

**pH Meter ID:** N/A

**Hood ID:** 4,5,6,7

**Extraction Start Date :** 06/04/2025

**Extraction Start Time :** 08:30

**Extraction End Date :** 06/04/2025

**Extraction End Time :** 13:30

**Concentration By:** EH

**Supervisor By :** RUPESH

**Extraction Method:** [√] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [_] Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 50/100 PPM | SP6794 |
| Surrogate | 1.0ML | 100/150 PPM | SP6754 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Methylene Chloride | N/A | E3939 |
| Baked Na2SO4 | N/A | EP2620 |
| 10N NaoH | N/A | EP2609 |
| H2SO4 1:1 | N/A | EP2610 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

**KD Bath ID:** WATER BATH-1,2

**KD Bath Temperature:** 60 °C

**Envap ID:** NEVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 6/4/25 | RS (Ext lab) | RC/SVOC |
| 13:35 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB168269**

**Analytical Method:** M3510C,3580A-Extraction SVOC-20 **Concentration Date:** 06/04/2025

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB168224TB | PB168224TB | TCLP BNA | 100 | 6 | ritesh | Evelyn | 1 | | | SEP-1 |
| PB168269BL | PB168269BL | TCLP BNA | 1000 | 6 | ritesh | Evelyn | 1 | | | 2 |
| PB168269BS | PB168269BS | TCLP BNA | 1000 | 6 | ritesh | Evelyn | 1 | | | 3 |
| Q2159-04 | TP05-MHO-WC | TCLP BNA | 100 | 6 | ritesh | Evelyn | 1 | A | | 4 |
| Q2160-04 | TP04-MHG-WC | TCLP BNA | 100 | 6 | ritesh | Evelyn | 1 | A | | 5 |
| Q2160-08 | TP05-MHH-WC | TCLP BNA | 100 | 6 | ritesh | Evelyn | 1 | A | | 6 |
| Q2172-04 | TP06-MHQ | TCLP BNA | 100 | 6 | ritesh | Evelyn | 1 | A | | 7 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | TCLP BNA | 100 | 6 | ritesh | Evelyn | 1 | A | | 8 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | TCLP BNA | 100 | 6 | ritesh | Evelyn | 1 | A | | 9 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | TCLP BNA | 100 | 6 | ritesh | Evelyn | 1 | A | | 10 |
| Q2177-03 | B-187-SB01 | TCLP BNA | 100 | 6 | ritesh | Evelyn | 1 | A | | 11 |
| Q2177-03MS | B-187-SB01MS | TCLP BNA | 100 | 6 | ritesh | Evelyn | 1 | A | | 12 |
| Q2177-03MSD | B-187-SB01MSD | TCLP BNA | 100 | 6 | ritesh | Evelyn | 1 | A | | 13 |
| Q2177-05 | B-187-SB02 | TCLP BNA | 100 | 6 | ritesh | Evelyn | 1 | A | | 14 |
| Q2177-07 | B-202-SB01 | TCLP BNA | 100 | 6 | ritesh | Evelyn | 1 | A | | 15 |
| Q2185-04 | TP02-MHB-WC | TCLP BNA | 100 | 6 | ritesh | Evelyn | 1 | A | | 16 |
| Q2185-08 | TP01-MHB-WC | TCLP BNA | 100 | 6 | ritesh | Evelyn | 1 | A | | 17 |

RS 6/4

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

**TCLP EXTRACTION LOGPAGE**

PB168224

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| PB168224TB | LEB224 | 17 | N/A | 2000 | N/A | N/A | N/A | 4.93 | 1.5 | T-2 |
| Q2159-04 | TP05-MHO-WC | 01 | 100.02 | 2000 | N/A | N/A | N/A | 3.0 | 1.0 | T-1 |
| Q2160-04 | TP04-MHG-WC | 02 | 100.03 | 2000 | N/A | N/A | N/A | 3.0 | 1.5 | T-1 |
| Q2160-08 | TP05-MHH-WC | 03 | 100.02 | 2000 | N/A | N/A | N/A | 3.5 | 1.0 | T-1 |
| Q2168-02 | SAN-A1-A3 | 04 | 100.03 | 2000 | N/A | N/A | N/A | 4.5 | 1.5 | T-1 |
| Q2168-06 | SAN-B1-B3 | 05 | 100.02 | 2000 | N/A | N/A | N/A | 4.5 | 1.0 | T-1 |
| Q2168-10 | SAN-C1-C2 | 06 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.5 | T-1 |
| Q2172-04 | TP06-MHQ | 07 | 100.01 | 2000 | N/A | N/A | N/A | 3.0 | 1.5 | T-1 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | 08 | 100.02 | 2000 | N/A | N/A | N/A | 7.0 | 1.0 | T-1 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | 09 | 100.03 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-1 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | 10 | 100.04 | 2000 | N/A | N/A | N/A | 6.0 | 1.0 | T-1 |
| Q2177-03 | B-187-SB01 | 11 | 100.02 | 2000 | N/A | N/A | N/A | 6.0 | 1.5 | T-2 |
| Q2177-05 | B-187-SB02 | 12 | 100.03 | 2000 | N/A | N/A | N/A | 5.6 | 1.0 | T-2 |
| Q2177-07 | B-202-SB01 | 13 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-2 |
| Q2178-02 | RT2929 | 14 | 100.03 | 2000 | N/A | N/A | N/A | 10.0 | 1.5 | T-2 |
| Q2185-04 | TP02-MHB-WC | 15 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-2 |
| Q2185-08 | TP01-MHB-WC | 16 | 100.03 | 2000 | N/A | N/A | N/A | 6.0 | 1.0 | T-2 |

06/03/25
11:00

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

# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2177 | **OrderDate:** | 6/2/2025 11:19:00 AM |
| **Client:** | Portal Partners Tri-Venture | **Project:** | Amtrak Sawtooth Bridges 2025 |
| **Contact:** | Joseph Krupansky | **Location:** | L41,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2177-03** | **B-187-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP BNA | 8270E | | 06/04/25 | 06/06/25 | |
| **Q2177-05** | **B-187-SB02** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP BNA | 8270E | | 06/04/25 | 06/07/25 | |
| **Q2177-07** | **B-202-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP BNA | 8270E | | 06/04/25 | 06/07/25 | |

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

# Hit Summary Sheet
## SW-846

**SDG No.:** **Order ID:**

**Client:** **Project ID:**

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

**Client ID :**

**Total Concentration:**

# SAMPLE DATA

Raw Data: **PL095904.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/03/25 |
| Client Sample ID: | PB168224TB | SDG No.: | Q2177 |
| Lab Sample ID: | PB168224TB | Matrix: | TCLP |
| Analytical Method: | 8081B | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL095904.D | 1 | 06/03/25 11:34 | 06/03/25 18:38 | PB168264 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.037 | U | 0.037 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 0.027 | U | 0.027 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.096 | U | 0.096 | 0.50 | ug/L |
| 72-20-8 | Endrin | 0.032 | U | 0.032 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 0.11 | U | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 1.70 | U | 1.70 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 0.88 | U | 0.88 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 18.2 | | 30 (57) - 150 (171) | 91% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.3 | | 30 (61) - 150 (148) | 96% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PL095908.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-03 | Matrix: | TCLP |
| Analytical Method: | 8081B | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL095908.D | 1 | 06/03/25 11:34 | 06/03/25 19:32 | PB168264 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.037 | U | 0.037 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 0.027 | U | 0.027 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.096 | U | 0.096 | 0.50 | ug/L |
| 72-20-8 | Endrin | 0.032 | U | 0.032 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 0.11 | U | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 1.70 | U | 1.70 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 0.88 | U | 0.88 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 23.4 | | 30 (57) - 150 (171) | 117% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 22.6 | | 30 (61) - 150 (148) | 113% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PL095909.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-05 | Matrix: | TCLP |
| Analytical Method: | 8081B | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL095909.D | 1 | 06/03/25 11:34 | 06/03/25 19:46 | PB168264 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.037 | U | 0.037 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 0.027 | U | 0.027 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.096 | U | 0.096 | 0.50 | ug/L |
| 72-20-8 | Endrin | 0.032 | U | 0.032 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 0.11 | U | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 1.70 | U | 1.70 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 0.88 | U | 0.88 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.6 | | 30 (57) - 150 (171) | 98% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 18.8 | | 30 (61) - 150 (148) | 94% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PL095910.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-07 | Matrix: | TCLP |
| Analytical Method: | 8081B | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL095910.D | 1 | 06/03/25 11:34 | 06/03/25 19:59 | PB168264 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.037 | U | 0.037 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 0.027 | U | 0.027 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.096 | U | 0.096 | 0.50 | ug/L |
| 72-20-8 | Endrin | 0.032 | U | 0.032 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 0.11 | U | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 1.70 | U | 1.70 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 0.88 | U | 0.88 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.4 | | 30 (57) - 150 (171) | 97% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 18.6 | | 30 (61) - 150 (148) | 93% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

# QC SUMMARY

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

## Surrogate Summary

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PL095732.D | PIBLK-PL095732.D | Decachlorobiphenyl | 1 | 20 | 18.2 | 91 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 1 | 20 | 16.4 | 82 | | 30 (61) | 150 (148) |
| | | Decachlorobiphenyl | 2 | 20 | 17.5 | 88 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 2 | 20 | 16.0 | 80 | | 30 (61) | 150 (148) |
| I.BLK-PL095896.D | PIBLK-PL095896.D | Decachlorobiphenyl | 1 | 20 | 19.8 | 99 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 1 | 20 | 22.6 | 113 | | 30 (61) | 150 (148) |
| | | Decachlorobiphenyl | 2 | 20 | 17.9 | 90 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 2 | 20 | 23.0 | 115 | | 30 (61) | 150 (148) |
| Q2173-06MS | OR-400-CF-402B-COMP-23MS | Decachlorobiphenyl | 1 | 20 | 17.5 | 88 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 1 | 20 | 18.5 | 93 | | 30 (61) | 150 (148) |
| | | Decachlorobiphenyl | 2 | 20 | 16.3 | 82 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.9 | 94 | | 30 (61) | 150 (148) |
| Q2173-06MSD | OR-400-CF-402B-COMP-23MSD | Decachlorobiphenyl | 1 | 20 | 17.5 | 88 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 1 | 20 | 18.7 | 94 | | 30 (61) | 150 (148) |
| | | Decachlorobiphenyl | 2 | 20 | 17.1 | 86 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.0 | 95 | | 30 (61) | 150 (148) |
| PB168264BL | PB168264BL | Decachlorobiphenyl | 1 | 20 | 18.1 | 90 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.0 | 95 | | 30 (61) | 150 (148) |
| | | Decachlorobiphenyl | 2 | 20 | 17.9 | 89 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.2 | 96 | | 30 (61) | 150 (148) |
| PB168224TB | PB168224TB | Decachlorobiphenyl | 1 | 20 | 18.2 | 91 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.0 | 95 | | 30 (61) | 150 (148) |
| | | Decachlorobiphenyl | 2 | 20 | 17.7 | 89 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.3 | 96 | | 30 (61) | 150 (148) |
| I.BLK-PL095905.D | PIBLK-PL095905.D | Decachlorobiphenyl | 1 | 20 | 21.4 | 107 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 1 | 20 | 23.0 | 115 | | 30 (61) | 150 (148) |
| | | Decachlorobiphenyl | 2 | 20 | 21.4 | 107 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 2 | 20 | 22.9 | 115 | | 30 (61) | 150 (148) |
| Q2177-03 | B-187-SB01 | Decachlorobiphenyl | 1 | 20 | 22.4 | 112 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 1 | 20 | 22.1 | 110 | | 30 (61) | 150 (148) |
| | | Decachlorobiphenyl | 2 | 20 | 23.4 | 117 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 2 | 20 | 22.6 | 113 | | 30 (61) | 150 (148) |
| Q2177-05 | B-187-SB02 | Decachlorobiphenyl | 1 | 20 | 19.1 | 96 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 1 | 20 | 18.6 | 93 | | 30 (61) | 150 (148) |
| | | Decachlorobiphenyl | 2 | 20 | 19.6 | 98 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.8 | 94 | | 30 (61) | 150 (148) |
| Q2177-07 | B-202-SB01 | Decachlorobiphenyl | 1 | 20 | 18.7 | 93 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 1 | 20 | 18.6 | 93 | | 30 (61) | 150 (148) |
| | | Decachlorobiphenyl | 2 | 20 | 19.4 | 97 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.4 | 92 | | 30 (61) | 150 (148) |
| I.BLK-PL095911.D | PIBLK-PL095911.D | Decachlorobiphenyl | 1 | 20 | 21.9 | 110 | | 30 (57) | 150 (171) |

( ) = LABORATORY INHOUSE LIMIT

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

## Surrogate Summary

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PL095911.D | PIBLK-PL095911.D | Tetrachloro-m-xylene | 1 | 20 | 23.2 | 116 | | 30 (61) | 150 (148) |
| | | Decachlorobiphenyl | 2 | 20 | 22.9 | 114 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 2 | 20 | 23.2 | 116 | | 30 (61) | 150 (148) |
| I.BLK-PL095914.D | PIBLK-PL095914.D | Decachlorobiphenyl | 1 | 20 | 20.1 | 101 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 1 | 20 | 21.3 | 106 | | 30 (61) | 150 (148) |
| | | Decachlorobiphenyl | 2 | 20 | 20.1 | 101 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.3 | 101 | | 30 (61) | 150 (148) |
| PB168264BS | PB168264BS | Decachlorobiphenyl | 1 | 20 | 22.0 | 110 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 1 | 20 | 22.1 | 110 | | 30 (61) | 150 (148) |
| | | Decachlorobiphenyl | 2 | 20 | 22.1 | 110 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.4 | 107 | | 30 (61) | 150 (148) |
| I.BLK-PL095918.D | PIBLK-PL095918.D | Decachlorobiphenyl | 1 | 20 | 20.4 | 102 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.6 | 103 | | 30 (61) | 150 (148) |
| | | Decachlorobiphenyl | 2 | 20 | 20.1 | 100 | | 30 (57) | 150 (171) |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.6 | 98 | | 30 (61) | 150 (148) |

( ) = LABORATORY INHOUSE LIMIT

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2177 **Analytical Method:** 8081B

**Client:** Portal Partners Tri-Venture **DataFile :** PL095898.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **OR-400-CF-402B-COMP-23MS** | | | | | | | | | | | |
| Q2173-06MS (Column 1) | gamma-BHC (Lindane) | 5 | 0 | 5.00 | ug/L | 100 | | | | 30 (60) | 150 (152) | |
| | Heptachlor | 5 | 0 | 4.80 | ug/L | 96 | | | | 30 (56) | 150 (147) | |
| | Heptachlor epoxide | 5 | 0 | 4.80 | ug/L | 96 | | | | 30 (77) | 150 (143) | |
| | Endrin | 5 | 0 | 4.50 | ug/L | 90 | | | | 30 (76) | 150 (144) | |
| | Methoxychlor | 5 | 0 | 4.50 | ug/L | 90 | | | | 30 (70) | 150 (142) | |
| **Client Sample ID:** | **OR-400-CF-402B-COMP-23MS** | | | | | | | | | | | |
| Q2173-06MS (Column 2) | gamma-BHC (Lindane) | 5 | 0 | 5.10 | ug/L | 102 | | | | 30 (60) | 150 (152) | |
| | Heptachlor | 5 | 0 | 4.90 | ug/L | 98 | | | | 30 (56) | 150 (147) | |
| | Heptachlor epoxide | 5 | 0 | 5.00 | ug/L | 100 | | | | 30 (77) | 150 (143) | |
| | Endrin | 5 | 0 | 4.50 | ug/L | 90 | | | | 30 (76) | 150 (144) | |
| | Methoxychlor | 5 | 0 | 4.20 | ug/L | 84 | | | | 30 (70) | 150 (142) | |

( ) = 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.:** Q2177 **Analytical Method:** 8081B

**Client:** Portal Partners Tri-Venture **DataFile :** PL095899.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **OR-400-CF-402B-COMP-23MSD** | | | | | | | | | | | |
| Q2173-06MSD (Column 1) | gamma-BHC (Lindane) | 5 | 0 | 5.10 | ug/L | 102 | | 2 | | 30 (60) | 150 (152) | 20 (20) |
| | Heptachlor | 5 | 0 | 4.80 | ug/L | 96 | | 0 | | 30 (56) | 150 (147) | 20 (20) |
| | Heptachlor epoxide | 5 | 0 | 4.80 | ug/L | 96 | | 0 | | 30 (77) | 150 (143) | 20 (20) |
| | Endrin | 5 | 0 | 4.60 | ug/L | 92 | | 2 | | 30 (76) | 150 (144) | 20 (20) |
| | Methoxychlor | 5 | 0 | 4.60 | ug/L | 92 | | 2 | | 30 (70) | 150 (142) | 20 (20) |
| **Client Sample ID:** | **OR-400-CF-402B-COMP-23MSD** | | | | | | | | | | | |
| Q2173-06MSD (Column 2) | gamma-BHC (Lindane) | 5 | 0 | 5.20 | ug/L | 104 | | 2 | | 30 (60) | 150 (152) | 20 (20) |
| | Heptachlor | 5 | 0 | 4.90 | ug/L | 98 | | 0 | | 30 (56) | 150 (147) | 20 (20) |
| | Heptachlor epoxide | 5 | 0 | 5.10 | ug/L | 102 | | 2 | | 30 (77) | 150 (143) | 20 (20) |
| | Endrin | 5 | 0 | 4.50 | ug/L | 90 | | 0 | | 30 (76) | 150 (144) | 20 (20) |
| | Methoxychlor | 5 | 0 | 4.20 | ug/L | 84 | | 0 | | 30 (70) | 150 (142) | 20 (20) |

( ) = LABORATORY INHOUSE LIMIT

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

# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177 **Analytical Method:** 8081B

**Client:** Portal Partners Tri-Venture **Datafile :** PL095917.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168264BS (Column 1) | gamma-BHC (Lindane) | 0.5 | 0.56 | ug/L | 112 | | | | 40 (82) | 140 (129) | |
| | Heptachlor | 0.5 | 0.54 | ug/L | 109 | | | | 40 (79) | 140 (127) | |
| | Heptachlor epoxide | 0.5 | 0.55 | ug/L | 111 | | | | 40 (81) | 140 (124) | |
| | Endrin | 0.5 | 0.49 | ug/L | 98 | | | | 40 (81) | 140 (128) | |
| | Methoxychlor | 0.5 | 0.49 | ug/L | 99 | | | | 40 (78) | 140 (108) | |
| PB168264BS (Column 2) | gamma-BHC (Lindane) | 0.5 | 0.55 | ug/L | 110 | | | | 40 (82) | 140 (129) | |
| | Heptachlor | 0.5 | 0.54 | ug/L | 107 | | | | 40 (79) | 140 (127) | |
| | Heptachlor epoxide | 0.5 | 0.55 | ug/L | 110 | | | | 40 (81) | 140 (124) | |
| | Endrin | 0.5 | 0.49 | ug/L | 98 | | | | 40 (81) | 140 (128) | |
| | Methoxychlor | 0.5 | 0.45 | ug/L | 90 | | | | 40 (78) | 140 (108) | |

( ) = LABORATORY INHOUSE LIMIT

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

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168264BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab Sample ID: PB168264BL Lab File ID: PL095902.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 06/03/2025

Date Analyzed (1): 06/03/2025 Date Analyzed (2): 06/03/2025

Time Analyzed (1): 18:10 Time Analyzed (2): 18:10

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| OR-400-CF-402B-COMP-23MS | Q2173-06MS | PL095898.D | 06/03/2025 | 06/03/2025 |
| OR-400-CF-402B-COMP-23MSD | Q2173-06MSD | PL095899.D | 06/03/2025 | 06/03/2025 |
| PB168224TB | PB168224TB | PL095904.D | 06/03/2025 | 06/03/2025 |
| B-187-SB01 | Q2177-03 | PL095908.D | 06/03/2025 | 06/03/2025 |
| B-187-SB02 | Q2177-05 | PL095909.D | 06/03/2025 | 06/03/2025 |
| B-202-SB01 | Q2177-07 | PL095910.D | 06/03/2025 | 06/03/2025 |
| PB168264BS | PB168264BS | PL095917.D | 06/04/2025 | 06/04/2025 |

COMMENTS:

# QC SAMPLE DATA

Raw Data: **PL095902.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168264BL | SDG No.: | Q2177 |
| Lab Sample ID: | PB168264BL | Matrix: | TCLP |
| Analytical Method: | 8081B | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL095902.D | 1 | 06/03/25 11:34 | 06/03/25 18:10 | PB168264 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.0037 | U | 0.0037 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0027 | U | 0.0027 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0096 | U | 0.0096 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0032 | U | 0.0032 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.088 | U | 0.088 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 18.1 | | 30 (57) - 150 (171) | 90% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.2 | | 30 (61) - 150 (148) | 96% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/21/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 05/21/25 |
| Client Sample ID: | PIBLK-PL095732.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PL095732.D | Matrix: | TCLP |
| Analytical Method: | 8081B | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL095732.D | 1 | | 05/21/25 | PL052125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.0037 | U | 0.0037 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0027 | U | 0.0027 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0096 | U | 0.0096 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0032 | U | 0.0032 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.088 | U | 0.088 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 18.2 | | 30 (57) - 150 (171) | 91% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 16.4 | | 30 (61) - 150 (148) | 82% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/03/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/03/25 |
| Client Sample ID: | PIBLK-PL095896.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PL095896.D | Matrix: | TCLP |
| Analytical Method: | 8081B | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL095896.D | 1 | | 06/03/25 | pl060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.0037 | U | 0.0037 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0027 | U | 0.0027 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0096 | U | 0.0096 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0032 | U | 0.0032 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.088 | U | 0.088 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.8 | | 30 (57) - 150 (171) | 99% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 23.0 | | 30 (61) - 150 (148) | 115% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/03/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/03/25 |
| Client Sample ID: | PIBLK-PL095905.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PL095905.D | Matrix: | TCLP |
| Analytical Method: | 8081B | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL095905.D | 1 | | 06/03/25 | pl060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.0037 | U | 0.0037 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0027 | U | 0.0027 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0096 | U | 0.0096 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0032 | U | 0.0032 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.088 | U | 0.088 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 21.4 | | 30 (57) - 150 (171) | 107% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 23.0 | | 30 (61) - 150 (148) | 115% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/03/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/03/25 |
| Client Sample ID: | PIBLK-PL095911.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PL095911.D | Matrix: | TCLP |
| Analytical Method: | 8081B | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL095911.D | 1 | | 06/03/25 | pl060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.0037 | U | 0.0037 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0027 | U | 0.0027 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0096 | U | 0.0096 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0032 | U | 0.0032 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.088 | U | 0.088 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 22.9 | | 30 (57) - 150 (171) | 114% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 23.2 | | 30 (61) - 150 (148) | 116% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/04/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/04/25 |
| Client Sample ID: | PIBLK-PL095914.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PL095914.D | Matrix: | TCLP |
| Analytical Method: | 8081B | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL095914.D | 1 | | 06/04/25 | pl060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.0037 | U | 0.0037 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0027 | U | 0.0027 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0096 | U | 0.0096 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0032 | U | 0.0032 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.088 | U | 0.088 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 20.1 | | 30 (57) - 150 (171) | 101% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.3 | | 30 (61) - 150 (148) | 106% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/04/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/04/25 |
| Client Sample ID: | PIBLK-PL095918.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PL095918.D | Matrix: | TCLP |
| Analytical Method: | 8081B | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL095918.D | 1 | | 06/04/25 | pl060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.0037 | U | 0.0037 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0027 | U | 0.0027 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0096 | U | 0.0096 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0032 | U | 0.0032 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.088 | U | 0.088 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 20.4 | | 30 (57) - 150 (171) | 102% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.6 | | 30 (61) - 150 (148) | 103% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PL095917.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168264BS | SDG No.: | Q2177 |
| Lab Sample ID: | PB168264BS | Matrix: | TCLP |
| Analytical Method: | 8081B | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL095917.D | 1 | 06/03/25 11:34 | 06/04/25 12:07 | PB168264 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.56 | | 0.0037 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.54 | | 0.0027 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.55 | | 0.0096 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.49 | | 0.0032 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.49 | | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.088 | U | 0.088 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 22.1 | | 30 (57) - 150 (171) | 110% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 22.1 | | 30 (61) - 150 (148) | 110% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PL095898.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/30/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 05/30/25 |
| Client Sample ID: | OR-400-CF-402B-COMP-23MS | SDG No.: | Q2177 |
| Lab Sample ID: | Q2173-06MS | Matrix: | TCLP |
| Analytical Method: | 8081B | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL095898.D | 1 | 06/03/25 11:34 | 06/03/25 17:15 | PB168264 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 5.10 | | 0.037 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 4.90 | | 0.027 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 5.00 | | 0.096 | 0.50 | ug/L |
| 72-20-8 | Endrin | 4.50 | | 0.032 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 4.50 | | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 1.70 | U | 1.70 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 0.88 | U | 0.88 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 17.5 | | 30 (57) - 150 (171) | 88% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 18.9 | | 30 (61) - 150 (148) | 94% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/30/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 05/30/25 |
| Client Sample ID: | OR-400-CF-402B-COMP-23MSD | SDG No.: | Q2177 |
| Lab Sample ID: | Q2173-06MSD | Matrix: | TCLP |
| Analytical Method: | 8081B | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL095899.D | 1 | 06/03/25 11:34 | 06/03/25 17:29 | PB168264 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 5.20 | | 0.037 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 4.90 | | 0.027 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 5.10 | | 0.096 | 0.50 | ug/L |
| 72-20-8 | Endrin | 4.60 | | 0.032 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 4.60 | | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 1.70 | U | 1.70 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 0.88 | U | 0.88 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 17.5 | | 30 (57) - 150 (171) | 88% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.0 | | 30 (61) - 150 (148) | 95% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

# CALIBRATION SUMMARY

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_L **Calibration Date(s):** 05/21/2025 05/21/2025

**Calibration Times:** 11:35 12:29

GC Column: ZB-MR1 ID: 0.32 (mm)

**LAB FILE ID:** RT 100 = PL095735.D RT 075 = PL095736.D

RT 050 = PL095737.D RT 025 = PL095738.D RT 005 = PL095739.D

| COMPOUND | RT 100 | RT 075 | RT 050 | RT 025 | RT 005 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.11 | 9.10 | 9.10 | 9.10 | 9.10 | 9.10 | 9.00 | 9.20 |
| Endrin | 6.61 | 6.60 | 6.60 | 6.60 | 6.60 | 6.60 | 6.50 | 6.70 |
| gamma-BHC (Lindane) | 4.36 | 4.36 | 4.36 | 4.36 | 4.36 | 4.36 | 4.26 | 4.46 |
| Heptachlor | 4.96 | 4.95 | 4.96 | 4.95 | 4.95 | 4.96 | 4.86 | 5.06 |
| Heptachlor epoxide | 5.72 | 5.72 | 5.72 | 5.72 | 5.72 | 5.72 | 5.62 | 5.82 |
| Methoxychlor | 7.53 | 7.52 | 7.52 | 7.52 | 7.52 | 7.52 | 7.42 | 7.62 |
| Tetrachloro-m-xylene | 3.58 | 3.57 | 3.57 | 3.57 | 3.57 | 3.57 | 3.47 | 3.67 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_L **Calibration Date(s):** 05/21/2025 05/21/2025

**Calibration Times:** 11:35 12:29

GC Column: ZB-MR2 ID: 0.32 (mm)

**LAB FILE ID:** **RT 100 =** PL095735.D **RT 075 =** PL095736.D

**RT 050 =** PL095737.D **RT 025 =** PL095738.D **RT 005 =** PL095739.D

| COMPOUND | RT 100 | RT 075 | RT 050 | RT 025 | RT 005 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 7.96 | 8.16 |
| Endrin | 5.78 | 5.78 | 5.78 | 5.78 | 5.78 | 5.78 | 5.68 | 5.88 |
| gamma-BHC (Lindane) | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.63 | 3.83 |
| Heptachlor | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 3.98 | 4.18 |
| Heptachlor epoxide | 4.87 | 4.87 | 4.87 | 4.87 | 4.87 | 4.87 | 4.77 | 4.97 |
| Methoxychlor | 6.75 | 6.75 | 6.75 | 6.75 | 6.75 | 6.75 | 6.65 | 6.85 |
| Tetrachloro-m-xylene | 2.88 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.79 | 2.99 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_L **Calibration Date(s):** 05/21/2025 05/21/2025

**Calibration Times:** 11:35 12:29

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 100 =** PL095735.D **CF 075 =** PL095736.D

**CF 050 =** PL095737.D **CF 025 =** PL095738.D **CF 005 =** PL095739.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 2296450000 | 2273040000 | 2304350000 | 2354860000 | 2552990000 | 2356340000 | 5 |
| Endrin | 3186950000 | 3188700000 | 3185310000 | 3116310000 | 3456510000 | 3226750000 | 4 |
| gamma-BHC (Lindane) | 4588190000 | 4447360000 | 4400770000 | 4245410000 | 4677520000 | 4471850000 | 4 |
| Heptachlor | 3804040000 | 3718580000 | 3721520000 | 3622900000 | 4058170000 | 3785040000 | 4 |
| Heptachlor epoxide | 3727710000 | 3692000000 | 3731080000 | 3682110000 | 4251420000 | 3816860000 | 6 |
| Methoxychlor | 1252650000 | 1237700000 | 1261470000 | 1251380000 | 1373430000 | 1275330000 | 4 |
| Tetrachloro-m-xylene | 3099670000 | 3048860000 | 3065820000 | 3062420000 | 3499570000 | 3155270000 | 6 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_L **Calibration Date(s):** 05/21/2025 05/21/2025

**Calibration Times:** 11:35 12:29

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 100 =** PL095735.D **CF 075 =** PL095736.D

**CF 050 =** PL095737.D **CF 025 =** PL095738.D **CF 005 =** PL095739.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 4307130000 | 4293010000 | 4424120000 | 4407270000 | 4440750000 | 4374460000 | 2 |
| Endrin | 4781360000 | 4775420000 | 4841120000 | 4733510000 | 5249090000 | 4876100000 | 4 |
| gamma-BHC (Lindane) | 5738840000 | 5640150000 | 5652210000 | 5354130000 | 5620800000 | 5601220000 | 3 |
| Heptachlor | 5660130000 | 5568750000 | 5611780000 | 5421260000 | 5783370000 | 5609060000 | 2 |
| Heptachlor epoxide | 4854250000 | 4848530000 | 4943810000 | 4810760000 | 5229780000 | 4937430000 | 3 |
| Methoxychlor | 2503630000 | 2513740000 | 2592490000 | 2627630000 | 2843040000 | 2616110000 | 5 |
| Tetrachloro-m-xylene | 3908270000 | 3796990000 | 3846980000 | 3798040000 | 4219390000 | 3913940000 | 5 |

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# INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_L **Date(s) Analyzed:** 05/21/2025 05/21/2025

**GC Column:** ZB-MR1 **ID:** 0.32 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Chlordane | 500 | 1 | 4.74 | 4.64 | 4.84 | 175163000 |
| | | 2 | 5.27 | 5.17 | 5.37 | 186705000 |
| | | 3 | 5.97 | 5.87 | 6.07 | 729383000 |
| | | 4 | 6.06 | 5.96 | 6.16 | 887825000 |
| | | 5 | 6.90 | 6.80 | 7.00 | 133478000 |
| Toxaphene | 500 | 1 | 5.88 | 5.78 | 5.98 | 11156600 |
| | | 2 | 6.27 | 6.17 | 6.37 | 26557800 |
| | | 3 | 7.09 | 6.99 | 7.19 | 93865100 |
| | | 4 | 7.18 | 7.08 | 7.28 | 65544600 |
| | | 5 | 7.96 | 7.86 | 8.06 | 45659000 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_L **Date(s) Analyzed:** 05/21/2025 05/21/2025

**GC Column:** ZB-MR2 **ID:** 0.32 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Chlordane | 500 | 1 | 3.91 | 3.81 | 4.01 | 190212000 |
| | | 2 | 4.49 | 4.39 | 4.59 | 216767000 |
| | | 3 | 5.12 | 5.02 | 5.22 | 652504000 |
| | | 4 | 5.19 | 5.09 | 5.29 | 564939000 |
| | | 5 | 6.08 | 5.98 | 6.18 | 249456000 |
| Toxaphene | 500 | 1 | 5.15 | 5.05 | 5.25 | 30765000 |
| | | 2 | 5.83 | 5.73 | 5.93 | 34678400 |
| | | 3 | 6.11 | 6.01 | 6.21 | 36071200 |
| | | 4 | 6.75 | 6.65 | 6.85 | 117492000 |
| | | 5 | 7.19 | 7.09 | 7.29 | 80236600 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/03/2025 **Initial Calibration Date(s):** 05/21/2025 05/21/2025

**Continuing Calib Time:** 17:01 **Initial Calibration Time(s):** 11:35 12:29

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.10 | 9.10 | 9.00 | 9.20 | 0.00 |
| Tetrachloro-m-xylene | 3.57 | 3.57 | 3.47 | 3.67 | 0.00 |
| gamma-BHC (Lindane) | 4.36 | 4.36 | 4.26 | 4.46 | 0.00 |
| Heptachlor | 4.95 | 4.96 | 4.86 | 5.06 | 0.01 |
| Heptachlor epoxide | 5.72 | 5.72 | 5.62 | 5.82 | 0.00 |
| Endrin | 6.60 | 6.60 | 6.50 | 6.70 | 0.00 |
| Methoxychlor | 7.52 | 7.52 | 7.42 | 7.62 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/03/2025 **Initial Calibration Date(s):** 05/21/2025 05/21/2025

**Continuing Calib Time:** 17:01 **Initial Calibration Time(s):** 11:35 12:29

**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 | 2.89 | 2.89 | 2.79 | 2.99 | 0.00 |
| gamma-BHC (Lindane) | 3.73 | 3.73 | 3.63 | 3.83 | 0.00 |
| Heptachlor | 4.08 | 4.08 | 3.98 | 4.18 | 0.00 |
| Heptachlor epoxide | 4.87 | 4.87 | 4.77 | 4.97 | 0.00 |
| Endrin | 5.78 | 5.78 | 5.68 | 5.88 | 0.00 |
| Methoxychlor | 6.75 | 6.75 | 6.65 | 6.85 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 06/03/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL095897.D **Time Analyzed:** 17:01

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.098 | 9.003 | 9.203 | 43.980 | 50.000 | -12.0 |
| Endrin | 6.601 | 6.502 | 6.702 | 44.600 | 50.000 | -10.8 |
| gamma-BHC (Lindane) | 4.356 | 4.257 | 4.457 | 49.830 | 50.000 | -0.3 |
| Heptachlor | 4.953 | 4.855 | 5.055 | 48.950 | 50.000 | -2.1 |
| Heptachlor epoxide | 5.717 | 5.618 | 5.818 | 48.650 | 50.000 | -2.7 |
| Methoxychlor | 7.520 | 7.423 | 7.623 | 44.540 | 50.000 | -10.9 |
| Tetrachloro-m-xylene | 3.572 | 3.473 | 3.673 | 50.900 | 50.000 | 1.8 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 06/03/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL095897.D **Time Analyzed:** 17:01

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.059 | 7.964 | 8.164 | 42.370 | 50.000 | -15.3 |
| Endrin | 5.779 | 5.683 | 5.883 | 45.120 | 50.000 | -9.8 |
| gamma-BHC (Lindane) | 3.729 | 3.630 | 3.830 | 52.270 | 50.000 | 4.5 |
| Heptachlor | 4.081 | 3.983 | 4.183 | 51.390 | 50.000 | 2.8 |
| Heptachlor epoxide | 4.868 | 4.771 | 4.971 | 49.980 | 50.000 | 0.0 |
| Methoxychlor | 6.747 | 6.651 | 6.851 | 40.990 | 50.000 | -18.0 |
| Tetrachloro-m-xylene | 2.886 | 2.786 | 2.986 | 51.450 | 50.000 | 2.9 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/03/2025 **Initial Calibration Date(s):** 05/21/2025 05/21/2025

**Continuing Calib Time:** 19:18 **Initial Calibration Time(s):** 11:35 12:29

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.10 | 9.10 | 9.00 | 9.20 | 0.00 |
| Tetrachloro-m-xylene | 3.57 | 3.57 | 3.47 | 3.67 | 0.00 |
| gamma-BHC (Lindane) | 4.36 | 4.36 | 4.26 | 4.46 | 0.00 |
| Heptachlor | 4.95 | 4.96 | 4.86 | 5.06 | 0.01 |
| Heptachlor epoxide | 5.72 | 5.72 | 5.62 | 5.82 | 0.00 |
| Endrin | 6.60 | 6.60 | 6.50 | 6.70 | 0.00 |
| Methoxychlor | 7.52 | 7.52 | 7.42 | 7.62 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/03/2025 **Initial Calibration Date(s):** 05/21/2025 05/21/2025

**Continuing Calib Time:** 19:18 **Initial Calibration Time(s):** 11:35 12:29

**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 | 2.89 | 2.89 | 2.79 | 2.99 | 0.01 |
| gamma-BHC (Lindane) | 3.73 | 3.73 | 3.63 | 3.83 | 0.00 |
| Heptachlor | 4.08 | 4.08 | 3.98 | 4.18 | 0.00 |
| Heptachlor epoxide | 4.87 | 4.87 | 4.77 | 4.97 | 0.00 |
| Endrin | 5.78 | 5.78 | 5.68 | 5.88 | 0.00 |
| Methoxychlor | 6.75 | 6.75 | 6.65 | 6.85 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 06/03/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL095907.D **Time Analyzed:** 19:18

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.097 | 9.003 | 9.203 | 49.020 | 50.000 | -2.0 |
| Endrin | 6.599 | 6.502 | 6.702 | 48.510 | 50.000 | -3.0 |
| gamma-BHC (Lindane) | 4.355 | 4.257 | 4.457 | 55.210 | 50.000 | 10.4 |
| Heptachlor | 4.953 | 4.855 | 5.055 | 53.750 | 50.000 | 7.5 |
| Heptachlor epoxide | 5.716 | 5.618 | 5.818 | 54.140 | 50.000 | 8.3 |
| Methoxychlor | 7.519 | 7.423 | 7.623 | 48.380 | 50.000 | -3.2 |
| Tetrachloro-m-xylene | 3.572 | 3.473 | 3.673 | 54.960 | 50.000 | 9.9 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 06/03/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL095907.D **Time Analyzed:** 19:18

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.059 | 7.964 | 8.164 | 51.620 | 50.000 | 3.2 |
| Endrin | 5.778 | 5.683 | 5.883 | 51.740 | 50.000 | 3.5 |
| gamma-BHC (Lindane) | 3.729 | 3.630 | 3.830 | 58.190 | 50.000 | 16.4 |
| Heptachlor | 4.081 | 3.983 | 4.183 | 56.080 | 50.000 | 12.2 |
| Heptachlor epoxide | 4.867 | 4.771 | 4.971 | 57.480 | 50.000 | 15.0 |
| Methoxychlor | 6.746 | 6.651 | 6.851 | 47.170 | 50.000 | -5.7 |
| Tetrachloro-m-xylene | 2.885 | 2.786 | 2.986 | 57.170 | 50.000 | 14.3 |

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# CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/03/2025 **Initial Calibration Date(s):** 05/21/2025 05/21/2025

**Continuing Calib Time:** 20:27 **Initial Calibration Time(s):** 11:35 12:29

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.10 | 9.10 | 9.00 | 9.20 | 0.00 |
| Tetrachloro-m-xylene | 3.57 | 3.57 | 3.47 | 3.67 | 0.00 |
| gamma-BHC (Lindane) | 4.36 | 4.36 | 4.26 | 4.46 | 0.00 |
| Heptachlor | 4.95 | 4.96 | 4.86 | 5.06 | 0.01 |
| Heptachlor epoxide | 5.72 | 5.72 | 5.62 | 5.82 | 0.00 |
| Endrin | 6.60 | 6.60 | 6.50 | 6.70 | 0.00 |
| Methoxychlor | 7.52 | 7.52 | 7.42 | 7.62 | 0.00 |

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# CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/03/2025 **Initial Calibration Date(s):** 05/21/2025 05/21/2025

**Continuing Calib Time:** 20:27 **Initial Calibration Time(s):** 11:35 12:29

**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 | 2.89 | 2.89 | 2.79 | 2.99 | 0.01 |
| gamma-BHC (Lindane) | 3.73 | 3.73 | 3.63 | 3.83 | 0.00 |
| Heptachlor | 4.08 | 4.08 | 3.98 | 4.18 | 0.00 |
| Heptachlor epoxide | 4.87 | 4.87 | 4.77 | 4.97 | 0.00 |
| Endrin | 5.78 | 5.78 | 5.68 | 5.88 | 0.00 |
| Methoxychlor | 6.75 | 6.75 | 6.65 | 6.85 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 06/03/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL095912.D **Time Analyzed:** 20:27

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.098 | 9.003 | 9.203 | 49.580 | 50.000 | -0.8 |
| Endrin | 6.599 | 6.502 | 6.702 | 49.670 | 50.000 | -0.7 |
| gamma-BHC (Lindane) | 4.355 | 4.257 | 4.457 | 55.690 | 50.000 | 11.4 |
| Heptachlor | 4.953 | 4.855 | 5.055 | 54.510 | 50.000 | 9.0 |
| Heptachlor epoxide | 5.715 | 5.618 | 5.818 | 53.980 | 50.000 | 8.0 |
| Methoxychlor | 7.519 | 7.423 | 7.623 | 49.420 | 50.000 | -1.2 |
| Tetrachloro-m-xylene | 3.572 | 3.473 | 3.673 | 55.240 | 50.000 | 10.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 06/03/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL095912.D **Time Analyzed:** 20:27

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.059 | 7.964 | 8.164 | 53.360 | 50.000 | 6.7 |
| Endrin | 5.778 | 5.683 | 5.883 | 51.550 | 50.000 | 3.1 |
| gamma-BHC (Lindane) | 3.728 | 3.630 | 3.830 | 58.370 | 50.000 | 16.7 |
| Heptachlor | 4.081 | 3.983 | 4.183 | 56.590 | 50.000 | 13.2 |
| Heptachlor epoxide | 4.867 | 4.771 | 4.971 | 57.880 | 50.000 | 15.8 |
| Methoxychlor | 6.746 | 6.651 | 6.851 | 48.250 | 50.000 | -3.5 |
| Tetrachloro-m-xylene | 2.885 | 2.786 | 2.986 | 57.160 | 50.000 | 14.3 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/04/2025 **Initial Calibration Date(s):** 05/21/2025 05/21/2025

**Continuing Calib Time:** 11:26 **Initial Calibration Time(s):** 11:35 12:29

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.10 | 9.10 | 9.00 | 9.20 | 0.00 |
| Tetrachloro-m-xylene | 3.57 | 3.57 | 3.47 | 3.67 | 0.00 |
| gamma-BHC (Lindane) | 4.36 | 4.36 | 4.26 | 4.46 | 0.00 |
| Heptachlor | 4.95 | 4.96 | 4.86 | 5.06 | 0.01 |
| Heptachlor epoxide | 5.72 | 5.72 | 5.62 | 5.82 | 0.00 |
| Endrin | 6.60 | 6.60 | 6.50 | 6.70 | 0.00 |
| Methoxychlor | 7.52 | 7.52 | 7.42 | 7.62 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/04/2025 **Initial Calibration Date(s):** 05/21/2025 05/21/2025

**Continuing Calib Time:** 11:26 **Initial Calibration Time(s):** 11:35 12:29

**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 | 2.89 | 2.89 | 2.79 | 2.99 | 0.00 |
| gamma-BHC (Lindane) | 3.73 | 3.73 | 3.63 | 3.83 | 0.00 |
| Heptachlor | 4.08 | 4.08 | 3.98 | 4.18 | 0.00 |
| Heptachlor epoxide | 4.87 | 4.87 | 4.77 | 4.97 | 0.00 |
| Endrin | 5.78 | 5.78 | 5.68 | 5.88 | 0.00 |
| Methoxychlor | 6.75 | 6.75 | 6.65 | 6.85 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No.:** CCAL04 **Date Analyzed:** 06/04/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL095916.D **Time Analyzed:** 11:26

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.098 | 9.003 | 9.203 | 50.250 | 50.000 | 0.5 |
| Endrin | 6.600 | 6.502 | 6.702 | 48.710 | 50.000 | -2.6 |
| gamma-BHC (Lindane) | 4.355 | 4.257 | 4.457 | 56.730 | 50.000 | 13.5 |
| Heptachlor | 4.953 | 4.855 | 5.055 | 55.030 | 50.000 | 10.1 |
| Heptachlor epoxide | 5.716 | 5.618 | 5.818 | 55.620 | 50.000 | 11.2 |
| Methoxychlor | 7.520 | 7.423 | 7.623 | 49.270 | 50.000 | -1.5 |
| Tetrachloro-m-xylene | 3.572 | 3.473 | 3.673 | 56.700 | 50.000 | 13.4 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No.:** CCAL04 **Date Analyzed:** 06/04/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL095916.D **Time Analyzed:** 11:26

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.060 | 7.964 | 8.164 | 52.030 | 50.000 | 4.1 |
| Endrin | 5.780 | 5.683 | 5.883 | 48.760 | 50.000 | -2.5 |
| gamma-BHC (Lindane) | 3.728 | 3.630 | 3.830 | 57.100 | 50.000 | 14.2 |
| Heptachlor | 4.081 | 3.983 | 4.183 | 55.210 | 50.000 | 10.4 |
| Heptachlor epoxide | 4.868 | 4.771 | 4.971 | 55.730 | 50.000 | 11.5 |
| Methoxychlor | 6.747 | 6.651 | 6.851 | 46.180 | 50.000 | -7.6 |
| Tetrachloro-m-xylene | 2.886 | 2.786 | 2.986 | 56.010 | 50.000 | 12.0 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/04/2025 **Initial Calibration Date(s):** 05/21/2025 05/21/2025

**Continuing Calib Time:** 13:22 **Initial Calibration Time(s):** 11:35 12:29

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.10 | 9.10 | 9.00 | 9.20 | 0.00 |
| Tetrachloro-m-xylene | 3.57 | 3.57 | 3.47 | 3.67 | 0.00 |
| gamma-BHC (Lindane) | 4.36 | 4.36 | 4.26 | 4.46 | 0.00 |
| Heptachlor | 4.95 | 4.96 | 4.86 | 5.06 | 0.01 |
| Heptachlor epoxide | 5.72 | 5.72 | 5.62 | 5.82 | 0.00 |
| Endrin | 6.60 | 6.60 | 6.50 | 6.70 | 0.00 |
| Methoxychlor | 7.52 | 7.52 | 7.42 | 7.62 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/04/2025 **Initial Calibration Date(s):** 05/21/2025 05/21/2025

**Continuing Calib Time:** 13:22 **Initial Calibration Time(s):** 11:35 12:29

**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 | 2.88 | 2.89 | 2.79 | 2.99 | 0.01 |
| gamma-BHC (Lindane) | 3.73 | 3.73 | 3.63 | 3.83 | 0.00 |
| Heptachlor | 4.08 | 4.08 | 3.98 | 4.18 | 0.00 |
| Heptachlor epoxide | 4.87 | 4.87 | 4.77 | 4.97 | 0.00 |
| Endrin | 5.78 | 5.78 | 5.68 | 5.88 | 0.00 |
| Methoxychlor | 6.75 | 6.75 | 6.65 | 6.85 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No.:** CCAL05 **Date Analyzed:** 06/04/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL095919.D **Time Analyzed:** 13:22

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.099 | 9.003 | 9.203 | 50.390 | 50.000 | 0.8 |
| Endrin | 6.600 | 6.502 | 6.702 | 48.640 | 50.000 | -2.7 |
| gamma-BHC (Lindane) | 4.355 | 4.257 | 4.457 | 56.510 | 50.000 | 13.0 |
| Heptachlor | 4.952 | 4.855 | 5.055 | 55.130 | 50.000 | 10.3 |
| Heptachlor epoxide | 5.716 | 5.618 | 5.818 | 55.620 | 50.000 | 11.2 |
| Methoxychlor | 7.520 | 7.423 | 7.623 | 49.710 | 50.000 | -0.6 |
| Tetrachloro-m-xylene | 3.571 | 3.473 | 3.673 | 56.360 | 50.000 | 12.7 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No.:** CCAL05 **Date Analyzed:** 06/04/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PL095919.D **Time Analyzed:** 13:22

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.058 | 7.964 | 8.164 | 52.910 | 50.000 | 5.8 |
| Endrin | 5.778 | 5.683 | 5.883 | 49.690 | 50.000 | -0.6 |
| gamma-BHC (Lindane) | 3.727 | 3.630 | 3.830 | 57.470 | 50.000 | 14.9 |
| Heptachlor | 4.079 | 3.983 | 4.183 | 55.520 | 50.000 | 11.0 |
| Heptachlor epoxide | 4.866 | 4.771 | 4.971 | 56.660 | 50.000 | 13.3 |
| Methoxychlor | 6.746 | 6.651 | 6.851 | 47.180 | 50.000 | -5.6 |
| Tetrachloro-m-xylene | 2.884 | 2.786 | 2.986 | 56.310 | 50.000 | 12.6 |

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# PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No. (PEM):** PEM - PL095733.D **Date Analyzed:** 05/21/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 11:01

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.103 | 9.000 | 9.200 | 21.750 | 20.000 | 8.8 |
| Tetrachloro-m-xylene | 3.573 | 3.520 | 3.620 | 20.300 | 20.000 | 1.5 |
| alpha-BHC | 4.025 | 3.970 | 4.080 | 9.870 | 10.000 | -1.3 |
| beta-BHC | 4.544 | 4.490 | 4.590 | 10.330 | 10.000 | 3.3 |
| gamma-BHC (Lindane) | 4.356 | 4.310 | 4.410 | 10.120 | 10.000 | 1.2 |
| Endrin | 6.602 | 6.530 | 6.670 | 51.510 | 50.000 | 3.0 |
| 4,4'-DDT | 7.049 | 6.980 | 7.120 | 98.360 | 100.000 | -1.6 |
| Methoxychlor | 7.523 | 7.450 | 7.590 | 249.140 | 250.000 | -0.3 |

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No. (PEM):** PEM - PL095733.D **Date Analyzed:** 05/21/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 11:01

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.063 | 7.960 | 8.160 | 20.860 | 20.000 | 4.3 |
| Tetrachloro-m-xylene | 2.886 | 2.840 | 2.940 | 19.970 | 20.000 | -0.2 |
| alpha-BHC | 3.396 | 3.350 | 3.450 | 9.630 | 10.000 | -3.7 |
| beta-BHC | 4.024 | 3.970 | 4.070 | 10.010 | 10.000 | 0.1 |
| gamma-BHC (Lindane) | 3.730 | 3.680 | 3.780 | 9.770 | 10.000 | -2.3 |
| Endrin | 5.782 | 5.710 | 5.850 | 51.350 | 50.000 | 2.7 |
| 4,4'-DDT | 6.179 | 6.110 | 6.250 | 105.590 | 100.000 | 5.6 |
| Methoxychlor | 6.750 | 6.680 | 6.820 | 232.680 | 250.000 | -6.9 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No. (PEM):** PEM - PL095879.D **Date Analyzed:** 06/03/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 09:42

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.098 | 9.000 | 9.200 | 22.730 | 20.000 | 13.7 |
| Tetrachloro-m-xylene | 3.572 | 3.520 | 3.620 | 23.620 | 20.000 | 18.1 |
| alpha-BHC | 4.024 | 3.970 | 4.070 | 11.250 | 10.000 | 12.5 |
| beta-BHC | 4.542 | 4.490 | 4.590 | 11.840 | 10.000 | 18.4 |
| gamma-BHC (Lindane) | 4.355 | 4.300 | 4.410 | 11.530 | 10.000 | 15.3 |
| Endrin | 6.600 | 6.530 | 6.670 | 53.670 | 50.000 | 7.3 |
| 4,4'-DDT | 7.047 | 6.980 | 7.120 | 103.120 | 100.000 | 3.1 |
| Methoxychlor | 7.520 | 7.450 | 7.590 | 250.820 | 250.000 | 0.3 |

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No. (PEM):** PEM - PL095879.D **Date Analyzed:** 06/03/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 09:42

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.059 | 7.960 | 8.160 | 21.700 | 20.000 | 8.5 |
| Tetrachloro-m-xylene | 2.885 | 2.830 | 2.940 | 22.520 | 20.000 | 12.6 |
| alpha-BHC | 3.394 | 3.340 | 3.440 | 10.800 | 10.000 | 8.0 |
| beta-BHC | 4.024 | 3.970 | 4.070 | 11.430 | 10.000 | 14.3 |
| gamma-BHC (Lindane) | 3.728 | 3.680 | 3.780 | 10.890 | 10.000 | 8.9 |
| Endrin | 5.778 | 5.710 | 5.850 | 53.730 | 50.000 | 7.5 |
| 4,4'-DDT | 6.176 | 6.110 | 6.250 | 107.430 | 100.000 | 7.4 |
| Methoxychlor | 6.746 | 6.680 | 6.820 | 225.220 | 250.000 | -9.9 |

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# PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No. (PEM):** PEM - PL095906.D **Date Analyzed:** 06/03/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 19:05

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.097 | 9.000 | 9.200 | 20.510 | 20.000 | 2.6 |
| Tetrachloro-m-xylene | 3.572 | 3.520 | 3.620 | 21.930 | 20.000 | 9.7 |
| alpha-BHC | 4.023 | 3.970 | 4.070 | 10.500 | 10.000 | 5.0 |
| beta-BHC | 4.542 | 4.490 | 4.590 | 10.910 | 10.000 | 9.1 |
| gamma-BHC (Lindane) | 4.355 | 4.300 | 4.410 | 10.780 | 10.000 | 7.8 |
| Endrin | 6.599 | 6.530 | 6.670 | 47.030 | 50.000 | -5.9 |
| 4,4'-DDT | 7.047 | 6.980 | 7.120 | 88.930 | 100.000 | -11.1 |
| Methoxychlor | 7.520 | 7.450 | 7.590 | 217.930 | 250.000 | -12.8 |

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No. (PEM):** PEM - PL095906.D **Date Analyzed:** 06/03/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 19:05

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.059 | 7.960 | 8.160 | 20.740 | 20.000 | 3.7 |
| Tetrachloro-m-xylene | 2.885 | 2.830 | 2.940 | 22.340 | 20.000 | 11.7 |
| alpha-BHC | 3.395 | 3.340 | 3.450 | 10.690 | 10.000 | 6.9 |
| beta-BHC | 4.023 | 3.970 | 4.070 | 11.230 | 10.000 | 12.3 |
| gamma-BHC (Lindane) | 3.728 | 3.680 | 3.780 | 10.740 | 10.000 | 7.4 |
| Endrin | 5.778 | 5.710 | 5.850 | 50.300 | 50.000 | 0.6 |
| 4,4'-DDT | 6.176 | 6.110 | 6.250 | 96.490 | 100.000 | -3.5 |
| Methoxychlor | 6.746 | 6.680 | 6.820 | 208.620 | 250.000 | -16.6 |

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# PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No. (PEM):** PEM - PL095915.D **Date Analyzed:** 06/04/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 11:12

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.118 | 9.020 | 9.220 | 21.910 | 20.000 | 9.6 |
| Tetrachloro-m-xylene | 3.592 | 3.540 | 3.640 | 22.900 | 20.000 | 14.5 |
| alpha-BHC | 4.043 | 3.990 | 4.090 | 10.840 | 10.000 | 8.4 |
| beta-BHC | 4.562 | 4.510 | 4.610 | 11.160 | 10.000 | 11.6 |
| gamma-BHC (Lindane) | 4.375 | 4.320 | 4.430 | 10.920 | 10.000 | 9.2 |
| Endrin | 6.619 | 6.550 | 6.690 | 50.980 | 50.000 | 2.0 |
| 4,4'-DDT | 7.067 | 7.000 | 7.140 | 92.620 | 100.000 | -7.4 |
| Methoxychlor | 7.540 | 7.470 | 7.610 | 233.190 | 250.000 | -6.7 |

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/21/2025 05/21/2025

**Client Sample No. (PEM):** PEM - PL095915.D **Date Analyzed:** 06/04/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 11:12

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.059 | 7.960 | 8.160 | 21.610 | 20.000 | 8.1 |
| Tetrachloro-m-xylene | 2.885 | 2.830 | 2.940 | 21.850 | 20.000 | 9.3 |
| alpha-BHC | 3.394 | 3.340 | 3.440 | 10.420 | 10.000 | 4.2 |
| beta-BHC | 4.024 | 3.970 | 4.070 | 10.950 | 10.000 | 9.5 |
| gamma-BHC (Lindane) | 3.728 | 3.680 | 3.780 | 10.470 | 10.000 | 4.7 |
| Endrin | 5.778 | 5.710 | 5.850 | 51.550 | 50.000 | 3.1 |
| 4,4'-DDT | 6.176 | 6.110 | 6.250 | 99.520 | 100.000 | -0.5 |
| Methoxychlor | 6.747 | 6.680 | 6.820 | 211.480 | 250.000 | -15.4 |

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# Analytical Sequence

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Project:** Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_L

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 05/21/2025 05/21/2025

**THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:**

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 05/21/2025 | 10:47 | PL095732.D | 9.10 | 3.57 |
| PEM | PEM | 05/21/2025 | 11:01 | PL095733.D | 9.10 | 3.57 |
| RESCHK | RESCHK | 05/21/2025 | 11:14 | PL095734.D | 9.10 | 3.57 |
| PSTDICC100 | PSTDICC100 | 05/21/2025 | 11:35 | PL095735.D | 9.11 | 3.58 |
| PSTDICC075 | PSTDICC075 | 05/21/2025 | 11:48 | PL095736.D | 9.10 | 3.57 |
| PSTDICC050 | PSTDICC050 | 05/21/2025 | 12:02 | PL095737.D | 9.10 | 3.57 |
| PSTDICC025 | PSTDICC025 | 05/21/2025 | 12:15 | PL095738.D | 9.10 | 3.57 |
| PSTDICC005 | PSTDICC005 | 05/21/2025 | 12:29 | PL095739.D | 9.10 | 3.57 |
| PCHLORICC500 | PCHLORICC500 | 05/21/2025 | 13:10 | PL095742.D | 9.10 | 3.57 |
| PTOXICC500 | PTOXICC500 | 05/21/2025 | 14:18 | PL095747.D | 9.10 | 3.57 |
| PEM | PEM | 06/03/2025 | 09:42 | PL095879.D | 9.10 | 3.57 |
| I.BLK | I.BLK | 06/03/2025 | 16:48 | PL095896.D | 9.10 | 3.57 |
| PSTDCCC050 | PSTDCCC050 | 06/03/2025 | 17:01 | PL095897.D | 9.10 | 3.57 |
| OR-400-CF-402B-COMP-23MS | Q2173-06MS | 06/03/2025 | 17:15 | PL095898.D | 9.10 | 3.57 |
| OR-400-CF-402B-COMP-23MSD | Q2173-06MSD | 06/03/2025 | 17:29 | PL095899.D | 9.10 | 3.57 |
| PB168264BL | PB168264BL | 06/03/2025 | 18:10 | PL095902.D | 9.10 | 3.57 |
| PB168224TB | PB168224TB | 06/03/2025 | 18:38 | PL095904.D | 9.10 | 3.57 |
| I.BLK | I.BLK | 06/03/2025 | 18:51 | PL095905.D | 9.10 | 3.57 |
| PEM | PEM | 06/03/2025 | 19:05 | PL095906.D | 9.10 | 3.57 |
| PSTDCCC050 | PSTDCCC050 | 06/03/2025 | 19:18 | PL095907.D | 9.10 | 3.57 |
| B-187-SB01 | Q2177-03 | 06/03/2025 | 19:32 | PL095908.D | 9.10 | 3.57 |
| B-187-SB02 | Q2177-05 | 06/03/2025 | 19:46 | PL095909.D | 9.10 | 3.57 |
| B-202-SB01 | Q2177-07 | 06/03/2025 | 19:59 | PL095910.D | 9.10 | 3.57 |
| I.BLK | I.BLK | 06/03/2025 | 20:13 | PL095911.D | 9.10 | 3.57 |
| PSTDCCC050 | PSTDCCC050 | 06/03/2025 | 20:27 | PL095912.D | 9.10 | 3.57 |
| I.BLK | I.BLK | 06/04/2025 | 10:59 | PL095914.D | 9.10 | 3.57 |
| PEM | PEM | 06/04/2025 | 11:12 | PL095915.D | 9.12 | 3.59 |
| PSTDCCC050 | PSTDCCC050 | 06/04/2025 | 11:26 | PL095916.D | 9.10 | 3.57 |
| PB168264BS | PB168264BS | 06/04/2025 | 12:07 | PL095917.D | 9.11 | 3.58 |
| I.BLK | I.BLK | 06/04/2025 | 13:08 | PL095918.D | 9.11 | 3.58 |
| PSTDCCC050 | PSTDCCC050 | 06/04/2025 | 13:22 | PL095919.D | 9.10 | 3.57 |

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# Analytical Sequence

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Project:** Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_L

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 05/21/2025 05/21/2025

**THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:**

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 05/21/2025 | 10:47 | PL095732.D | 8.06 | 2.89 |
| PEM | PEM | 05/21/2025 | 11:01 | PL095733.D | 8.06 | 2.89 |
| RESCHK | RESCHK | 05/21/2025 | 11:14 | PL095734.D | 8.06 | 2.89 |
| PSTDICC100 | PSTDICC100 | 05/21/2025 | 11:35 | PL095735.D | 8.06 | 2.88 |
| PSTDICC075 | PSTDICC075 | 05/21/2025 | 11:48 | PL095736.D | 8.06 | 2.89 |
| PSTDICC050 | PSTDICC050 | 05/21/2025 | 12:02 | PL095737.D | 8.06 | 2.89 |
| PSTDICC025 | PSTDICC025 | 05/21/2025 | 12:15 | PL095738.D | 8.06 | 2.89 |
| PSTDICC005 | PSTDICC005 | 05/21/2025 | 12:29 | PL095739.D | 8.06 | 2.89 |
| PCHLORICC500 | PCHLORICC500 | 05/21/2025 | 13:10 | PL095742.D | 8.06 | 2.89 |
| PTOXICC500 | PTOXICC500 | 05/21/2025 | 14:18 | PL095747.D | 8.06 | 2.89 |
| PEM | PEM | 06/03/2025 | 09:42 | PL095879.D | 8.06 | 2.89 |
| I.BLK | I.BLK | 06/03/2025 | 16:48 | PL095896.D | 8.06 | 2.89 |
| PSTDCCC050 | PSTDCCC050 | 06/03/2025 | 17:01 | PL095897.D | 8.06 | 2.89 |
| OR-400-CF-402B-COMP-23MS | Q2173-06MS | 06/03/2025 | 17:15 | PL095898.D | 8.06 | 2.89 |
| OR-400-CF-402B-COMP-23MSD | Q2173-06MSD | 06/03/2025 | 17:29 | PL095899.D | 8.06 | 2.89 |
| PB168264BL | PB168264BL | 06/03/2025 | 18:10 | PL095902.D | 8.06 | 2.89 |
| PB168224TB | PB168224TB | 06/03/2025 | 18:38 | PL095904.D | 8.06 | 2.89 |
| I.BLK | I.BLK | 06/03/2025 | 18:51 | PL095905.D | 8.06 | 2.89 |
| PEM | PEM | 06/03/2025 | 19:05 | PL095906.D | 8.06 | 2.89 |
| PSTDCCC050 | PSTDCCC050 | 06/03/2025 | 19:18 | PL095907.D | 8.06 | 2.89 |
| B-187-SB01 | Q2177-03 | 06/03/2025 | 19:32 | PL095908.D | 8.06 | 2.89 |
| B-187-SB02 | Q2177-05 | 06/03/2025 | 19:46 | PL095909.D | 8.06 | 2.89 |
| B-202-SB01 | Q2177-07 | 06/03/2025 | 19:59 | PL095910.D | 8.06 | 2.89 |
| I.BLK | I.BLK | 06/03/2025 | 20:13 | PL095911.D | 8.06 | 2.89 |
| PSTDCCC050 | PSTDCCC050 | 06/03/2025 | 20:27 | PL095912.D | 8.06 | 2.89 |
| I.BLK | I.BLK | 06/04/2025 | 10:59 | PL095914.D | 8.06 | 2.88 |
| PEM | PEM | 06/04/2025 | 11:12 | PL095915.D | 8.06 | 2.89 |
| PSTDCCC050 | PSTDCCC050 | 06/04/2025 | 11:26 | PL095916.D | 8.06 | 2.89 |
| PB168264BS | PB168264BS | 06/04/2025 | 12:07 | PL095917.D | 8.06 | 2.88 |
| I.BLK | I.BLK | 06/04/2025 | 13:08 | PL095918.D | 8.06 | 2.88 |
| PSTDCCC050 | PSTDCCC050 | 06/04/2025 | 13:22 | PL095919.D | 8.06 | 2.88 |

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Fax : 908 789 8922

## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**OR-400-CF-402B-COMP-23MS**

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Lab Sample ID:** Q2173-06MS **Date(s) Analyzed:** 06/03/2025 06/03/2025

**Instrument ID (1):** ECD_L **Instrument ID (2):** ECD_L

**GC Column: (1):** ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Methoxychlor | 1 | 7.52 | 7.47 | 7.57 | 4.50 | 6.9 |
| | 2 | 6.75 | 6.70 | 6.80 | 4.20 | |
| gamma-BHC (Lindane) | 1 | 4.36 | 4.31 | 4.41 | 5.00 | 2 |
| | 2 | 3.73 | 3.68 | 3.78 | 5.10 | |
| Heptachlor | 1 | 4.95 | 4.90 | 5.00 | 4.80 | 2.1 |
| | 2 | 4.08 | 4.03 | 4.13 | 4.90 | |
| Heptachlor epoxide | 1 | 5.72 | 5.67 | 5.77 | 4.80 | 4.1 |
| | 2 | 4.87 | 4.82 | 4.92 | 5.00 | |
| Endrin | 1 | 6.60 | 6.55 | 6.65 | 4.50 | 0 |
| | 2 | 5.78 | 5.73 | 5.83 | 4.50 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**OR-400-CF-402B-COMP-23MSD**

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Lab Sample ID:** Q2173-06MSD **Date(s) Analyzed:** 06/03/2025 06/03/2025

**Instrument ID (1):** ECD_L **Instrument ID (2):** ECD_L

**GC Column: (1):** ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endrin | 1 | 6.60 | 6.55 | 6.65 | 4.60 | 2.2 |
| | 2 | 5.78 | 5.73 | 5.83 | 4.50 | |
| Methoxychlor | 1 | 7.52 | 7.47 | 7.57 | 4.60 | 9.1 |
| | 2 | 6.75 | 6.70 | 6.80 | 4.20 | |
| gamma-BHC (Lindane) | 1 | 4.36 | 4.31 | 4.41 | 5.10 | 1.9 |
| | 2 | 3.73 | 3.68 | 3.78 | 5.20 | |
| Heptachlor | 1 | 4.95 | 4.90 | 5.00 | 4.80 | 2.1 |
| | 2 | 4.08 | 4.03 | 4.13 | 4.90 | |
| Heptachlor epoxide | 1 | 5.72 | 5.67 | 5.77 | 4.80 | 6.1 |
| | 2 | 4.87 | 4.82 | 4.92 | 5.10 | |

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Fax : 908 789 8922

## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB168264BS**

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Lab Sample ID:** PB168264BS **Date(s) Analyzed:** 06/04/2025 06/04/2025

**Instrument ID (1):** ECD_L **Instrument ID (2):** ECD_L

**GC Column: (1):** ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Methoxychlor | 1 | 7.53 | 7.48 | 7.58 | 0.49 | 9.3 |
| | 2 | 6.75 | 6.70 | 6.80 | 0.45 | |
| gamma-BHC (Lindane) | 1 | 4.36 | 4.31 | 4.41 | 0.56 | 1.2 |
| | 2 | 3.73 | 3.68 | 3.78 | 0.55 | |
| Heptachlor | 1 | 4.96 | 4.91 | 5.01 | 0.54 | 1.6 |
| | 2 | 4.08 | 4.03 | 4.13 | 0.54 | |
| Heptachlor epoxide | 1 | 5.72 | 5.67 | 5.77 | 0.55 | 0.2 |
| | 2 | 4.87 | 4.82 | 4.92 | 0.55 | |
| Endrin | 1 | 6.61 | 6.56 | 6.66 | 0.49 | 0.2 |
| | 2 | 5.78 | 5.73 | 5.83 | 0.49 | |

# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL060325\
Data File : PL095904.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 18:38
Operator : AR\AJ
Sample : PB168224TB
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PB168224TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 03:40:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.572 | 2.886 | 59995831 | 75425832 | 19.014 | 19.271 |
| 28) | SA Decachlor... | 9.098 | 8.060 | 42956250 | 77606935 | 18.230 | 17.741 |
| | Target Compounds | | | | | | |

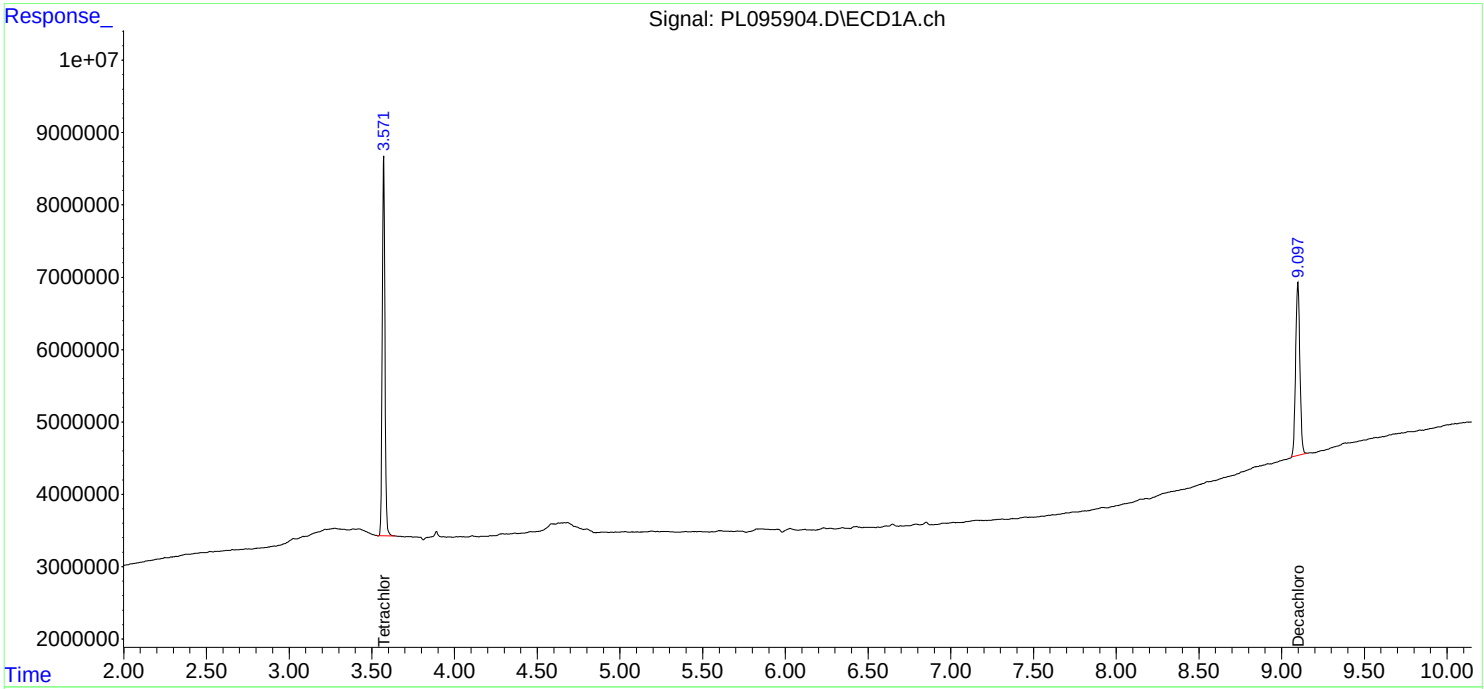
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

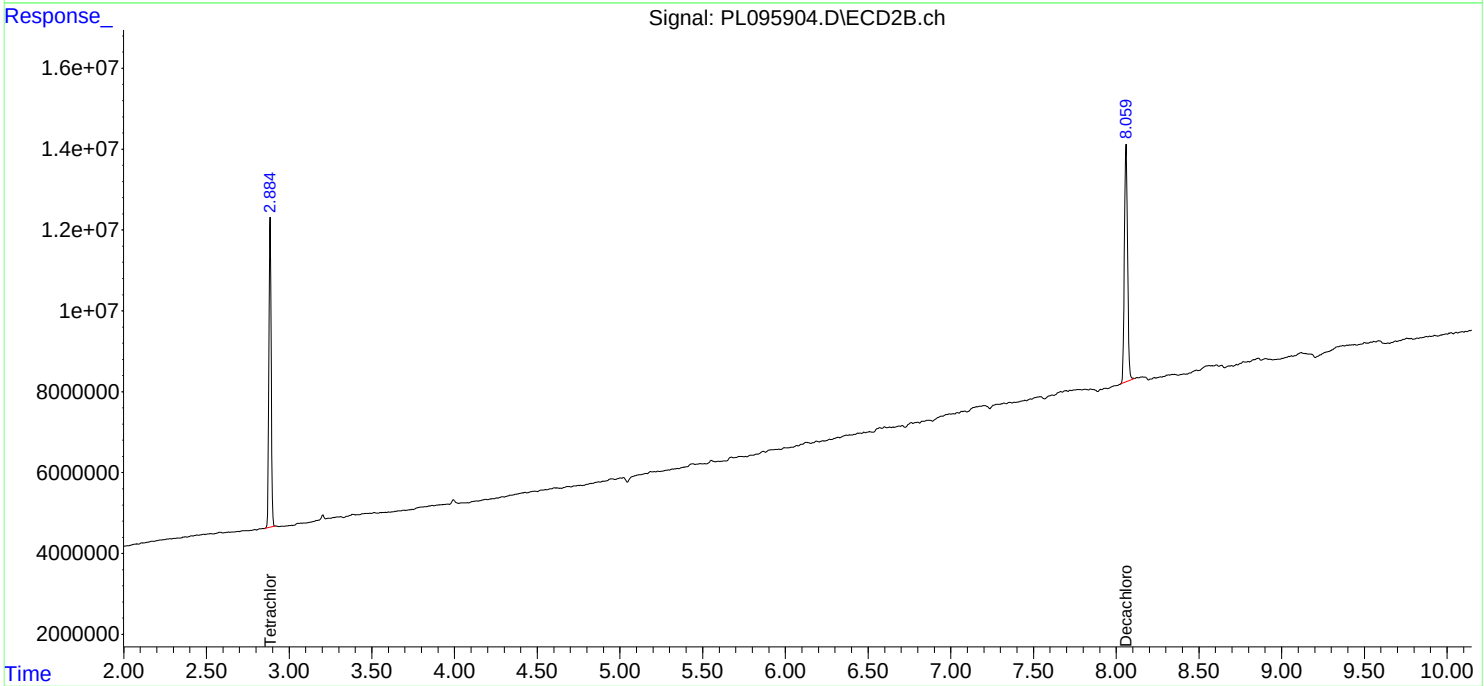
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL060325\
Data File : PL095904.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 18:38
Operator : AR\AJ
Sample : PB168224TB
Misc :
ALS Vial : 26 Sample Multiplier: 1

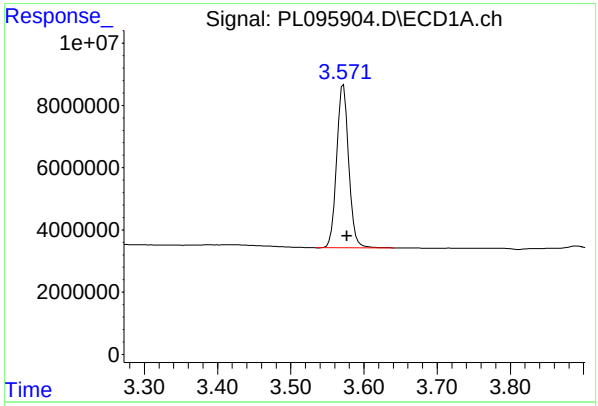
**Instrument :**
ECD_L
**ClientSampleId :**
PB168224TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 03:40:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



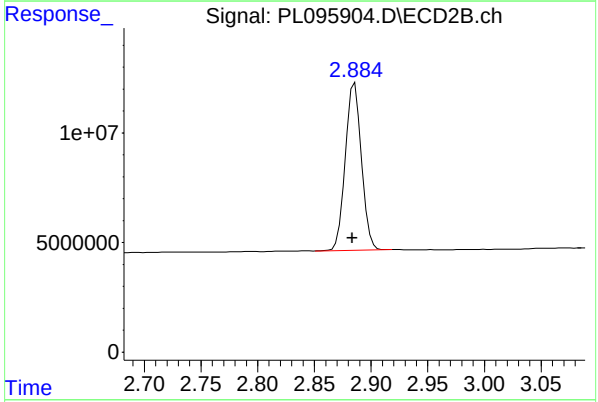






#1 Tetrachloro-m-xylene

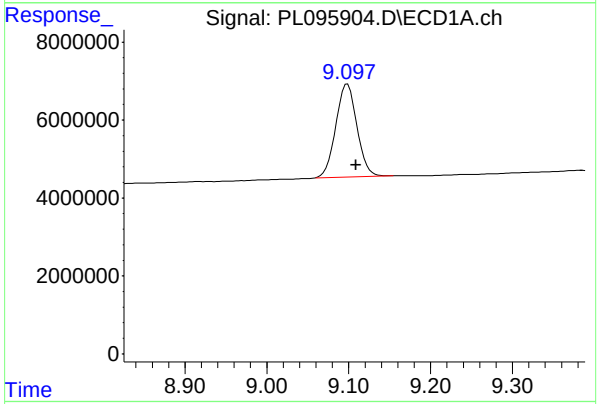
R.T.: 3.572 min
Delta R.T.: -0.005 min
Response: 59995831
Conc: 19.01 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PB168224TB



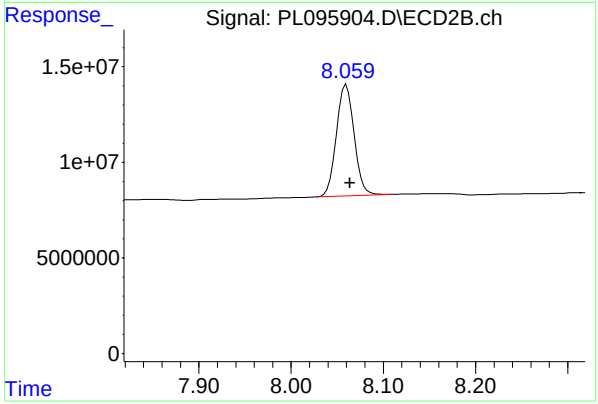

#1 Tetrachloro-m-xylene

R.T.: 2.886 min
Delta R.T.: 0.002 min
Response: 75425832
Conc: 19.27 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.098 min
Delta R.T.: -0.010 min
Response: 42956250
Conc: 18.23 ng/ml




#28 Decachlorobiphenyl

R.T.: 8.060 min
Delta R.T.: -0.004 min
Response: 77606935
Conc: 17.74 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL060325\
Data File : PL095908.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 19:32
Operator : AR\AJ
Sample : Q2177-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
B-187-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 03:40:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.572 | 2.885 | 69565010 | 88243192 | 22.047 | 22.546 |
| 28) | SA Decachlor... | 9.098 | 8.060 | 52815067 | 102.4E6 | 22.414 | 23.411 |
| | Target Compounds | | | | | | |

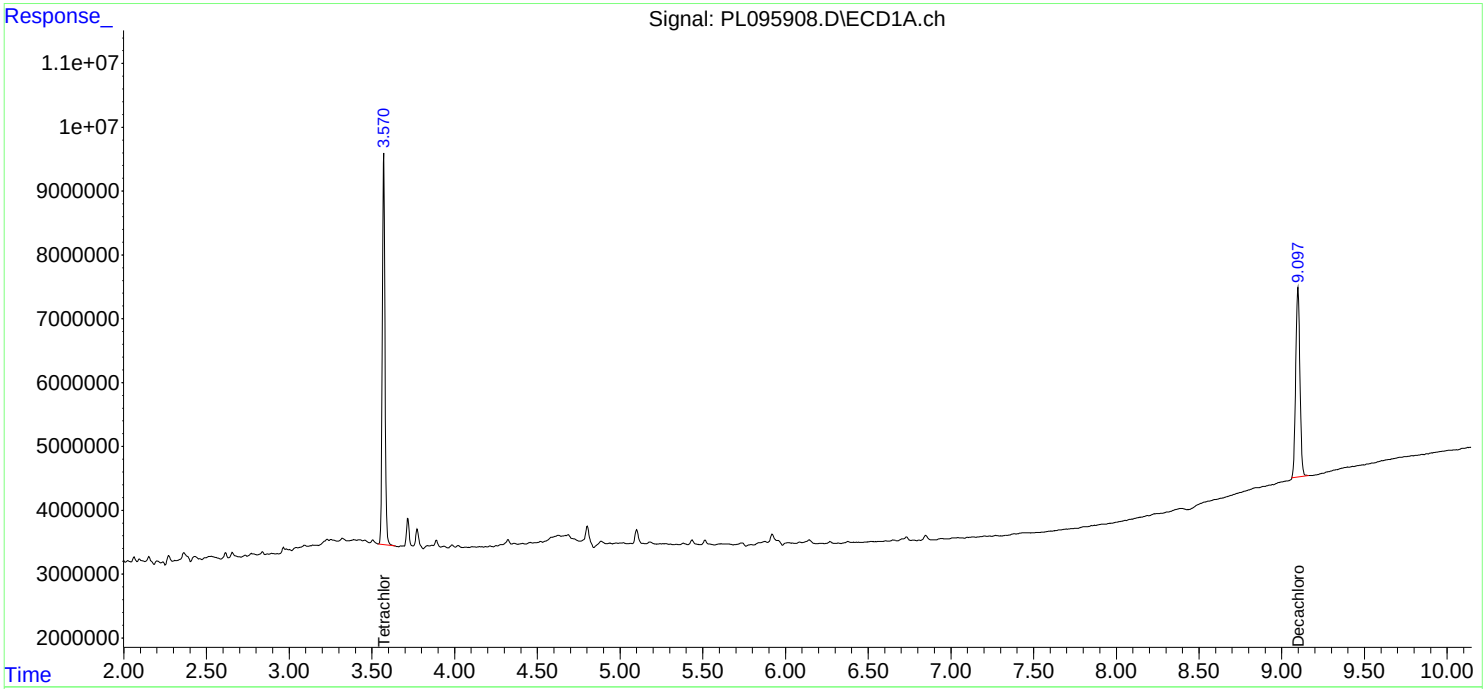
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

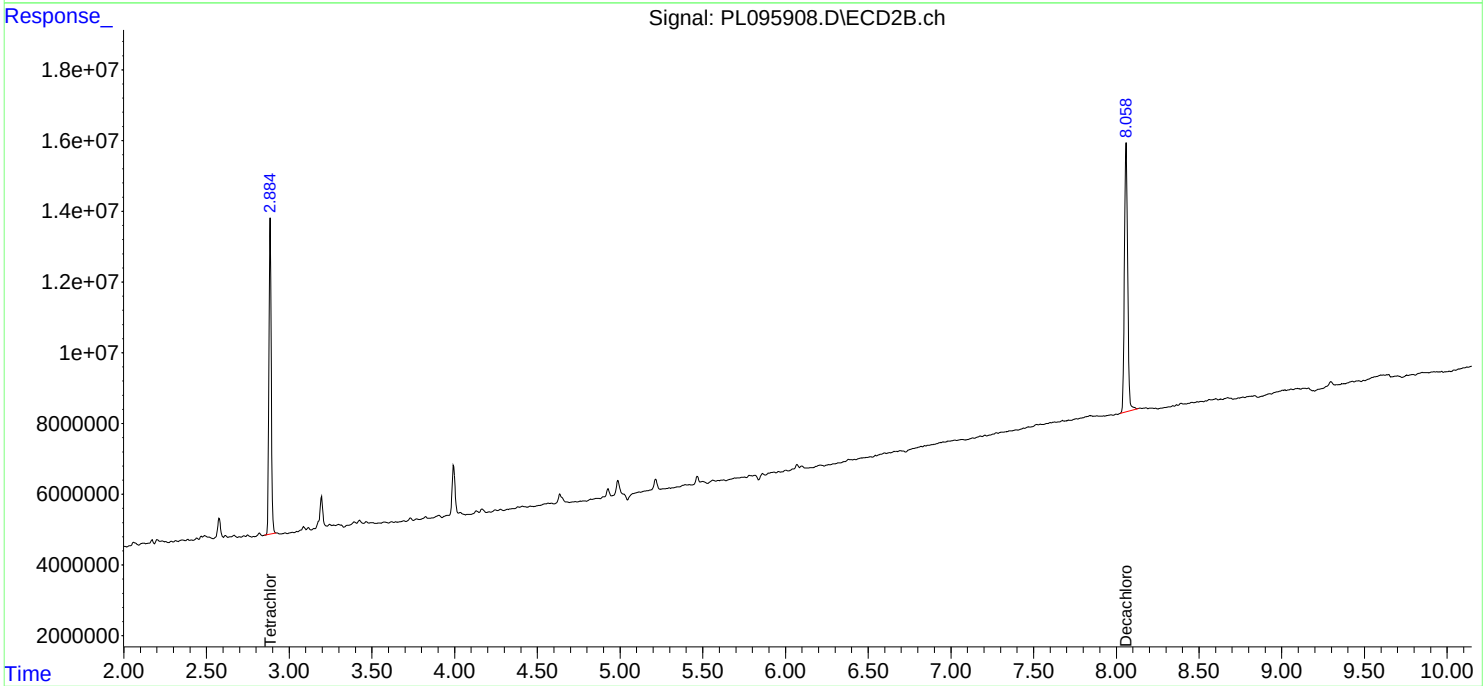
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL060325\
Data File : PL095908.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 19:32
Operator : AR\AJ
Sample : Q2177-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

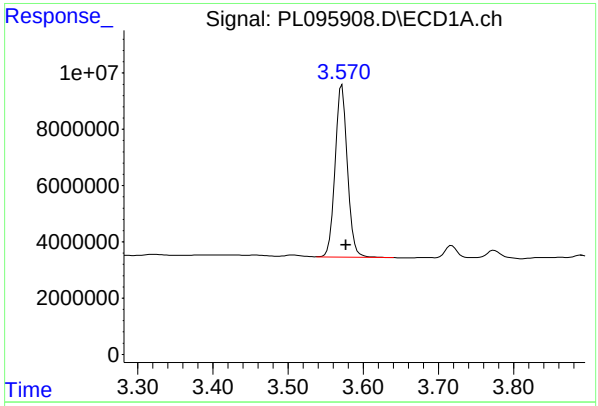
**Instrument :**
ECD_L
**ClientSampleId :**
B-187-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 03:40:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



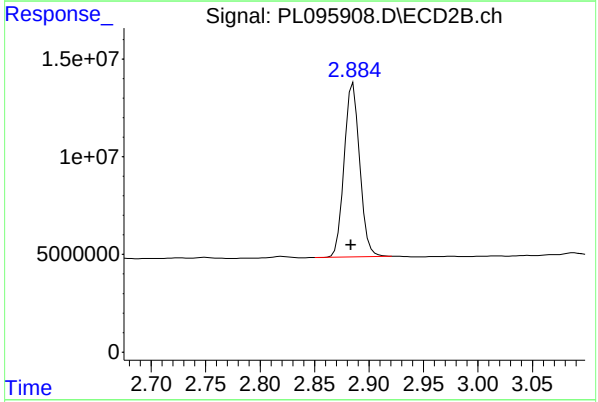






#1 Tetrachloro-m-xylene

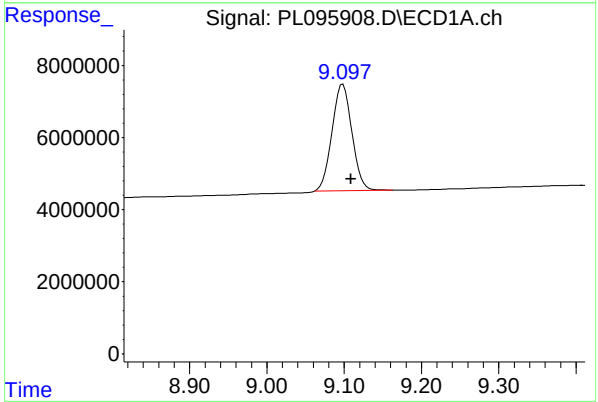
R.T.: 3.572 min
Delta R.T.: -0.005 min
Response: 69565010
Conc: 22.05 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
B-187-SB01



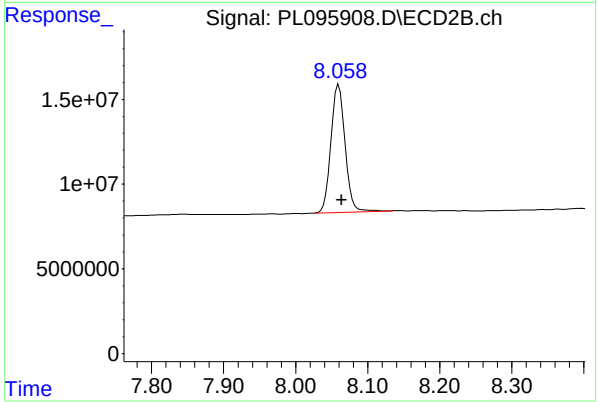

#1 Tetrachloro-m-xylene

R.T.: 2.885 min
Delta R.T.: 0.002 min
Response: 88243192
Conc: 22.55 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.098 min
Delta R.T.: -0.011 min
Response: 52815067
Conc: 22.41 ng/ml




#28 Decachlorobiphenyl

R.T.: 8.060 min
Delta R.T.: -0.004 min
Response: 102409696
Conc: 23.41 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL060325\
Data File : PL095909.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 19:46
Operator : AR\AJ
Sample : Q2177-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
B-187-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 03:40:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.573 | 2.885 | 58647653 | 73689880 | 18.587 | 18.828 |
| 28) | SA Decachlor... | 9.098 | 8.060 | 45123175 | 85632807 | 19.150 | 19.576 |
| | Target Compounds | | | | | | |

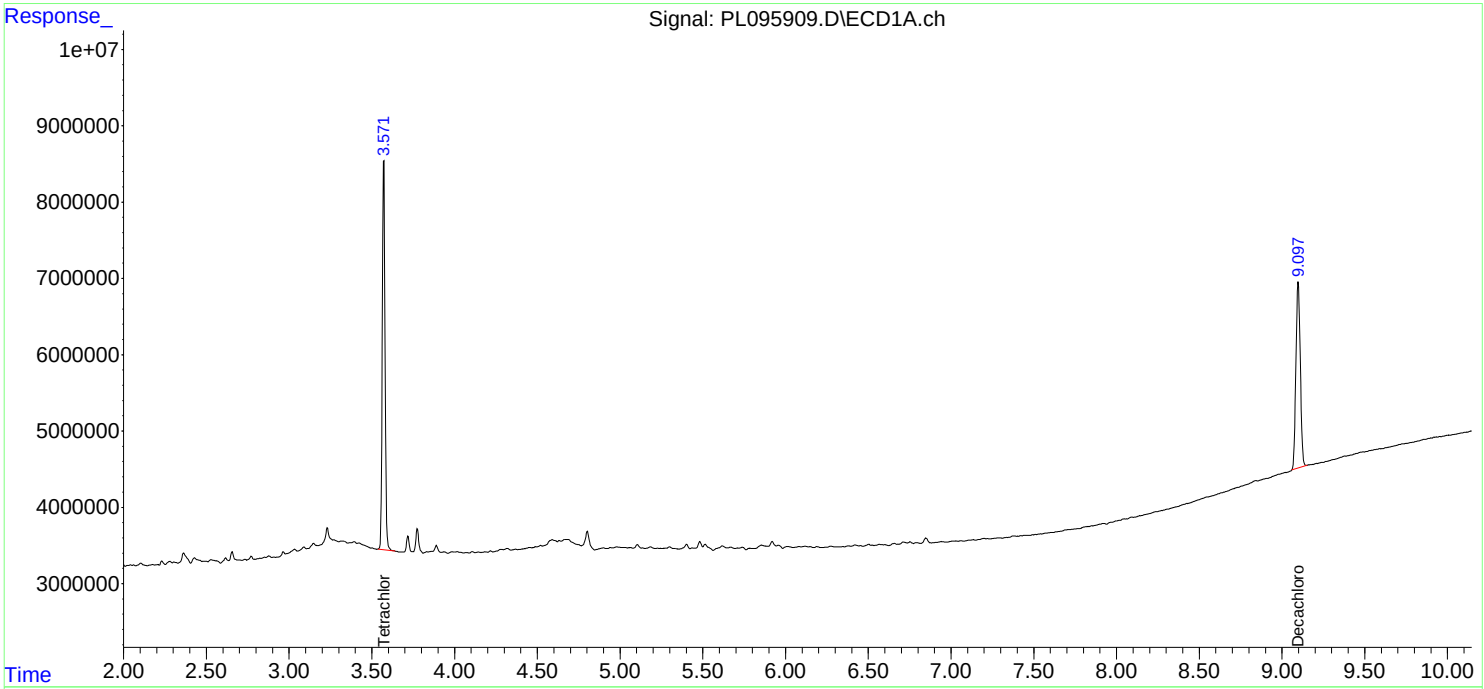
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

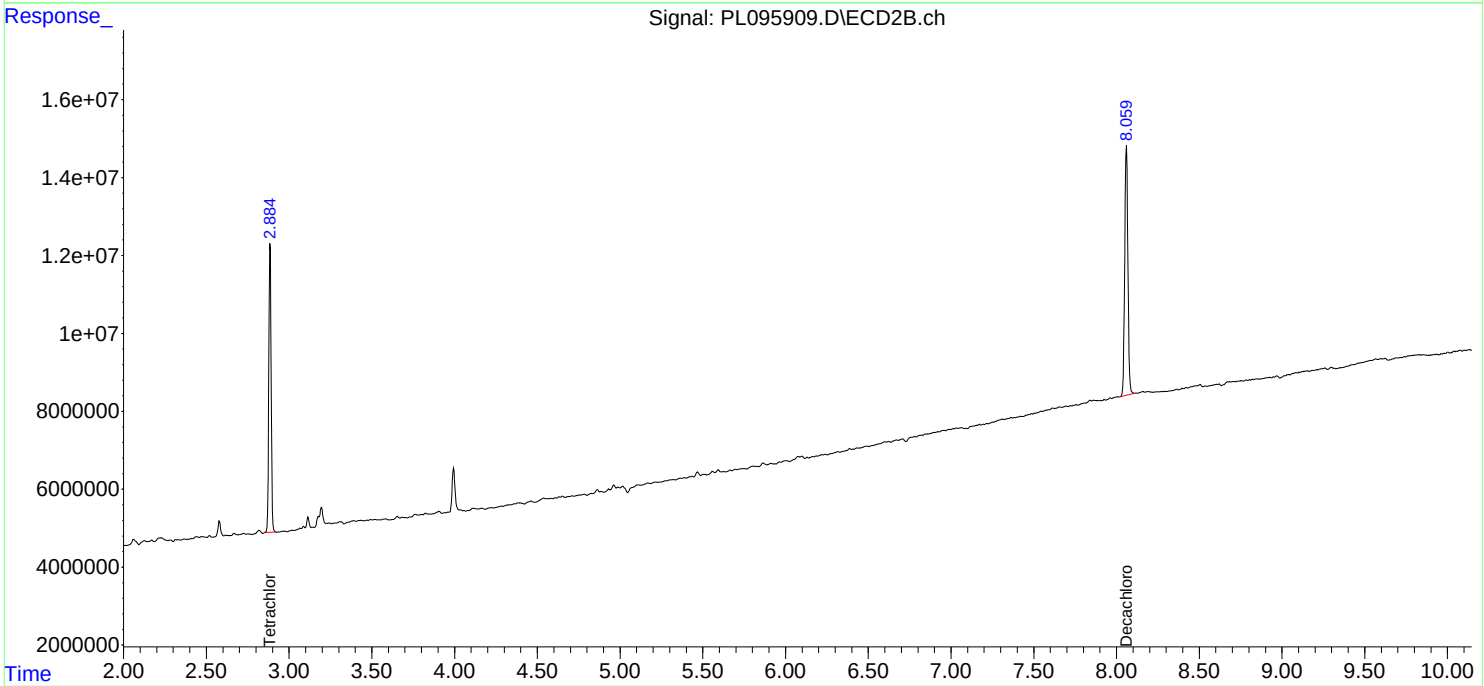
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL060325\
Data File : PL095909.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 19:46
Operator : AR\AJ
Sample : Q2177-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

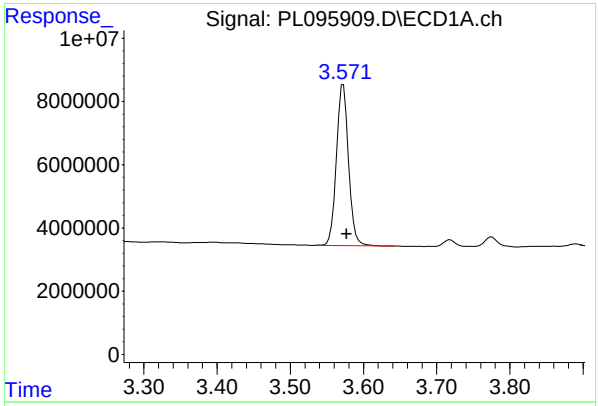
**Instrument :**
ECD_L
**ClientSampleId :**
B-187-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 03:40:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



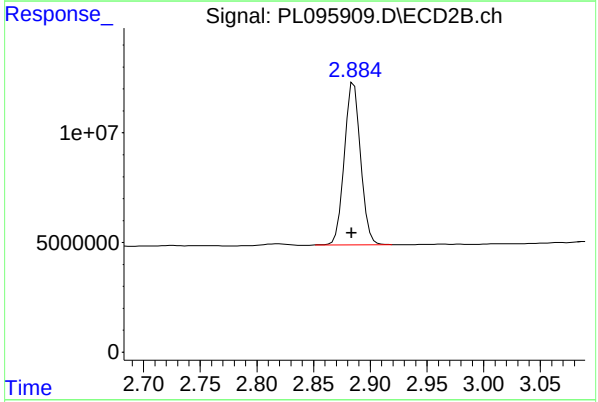






#1 Tetrachloro-m-xylene

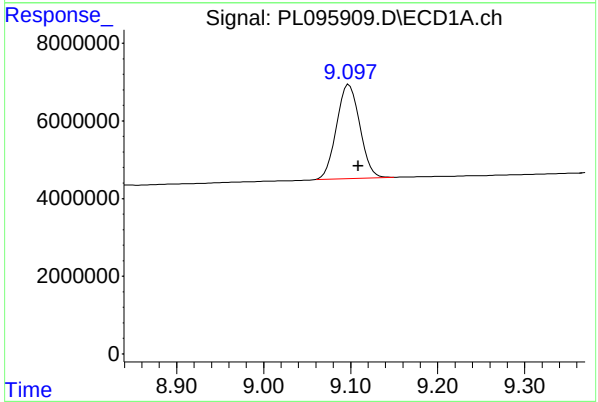
R.T.: 3.573 min
Delta R.T.: -0.004 min
Response: 58647653
Conc: 18.59 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
B-187-SB02



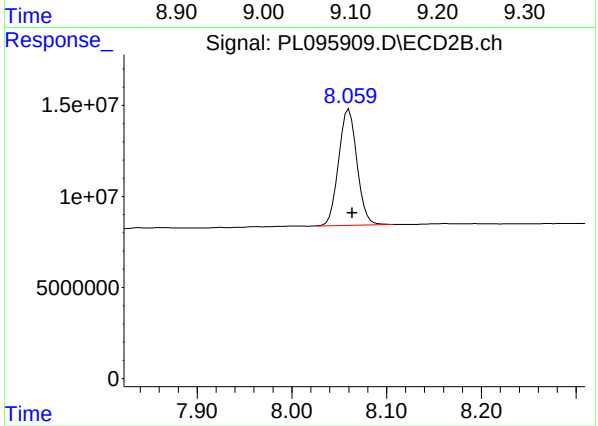

#1 Tetrachloro-m-xylene

R.T.: 2.885 min
Delta R.T.: 0.002 min
Response: 73689880
Conc: 18.83 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.098 min
Delta R.T.: -0.011 min
Response: 45123175
Conc: 19.15 ng/ml




#28 Decachlorobiphenyl

R.T.: 8.060 min
Delta R.T.: -0.004 min
Response: 85632807
Conc: 19.58 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL060325\
Data File : PL095910.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 19:59
Operator : AR\AJ
Sample : Q2177-07
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
B-202-SB01

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 03:40:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.572 | 2.885 | 58846542 | 71932684 | 18.650 | 18.379 |
| 28) | SA Decachlor... | 9.097 | 8.059 | 43981730 | 84681385 | 18.665 | 19.358 |
| | Target Compounds | | | | | | |
| 13) | MA Dieldrin | 6.375 | 5.502 | 2334101 | 13197729 | 0.605m | 2.490m# |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sample Results: **PL095910.D**

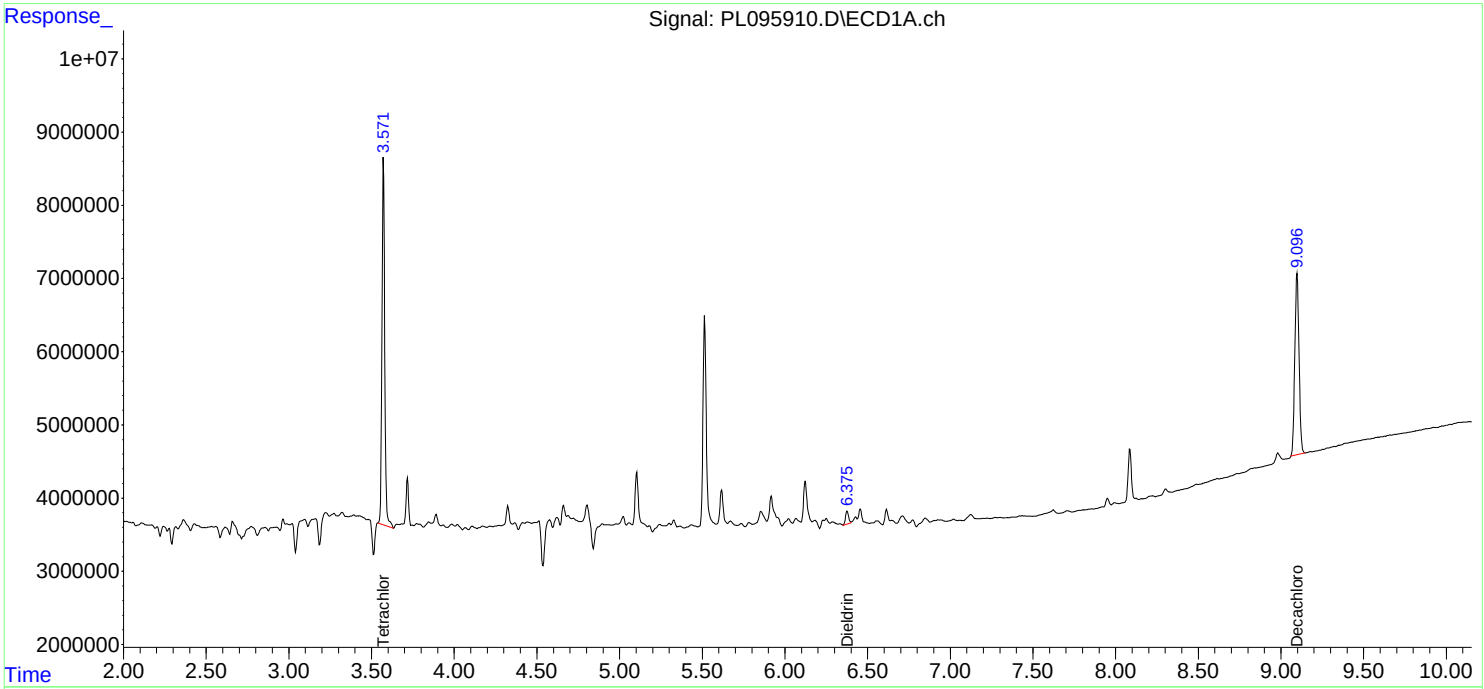
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL060325\
Data File : PL095910.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 19:59
Operator : AR\AJ
Sample : Q2177-07
Misc :
ALS Vial : 29 Sample Multiplier: 1

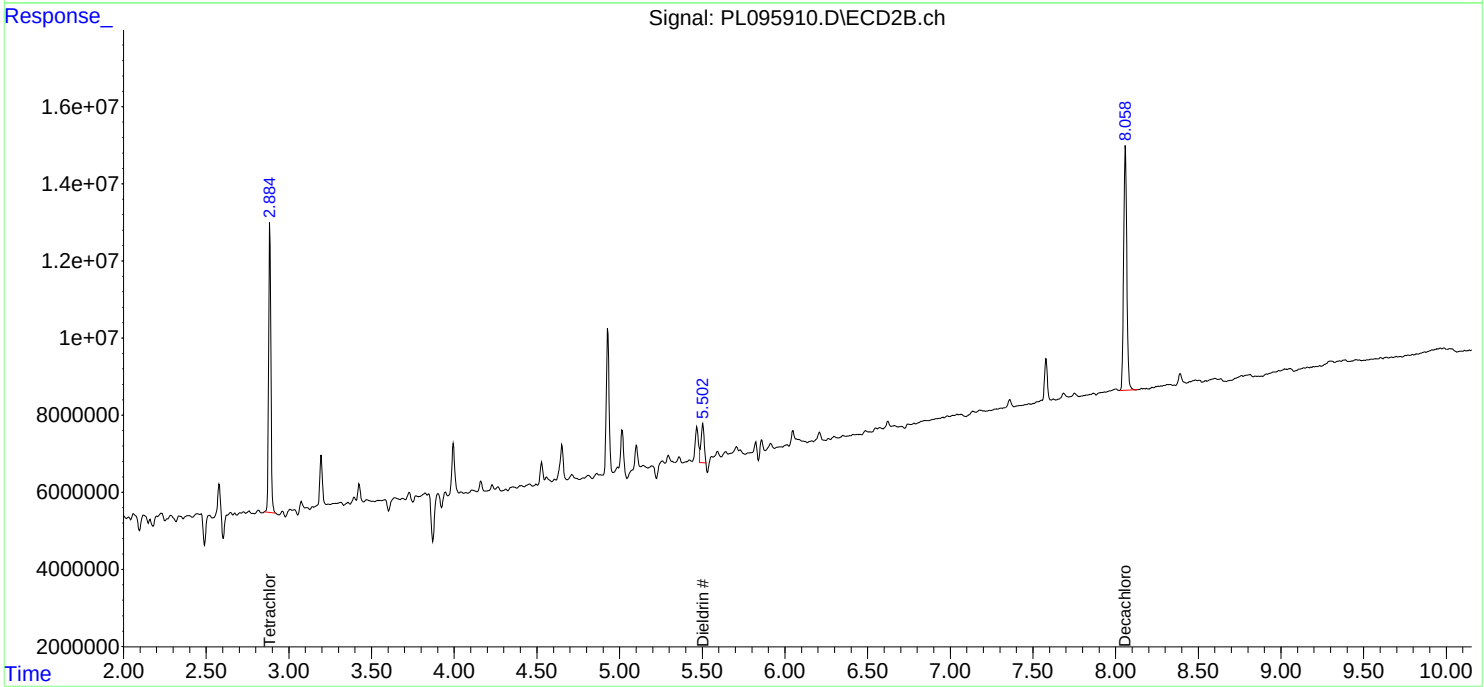
**Instrument :**
ECD_L
**ClientSampleId :**
B-202-SB01

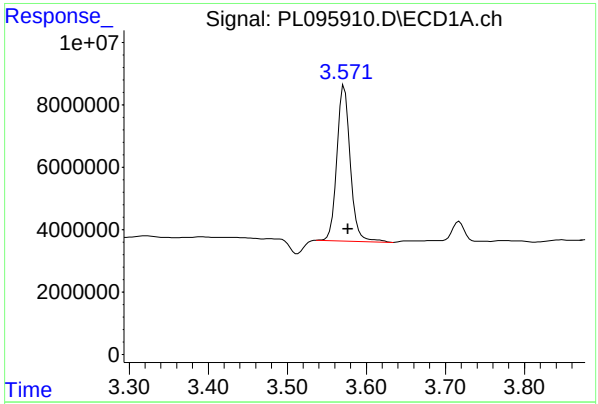
**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 03:40:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm





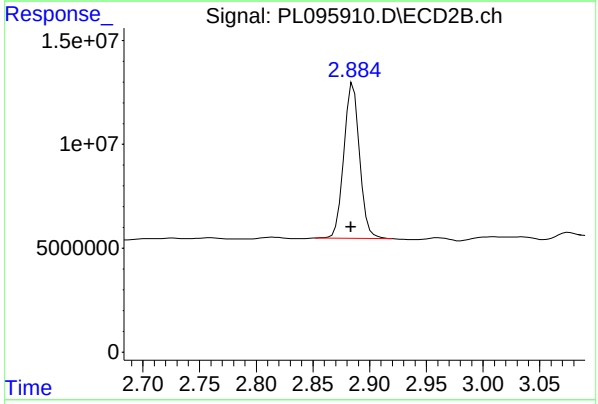

#1 Tetrachloro-m-xylene

R.T.: 3.572 min
Delta R.T.: -0.005 min
Response: 58846542
Conc: 18.65 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
B-202-SB01

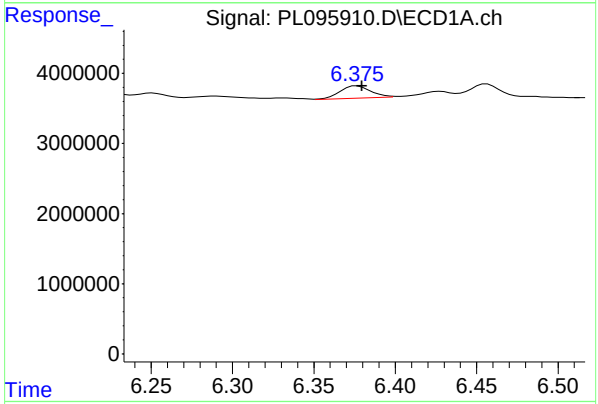
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 06/04/2025
Supervised By :mohammad ahmed 06/05/2025



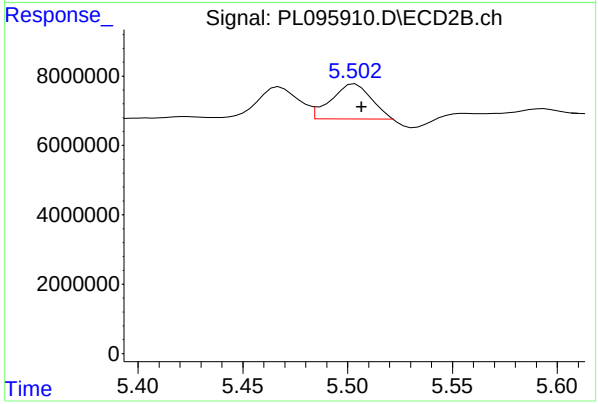

#1 Tetrachloro-m-xylene

R.T.: 2.885 min
Delta R.T.: 0.002 min
Response: 71932684
Conc: 18.38 ng/ml



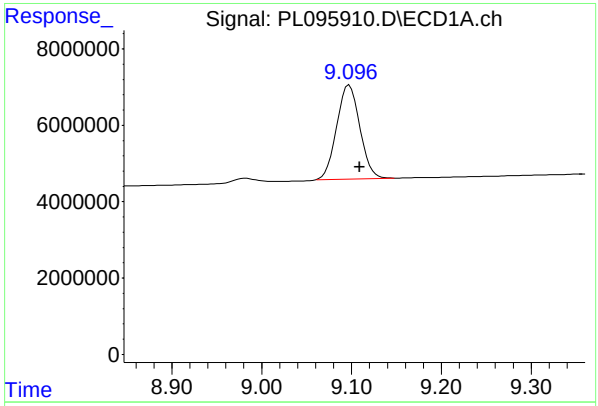

#13 Dieldrin

R.T.: 6.375 min
Delta R.T.: -0.004 min
Response: 2334101
Conc: 0.60 ng/ml m




#13 Dieldrin

R.T.: 5.502 min
Delta R.T.: -0.004 min
Response: 13197729
Conc: 2.49 ng/ml m



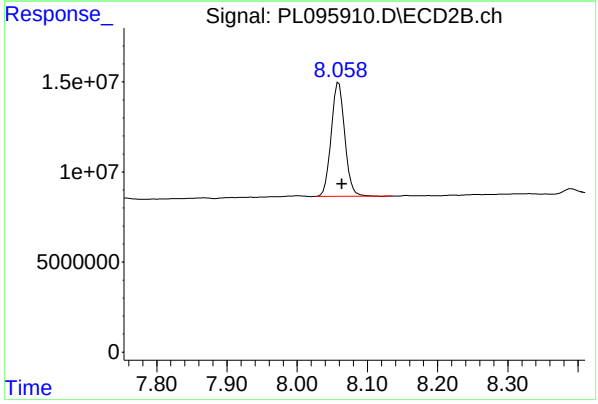

#28 Decachlorobiphenyl

R.T.: 9.097 min
Delta R.T.: -0.012 min
Response: 43981730
Conc: 18.67 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
B-202-SB01

**Manual Integrations**
**APPROVED**

Reviewed By :Abdul Mirza 06/04/2025
Supervised By :mohammad ahmed 06/05/2025




#28 Decachlorobiphenyl

R.T.: 8.059 min
Delta R.T.: -0.004 min
Response: 84681385
Conc: 19.36 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL060325\
Data File : PL095902.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 18:10
Operator : AR\AJ
Sample : PB168264BL
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PB168264BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 03:39:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.572 | 2.885 | 59824314 | 75028691 | 18.960 | 19.170 |
| 28) | SA Decachlor... | 9.098 | 8.059 | 42546526 | 78198340 | 18.056 | 17.876 |
| | Target Compounds | | | | | | |

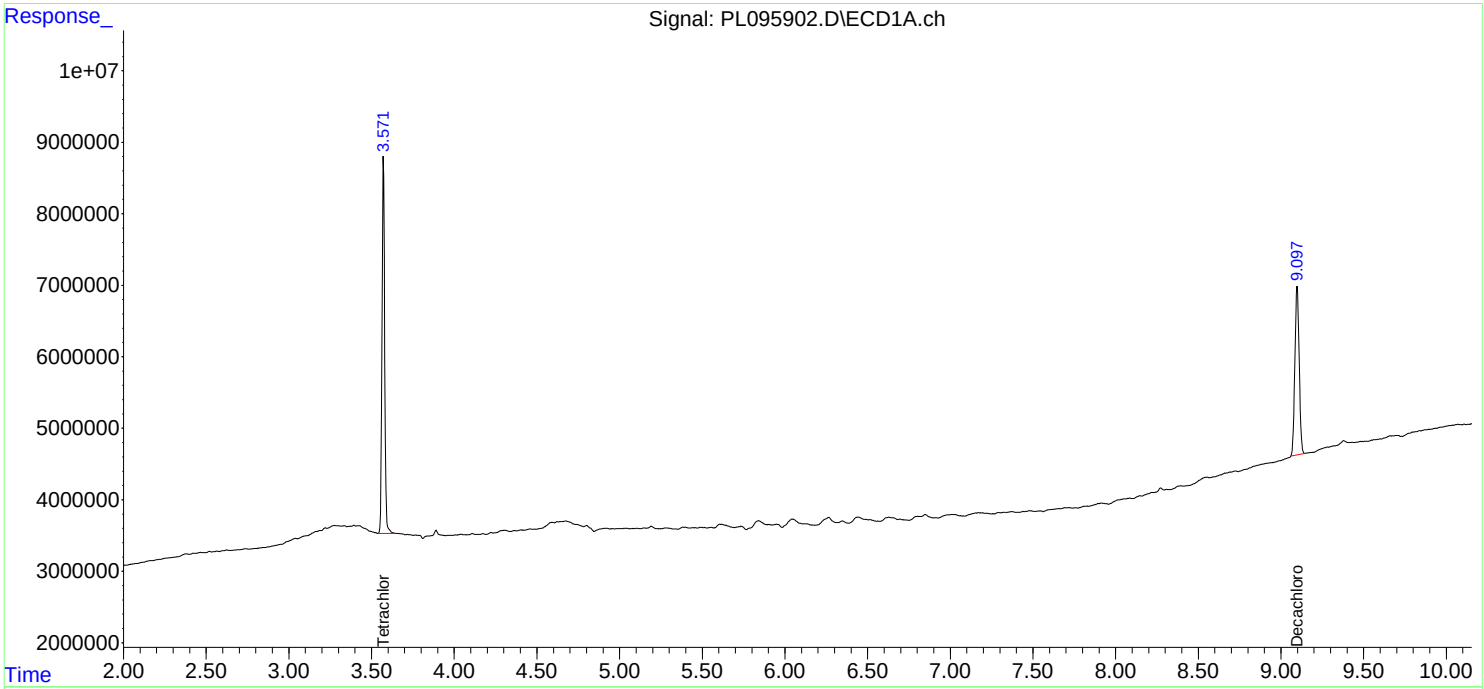
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

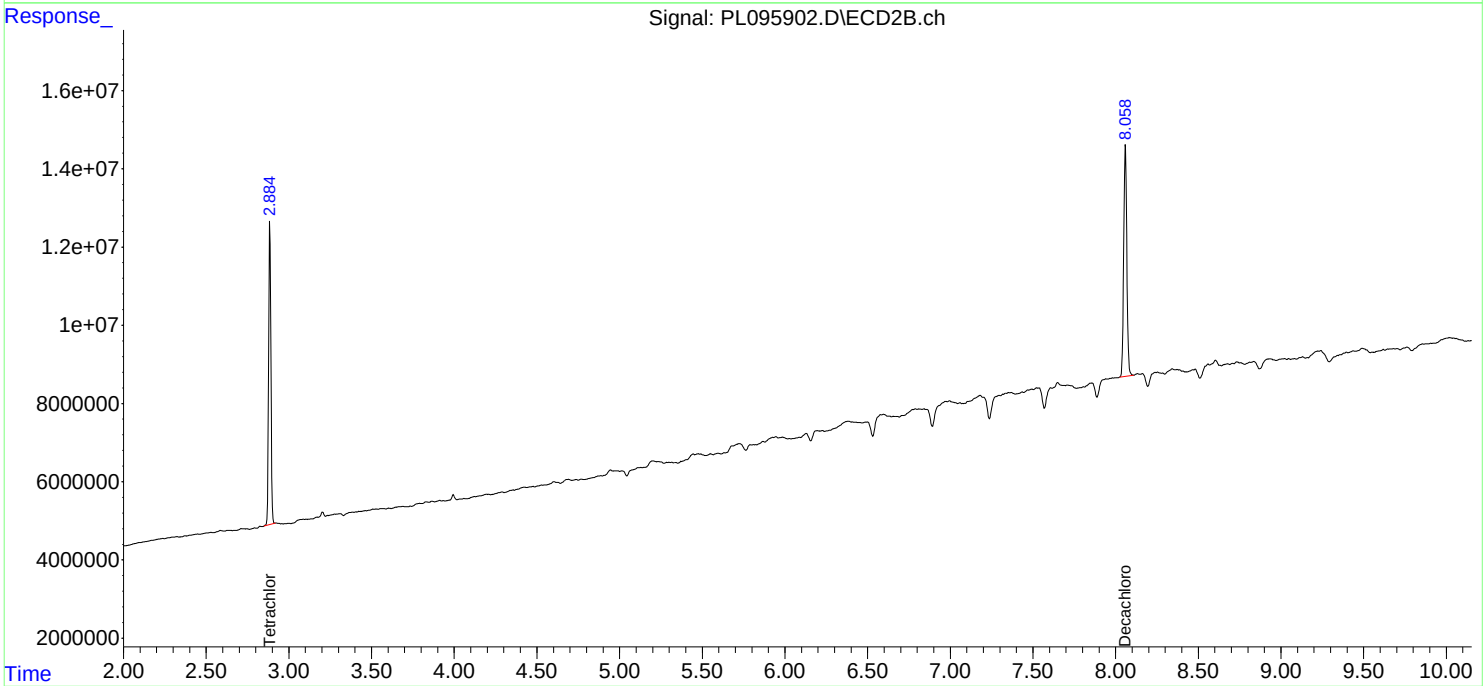
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL060325\
Data File : PL095902.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 18:10
Operator : AR\AJ
Sample : PB168264BL
Misc :
ALS Vial : 24 Sample Multiplier: 1

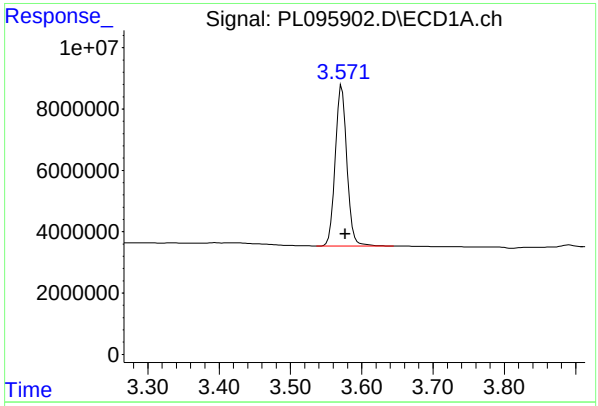
**Instrument :**
ECD_L
**ClientSampleId :**
PB168264BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 03:39:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



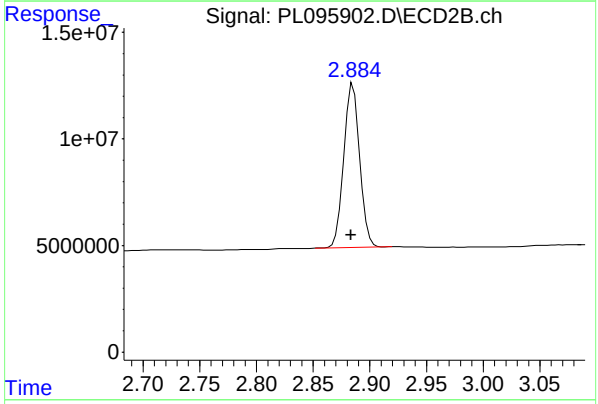






#1 Tetrachloro-m-xylene

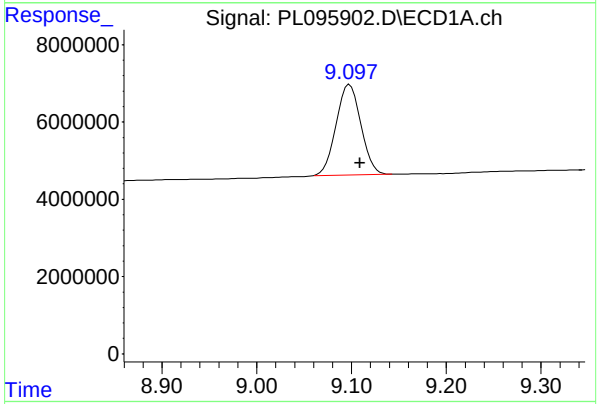
R.T.: 3.572 min
Delta R.T.: -0.005 min
Response: 59824314
Conc: 18.96 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PB168264BL



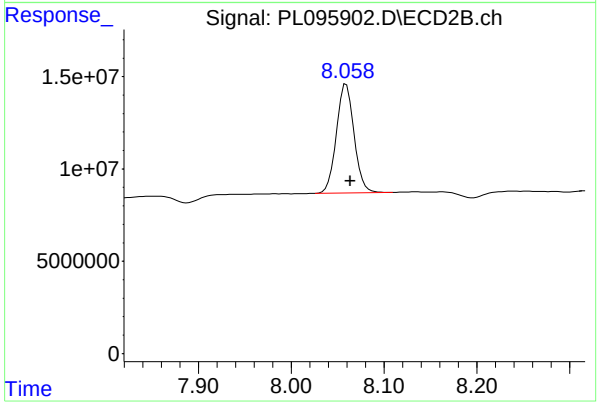

#1 Tetrachloro-m-xylene

R.T.: 2.885 min
Delta R.T.: 0.002 min
Response: 75028691
Conc: 19.17 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.098 min
Delta R.T.: -0.011 min
Response: 42546526
Conc: 18.06 ng/ml




#28 Decachlorobiphenyl

R.T.: 8.059 min
Delta R.T.: -0.004 min
Response: 78198340
Conc: 17.88 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL060425\
Data File : PL095917.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 12:07
Operator : AR\AJ
Sample : PB168264BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PB168264BS

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:41:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

| | | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|---|
| | | System Monitoring Compounds | | | | | | |
| 1) | SA | Tetrachlo... | 3.577 | 2.882 | 69630438 | 83635216 | 22.068 | 21.369 |
| 28) | SA | Decachlor... | 9.106 | 8.058 | 51809620 | 96608301 | 21.987 | 22.085 |
| | | Target Compounds | | | | | | |
| 2) | A | alpha-BHC | 4.029 | 3.392 | 273.0E6 | 326.3E6 | 56.315 | 55.700 |
| 3) | MA | gamma-BHC... | 4.361 | 3.726 | 249.6E6 | 308.9E6 | 55.813 | 55.147 |
| 4) | MA | Heptachlor | 4.959 | 4.078 | 206.2E6 | 300.6E6 | 54.472 | 53.593 |
| 5) | MB | Aldrin | 5.301 | 4.363 | 239.4E6 | 293.9E6 | 55.958 | 55.374 |
| 6) | B | beta-BHC | 4.549 | 4.021 | 107.0E6 | 132.0E6 | 54.280 | 53.298 |
| 7) | B | delta-BHC | 4.797 | 4.257 | 244.1E6 | 309.3E6 | 55.054 | 54.769 |
| 8) | B | Heptachlo... | 5.722 | 4.865 | 210.9E6 | 272.3E6 | 55.250 | 55.151 |
| 9) | A | Endosulfan I | 6.105 | 5.238 | 199.6E6 | 265.3E6 | 54.471 | 55.668 |
| 10) | B | gamma-Chl... | 5.976 | 5.118 | 214.1E6 | 293.0E6 | 55.000 | 55.786 |
| 11) | B | alpha-Chl... | 6.057 | 5.182 | 214.2E6 | 288.2E6 | 54.243 | 55.401 |
| 12) | B | 4,4'-DDE | 6.228 | 5.369 | 200.4E6 | 288.3E6 | 54.647 | 53.768 |
| 13) | MA | Dieldrin | 6.378 | 5.503 | 214.7E6 | 288.5E6 | 55.642 | 54.437 |
| 14) | MA | Endrin | 6.606 | 5.776 | 157.7E6 | 238.8E6 | 48.874 | 48.975m |
| 15) | B | Endosulfa... | 6.818 | 6.068 | 177.1E6 | 261.4E6 | 51.404 | 55.010 |
| 16) | A | 4,4'-DDD | 6.738 | 5.922 | 165.3E6 | 253.0E6 | 56.401 | 57.689 |
| 17) | MA | 4,4'-DDT | 7.053 | 6.175 | 133.2E6 | 226.7E6 | 49.246 | 47.398 |
| 18) | B | Endrin al... | 6.947 | 6.246 | 132.7E6 | 195.0E6 | 54.897 | 56.449 |
| 19) | B | Endosulfa... | 7.181 | 6.470 | 160.6E6 | 245.0E6 | 53.776 | 54.502 |
| 20) | A | Methoxychlor | 7.526 | 6.745 | 62825073 | 117.4E6 | 49.262 | 44.888 |
| 21) | B | Endrin ke... | 7.662 | 6.975 | 178.9E6 | 293.6E6 | 56.493 | 56.752 |
| 22) | | Mirex | 8.143 | 7.169 | 124.6E6 | 216.7E6 | 53.840 | 53.374 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

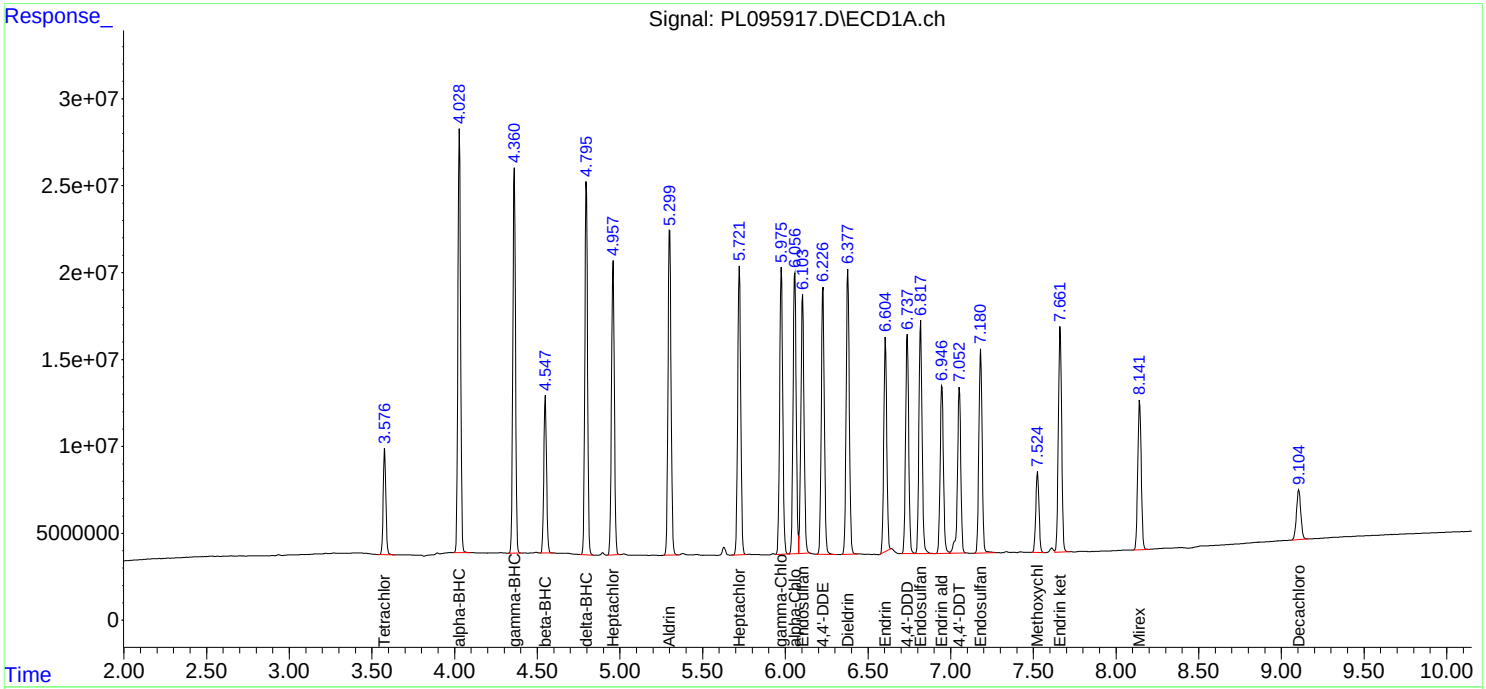
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL060425\
Data File : PL095917.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 12:07
Operator : AR\AJ
Sample : PB168264BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

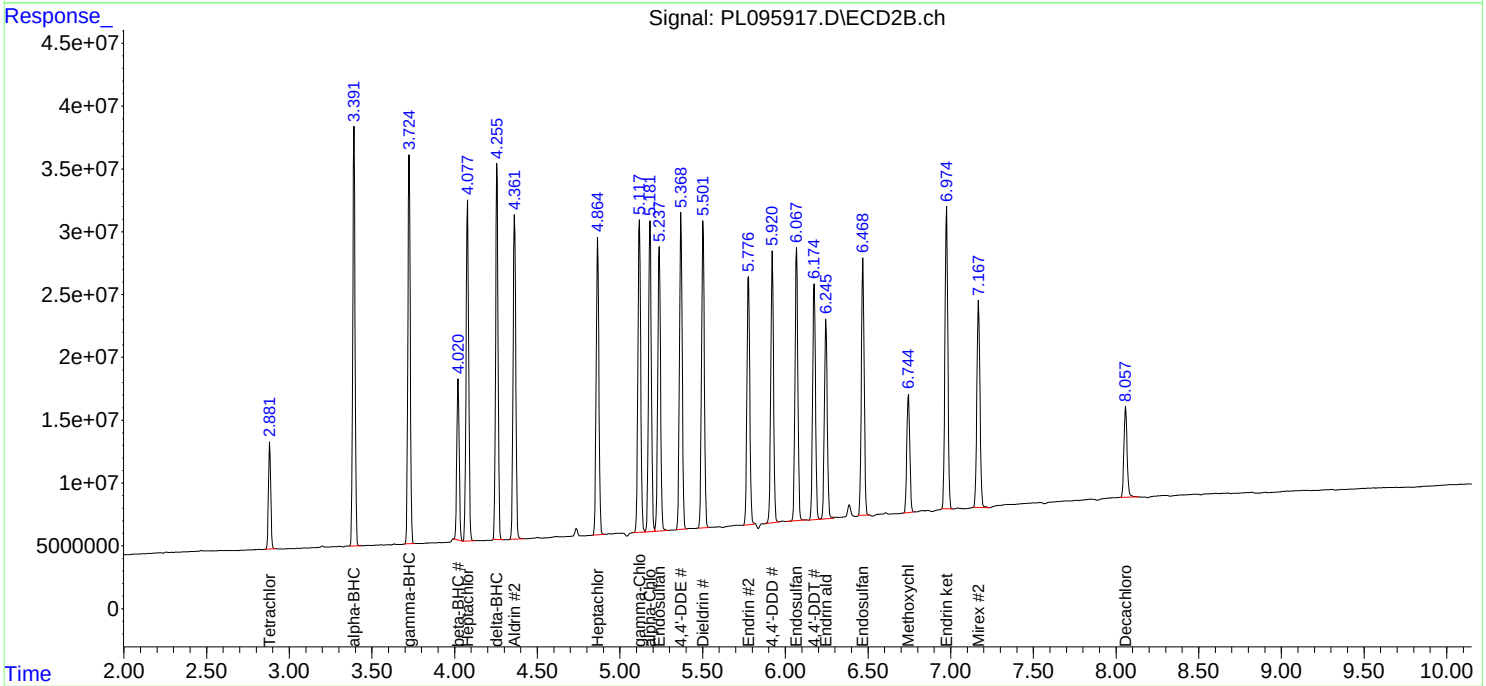
**Instrument :**
ECD_L
**ClientSampleId :**
PB168264BS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:41:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL060325\
Data File : PL095898.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 17:15
Operator : AR\AJ
Sample : Q2173-06MS
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
OR-400-CF-402B-COMP-23MS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 03:39:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

| | | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|---|
| | | System Monitoring Compounds | | | | | | |
| 1) | SA | Tetrachlo... | 3.572 | 2.886 | 58509111 | 73778723 | 18.543 | 18.850 |
| 28) | SA | Decachlor... | 9.099 | 8.060 | 41292066 | 71495810 | 17.524 | 16.344 |
| | | Target Compounds | | | | | | |
| 2) | A | alpha-BHC | 4.024 | 3.396 | 243.9E6 | 308.6E6 | 50.303 | 52.687 |
| 3) | MA | gamma-BHC... | 4.355 | 3.729 | 222.5E6 | 285.5E6 | 49.756 | 50.963 |
| 4) | MA | Heptachlor | 4.953 | 4.081 | 181.4E6 | 272.6E6 | 47.929 | 48.594 |
| 5) | MB | Aldrin | 5.295 | 4.366 | 191.3E6 | 251.3E6 | 44.716 | 47.346 |
| 6) | B | beta-BHC | 4.543 | 4.023 | 96082723 | 127.2E6 | 48.739 | 51.329m |
| 7) | B | delta-BHC | 4.791 | 4.260 | 221.7E6 | 286.9E6 | 50.004 | 50.796 |
| 8) | B | Heptachlo... | 5.716 | 4.868 | 182.1E6 | 247.8E6 | 47.710 | 50.179 |
| 9) | A | Endosulfan I | 6.099 | 5.240 | 172.1E6 | 233.7E6 | 46.967 | 49.045 |
| 10) | B | gamma-Chl... | 5.970 | 5.120 | 183.6E6 | 258.7E6 | 47.162 | 49.248 |
| 11) | B | alpha-Chl... | 6.052 | 5.185 | 182.5E6 | 254.1E6 | 46.213 | 48.843 |
| 12) | B | 4,4'-DDE | 6.221 | 5.371 | 169.6E6 | 252.1E6 | 46.235 | 47.006 |
| 13) | MA | Dieldrin | 6.373 | 5.505 | 183.9E6 | 252.0E6 | 47.644 | 47.549 |
| 14) | MA | Endrin | 6.600 | 5.779 | 144.6E6 | 217.5E6 | 44.823 | 44.602 |
| 15) | B | Endosulfa... | 6.812 | 6.070 | 154.6E6 | 229.1E6 | 44.856 | 48.223 |
| 16) | A | 4,4'-DDD | 6.732 | 5.923 | 136.1E6 | 213.8E6 | 46.448 | 48.753 |
| 17) | MA | 4,4'-DDT | 7.047 | 6.176 | 124.1E6 | 207.1E6 | 45.863 | 43.298 |
| 18) | B | Endrin al... | 6.941 | 6.248 | 116.5E6 | 167.1E6 | 48.203 | 48.368 |
| 19) | B | Endosulfa... | 7.176 | 6.471 | 138.6E6 | 207.5E6 | 46.419 | 46.163 |
| 20) | A | Methoxychlor | 7.520 | 6.747 | 57735485 | 108.9E6 | 45.271 | 41.623 |
| 21) | B | Endrin ke... | 7.657 | 6.977 | 152.1E6 | 234.9E6 | 48.018 | 45.397 |
| 22) | | Mirex | 8.138 | 7.170 | 106.6E6 | 176.4E6 | 46.063 | 43.452 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL060325\
Data File : PL095898.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 17:15
Operator : AR\AJ
Sample : Q2173-06MS
Misc :
ALS Vial : 20 Sample Multiplier: 1

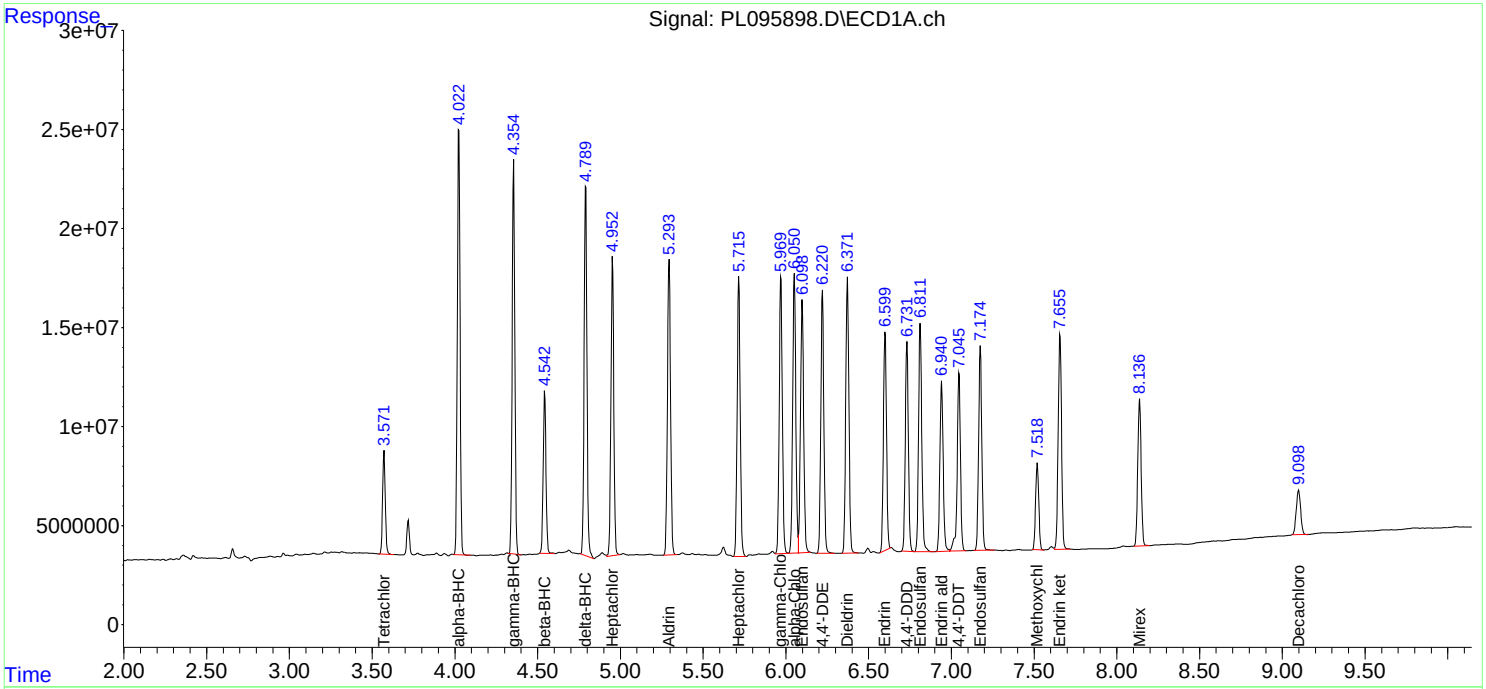
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 03:39:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

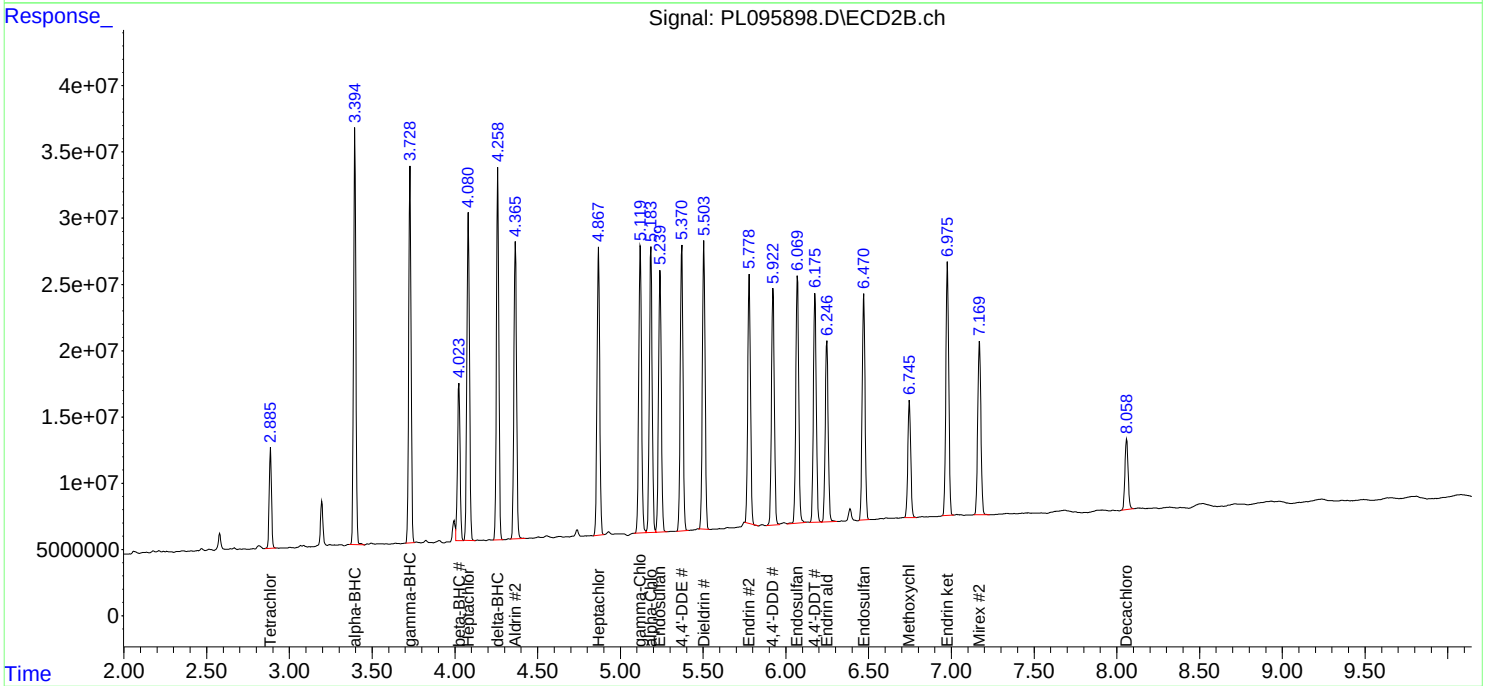
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

**Instrument :**
ECD_L
**ClientSampleId :**
OR-400-CF-402B-COMP-23MS

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 06/04/2025
Supervised By :mohammad ahmed 06/05/2025



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL060325\
Data File : PL095899.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 17:29
Operator : AR\AJ
Sample : Q2173-06MSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
OR-400-CF-402B-COMP-23MSD

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 03:39:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.573 | 2.885 | 59042256 | 74399020 | 18.712 | 19.009 |
| 28) | SA Decachlor... | 9.099 | 8.060 | 41242495 | 74886259 | 17.503 | 17.119 |
| | Target Compounds | | | | | | |
| 2) | A alpha-BHC | 4.024 | 3.395 | 247.3E6 | 312.1E6 | 51.009 | 53.276 |
| 3) | MA gamma-BHC... | 4.356 | 3.729 | 226.0E6 | 289.4E6 | 50.547 | 51.672 |
| 4) | MA Heptachlor | 4.953 | 4.081 | 183.0E6 | 275.7E6 | 48.342 | 49.156 |
| 5) | MB Aldrin | 5.295 | 4.366 | 193.8E6 | 252.6E6 | 45.307 | 47.594 |
| 6) | B beta-BHC | 4.543 | 4.023 | 97960535 | 129.6E6 | 49.692 | 52.295m |
| 7) | B delta-BHC | 4.791 | 4.259 | 222.8E6 | 289.8E6 | 50.245 | 51.324 |
| 8) | B Heptachlo... | 5.717 | 4.868 | 184.6E6 | 249.4E6 | 48.374 | 50.520 |
| 9) | A Endosulfan I | 6.100 | 5.240 | 173.4E6 | 239.0E6 | 47.321 | 50.162 |
| 10) | B gamma-Chl... | 5.971 | 5.120 | 184.0E6 | 263.7E6 | 47.285 | 50.198 |
| 11) | B alpha-Chl... | 6.052 | 5.184 | 183.5E6 | 259.1E6 | 46.482 | 49.798 |
| 12) | B 4,4'-DDE | 6.222 | 5.371 | 170.9E6 | 257.6E6 | 46.589 | 48.036 |
| 13) | MA Dieldrin | 6.373 | 5.505 | 185.5E6 | 256.5E6 | 48.059 | 48.394 |
| 14) | MA Endrin | 6.600 | 5.780 | 147.2E6 | 220.3E6 | 45.605 | 45.189 |
| 15) | B Endosulfa... | 6.813 | 6.069 | 157.3E6 | 230.7E6 | 45.650 | 48.545m |
| 16) | A 4,4'-DDD | 6.732 | 5.923 | 137.9E6 | 216.3E6 | 47.061 | 49.318 |
| 17) | MA 4,4'-DDT | 7.047 | 6.176 | 123.8E6 | 211.3E6 | 45.769 | 44.191 |
| 18) | B Endrin al... | 6.942 | 6.248 | 117.0E6 | 172.4E6 | 48.406 | 49.898 |
| 19) | B Endosulfa... | 7.176 | 6.471 | 139.0E6 | 214.4E6 | 46.539 | 47.703 |
| 20) | A Methoxychlor | 7.520 | 6.747 | 58348964 | 109.5E6 | 45.752 | 41.863 |
| 21) | B Endrin ke... | 7.657 | 6.977 | 152.9E6 | 242.1E6 | 48.289 | 46.794 |
| 22) | Mirex | 8.138 | 7.170 | 107.2E6 | 178.4E6 | 46.335 | 43.924 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

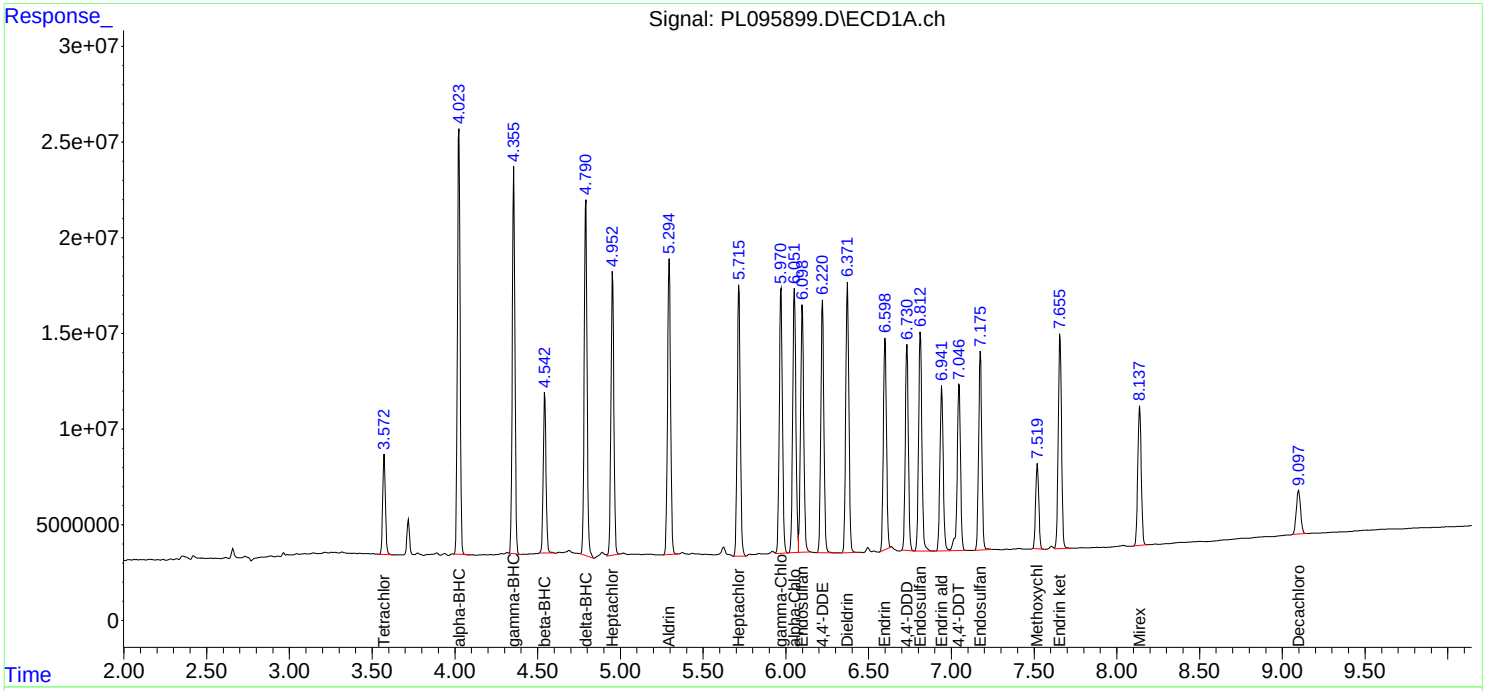
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL060325\
Data File : PL095899.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 17:29
Operator : AR\AJ
Sample : Q2173-06MSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

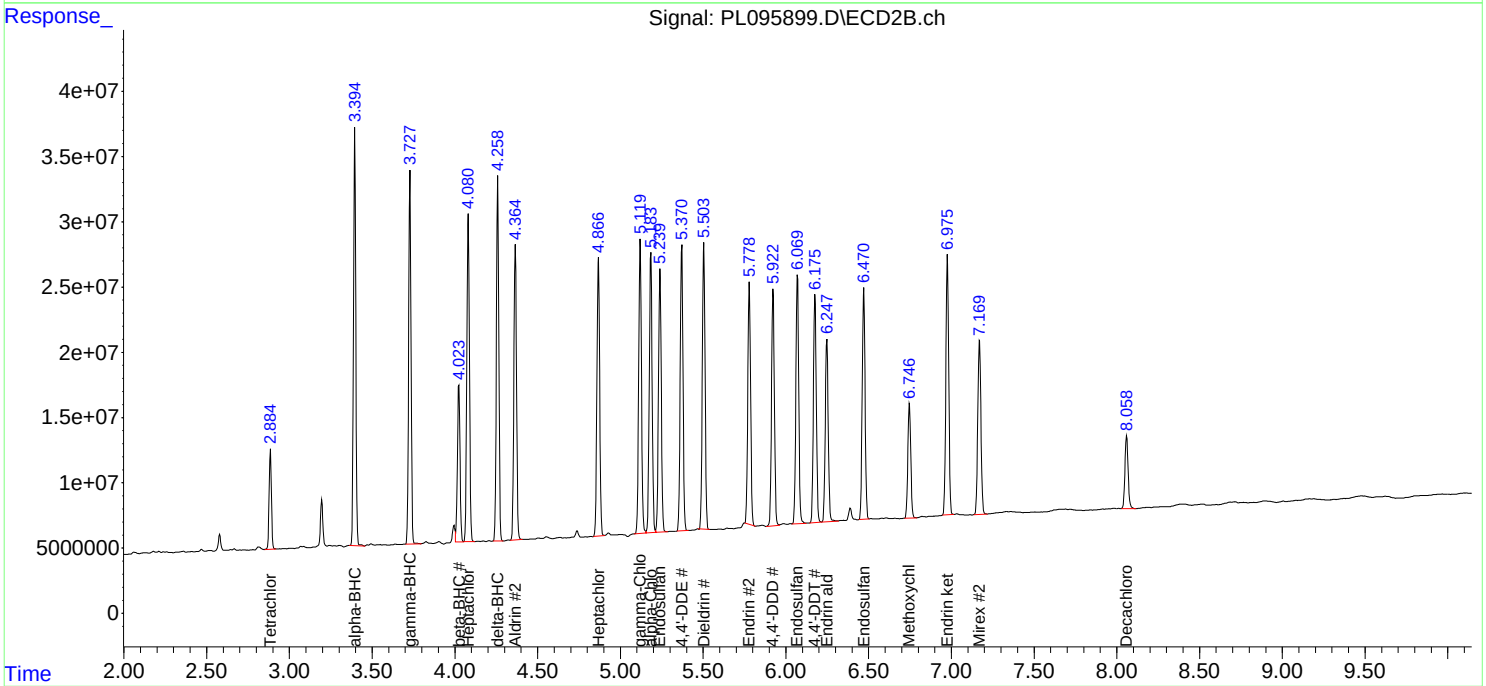
**Instrument :**
ECD_L
**ClientSampleId :**
OR-400-CF-402B-COMP-23MSD

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 03:39:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



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

# Manual Integration Report

| Sequence: | PL052125 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PEM | PL095733.D | 4,4"-DDD | Abdul | 5/22/2025 8:03:45 AM | mohammad | 5/23/2025 5:17:22 | Peak Integrated by Software |
| PEM | PL095733.D | 4,4"-DDD #2 | Abdul | 5/22/2025 8:03:45 AM | mohammad | 5/23/2025 5:17:22 | Peak Integrated by Software |
| PEM | PL095733.D | beta-BHC #2 | Abdul | 5/22/2025 8:03:45 AM | mohammad | 5/23/2025 5:17:22 | Peak Integrated by Software |
| PEM | PL095733.D | Endrin aldehyde | Abdul | 5/22/2025 8:03:45 AM | mohammad | 5/23/2025 5:17:22 | Peak Integrated by Software |
| PEM | PL095733.D | Endrin aldehyde #2 | Abdul | 5/22/2025 8:03:45 AM | mohammad | 5/23/2025 5:17:22 | Peak Integrated by Software |
| PEM | PL095733.D | Endrin ketone | Abdul | 5/22/2025 8:03:45 AM | mohammad | 5/23/2025 5:17:22 | Peak Integrated by Software |
| PEM | PL095733.D | Endrin ketone #2 | Abdul | 5/22/2025 8:03:45 AM | mohammad | 5/23/2025 5:17:22 | Peak Integrated by Software |
| RESCHK | PL095734.D | Endosulfan I #2 | Abdul | 5/22/2025 8:03:50 AM | mohammad | 5/23/2025 5:17:22 | Peak Integrated by Software |
| RESCHK | PL095734.D | Endrin ketone | Abdul | 5/22/2025 8:03:50 AM | mohammad | 5/23/2025 5:17:22 | Peak Integrated by Software |
| PSTDICC025 | PL095738.D | Endrin ketone | Abdul | 5/22/2025 8:03:56 AM | mohammad | 5/23/2025 5:17:22 | Peak Integrated by Software |
| PSTDICC005 | PL095739.D | beta-BHC #2 | Abdul | 5/22/2025 8:04:00 AM | mohammad | 5/23/2025 5:17:22 | Peak Integrated by Software |
| PSTDICC005 | PL095739.D | Endosulfan II | Abdul | 5/22/2025 8:04:00 AM | mohammad | 5/23/2025 5:17:22 | Peak Integrated by Software |
| PSTDICC005 | PL095739.D | Endrin ketone | Abdul | 5/22/2025 8:04:00 AM | mohammad | 5/23/2025 5:17:22 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PL052125 | Instrument | ECD_I |
|---|---|---|---|

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

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# Manual Integration Report

| Sequence: | pl060325 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PEM | PL095879.D | 4,4"-DDD | Abdul | 6/4/2025 9:55:48 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PEM | PL095879.D | Endrin #2 | Abdul | 6/4/2025 9:55:48 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PEM | PL095879.D | Endrin aldehyde | Abdul | 6/4/2025 9:55:48 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PEM | PL095879.D | Endrin aldehyde #2 | Abdul | 6/4/2025 9:55:48 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PSTDCCC050 | PL095880.D | Endosulfan II #2 | Abdul | 6/4/2025 9:55:52 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PSTDCCC050 | PL095880.D | Endrin #2 | Abdul | 6/4/2025 9:55:52 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PSTDCCC050 | PL095897.D | 4,4"-DDD #2 | Abdul | 6/4/2025 9:57:45 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PSTDCCC050 | PL095897.D | Aldrin #2 | Abdul | 6/4/2025 9:57:45 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PSTDCCC050 | PL095897.D | Endrin #2 | Abdul | 6/4/2025 9:57:45 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PSTDCCC050 | PL095897.D | Mirex #2 | Abdul | 6/4/2025 9:57:45 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| Q2173-06MS | PL095898.D | beta-BHC #2 | Abdul | 6/4/2025 9:57:49 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| Q2173-06MSD | PL095899.D | beta-BHC #2 | Abdul | 6/4/2025 9:57:53 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| Q2173-06MSD | PL095899.D | Endosulfan II #2 | Abdul | 6/4/2025 9:57:53 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | pl060325 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PEM | PL095906.D | 4,4"-DDD | Abdul | 6/4/2025 9:58:03 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PEM | PL095906.D | 4,4"-DDE | Abdul | 6/4/2025 9:58:03 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PEM | PL095906.D | 4,4"-DDE #2 | Abdul | 6/4/2025 9:58:03 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PEM | PL095906.D | Endrin #2 | Abdul | 6/4/2025 9:58:03 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PEM | PL095906.D | Endrin aldehyde | Abdul | 6/4/2025 9:58:03 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PSTDCCC050 | PL095907.D | 4,4"-DDE #2 | Abdul | 6/4/2025 9:58:07 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PSTDCCC050 | PL095907.D | Aldrin #2 | Abdul | 6/4/2025 9:58:07 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PSTDCCC050 | PL095907.D | Endrin #2 | Abdul | 6/4/2025 9:58:07 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PSTDCCC050 | PL095907.D | gamma-Chlordane | Abdul | 6/4/2025 9:58:07 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| Q2177-07 | PL095910.D | Dieldrin | Abdul | 6/4/2025 9:58:14 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| Q2177-07 | PL095910.D | Dieldrin #2 | Abdul | 6/4/2025 9:58:14 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PSTDCCC050 | PL095912.D | 4,4"-DDE #2 | Abdul | 6/4/2025 9:58:19 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PSTDCCC050 | PL095912.D | Aldrin #2 | Abdul | 6/4/2025 9:58:19 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | pl060325 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PSTDCCC050 | PL095912.D | Endrin #2 | Abdul | 6/4/2025 9:58:19 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |
| PSTDCCC050 | PL095912.D | gamma-Chlordane | Abdul | 6/4/2025 9:58:19 AM | mohammad | 6/5/2025 1:35:39 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | pl060425 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PEM | PL095915.D | 4,4"-DDD | Abdul | 6/5/2025 8:34:35 AM | mohammad | 6/6/2025 2:02:26 | Peak Integrated by Software |
| PEM | PL095915.D | 4,4"-DDE | Abdul | 6/5/2025 8:34:35 AM | mohammad | 6/6/2025 2:02:26 | Peak Integrated by Software |
| PEM | PL095915.D | 4,4"-DDE #2 | Abdul | 6/5/2025 8:34:35 AM | mohammad | 6/6/2025 2:02:26 | Peak Integrated by Software |
| PEM | PL095915.D | Endrin | Abdul | 6/5/2025 8:34:35 AM | mohammad | 6/6/2025 2:02:26 | Peak Integrated by Software |
| PEM | PL095915.D | Endrin #2 | Abdul | 6/5/2025 8:34:35 AM | mohammad | 6/6/2025 2:02:26 | Peak Integrated by Software |
| PEM | PL095915.D | Endrin aldehyde | Abdul | 6/5/2025 8:34:35 AM | mohammad | 6/6/2025 2:02:26 | Peak Integrated by Software |
| PB168264BS | PL095917.D | Endrin #2 | Abdul | 6/5/2025 8:34:38 AM | mohammad | 6/6/2025 2:02:26 | Peak Integrated by Software |
| PSTDCCC050 | PL095928.D | gamma-Chlordane | Abdul | 6/5/2025 8:35:01 AM | mohammad | 6/6/2025 2:02:26 | Peak Integrated by Software |
| PSTDCCC050 | PL095935.D | 4,4"-DDE #2 | Abdul | 6/5/2025 8:35:24 AM | mohammad | 6/6/2025 2:02:26 | Peak Integrated by Software |

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL052125

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 5/22/2025 8:04:32 AM | | |
| Supervise By | mohammad | Supervise On | 5/23/2025 5:17:22 AM | | |
| SubDirectory | PL052125 | HP Acquire Method | | HP Processing Method | pl052125 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24433,PP24095 |
| Initial Calibration Stds | PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284 |
| CCC | PP24261,PP24273,PP24279,PP24284 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24273,PP24279,PP24284 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PL095731.D | 21 May 2025 10:33 | AR\AJ | Ok |
| 2 | I.BLK | PL095732.D | 21 May 2025 10:47 | AR\AJ | Ok |
| 3 | PEM | PL095733.D | 21 May 2025 11:01 | AR\AJ | Ok,M |
| 4 | RESCHK | PL095734.D | 21 May 2025 11:14 | AR\AJ | Ok,M |
| 5 | PSTDICC100 | PL095735.D | 21 May 2025 11:35 | AR\AJ | Ok |
| 6 | PSTDICC075 | PL095736.D | 21 May 2025 11:48 | AR\AJ | Ok |
| 7 | PSTDICC050 | PL095737.D | 21 May 2025 12:02 | AR\AJ | Ok |
| 8 | PSTDICC025 | PL095738.D | 21 May 2025 12:15 | AR\AJ | Ok,M |
| 9 | PSTDICC005 | PL095739.D | 21 May 2025 12:29 | AR\AJ | Ok,M |
| 10 | PCHLORICC1000 | PL095740.D | 21 May 2025 12:42 | AR\AJ | Ok |
| 11 | PCHLORICC750 | PL095741.D | 21 May 2025 12:56 | AR\AJ | Ok |
| 12 | PCHLORICC500 | PL095742.D | 21 May 2025 13:10 | AR\AJ | Ok |
| 13 | PCHLORICC250 | PL095743.D | 21 May 2025 13:23 | AR\AJ | Ok |
| 14 | PCHLORICC050 | PL095744.D | 21 May 2025 13:37 | AR\AJ | Ok,M |
| 15 | PTOXICC1000 | PL095745.D | 21 May 2025 13:50 | AR\AJ | Ok |
| 16 | PTOXICC750 | PL095746.D | 21 May 2025 14:04 | AR\AJ | Ok |
| 17 | PTOXICC500 | PL095747.D | 21 May 2025 14:18 | AR\AJ | Ok |
| 18 | PTOXICC250 | PL095748.D | 21 May 2025 14:31 | AR\AJ | Ok |
| 19 | PTOXICC100 | PL095749.D | 21 May 2025 14:45 | AR\AJ | Ok,M |
| 20 | PSTDICV050 | PL095750.D | 21 May 2025 14:58 | AR\AJ | Ok |
| 21 | PCHLORICV500 | PL095751.D | 21 May 2025 15:12 | AR\AJ | Ok |

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Fax : 908 789 8922

**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL052125

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 5/22/2025 8:04:32 AM | | |
| Supervise By | mohammad | Supervise On | 5/23/2025 5:17:22 AM | | |
| SubDirectory | PL052125 | HP Acquire Method | | HP Processing Method | pl052125 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24433,PP24095 |
| Initial Calibration Stds | PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284 |
| CCC | PP24261,PP24273,PP24279,PP24284 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24273,PP24279,PP24284 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | PTOXICV500 | PL095752.D | 21 May 2025 15:26 | AR\AJ | Ok |

M : Manual Integration

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 6/4/2025 10:00:00 AM | | |
| Supervise By | mohammad | Supervise On | 6/5/2025 1:35:39 AM | | |
| SubDirectory | PL060325 | HP Acquire Method | | HP Processing Method | pl052125 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24433,PP24095 |
| Initial Calibration Stds | PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284 |
| CCC | PP24261,PP24273,PP24279,PP24284 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24273,PP24279,PP24284 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PL095877.D | 03 Jun 2025 09:15 | AR\AJ | Ok |
| 2 | I.BLK | PL095878.D | 03 Jun 2025 09:28 | AR\AJ | Ok |
| 3 | PEM | PL095879.D | 03 Jun 2025 09:42 | AR\AJ | Ok,M |
| 4 | PSTDCCC050 | PL095880.D | 03 Jun 2025 09:56 | AR\AJ | Ok,M |
| 5 | PB168253BL | PL095881.D | 03 Jun 2025 12:49 | AR\AJ | Ok |
| 6 | PB168253BS | PL095882.D | 03 Jun 2025 13:03 | AR\AJ | Ok |
| 7 | Q2185-01 | PL095883.D | 03 Jun 2025 13:47 | AR\AJ | Ok,M |
| 8 | Q2185-05 | PL095884.D | 03 Jun 2025 14:01 | AR\AJ | Ok,M |
| 9 | Q2176-01 | PL095885.D | 03 Jun 2025 14:14 | AR\AJ | Ok,M |
| 10 | Q2176-02 | PL095886.D | 03 Jun 2025 14:28 | AR\AJ | Ok,M |
| 11 | Q2176-03 | PL095887.D | 03 Jun 2025 14:42 | AR\AJ | Ok,M |
| 12 | Q2176-03MS | PL095888.D | 03 Jun 2025 14:55 | AR\AJ | Ok,M |
| 13 | Q2176-03MSD | PL095889.D | 03 Jun 2025 15:09 | AR\AJ | Ok,M |
| 14 | Q2176-04 | PL095890.D | 03 Jun 2025 15:22 | AR\AJ | Ok,M |
| 15 | Q2176-05 | PL095891.D | 03 Jun 2025 15:36 | AR\AJ | Ok,M |
| 16 | Q2176-06 | PL095892.D | 03 Jun 2025 15:50 | AR\AJ | Ok |
| 17 | Q2176-07 | PL095893.D | 03 Jun 2025 16:03 | AR\AJ | Ok,M |
| 18 | Q2176-08 | PL095894.D | 03 Jun 2025 16:17 | AR\AJ | Ok |
| 19 | Q2173-06 | PL095895.D | 03 Jun 2025 16:34 | AR\AJ | Ok,M |
| 20 | I.BLK | PL095896.D | 03 Jun 2025 16:48 | AR\AJ | Ok |
| 21 | PSTDCCC050 | PL095897.D | 03 Jun 2025 17:01 | AR\AJ | Ok,M |

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Fax : 908 789 8922

**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 6/4/2025 10:00:00 AM | | |
| Supervise By | mohammad | Supervise On | 6/5/2025 1:35:39 AM | | |
| SubDirectory | PL060325 | HP Acquire Method | | HP Processing Method | pl052125 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24433,PP24095 |
| Initial Calibration Stds | PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284 |
| CCC | PP24261,PP24273,PP24279,PP24284 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24273,PP24279,PP24284 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2173-06MS | PL095898.D | 03 Jun 2025 17:15 | AR\AJ | Ok,M |
| 23 | Q2173-06MSD | PL095899.D | 03 Jun 2025 17:29 | AR\AJ | Ok,M |
| 24 | Q2173-12 | PL095900.D | 03 Jun 2025 17:42 | AR\AJ | Ok |
| 25 | Q2173-18 | PL095901.D | 03 Jun 2025 17:57 | AR\AJ | Ok,M |
| 26 | PB168264BL | PL095902.D | 03 Jun 2025 18:10 | AR\AJ | Ok |
| 27 | PB168264BS | PL095903.D | 03 Jun 2025 18:24 | AR\AJ | Not Ok |
| 28 | PB168224TB | PL095904.D | 03 Jun 2025 18:38 | AR\AJ | Ok |
| 29 | I.BLK | PL095905.D | 03 Jun 2025 18:51 | AR\AJ | Ok |
| 30 | PEM | PL095906.D | 03 Jun 2025 19:05 | AR\AJ | Ok,M |
| 31 | PSTDCCC050 | PL095907.D | 03 Jun 2025 19:18 | AR\AJ | Ok,M |
| 32 | Q2177-03 | PL095908.D | 03 Jun 2025 19:32 | AR\AJ | Ok |
| 33 | Q2177-05 | PL095909.D | 03 Jun 2025 19:46 | AR\AJ | Ok |
| 34 | Q2177-07 | PL095910.D | 03 Jun 2025 19:59 | AR\AJ | Ok,M |
| 35 | I.BLK | PL095911.D | 03 Jun 2025 20:13 | AR\AJ | Ok |
| 36 | PSTDCCC050 | PL095912.D | 03 Jun 2025 20:27 | AR\AJ | Ok,M |

M : Manual Integration

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 6/5/2025 8:35:48 AM | | |
| Supervise By | mohammad | Supervise On | 6/6/2025 2:02:27 AM | | |
| SubDirectory | PL060425 | HP Acquire Method | | HP Processing Method | pl052125 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24433,PP24095 |
| Initial Calibration Stds | PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284 |
| CCC | PP24261,PP24273,PP24279,PP24284 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24273,PP24279,PP24284 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PL095913.D | 04 Jun 2025 10:45 | AR\AJ | Ok |
| 2 | I.BLK | PL095914.D | 04 Jun 2025 10:59 | AR\AJ | Ok |
| 3 | PEM | PL095915.D | 04 Jun 2025 11:12 | AR\AJ | Ok,M |
| 4 | PSTDCCC050 | PL095916.D | 04 Jun 2025 11:26 | AR\AJ | Ok |
| 5 | PB168264BS | PL095917.D | 04 Jun 2025 12:07 | AR\AJ | Ok,M |
| 6 | I.BLK | PL095918.D | 04 Jun 2025 13:08 | AR\AJ | Ok |
| 7 | PSTDCCC050 | PL095919.D | 04 Jun 2025 13:22 | AR\AJ | Ok |
| 8 | PB168289BL | PL095920.D | 04 Jun 2025 15:57 | AR\AJ | Ok |
| 9 | PB168289BS | PL095921.D | 04 Jun 2025 16:11 | AR\AJ | Ok |
| 10 | Q2182-01 | PL095922.D | 04 Jun 2025 16:24 | AR\AJ | Ok,M |
| 11 | Q2199-01 | PL095923.D | 04 Jun 2025 16:38 | AR\AJ | Ok,M |
| 12 | Q2199-03 | PL095924.D | 04 Jun 2025 16:52 | AR\AJ | Ok,M |
| 13 | Q2199-05 | PL095925.D | 04 Jun 2025 17:05 | AR\AJ | Dilution |
| 14 | PB168289BS | PL095926.D | 04 Jun 2025 17:19 | AR\AJ | Not Ok |
| 15 | I.BLK | PL095927.D | 04 Jun 2025 17:33 | AR\AJ | Ok |
| 16 | PSTDCCC050 | PL095928.D | 04 Jun 2025 17:46 | AR\AJ | Ok,M |
| 17 | Q2194-01 | PL095929.D | 04 Jun 2025 18:00 | AR\AJ | Not Ok |
| 18 | Q2194-01MS | PL095930.D | 04 Jun 2025 18:14 | AR\AJ | Ok,M |
| 19 | Q2194-01MSD | PL095931.D | 04 Jun 2025 18:27 | AR\AJ | Ok,M |
| 20 | Q2194-03 | PL095932.D | 04 Jun 2025 18:41 | AR\AJ | Ok,M |
| 21 | Q2195-01 | PL095933.D | 04 Jun 2025 18:55 | AR\AJ | Ok,M |

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 6/5/2025 8:35:48 AM | | |
| Supervise By | mohammad | Supervise On | 6/6/2025 2:02:27 AM | | |
| SubDirectory | PL060425 | HP Acquire Method | | HP Processing Method | pl052125 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24433,PP24095 |
| Initial Calibration Stds | PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284 |
| CCC | PP24261,PP24273,PP24279,PP24284 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24273,PP24279,PP24284 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | I.BLK | PL095934.D | 04 Jun 2025 19:22 | AR\AJ | Ok |
| 23 | PSTDCCC050 | PL095935.D | 04 Jun 2025 20:44 | AR\AJ | Ok,M |

M : Manual Integration

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL052125

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 5/22/2025 8:04:32 AM | | |
| Supervise By | mohammad | Supervise On | 5/23/2025 5:17:22 AM | | |
| SubDirectory | PL052125 | HP Acquire Method | | HP Processing Method | pl052125 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24433,PP24095 |
| Initial Calibration Stds | PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284 |
| CCC | PP24261,PP24273,PP24279,PP24284 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24273,PP24279,PP24284 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PL095731.D | 21 May 2025 10:33 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PL095732.D | 21 May 2025 10:47 | | AR\AJ | Ok |
| 3 | PEM | PEM | PL095733.D | 21 May 2025 11:01 | | AR\AJ | Ok,M |
| 4 | RESCHK | RESCHK | PL095734.D | 21 May 2025 11:14 | | AR\AJ | Ok,M |
| 5 | PSTDICC100 | PSTDICC100 | PL095735.D | 21 May 2025 11:35 | | AR\AJ | Ok |
| 6 | PSTDICC075 | PSTDICC075 | PL095736.D | 21 May 2025 11:48 | | AR\AJ | Ok |
| 7 | PSTDICC050 | PSTDICC050 | PL095737.D | 21 May 2025 12:02 | | AR\AJ | Ok |
| 8 | PSTDICC025 | PSTDICC025 | PL095738.D | 21 May 2025 12:15 | | AR\AJ | Ok,M |
| 9 | PSTDICC005 | PSTDICC005 | PL095739.D | 21 May 2025 12:29 | | AR\AJ | Ok,M |
| 10 | PCHLORICC1000 | PCHLORICC1000 | PL095740.D | 21 May 2025 12:42 | | AR\AJ | Ok |
| 11 | PCHLORICC750 | PCHLORICC750 | PL095741.D | 21 May 2025 12:56 | | AR\AJ | Ok |
| 12 | PCHLORICC500 | PCHLORICC500 | PL095742.D | 21 May 2025 13:10 | | AR\AJ | Ok |
| 13 | PCHLORICC250 | PCHLORICC250 | PL095743.D | 21 May 2025 13:23 | | AR\AJ | Ok |
| 14 | PCHLORICC050 | PCHLORICC050 | PL095744.D | 21 May 2025 13:37 | | AR\AJ | Ok,M |
| 15 | PTOXICC1000 | PTOXICC1000 | PL095745.D | 21 May 2025 13:50 | | AR\AJ | Ok |
| 16 | PTOXICC750 | PTOXICC750 | PL095746.D | 21 May 2025 14:04 | | AR\AJ | Ok |
| 17 | PTOXICC500 | PTOXICC500 | PL095747.D | 21 May 2025 14:18 | | AR\AJ | Ok |
| 18 | PTOXICC250 | PTOXICC250 | PL095748.D | 21 May 2025 14:31 | | AR\AJ | Ok |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL052125

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 5/22/2025 8:04:32 AM | | |
| Supervise By | mohammad | Supervise On | 5/23/2025 5:17:22 AM | | |
| SubDirectory | PL052125 | HP Acquire Method | | HP Processing Method | pl052125 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24433,PP24095 |
| Initial Calibration Stds | PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284 |
| CCC | PP24261,PP24273,PP24279,PP24284 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24273,PP24279,PP24284 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | PTOXICC100 | PTOXICC100 | PL095749.D | 21 May 2025 14:45 | | AR\AJ | Ok,M |
| 20 | PSTDICV050 | ICVPL052125 | PL095750.D | 21 May 2025 14:58 | | AR\AJ | Ok |
| 21 | PCHLORICV500 | ICVPL052125CHLOR | PL095751.D | 21 May 2025 15:12 | | AR\AJ | Ok |
| 22 | PTOXICV500 | ICVPL052125TOX | PL095752.D | 21 May 2025 15:26 | | AR\AJ | Ok |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 6/4/2025 10:00:00 AM | | |
| Supervise By | mohammad | Supervise On | 6/5/2025 1:35:39 AM | | |
| SubDirectory | PL060325 | HP Acquire Method | | HP Processing Method | pl052125 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24433,PP24095 |
| Initial Calibration Stds | PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284 |
| CCC | PP24261,PP24273,PP24279,PP24284 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24273,PP24279,PP24284 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PL095877.D | 03 Jun 2025 09:15 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PL095878.D | 03 Jun 2025 09:28 | | AR\AJ | Ok |
| 3 | PEM | PEM | PL095879.D | 03 Jun 2025 09:42 | | AR\AJ | Ok,M |
| 4 | PSTDCCC050 | PSTDCCC050 | PL095880.D | 03 Jun 2025 09:56 | | AR\AJ | Ok,M |
| 5 | PB168253BL | PB168253BL | PL095881.D | 03 Jun 2025 12:49 | | AR\AJ | Ok |
| 6 | PB168253BS | PB168253BS | PL095882.D | 03 Jun 2025 13:03 | | AR\AJ | Ok |
| 7 | Q2185-01 | TP02-MHB-WC | PL095883.D | 03 Jun 2025 13:47 | | AR\AJ | Ok,M |
| 8 | Q2185-05 | TP01-MHA-WC | PL095884.D | 03 Jun 2025 14:01 | | AR\AJ | Ok,M |
| 9 | Q2176-01 | TP-46 | PL095885.D | 03 Jun 2025 14:14 | | AR\AJ | Ok,M |
| 10 | Q2176-02 | TP-56 | PL095886.D | 03 Jun 2025 14:28 | | AR\AJ | Ok,M |
| 11 | Q2176-03 | TP-25 | PL095887.D | 03 Jun 2025 14:42 | | AR\AJ | Ok,M |
| 12 | Q2176-03MS | TP-25MS | PL095888.D | 03 Jun 2025 14:55 | | AR\AJ | Ok,M |
| 13 | Q2176-03MSD | TP-25MSD | PL095889.D | 03 Jun 2025 15:09 | | AR\AJ | Ok,M |
| 14 | Q2176-04 | TP-26 | PL095890.D | 03 Jun 2025 15:22 | | AR\AJ | Ok,M |
| 15 | Q2176-05 | TP-28 | PL095891.D | 03 Jun 2025 15:36 | | AR\AJ | Ok,M |
| 16 | Q2176-06 | TP-27 | PL095892.D | 03 Jun 2025 15:50 | | AR\AJ | Ok |
| 17 | Q2176-07 | TP-31 | PL095893.D | 03 Jun 2025 16:03 | | AR\AJ | Ok,M |
| 18 | Q2176-08 | TP-65 | PL095894.D | 03 Jun 2025 16:17 | | AR\AJ | Ok |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 6/4/2025 10:00:00 AM | | |
| Supervise By | mohammad | Supervise On | 6/5/2025 1:35:39 AM | | |
| SubDirectory | PL060325 | HP Acquire Method | | HP Processing Method | pl052125 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24433,PP24095 |
| Initial Calibration Stds | PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284 |
| CCC | PP24261,PP24273,PP24279,PP24284 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24273,PP24279,PP24284 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2173-06 | OR-400-CF-402B-COM | PL095895.D | 03 Jun 2025 16:34 | | AR\AJ | Ok,M |
| 20 | I.BLK | I.BLK | PL095896.D | 03 Jun 2025 16:48 | | AR\AJ | Ok |
| 21 | PSTDCCC050 | PSTDCCC050 | PL095897.D | 03 Jun 2025 17:01 | | AR\AJ | Ok,M |
| 22 | Q2173-06MS | OR-400-CF-402B-COM | PL095898.D | 03 Jun 2025 17:15 | | AR\AJ | Ok,M |
| 23 | Q2173-06MSD | OR-400-CF-402B-COM | PL095899.D | 03 Jun 2025 17:29 | | AR\AJ | Ok,M |
| 24 | Q2173-12 | OR-400-CF-402B-COM | PL095900.D | 03 Jun 2025 17:42 | | AR\AJ | Ok |
| 25 | Q2173-18 | OR-400-CF-402B-COM | PL095901.D | 03 Jun 2025 17:57 | DCB high in 2nd column | AR\AJ | Ok,M |
| 26 | PB168264BL | PB168264BL | PL095902.D | 03 Jun 2025 18:10 | | AR\AJ | Ok |
| 27 | PB168264BS | PB168264BS | PL095903.D | 03 Jun 2025 18:24 | Looks like hexan | AR\AJ | Not Ok |
| 28 | PB168224TB | PB168224TB | PL095904.D | 03 Jun 2025 18:38 | | AR\AJ | Ok |
| 29 | I.BLK | I.BLK | PL095905.D | 03 Jun 2025 18:51 | | AR\AJ | Ok |
| 30 | PEM | PEM | PL095906.D | 03 Jun 2025 19:05 | | AR\AJ | Ok,M |
| 31 | PSTDCCC050 | PSTDCCC050 | PL095907.D | 03 Jun 2025 19:18 | | AR\AJ | Ok,M |
| 32 | Q2177-03 | B-187-SB01 | PL095908.D | 03 Jun 2025 19:32 | | AR\AJ | Ok |
| 33 | Q2177-05 | B-187-SB02 | PL095909.D | 03 Jun 2025 19:46 | | AR\AJ | Ok |
| 34 | Q2177-07 | B-202-SB01 | PL095910.D | 03 Jun 2025 19:59 | | AR\AJ | Ok,M |
| 35 | I.BLK | I.BLK | PL095911.D | 03 Jun 2025 20:13 | | AR\AJ | Ok |
| 36 | PSTDCCC050 | PSTDCCC050 | PL095912.D | 03 Jun 2025 20:27 | | AR\AJ | Ok,M |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 6/5/2025 8:35:48 AM | | |
| Supervise By | mohammad | Supervise On | 6/6/2025 2:02:27 AM | | |
| SubDirectory | PL060425 | HP Acquire Method | | HP Processing Method | pl052125 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24433,PP24095 |
| Initial Calibration Stds | PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284 |
| CCC | PP24261,PP24273,PP24279,PP24284 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24273,PP24279,PP24284 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PL095913.D | 04 Jun 2025 10:45 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PL095914.D | 04 Jun 2025 10:59 | | AR\AJ | Ok |
| 3 | PEM | PEM | PL095915.D | 04 Jun 2025 11:12 | | AR\AJ | Ok,M |
| 4 | PSTDCCC050 | PSTDCCC050 | PL095916.D | 04 Jun 2025 11:26 | | AR\AJ | Ok |
| 5 | PB168264BS | PB168264BS | PL095917.D | 04 Jun 2025 12:07 | | AR\AJ | Ok,M |
| 6 | I.BLK | I.BLK | PL095918.D | 04 Jun 2025 13:08 | | AR\AJ | Ok |
| 7 | PSTDCCC050 | PSTDCCC050 | PL095919.D | 04 Jun 2025 13:22 | | AR\AJ | Ok |
| 8 | PB168289BL | PB168289BL | PL095920.D | 04 Jun 2025 15:57 | | AR\AJ | Ok |
| 9 | PB168289BS | PB168289BS | PL095921.D | 04 Jun 2025 16:11 | | AR\AJ | Ok |
| 10 | Q2182-01 | OR-03-06022025 | PL095922.D | 04 Jun 2025 16:24 | | AR\AJ | Ok,M |
| 11 | Q2199-01 | ETGI-343 | PL095923.D | 04 Jun 2025 16:38 | | AR\AJ | Ok,M |
| 12 | Q2199-03 | VNJ-231 | PL095924.D | 04 Jun 2025 16:52 | | AR\AJ | Ok,M |
| 13 | Q2199-05 | 72-11978 | PL095925.D | 04 Jun 2025 17:05 | need 2X | AR\AJ | Dilution |
| 14 | PB168289BS | PB168289BS | PL095926.D | 04 Jun 2025 17:19 | already run | AR\AJ | Not Ok |
| 15 | I.BLK | I.BLK | PL095927.D | 04 Jun 2025 17:33 | | AR\AJ | Ok |
| 16 | PSTDCCC050 | PSTDCCC050 | PL095928.D | 04 Jun 2025 17:46 | | AR\AJ | Ok,M |
| 17 | Q2194-01 | COMP-12 | PL095929.D | 04 Jun 2025 18:00 | Looks like MS | AR\AJ | Not Ok |
| 18 | Q2194-01MS | COMP-12MS | PL095930.D | 04 Jun 2025 18:14 | | AR\AJ | Ok,M |

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Fax : 908 789 8922

**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 6/5/2025 8:35:48 AM | | |
| Supervise By | mohammad | Supervise On | 6/6/2025 2:02:27 AM | | |
| SubDirectory | PL060425 | HP Acquire Method | | HP Processing Method | pl052125 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP24433,PP24095 |
| Initial Calibration Stds | PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284 |
| CCC | PP24261,PP24273,PP24279,PP24284 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24273,PP24279,PP24284 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2194-01MSD | COMP-12MSD | PL095931.D | 04 Jun 2025 18:27 | | AR\AJ | Ok,M |
| 20 | Q2194-03 | COMP-13 | PL095932.D | 04 Jun 2025 18:41 | | AR\AJ | Ok,M |
| 21 | Q2195-01 | OK-01-060325 | PL095933.D | 04 Jun 2025 18:55 | | AR\AJ | Ok,M |
| 22 | I.BLK | I.BLK | PL095934.D | 04 Jun 2025 19:22 | | AR\AJ | Ok |
| 23 | PSTDCCC050 | PSTDCCC050 | PL095935.D | 04 Jun 2025 20:44 | | AR\AJ | Ok,M |

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Alliance TECHNICAL GROUP

# TCLP EXTRACTION LOGPAGE

PB168224

**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 / T-2

**TCLP Filter ID :** 115525

**Start Prep Date :** 06/02/2025 **Time :** 16:00

**End Prep Date :** 06/03/2025 **Time :** 09:15

**Combination Ratio :** 20

**ZHE Cleaning Batch :** 10 N/A

**Initial Room Temperature:** 22 °C

**Final Room Temperature:** 21 °C

**TCLP Technician Signature :** JP

**Supervisor By :** SJ

| 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 | WP112795 |
| HCL-TCLP,1N | N/A | WP112797 |
| HNO3-TCLP,1N | N/A | WP112799 |
| pH Strips | N/A | W1931,W1934,W3171,W3172 |
| pH Strips | N/A | W3166,W1938,W1939, |
| 1 Liter Amber | N/A | 90924-08 |
| 120ml Plastic bottle | N/A | 2738 |
| 1:1 HNO3 | N/A | MP84041 |

**Extraction Conformance/Non-Conformance Comments:**

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. q2185-08 is used for MS-MSD.

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 06/03/25 11:00 | JP / TCLP Room | SJS. RS 1Ext |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

## TCLP EXTRACTION LOGPAGE

PB168224

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| PB168224TB | LEB224 | 17 | N/A | 2000 | N/A | N/A | N/A | 4.93 | 1.5 | T-2 |
| Q2159-04 | TP05-MHO-WC | 01 | 100.02 | 2000 | N/A | N/A | N/A | 3.0 | 1.0 | T-1 |
| Q2160-04 | TP04-MHG-WC | 02 | 100.03 | 2000 | N/A | N/A | N/A | 3.0 | 1.5 | T-1 |
| Q2160-08 | TP05-MHH-WC | 03 | 100.02 | 2000 | N/A | N/A | N/A | 3.5 | 1.0 | T-1 |
| Q2168-02 | SAN-A1-A3 | 04 | 100.03 | 2000 | N/A | N/A | N/A | 4.5 | 1.5 | T-1 |
| Q2168-06 | SAN-B1-B3 | 05 | 100.02 | 2000 | N/A | N/A | N/A | 4.5 | 1.0 | T-1 |
| Q2168-10 | SAN-C1-C2 | 06 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.5 | T-1 |
| Q2172-04 | TP06-MHQ | 07 | 100.01 | 2000 | N/A | N/A | N/A | 3.0 | 1.5 | T-1 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | 08 | 100.02 | 2000 | N/A | N/A | N/A | 7.0 | 1.0 | T-1 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | 09 | 100.03 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-1 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | 10 | 100.04 | 2000 | N/A | N/A | N/A | 6.0 | 1.0 | T-1 |
| Q2177-03 | B-187-SB01 | 11 | 100.02 | 2000 | N/A | N/A | N/A | 6.0 | 1.5 | T-2 |
| Q2177-05 | B-187-SB02 | 12 | 100.03 | 2000 | N/A | N/A | N/A | 5.6 | 1.0 | T-2 |
| Q2177-07 | B-202-SB01 | 13 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-2 |
| Q2178-02 | RT2929 | 14 | 100.03 | 2000 | N/A | N/A | N/A | 10.0 | 1.5 | T-2 |
| Q2185-04 | TP02-MHB-WC | 15 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-2 |
| Q2185-08 | TP01-MHB-WC | 16 | 100.03 | 2000 | N/A | N/A | N/A | 6.0 | 1.0 | T-2 |

| SampleID | ClientID | Sample Weight (g) | Filter Weight (g) | Filtrate (mL) | Filter + Solid (After 100°C) | % solids | % Dry Solids |
|---|---|---|---|---|---|---|---|
| PB168224TB | LEB224 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2159-04 | TP05-MHO-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2160-04 | TP04-MHG-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2160-08 | TP05-MHH-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2168-02 | SAN-A1-A3 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2168-06 | SAN-B1-B3 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2168-10 | SAN-C1-C2 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2172-04 | TP06-MHQ | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2173-06 | OR-400-CF-402B-COMP-23 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2173-12 | OR-400-CF-402B-COMP-24 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2173-18 | OR-400-CF-402B-COMP-25 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2177-03 | B-187-SB01 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2177-05 | B-187-SB02 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2177-07 | B-202-SB01 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2178-02 | RT2929 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2185-04 | TP02-MHB-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2185-08 | TP01-MHB-WC | N/A | N/A | N/A | N/A | 100 | N/A |

Alliance TECHNICAL GROUP

**TCLP Fluid Determination**

PB168224

**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 |
|---|---|---|---|---|---|---|---|
| PB168224TB | LEB224 | N/A | N/A | N/A | N/A | #1 | 4.93 |
| Q2159-04 | TP05-MHO-WC | 5.02 | 96.5 | 5.6 | 2.0 | #1 | 4.93 |
| Q2160-04 | TP04-MHG-WC | 5.01 | 96.5 | 5.5 | 2.0 | #1 | 4.93 |
| Q2160-08 | TP05-MHH-WC | 5.02 | 96.5 | 5.8 | 2.0 | #1 | 4.93 |
| Q2168-02 | SAN-A1-A3 | 5.01 | 96.5 | 6.2 | 2.5 | #1 | 4.93 |
| Q2168-06 | SAN-B1-B3 | 5.02 | 96.5 | 6.0 | 2.0 | #1 | 4.93 |
| Q2168-10 | SAN-C1-C2 | 5.03 | 96.5 | 6.0 | 2.0 | #1 | 4.93 |
| Q2172-04 | TP06-MHQ | 5.03 | 96.5 | 5.5 | 1.5 | #1 | 4.93 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | 5.02 | 96.5 | 9.0 | 3.5 | #1 | 4.93 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | 5.03 | 96.5 | 7.2 | 2.5 | #1 | 4.93 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | 5.02 | 96.5 | 8.4 | 3.0 | #1 | 4.93 |
| Q2177-03 | B-187-SB01 | 5.03 | 96.5 | 8.2 | 3.0 | #1 | 4.93 |
| Q2177-05 | B-187-SB02 | 5.02 | 96.5 | 7.2 | 2.5 | #1 | 4.93 |
| Q2177-07 | B-202-SB01 | 5.01 | 96.5 | 8.2 | 3.0 | #1 | 4.93 |
| Q2178-02 | RT2929 | 5.02 | 96.5 | 10.5 | 4.0 | #1 | 4.93 |
| Q2185-04 | TP02-MHB-WC | 5.02 | 96.5 | 8.0 | 3.0 | #1 | 4.93 |
| Q2185-08 | TP01-MHB-WC | 5.01 | 96.5 | 8.0 | 3.0 | N/A | 4.93 |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** tclp q2177 **WorkList ID :** 189871 **Department :** TCLP Extraction **Date :** 06-02-2025 12:11:06

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2159-04 | TP05-MHO-WC | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 | 1311 |
| Q2160-04 | TP04-MHG-WC | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 | 1311 |
| Q2160-08 | TP05-MHH-WC | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 | 1311 |
| Q2168-02 | SAN-A1-A3 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 | 1311 |
| Q2168-06 | SAN-B1-B3 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 1311 |
| Q2168-10 | SAN-C1-C2 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 1311 |
| Q2172-04 | TP06-MHQ | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 1311 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 1311 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 1311 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 1311 |
| Q2177-03 | B-187-SB01 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 1311 |
| Q2177-05 | B-187-SB02 | Solid | TCLP Extraction | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 1311 |
| Q2177-07 | B-202-SB01 | Solid | TCLP Extraction | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 1311 |
| Q2178-02 | RT2929 | Solid | TCLP Extraction | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 1311 |
| Q2185-04 | TP02-MHB-WC | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 06/02/2025 | 1311 |
| Q2185-08 | TP01-MHB-WC | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L31 | 06/02/2025 | 1311 |

**Date/Time** 06/02/25 15:00

**Raw Sample Received by:** WC

**Raw Sample Relinquished by:** SM

**Date/Time** 06/02/25 17:30

**Raw Sample Received by:** SM

**Raw Sample Relinquished by:** WC

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

# PB168264

| | | | | | |
|---|---|---|---|---|---|
| **SOP ID:** | M3510C,3580A-Extraction Pesticide-16 | | | | |
| **Clean Up SOP #:** | N/A | | | **Extraction Start Date :** | 06/03/2025 |
| **Matrix :** | Water | | | **Extraction Start Time :** | 11:34 |
| **Weigh By:** | N/A | **Extraction By:** | RJ | **Extraction End Date :** | 06/03/2025 |
| **Balance check:** | N/A | **Filter By:** | RJ | **Extraction End Time :** | 16:10 |
| **Balance ID:** | N/A | **pH Meter ID:** | N/A | **Concentration By:** | EH |
| **pH Strip Lot#:** | E3880 | **Hood ID:** | 4,6,7 | **Supervisor By :** | RUPESH |

**Extraction Method:** ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 500 PPB | PP24285 |
| Surrogate | 1.0ML | 200 PPB | PP24597 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Methylene Chloride | N/A | E3939 |
| Baked Na2SO4 | N/A | EP2620 |
| Hexane | N/A | E3938 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

40 ML Vial lot# 03-40 BTS723.

| | | | |
|---|---|---|---|
| **KD Bath ID:** | WATER BATH-1,2 | **Envap ID:** | NEVAP-02 |
| **KD Bath Temperature:** | 60 °C | **Envap Temperature:** | 40 °C |

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 6/3/25 | RS (Ext lab) | JR. Post/PCB Lab |
| 16:15 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB168264**

**Analytical Method:** M3510C,3580A-Extraction Pesticide-16 **Concentration Date:** 06/03/2025

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB168224TB | PB168224TB | TCLP Pesticide | 100 | 6 | RUPESH | ritesh | 10 | | | SEP-1 |
| PB168264BL | PBLK264 | TCLP Pesticide | 1000 | 6 | RUPESH | ritesh | 10 | | | 2 |
| PB168264BS | PLCS264 | TCLP Pesticide | 1000 | 6 | RUPESH | ritesh | 10 | | | 3 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | TCLP Pesticide | 100 | 6 | RUPESH | ritesh | 10 | A | | 4 |
| Q2173-06MS | OR-400-CF-402B-COMP-23MS | TCLP Pesticide | 100 | 6 | RUPESH | ritesh | 10 | A | | 5 |
| Q2173-06MSD | OR-400-CF-402B-COMP-23MSD | TCLP Pesticide | 100 | 6 | RUPESH | ritesh | 10 | A | | 6 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | TCLP Pesticide | 100 | 6 | RUPESH | ritesh | 10 | A | | 7 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | TCLP Pesticide | 100 | 6 | RUPESH | ritesh | 10 | A | | 8 |
| Q2177-03 | B-187-SB01 | TCLP Pesticide | 100 | 6 | RUPESH | ritesh | 10 | A | | 9 |
| Q2177-05 | B-187-SB02 | TCLP Pesticide | 100 | 6 | RUPESH | ritesh | 10 | A | | 10 |
| Q2177-07 | B-202-SB01 | TCLP Pesticide | 100 | 6 | RUPESH | ritesh | 10 | A | | 11 |

RS
6/3

* **Extracts relinguished on the same date as received.**

Alliance TECHNICAL GROUP

**TCLP EXTRACTION LOGPAGE**

PB168224

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| PB168224TB | LEB224 | 17 | N/A | 2000 | N/A | N/A | N/A | 4.93 | 1.5 | T-2 |
| Q2159-04 | TP05-MHO-WC | 01 | 100.02 | 2000 | N/A | N/A | N/A | 3.0 | 1.0 | T-1 |
| Q2160-04 | TP04-MHG-WC | 02 | 100.03 | 2000 | N/A | N/A | N/A | 3.0 | 1.5 | T-1 |
| Q2160-08 | TP05-MHH-WC | 03 | 100.02 | 2000 | N/A | N/A | N/A | 3.5 | 1.0 | T-1 |
| Q2168-02 | SAN-A1-A3 | 04 | 100.03 | 2000 | N/A | N/A | N/A | 4.5 | 1.5 | T-1 |
| Q2168-06 | SAN-B1-B3 | 05 | 100.02 | 2000 | N/A | N/A | N/A | 4.5 | 1.0 | T-1 |
| Q2168-10 | SAN-C1-C2 | 06 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.5 | T-1 |
| Q2172-04 | TP06-MHQ | 07 | 100.01 | 2000 | N/A | N/A | N/A | 3.0 | 1.5 | T-1 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | 08 | 100.02 | 2000 | N/A | N/A | N/A | 7.0 | 1.0 | T-1 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | 09 | 100.03 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-1 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | 10 | 100.04 | 2000 | N/A | N/A | N/A | 6.0 | 1.0 | T-1 |
| Q2177-03 | B-187-SB01 | 11 | 100.02 | 2000 | N/A | N/A | N/A | 6.0 | 1.5 | T-2 |
| Q2177-05 | B-187-SB02 | 12 | 100.03 | 2000 | N/A | N/A | N/A | 5.6 | 1.0 | T-2 |
| Q2177-07 | B-202-SB01 | 13 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-2 |
| Q2178-02 | RT2929 | 14 | 100.03 | 2000 | N/A | N/A | N/A | 10.0 | 1.5 | T-2 |
| Q2185-04 | TP02-MHB-WC | 15 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-2 |
| Q2185-08 | TP01-MHB-WC | 16 | 100.03 | 2000 | N/A | N/A | N/A | 6.0 | 1.0 | T-2 |

06/03/25
11:00

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

# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2177 | **OrderDate:** | 6/2/2025 11:19:00 AM |
| **Client:** | Portal Partners Tri-Venture | **Project:** | Amtrak Sawtooth Bridges 2025 |
| **Contact:** | Joseph Krupansky | **Location:** | L41,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2177-03** | **B-187-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP Pesticide | 8081B | | 06/03/25 | 06/03/25 | |
| **Q2177-05** | **B-187-SB02** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP Pesticide | 8081B | | 06/03/25 | 06/03/25 | |
| **Q2177-07** | **B-202-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP Pesticide | 8081B | | 06/03/25 | 06/03/25 | |

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

# Hit Summary Sheet
## SW-846

**SDG No.:** Q2177 **Order ID:** Q2177

**Client:** Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

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

**Client ID :**

**Total Concentration:** **0.000**

# SAMPLE DATA

Raw Data: **PP072579.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02 | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 84.2 Decanted: |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072579.D | 1 | 06/03/25 09:30 | 06/03/25 20:15 | PB168252 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 4.70 | U | 4.70 | 20.2 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.80 | U | 4.80 | 20.2 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 4.40 | U | 4.40 | 20.2 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.80 | U | 4.80 | 20.2 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 7.00 | U | 7.00 | 20.2 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.80 | U | 3.80 | 20.2 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 6.00 | U | 6.00 | 20.2 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 4.30 | U | 4.30 | 20.2 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.80 | U | 3.80 | 20.2 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.7 | | 30 (32) - 150 (144) | 104% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 17.4 | | 30 (32) - 150 (175) | 87% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP072580.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-04 | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 62.8 Decanted: |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072580.D | 1 | 06/03/25 09:30 | 06/03/25 20:31 | PB168252 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 6.30 | U | 6.30 | 27.0 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.40 | U | 6.40 | 27.0 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 5.90 | U | 5.90 | 27.0 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 6.40 | U | 6.40 | 27.0 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 9.40 | U | 9.40 | 27.0 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 5.10 | U | 5.10 | 27.0 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 8.00 | U | 8.00 | 27.0 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 5.70 | U | 5.70 | 27.0 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 5.10 | U | 5.10 | 27.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.8 | | 30 (32) - 150 (144) | 104% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 15.4 | | 30 (32) - 150 (175) | 77% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP072581.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-06 | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 85.4 Decanted: |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072581.D | 1 | 06/03/25 09:30 | 06/03/25 20:48 | PB168252 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 4.60 | U | 4.60 | 19.9 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.70 | U | 4.70 | 19.9 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 4.40 | U | 4.40 | 19.9 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.70 | U | 4.70 | 19.9 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 6.90 | U | 6.90 | 19.9 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.80 | U | 3.80 | 19.9 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.90 | U | 5.90 | 19.9 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 4.20 | U | 4.20 | 19.9 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.80 | U | 3.80 | 19.9 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 24.1 | | 30 (32) - 150 (144) | 120% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 21.8 | | 30 (32) - 150 (175) | 109% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PO111445.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | EB05312025 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-08 | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 490 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO111445.D | 1 | 06/03/25 09:03 | 06/03/25 20:41 | PB168257 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.099 | U | 0.099 | 0.51 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.51 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.098 | U | 0.098 | 0.51 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.51 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.072 | U | 0.072 | 0.51 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.096 | U | 0.096 | 0.51 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.51 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.51 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.083 | U | 0.083 | 0.51 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 22.8 | | 30 (30) - 150 (173) | 114% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 15.4 | | 30 (10) - 150 (173) | 77% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

# QC SUMMARY

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## Surrogate Summary

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8082A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PO111057.D | PIBLK-PO111057.D | Tetrachloro-m-xylene | 1 | 20 | 16.4 | 82 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 1 | 20 | 17.5 | 87 | | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xylene | 2 | 20 | 15.4 | 77 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 2 | 20 | 17.9 | 90 | | 70 (60) | 130 (140) |
| I.BLK-PO111437.D | PIBLK-PO111437.D | Tetrachloro-m-xylene | 1 | 20 | 20.1 | 100 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 1 | 20 | 19.4 | 97 | | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.6 | 93 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 2 | 20 | 18.2 | 91 | | 70 (60) | 130 (140) |
| Q2177-08 | EB05312025 | Tetrachloro-m-xylene | 1 | 20 | 22.8 | 114 | | 30 (30) | 150 (173) |
| | | Decachlorobiphenyl | 1 | 20 | 15.4 | 77 | | 30 (10) | 150 (173) |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.0 | 105 | | 30 (30) | 150 (173) |
| | | Decachlorobiphenyl | 2 | 20 | 15.0 | 75 | | 30 (10) | 150 (173) |
| I.BLK-PO111451.D | PIBLK-PO111451.D | Tetrachloro-m-xylene | 1 | 20 | 19.8 | 99 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 1 | 20 | 19.0 | 95 | | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.3 | 92 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 2 | 20 | 17.8 | 89 | | 70 (60) | 130 (140) |
| I.BLK-PP072163.D | PIBLK-PP072163.D | Tetrachloro-m-xylene | 1 | 20 | 16.3 | 82 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 1 | 20 | 16.7 | 84 | | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xylene | 2 | 20 | 16.6 | 83 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 2 | 20 | 17.0 | 85 | | 70 (60) | 130 (140) |
| I.BLK-PP072557.D | PIBLK-PP072557.D | Tetrachloro-m-xylene | 1 | 20 | 19.2 | 96 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 1 | 20 | 20.2 | 101 | | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.9 | 104 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 2 | 20 | 23.4 | 117 | | 70 (60) | 130 (140) |
| PB168252BL | PB168252BL | Tetrachloro-m-xylene | 1 | 20 | 19.4 | 97 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 20.5 | 102 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.1 | 105 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 22.6 | 113 | | 30 (32) | 150 (175) |
| I.BLK-PP072572.D | PIBLK-PP072572.D | Tetrachloro-m-xylene | 1 | 20 | 18.9 | 95 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 1 | 20 | 19.7 | 99 | | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.3 | 102 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 2 | 20 | 22.7 | 114 | | 70 (60) | 130 (140) |
| Q2176-05MS | TP-28MS | Tetrachloro-m-xylene | 1 | 20 | 21.4 | 107 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 19.3 | 97 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 22.3 | 112 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 22.2 | 111 | | 30 (32) | 150 (175) |
| Q2176-05MSD | TP-28MSD | Tetrachloro-m-xylene | 1 | 20 | 18.8 | 94 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 16.1 | 80 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.6 | 98 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 19.3 | 97 | | 30 (32) | 150 (175) |
| Q2177-02 | B-187-SB01 | Tetrachloro-m-xylene | 1 | 20 | 18.4 | 92 | | 30 (32) | 150 (144) |

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## Surrogate Summary

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8082A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| Q2177-02 | B-187-SB01 | Decachlorobiphenyl | 1 | 20 | 14.6 | 73 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.7 | 104 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 17.4 | 87 | | 30 (32) | 150 (175) |
| Q2177-04 | B-187-SB02 | Tetrachloro-m-xylene | 1 | 20 | 18.0 | 90 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 13.4 | 67 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.8 | 104 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 15.4 | 77 | | 30 (32) | 150 (175) |
| Q2177-06 | B-202-SB01 | Tetrachloro-m-xylene | 1 | 20 | 20.5 | 102 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 18.7 | 94 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 24.1 | 120 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 21.8 | 109 | | 30 (32) | 150 (175) |
| I.BLK-PP072587.D | PIBLK-PP072587.D | Tetrachloro-m-xylene | 1 | 20 | 18.6 | 93 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 1 | 20 | 19.5 | 98 | | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.5 | 103 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 2 | 20 | 23.0 | 115 | | 70 (60) | 130 (140) |
| PB168257BL | PB168257BL | Tetrachloro-m-xylene | 1 | 20 | 19.0 | 95 | | 30 (30) | 150 (173) |
| | | Decachlorobiphenyl | 1 | 20 | 20.9 | 104 | | 30 (10) | 150 (173) |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.5 | 103 | | 30 (30) | 150 (173) |
| | | Decachlorobiphenyl | 2 | 20 | 24.1 | 121 | | 30 (10) | 150 (173) |
| I.BLK-PP072602.D | PIBLK-PP072602.D | Tetrachloro-m-xylene | 1 | 20 | 18.5 | 93 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 1 | 20 | 20.3 | 101 | | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.5 | 102 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 2 | 20 | 22.8 | 114 | | 70 (60) | 130 (140) |
| I.BLK-PP072608.D | PIBLK-PP072608.D | Tetrachloro-m-xylene | 1 | 20 | 16.9 | 85 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 1 | 20 | 18.2 | 91 | | 70 (60) | 130 (140) |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.0 | 95 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 2 | 20 | 21.9 | 109 | | 70 (60) | 130 (140) |
| PB168257BS | PB168257BS | Tetrachloro-m-xylene | 1 | 20 | 19.4 | 97 | | 30 (30) | 150 (173) |
| | | Decachlorobiphenyl | 1 | 20 | 19.8 | 99 | | 30 (10) | 150 (173) |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.0 | 100 | | 30 (30) | 150 (173) |
| | | Decachlorobiphenyl | 2 | 20 | 23.9 | 119 | | 30 (10) | 150 (173) |
| PB168257BSD | PB168257BSD | Tetrachloro-m-xylene | 1 | 20 | 19.3 | 96 | | 30 (30) | 150 (173) |
| | | Decachlorobiphenyl | 1 | 20 | 20.8 | 104 | | 30 (10) | 150 (173) |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.8 | 99 | | 30 (30) | 150 (173) |
| | | Decachlorobiphenyl | 2 | 20 | 23.5 | 117 | | 30 (10) | 150 (173) |
| PB168252BS | PB168252BS | Tetrachloro-m-xylene | 1 | 20 | 19.5 | 97 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 1 | 20 | 20.5 | 103 | | 30 (32) | 150 (175) |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.0 | 100 | | 30 (32) | 150 (144) |
| | | Decachlorobiphenyl | 2 | 20 | 23.5 | 117 | | 30 (32) | 150 (175) |
| I.BLK-PP072623.D | PIBLK-PP072623.D | Tetrachloro-m-xylene | 1 | 20 | 17.3 | 87 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 1 | 20 | 18.9 | 94 | | 70 (60) | 130 (140) |

( ) = LABORATORY INHOUSE LIMIT

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## Surrogate Summary

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8082A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PP072623.D | PIBLK-PP072623.D | Tetrachloro-m-xylene | 2 | 20 | 19.3 | 97 | | 70 (60) | 130 (140) |
| | | Decachlorobiphenyl | 2 | 20 | 21.0 | 105 | | 70 (60) | 130 (140) |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2177 **Analytical Method:** 8082A

**Client:** Portal Partners Tri-Venture **DataFile :** PP072574.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **TP-28MS** | | | | | | | | | | | |
| Q2176-05MS (Column 1) | AR1016 | 184 | 0 | 150 | ug/kg | 82 | | | | 40 (55) | 140 (146) | |
| | AR1260 | 184 | 0 | 140 | ug/kg | 76 | | | | 40 (54) | 140 (119) | |
| **Client Sample ID:** | **TP-28MS** | | | | | | | | | | | |
| Q2176-05MS (Column 2) | AR1016 | 184 | 0 | 168 | ug/kg | 91 | | | | 40 (55) | 140 (146) | |
| | AR1260 | 184 | 0 | 161 | ug/kg | 88 | | | | 40 (54) | 140 (119) | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2177 **Analytical Method:** 8082A

**Client:** Portal Partners Tri-Venture **DataFile :** PP072575.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **TP-28MSD** | | | | | | | | | | | |
| Q2176-05MSD (Column 1) | AR1016 | 183.9 | 0 | 128 | ug/kg | 70 | | 16 | | 40 (55) | 140 (146) | 30 (20) |
| | AR1260 | 183.9 | 0 | 117 | ug/kg | 64 | | 17 | | 40 (54) | 140 (119) | 30 (20) |
| **Client Sample ID:** | **TP-28MSD** | | | | | | | | | | | |
| Q2176-05MSD (Column 2) | AR1016 | 183.9 | 0 | 142 | ug/kg | 77 | | 17 | | 40 (55) | 140 (146) | 30 (20) |
| | AR1260 | 183.9 | 0 | 139 | ug/kg | 76 | | 15 | | 40 (54) | 140 (119) | 30 (20) |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177 **Analytical Method:** 8082A

**Client:** Portal Partners Tri-Venture **Datafile :** PP072609.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168257BS (Column 1) | AR1016 | 5 | 4.10 | ug/L | 82 | | | | 40 (77) | 140 (107) | |
| | AR1260 | 5 | 4.20 | ug/L | 84 | | | | 40 (66) | 140 (113) | |
| PB168257BS (Column 2) | AR1016 | 5 | 4.60 | ug/L | 92 | | | | 40 (77) | 140 (107) | |
| | AR1260 | 5 | 4.70 | ug/L | 94 | | | | 40 (66) | 140 (113) | |

( ) = LABORATORY INHOUSE LIMIT

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177 **Analytical Method:** 8082A

**Client:** Portal Partners Tri-Venture **Datafile :** PP072610.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168257BSD (Column 1) | AR1016 | 5 | 4.10 | ug/L | 82 | 0 | | | 40 (77) | 140 (107) | 20 (20) |
| | AR1260 | 5 | 4.20 | ug/L | 84 | 0 | | | 40 (66) | 140 (113) | 20 (20) |
| PB168257BSD (Column 2) | AR1016 | 5 | 4.60 | ug/L | 92 | 0 | | | 40 (77) | 140 (107) | 20 (20) |
| | AR1260 | 5 | 4.70 | ug/L | 94 | 0 | | | 40 (66) | 140 (113) | 20 (20) |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177 **Analytical Method:** 8082A

**Client:** Portal Partners Tri-Venture **Datafile :** PP072614.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168252BS (Column 1) | AR1016 | 166.6 | 140 | ug/kg | 84 | | | | 40 (71) | 140 (120) | |
| | AR1260 | 166.6 | 144 | ug/kg | 86 | | | | 40 (65) | 140 (130) | |
| PB168252BS (Column 2) | AR1016 | 166.6 | 153 | ug/kg | 92 | | | | 40 (71) | 140 (120) | |
| | AR1260 | 166.6 | 157 | ug/kg | 94 | | | | 40 (65) | 140 (130) | |

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168252BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab Sample ID: PB168252BL Lab File ID: PP072558.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 06/03/2025

Date Analyzed (1): 06/03/2025 Date Analyzed (2): 06/03/2025

Time Analyzed (1): 13:28 Time Analyzed (2): 13:28

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| TP-28MS | Q2176-05MS | PP072574.D | 06/03/2025 | 06/03/2025 |
| TP-28MSD | Q2176-05MSD | PP072575.D | 06/03/2025 | 06/03/2025 |
| B-187-SB01 | Q2177-02 | PP072579.D | 06/03/2025 | 06/03/2025 |
| B-187-SB02 | Q2177-04 | PP072580.D | 06/03/2025 | 06/03/2025 |
| B-202-SB01 | Q2177-06 | PP072581.D | 06/03/2025 | 06/03/2025 |
| PB168252BS | PB168252BS | PP072614.D | 06/04/2025 | 06/04/2025 |

COMMENTS:

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168257BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab Sample ID: PB168257BL Lab File ID: PP072590.D

Matrix: (soil/water) WATER Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 06/03/2025

Date Analyzed (1): 06/04/2025 Date Analyzed (2): 06/04/2025

Time Analyzed (1): 00:35 Time Analyzed (2): 00:35

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| EB05312025 | Q2177-08 | PO111445.D | 06/03/2025 | 06/03/2025 |
| PB168257BS | PB168257BS | PP072609.D | 06/04/2025 | 06/04/2025 |
| PB168257BSD | PB168257BSD | PP072610.D | 06/04/2025 | 06/04/2025 |

COMMENTS:

# QC SAMPLE DATA

Raw Data: **PP072558.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168252BL | SDG No.: | Q2177 |
| Lab Sample ID: | PB168252BL | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072558.D | 1 | 06/03/25 09:30 | 06/03/25 13:28 | PB168252 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.90 | U | 3.90 | 17.0 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.00 | U | 4.00 | 17.0 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.70 | U | 3.70 | 17.0 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.00 | U | 4.00 | 17.0 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 5.90 | U | 5.90 | 17.0 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.20 | U | 3.20 | 17.0 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.00 | U | 5.00 | 17.0 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.60 | U | 3.60 | 17.0 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.20 | U | 3.20 | 17.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 21.1 | | 30 (32) - 150 (144) | 105% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 22.6 | | 30 (32) - 150 (175) | 113% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP072590.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168257BL | SDG No.: | Q2177 |
| Lab Sample ID: | PB168257BL | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072590.D | 1 | 06/03/25 09:03 | 06/04/25 00:35 | PB168257 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 0.097 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 0.096 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 0.071 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 0.094 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 0.081 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.5 | | 30 (30) - 150 (173) | 103% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 24.1 | | 30 (10) - 150 (173) | 121% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/14/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 05/14/25 |
| Client Sample ID: | PIBLK-PO111057.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PO111057.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO111057.D | 1 | | 05/14/25 | PO051525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 0.097 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 0.096 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 0.071 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 0.094 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 0.081 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 15.4 | | 70 (60) - 130 (140) | 77% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 17.5 | | 70 (60) - 130 (140) | 87% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/03/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/03/25 |
| Client Sample ID: | PIBLK-PO111437.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PO111437.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO111437.D | 1 | | 06/03/25 | po060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 0.097 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 0.096 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 0.071 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 0.094 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 0.081 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 18.6 | | 70 (60) - 130 (140) | 93% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 18.2 | | 70 (60) - 130 (140) | 91% | SPK: 20 |

Comments:

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/03/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/03/25 |
| Client Sample ID: | PIBLK-PO111451.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PO111451.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO111451.D | 1 | | 06/03/25 | po060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 0.097 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 0.096 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 0.071 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 0.094 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 0.081 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 18.3 | | 70 (60) - 130 (140) | 92% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 17.8 | | 70 (60) - 130 (140) | 89% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/19/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 05/19/25 |
| Client Sample ID: | PIBLK-PP072163.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PP072163.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072163.D | 1 | | 05/19/25 | PP051925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 0.097 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 0.096 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 0.071 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 0.094 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 0.081 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 16.3 | | 70 (60) - 130 (140) | 82% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 16.7 | | 70 (60) - 130 (140) | 84% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/03/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/03/25 |
| Client Sample ID: | PIBLK-PP072557.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PP072557.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072557.D | 1 | | 06/03/25 | PP060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 0.097 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 0.096 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 0.071 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 0.094 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 0.081 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 19.2 | | 70 (60) - 130 (140) | 96% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 20.2 | | 70 (60) - 130 (140) | 101% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/03/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/03/25 |
| Client Sample ID: | PIBLK-PP072572.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PP072572.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072572.D | 1 | | 06/03/25 | pp060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 0.097 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 0.096 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 0.071 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 0.094 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 0.081 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 18.9 | | 70 (60) - 130 (140) | 95% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 19.7 | | 70 (60) - 130 (140) | 99% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/03/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/03/25 |
| Client Sample ID: | PIBLK-PP072587.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PP072587.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072587.D | 1 | | 06/03/25 | pp060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 0.097 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 0.096 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 0.071 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 0.094 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 0.081 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 18.6 | | 70 (60) - 130 (140) | 93% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 19.5 | | 70 (60) - 130 (140) | 98% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/04/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/04/25 |
| Client Sample ID: | PIBLK-PP072602.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PP072602.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072602.D | 1 | | 06/04/25 | pp060325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 0.097 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 0.096 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 0.071 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 0.094 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 0.081 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 18.5 | | 70 (60) - 130 (140) | 93% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 20.3 | | 70 (60) - 130 (140) | 101% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/04/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/04/25 |
| Client Sample ID: | PIBLK-PP072608.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PP072608.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072608.D | 1 | | 06/04/25 | PP060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 0.097 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 0.096 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 0.071 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 0.094 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 0.081 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 16.9 | | 70 (60) - 130 (140) | 85% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 18.2 | | 70 (60) - 130 (140) | 91% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/04/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/04/25 |
| Client Sample ID: | PIBLK-PP072623.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PP072623.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072623.D | 1 | | 06/04/25 | PP060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 0.097 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 0.096 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 0.071 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 0.094 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 0.081 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 17.3 | | 70 (60) - 130 (140) | 87% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 18.9 | | 70 (60) - 130 (140) | 94% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168252BS | SDG No.: | Q2177 |
| Lab Sample ID: | PB168252BS | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072614.D | 1 | 06/03/25 09:30 | 06/04/25 11:37 | PB168252 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 153 | | 3.90 | 17.0 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.00 | U | 4.00 | 17.0 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.70 | U | 3.70 | 17.0 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.00 | U | 4.00 | 17.0 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 5.90 | U | 5.90 | 17.0 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.20 | U | 3.20 | 17.0 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.00 | U | 5.00 | 17.0 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.60 | U | 3.60 | 17.0 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 157 | | 3.20 | 17.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.0 | | 30 (32) - 150 (144) | 100% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 23.5 | | 30 (32) - 150 (175) | 117% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP072609.D**

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | Date Collected: | | |
| Project: | Amtrak Sawtooth Bridges 2025 | | Date Received: | | |
| Client Sample ID: | PB168257BS | | SDG No.: | Q2177 | |
| Lab Sample ID: | PB168257BS | | Matrix: | WATER | |
| Analytical Method: | 8082A | | % Solid: | 0 | Decanted: |
| Sample Wt/Vol: | 1000 Units: | mL | Final Vol: | 10000 | uL |
| Soil Aliquot Vol: | | uL | Test: | PCB | |
| Extraction Type: | | | Injection Volume : | | |
| GPC Factor : | 1.0 | PH : | | | |
| Prep Method : | 3510C | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072609.D | 1 | 06/03/25 09:03 | 06/04/25 10:16 | PB168257 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 4.60 | | 0.097 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 0.096 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 0.071 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 0.094 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 4.70 | | 0.081 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.0 | | 30 (30) - 150 (173) | 100% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 23.9 | | 30 (10) - 150 (173) | 119% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet 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: **PP072610.D**

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | Date Collected: | | |
| Project: | Amtrak Sawtooth Bridges 2025 | | Date Received: | | |
| Client Sample ID: | PB168257BSD | | SDG No.: | Q2177 | |
| Lab Sample ID: | PB168257BSD | | Matrix: | WATER | |
| Analytical Method: | 8082A | | % Solid: | 0 | Decanted: |
| Sample Wt/Vol: | 1000 | Units: mL | Final Vol: | 10000 | uL |
| Soil Aliquot Vol: | | uL | Test: | PCB | |
| Extraction Type: | | | Injection Volume : | | |
| GPC Factor : | 1.0 | PH : | | | |
| Prep Method : | 3510C | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072610.D | 1 | 06/03/25 09:03 | 06/04/25 10:32 | PB168257 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 4.60 | | 0.097 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 0.096 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 0.071 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 0.094 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 4.70 | | 0.081 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 19.8 | | 30 (30) - 150 (173) | 99% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 23.5 | | 30 (10) - 150 (173) | 117% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP072574.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/29/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 05/30/25 |
| Client Sample ID: | TP-28MS | SDG No.: | Q2177 |
| Lab Sample ID: | Q2176-05MS | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 90.5 Decanted: |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072574.D | 1 | 06/03/25 09:30 | 06/03/25 18:53 | PB168252 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 168 | | 4.40 | 18.8 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.50 | U | 4.50 | 18.8 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 4.10 | U | 4.10 | 18.8 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.40 | U | 4.40 | 18.8 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 6.50 | U | 6.50 | 18.8 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.50 | U | 3.50 | 18.8 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.50 | U | 5.50 | 18.8 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 4.00 | U | 4.00 | 18.8 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 161 | | 3.60 | 18.8 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 22.3 | | 30 (32) - 150 (144) | 112% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 22.2 | | 30 (32) - 150 (175) | 111% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP072575.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/29/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 05/30/25 |
| Client Sample ID: | TP-28MSD | SDG No.: | Q2177 |
| Lab Sample ID: | Q2176-05MSD | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 90.5 Decanted: |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PP072575.D | 1 | 06/03/25 09:30 | 06/03/25 19:10 | PB168252 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 142 | | 4.40 | 18.8 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.40 | U | 4.40 | 18.8 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 4.10 | U | 4.10 | 18.8 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.40 | U | 4.40 | 18.8 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 6.50 | U | 6.50 | 18.8 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.50 | U | 3.50 | 18.8 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.50 | U | 5.50 | 18.8 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 4.00 | U | 4.00 | 18.8 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 139 | | 3.60 | 18.8 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 19.6 | | 30 (32) - 150 (144) | 98% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 19.3 | | 30 (32) - 150 (175) | 97% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

# CALIBRATION SUMMARY

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

## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_O **Calibration Date(s):** 05/14/2025 05/15/2025

**Calibration Times:** 17:19 01:31

GC Column: ZB-MR1 ID: 0.32 (mm)

**LAB FILE ID:** RT 1000 = PO111058.D RT 750 = PO111059.D

RT 500 = PO111060.D RT 250 = PO111061.D RT 050 = PO111062.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 050 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.67 | 4.87 |
| Aroclor-1016-2 | (2) | 4.79 | 4.79 | 4.79 | 4.79 | 4.79 | 4.79 | 4.69 | 4.89 |
| Aroclor-1016-3 | (3) | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.75 | 4.95 |
| Aroclor-1016-4 | (4) | 4.97 | 4.97 | 4.97 | 4.97 | 4.97 | 4.97 | 4.87 | 5.07 |
| Aroclor-1016-5 | (5) | 5.23 | 5.23 | 5.23 | 5.23 | 5.23 | 5.23 | 5.13 | 5.33 |
| Aroclor-1260-1 | (1) | 6.27 | 6.27 | 6.27 | 6.27 | 6.27 | 6.27 | 6.17 | 6.37 |
| Aroclor-1260-2 | (2) | 6.46 | 6.46 | 6.46 | 6.46 | 6.45 | 6.46 | 6.36 | 6.56 |
| Aroclor-1260-3 | (3) | 6.82 | 6.82 | 6.82 | 6.82 | 6.82 | 6.82 | 6.72 | 6.92 |
| Aroclor-1260-4 | (4) | 7.08 | 7.08 | 7.08 | 7.08 | 7.08 | 7.08 | 6.98 | 7.18 |
| Aroclor-1260-5 | (5) | 7.33 | 7.33 | 7.33 | 7.32 | 7.32 | 7.33 | 7.23 | 7.43 |
| Decachlorobiphenyl | | 8.73 | 8.73 | 8.72 | 8.72 | 8.72 | 8.72 | 8.62 | 8.82 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.58 | 3.78 |
| Aroclor-1242-1 | (1) | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.67 | 4.87 |
| Aroclor-1242-2 | (2) | 4.79 | 4.79 | 4.79 | 4.79 | 4.79 | 4.79 | 4.69 | 4.89 |
| Aroclor-1242-3 | (3) | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.75 | 4.95 |
| Aroclor-1242-4 | (4) | 4.97 | 4.97 | 4.97 | 4.97 | 4.97 | 4.97 | 4.87 | 5.07 |
| Aroclor-1242-5 | (5) | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.52 | 5.72 |
| Decachlorobiphenyl | | 8.72 | 8.72 | 8.73 | 8.72 | 8.72 | 8.72 | 8.62 | 8.82 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.58 | 3.78 |
| Aroclor-1248-1 | (1) | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.67 | 4.87 |
| Aroclor-1248-2 | (2) | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.91 | 5.11 |
| Aroclor-1248-3 | (3) | 5.23 | 5.23 | 5.23 | 5.22 | 5.23 | 5.23 | 5.13 | 5.33 |
| Aroclor-1248-4 | (4) | 5.58 | 5.58 | 5.58 | 5.58 | 5.58 | 5.58 | 5.48 | 5.68 |
| Aroclor-1248-5 | (5) | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.52 | 5.72 |
| Decachlorobiphenyl | | 8.72 | 8.72 | 8.72 | 8.72 | 8.72 | 8.72 | 8.62 | 8.82 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.58 | 3.78 |
| Aroclor-1254-1 | (1) | 5.58 | 5.58 | 5.58 | 5.58 | 5.58 | 5.58 | 5.48 | 5.68 |
| Aroclor-1254-2 | (2) | 5.73 | 5.73 | 5.73 | 5.73 | 5.73 | 5.73 | 5.63 | 5.83 |
| Aroclor-1254-3 | (3) | 6.13 | 6.13 | 6.13 | 6.13 | 6.13 | 6.13 | 6.03 | 6.23 |
| Aroclor-1254-4 | (4) | 6.36 | 6.36 | 6.36 | 6.36 | 6.36 | 6.36 | 6.26 | 6.46 |
| Aroclor-1254-5 | (5) | 6.78 | 6.78 | 6.78 | 6.78 | 6.78 | 6.78 | 6.68 | 6.88 |
| Decachlorobiphenyl | | 8.73 | 8.73 | 8.72 | 8.72 | 8.72 | 8.72 | 8.62 | 8.82 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.58 | 3.78 |
| Aroclor-1268-1 | (1) | 7.61 | 7.61 | 7.61 | 7.61 | 7.61 | 7.61 | 7.51 | 7.71 |
| Aroclor-1268-2 | (2) | 7.67 | 7.67 | 7.67 | 7.67 | 7.67 | 7.67 | 7.57 | 7.77 |
| Aroclor-1268-3 | (3) | 7.88 | 7.88 | 7.88 | 7.88 | 7.88 | 7.88 | 7.78 | 7.98 |
| Aroclor-1268-4 | (4) | 8.17 | 8.17 | 8.17 | 8.17 | 8.17 | 8.17 | 8.07 | 8.27 |
| Aroclor-1268-5 | (5) | 8.46 | 8.47 | 8.47 | 8.46 | 8.46 | 8.46 | 8.36 | 8.56 |

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**RETENTION TIMES OF INITIAL CALIBRATION**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.72 | 8.72 | 8.73 | 8.72 | 8.72 | 8.72 | 8.62 | 8.82 |
| Tetrachloro-m-xylene | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.58 | 3.78 |

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Fax : 908 789 8922

## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_O **Calibration Date(s):** 05/14/2025 05/15/2025

**Calibration Times:** 17:19 01:31

GC Column: ZB-MR2 ID: 0.32 (mm)

**LAB FILE ID:** RT 1000 = PO111058.D RT 750 = PO111059.D

RT 500 = PO111060.D RT 250 = PO111061.D RT 050 = PO111062.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 050 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.66 | 4.86 |
| Aroclor-1016-2 | (2) | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 | 4.68 | 4.88 |
| Aroclor-1016-3 | (3) | 4.95 | 4.95 | 4.95 | 4.95 | 4.95 | 4.95 | 4.85 | 5.05 |
| Aroclor-1016-4 | (4) | 5.00 | 5.00 | 4.99 | 4.99 | 5.00 | 5.00 | 4.90 | 5.10 |
| Aroclor-1016-5 | (5) | 5.21 | 5.21 | 5.21 | 5.21 | 5.21 | 5.21 | 5.11 | 5.31 |
| Aroclor-1260-1 | (1) | 6.24 | 6.24 | 6.24 | 6.24 | 6.24 | 6.24 | 6.14 | 6.34 |
| Aroclor-1260-2 | (2) | 6.43 | 6.43 | 6.43 | 6.43 | 6.43 | 6.43 | 6.33 | 6.53 |
| Aroclor-1260-3 | (3) | 6.58 | 6.58 | 6.58 | 6.58 | 6.58 | 6.58 | 6.48 | 6.68 |
| Aroclor-1260-4 | (4) | 7.05 | 7.05 | 7.05 | 7.05 | 7.05 | 7.05 | 6.95 | 7.15 |
| Aroclor-1260-5 | (5) | 7.29 | 7.29 | 7.29 | 7.29 | 7.29 | 7.29 | 7.19 | 7.39 |
| Decachlorobiphenyl | | 8.67 | 8.67 | 8.67 | 8.68 | 8.67 | 8.67 | 8.57 | 8.77 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.58 | 3.78 |
| Aroclor-1242-1 | (1) | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.66 | 4.86 |
| Aroclor-1242-2 | (2) | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 | 4.68 | 4.88 |
| Aroclor-1242-3 | (3) | 4.95 | 4.95 | 4.95 | 4.95 | 4.95 | 4.95 | 4.85 | 5.05 |
| Aroclor-1242-4 | (4) | 5.04 | 5.04 | 5.04 | 5.04 | 5.04 | 5.04 | 4.94 | 5.14 |
| Aroclor-1242-5 | (5) | 5.56 | 5.56 | 5.56 | 5.56 | 5.56 | 5.56 | 5.46 | 5.66 |
| Decachlorobiphenyl | | 8.67 | 8.67 | 8.67 | 8.67 | 8.67 | 8.67 | 8.57 | 8.77 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.58 | 3.78 |
| Aroclor-1248-1 | (1) | 4.76 | 4.76 | 4.76 | 4.77 | 4.76 | 4.76 | 4.66 | 4.86 |
| Aroclor-1248-2 | (2) | 5.00 | 5.00 | 5.00 | 5.01 | 5.00 | 5.00 | 4.90 | 5.10 |
| Aroclor-1248-3 | (3) | 5.04 | 5.04 | 5.04 | 5.05 | 5.04 | 5.04 | 4.94 | 5.14 |
| Aroclor-1248-4 | (4) | 5.21 | 5.21 | 5.21 | 5.22 | 5.21 | 5.21 | 5.11 | 5.31 |
| Aroclor-1248-5 | (5) | 5.60 | 5.60 | 5.60 | 5.61 | 5.60 | 5.60 | 5.50 | 5.70 |
| Decachlorobiphenyl | | 8.67 | 8.67 | 8.68 | 8.69 | 8.67 | 8.68 | 8.58 | 8.78 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.68 | 3.69 | 3.68 | 3.68 | 3.58 | 3.78 |
| Aroclor-1254-1 | (1) | 5.56 | 5.56 | 5.56 | 5.56 | 5.56 | 5.56 | 5.46 | 5.66 |
| Aroclor-1254-2 | (2) | 5.71 | 5.71 | 5.71 | 5.71 | 5.71 | 5.71 | 5.61 | 5.81 |
| Aroclor-1254-3 | (3) | 6.11 | 6.11 | 6.11 | 6.11 | 6.11 | 6.11 | 6.01 | 6.21 |
| Aroclor-1254-4 | (4) | 6.34 | 6.34 | 6.34 | 6.34 | 6.34 | 6.34 | 6.24 | 6.44 |
| Aroclor-1254-5 | (5) | 6.75 | 6.75 | 6.75 | 6.75 | 6.75 | 6.75 | 6.65 | 6.85 |
| Decachlorobiphenyl | | 8.67 | 8.67 | 8.67 | 8.67 | 8.67 | 8.67 | 8.57 | 8.77 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.58 | 3.78 |
| Aroclor-1268-1 | (1) | 7.57 | 7.57 | 7.57 | 7.57 | 7.57 | 7.57 | 7.47 | 7.67 |
| Aroclor-1268-2 | (2) | 7.64 | 7.64 | 7.64 | 7.64 | 7.64 | 7.64 | 7.54 | 7.74 |
| Aroclor-1268-3 | (3) | 7.84 | 7.84 | 7.84 | 7.84 | 7.84 | 7.84 | 7.74 | 7.94 |
| Aroclor-1268-4 | (4) | 8.13 | 8.13 | 8.13 | 8.13 | 8.13 | 8.13 | 8.03 | 8.23 |
| Aroclor-1268-5 | (5) | 8.42 | 8.42 | 8.42 | 8.42 | 8.42 | 8.42 | 8.32 | 8.52 |

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**RETENTION TIMES OF INITIAL CALIBRATION**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.67 | 8.67 | 8.67 | 8.67 | 8.67 | 8.67 | 8.57 | 8.77 |
| Tetrachloro-m-xylene | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.58 | 3.78 |

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Fax : 908 789 8922

## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_O **Calibration Date(s):** 05/14/2025 05/15/2025

**Calibration Times:** 17:19 01:31

**GC Column:** ZB-MR1 **ID:** 0.32 (mm)

**LAB FILE ID:** **CF 1000 =** PO111058.D **CF 750 =** PO111059.D

**CF 500 =** PO111060.D **CF 250 =** PO111061.D **CF 050 =** PO111062.D

| COMPOUND | | CF 1000 | CF 750 | CF 500 | CF 250 | CF 050 | CF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 205952128 | 213833112 | 226414102 | 241684928 | 237394280 | 225055710 | 7 |
| Aroclor-1016-2 | (2) | 293931044 | 310127113 | 321220528 | 340419712 | 328971000 | 318933879 | 6 |
| Aroclor-1016-3 | (3) | 200116672 | 210641735 | 220217832 | 233629012 | 221015000 | 217124050 | 6 |
| Aroclor-1016-4 | (4) | 160298181 | 168708089 | 176290662 | 187854588 | 177589060 | 174148116 | 6 |
| Aroclor-1016-5 | (5) | 161898024 | 175820952 | 178167232 | 187226608 | 176844020 | 175991367 | 5 |
| Aroclor-1260-1 | (1) | 277561674 | 293756041 | 305741896 | 331877740 | 315901980 | 304967866 | 7 |
| Aroclor-1260-2 | (2) | 349775279 | 367746601 | 383860622 | 411536992 | 401831460 | 382950191 | 7 |
| Aroclor-1260-3 | (3) | 317018248 | 333963835 | 348833732 | 373392584 | 369733400 | 348588360 | 7 |
| Aroclor-1260-4 | (4) | 251785051 | 267674384 | 282392668 | 305806136 | 292149520 | 279961552 | 8 |
| Aroclor-1260-5 | (5) | 680936092 | 706872008 | 727490352 | 760116820 | 724090440 | 719901142 | 4 |
| Decachlorobiphenyl | | 4789049460 | 4988917347 | 5187039280 | 5515117840 | 5334237200 | 5162872225 | 6 |
| Tetrachloro-m-xylene | | 5665666390 | 5873534533 | 6010307880 | 6167763840 | 5698750600 | 5883204649 | 4 |
| Aroclor-1242-1 | (1) | 176697919 | 185695675 | 196416184 | 207079416 | 190109540 | 191199747 | 6 |
| Aroclor-1242-2 | (2) | 257720398 | 267748761 | 279433570 | 293144628 | 262025820 | 272014635 | 5 |
| Aroclor-1242-3 | (3) | 175187474 | 182923969 | 192610042 | 201232700 | 177980140 | 185986865 | 6 |
| Aroclor-1242-4 | (4) | 140203851 | 146287348 | 153093646 | 159943472 | 139472860 | 147800235 | 6 |
| Aroclor-1242-5 | (5) | 145186142 | 152022244 | 159321518 | 169027516 | 152152160 | 155541916 | 6 |
| Decachlorobiphenyl | | 4774382260 | 4985278507 | 5225823760 | 5476782920 | 5013508400 | 5095155169 | 5 |
| Tetrachloro-m-xylene | | 5680960800 | 5831614707 | 6040672820 | 6174416800 | 5348804000 | 5815293825 | 6 |
| Aroclor-1248-1 | (1) | 138162515 | 145942143 | 153069466 | 163443424 | 165211980 | 153165906 | 8 |
| Aroclor-1248-2 | (2) | 182760569 | 190399631 | 201027290 | 214399212 | 214001160 | 200517572 | 7 |
| Aroclor-1248-3 | (3) | 227450486 | 238283761 | 250971210 | 267719672 | 295599780 | 256004982 | 10 |
| Aroclor-1248-4 | (4) | 324783137 | 336810133 | 356284496 | 381846900 | 411181480 | 362181229 | 10 |
| Aroclor-1248-5 | (5) | 233936098 | 243272008 | 257408728 | 275769428 | 299891040 | 262055460 | 10 |
| Decachlorobiphenyl | | 4861959910 | 5031694707 | 5278313240 | 5604075320 | 5730172600 | 5301243155 | 7 |
| Tetrachloro-m-xylene | | 5864549650 | 6045437613 | 6209272300 | 6477502560 | 6275643200 | 6174481065 | 4 |
| Aroclor-1254-1 | (1) | 338668376 | 359337472 | 379562628 | 402119132 | 418187300 | 379574982 | 8 |
| Aroclor-1254-2 | (2) | 291859728 | 310115756 | 327944084 | 347727744 | 356229960 | 326775454 | 8 |
| Aroclor-1254-3 | (3) | 475332844 | 499809000 | 523764968 | 549245752 | 582561520 | 526142817 | 8 |
| Aroclor-1254-4 | (4) | 302105681 | 318736953 | 335883014 | 351987900 | 371678540 | 336078418 | 8 |
| Aroclor-1254-5 | (5) | 429218631 | 452008725 | 475302254 | 500931908 | 514812140 | 474454732 | 7 |
| Decachlorobiphenyl | | 4923933440 | 5141137400 | 5443620080 | 5700682920 | 5862774600 | 5414429688 | 7 |
| Tetrachloro-m-xylene | | 5948877150 | 6190104627 | 6408412200 | 6583454240 | 6338928400 | 6293955323 | 4 |
| Aroclor-1268-1 | (1) | 930869745 | 936595251 | 978341018 | 1015935428 | 986319920 | 969612272 | 4 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1268-2 | (2) | 856384474 | 860524951 | 901691384 | 934576100 | 909379560 | 892511294 | 4 |
| Aroclor-1268-3 | (3) | 718671507 | 725558572 | 764699306 | 799960100 | 785246420 | 758827181 | 5 |
| Aroclor-1268-4 | (4) | 311213814 | 313193287 | 331181486 | 347305704 | 329997080 | 326578274 | 5 |
| Aroclor-1268-5 | (5) | 2117705977 | 2107339941 | 2194587578 | 2235031552 | 2137458100 | 2158424630 | 3 |
| Decachlorobiphenyl | | 8888535700 | 9012836760 | 9503909100 | 9956674120 | 9729229000 | 9418236936 | 5 |
| Tetrachloro-m-xylene | | 6171599970 | 6168104493 | 6441282720 | 6673989440 | 6170217200 | 6325038765 | 4 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_O **Calibration Date(s):** 05/14/2025 05/15/2025

**Calibration Times:** 17:19 01:31

**GC Column:** ZB-MR2 **ID:** 0.32 (mm)

**LAB FILE ID:** **CF 1000 =** PO111058.D **CF 750 =** PO111059.D

**CF 500 =** PO111060.D **CF 250 =** PO111061.D **CF 050 =** PO111062.D

| COMPOUND | | CF 1000 | CF 750 | CF 500 | CF 250 | CF 050 | CF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 175951340 | 184131151 | 190391494 | 201135208 | 203027340 | 190927307 | 6 |
| Aroclor-1016-2 | (2) | 259304006 | 268965180 | 279695444 | 293662868 | 283996940 | 277124888 | 5 |
| Aroclor-1016-3 | (3) | 136562816 | 142759844 | 148101780 | 155422472 | 147528240 | 146075030 | 5 |
| Aroclor-1016-4 | (4) | 108537077 | 112835540 | 120886250 | 129636068 | 128548860 | 120088759 | 8 |
| Aroclor-1016-5 | (5) | 141286439 | 151385859 | 154206636 | 161907480 | 163215520 | 154400387 | 6 |
| Aroclor-1260-1 | (1) | 230380518 | 239225432 | 248869338 | 264781264 | 266186040 | 249888518 | 6 |
| Aroclor-1260-2 | (2) | 272772980 | 284661173 | 294194664 | 310691584 | 309118120 | 294287704 | 5 |
| Aroclor-1260-3 | (3) | 260160385 | 271476124 | 281551496 | 303268832 | 317136960 | 286718759 | 8 |
| Aroclor-1260-4 | (4) | 184546577 | 192670083 | 200645580 | 215256196 | 210698140 | 200763315 | 6 |
| Aroclor-1260-5 | (5) | 441090120 | 451615468 | 461646416 | 479352764 | 464333260 | 459607606 | 3 |
| Decachlorobiphenyl | | 1699216120 | 1787921307 | 1869222220 | 1982547480 | 1911821600 | 1850145745 | 6 |
| Tetrachloro-m-xylene | | 5406429520 | 5548905467 | 5601909540 | 5641328400 | 5058606000 | 5451435785 | 4 |
| Aroclor-1242-1 | (1) | 150759764 | 157292616 | 165241112 | 172974524 | 159265900 | 161106783 | 5 |
| Aroclor-1242-2 | (2) | 223621907 | 231686419 | 240612100 | 250441092 | 226668900 | 234606084 | 5 |
| Aroclor-1242-3 | (3) | 118098683 | 122379071 | 128101210 | 133446692 | 116067680 | 123618667 | 6 |
| Aroclor-1242-4 | (4) | 114724574 | 119985329 | 127001834 | 134027396 | 122337120 | 123615251 | 6 |
| Aroclor-1242-5 | (5) | 142391198 | 148226844 | 155505330 | 163277824 | 150532140 | 151986667 | 5 |
| Decachlorobiphenyl | | 1649752350 | 1732528187 | 1806674400 | 1933059040 | 1771454800 | 1778693755 | 6 |
| Tetrachloro-m-xylene | | 5396035140 | 5504454880 | 5603860600 | 5606837360 | 4728358600 | 5367909316 | 7 |
| Aroclor-1248-1 | (1) | 116677575 | 122377953 | 128716756 | 138512244 | 142355880 | 129728082 | 8 |
| Aroclor-1248-2 | (2) | 159784658 | 166591041 | 175162942 | 187618608 | 190301260 | 175891702 | 7 |
| Aroclor-1248-3 | (3) | 169685896 | 176680541 | 185649606 | 199757956 | 206297360 | 187614272 | 8 |
| Aroclor-1248-4 | (4) | 198935902 | 206440528 | 216987222 | 226820008 | 250016460 | 219840024 | 9 |
| Aroclor-1248-5 | (5) | 198293592 | 205844156 | 215149564 | 228236984 | 244101860 | 218325231 | 8 |
| Decachlorobiphenyl | | 1675757640 | 1739961147 | 1894631500 | 1998157320 | 2119618200 | 1885625161 | 10 |
| Tetrachloro-m-xylene | | 5392118780 | 5499156400 | 5577007680 | 5634478280 | 5189850400 | 5458522308 | 3 |
| Aroclor-1254-1 | (1) | 294845056 | 308276565 | 323607480 | 339068536 | 354395480 | 324038623 | 7 |
| Aroclor-1254-2 | (2) | 254192198 | 266619067 | 281454614 | 297953104 | 316004460 | 283244689 | 9 |
| Aroclor-1254-3 | (3) | 400479051 | 415178477 | 433542960 | 448248844 | 459811580 | 431452182 | 6 |
| Aroclor-1254-4 | (4) | 228881544 | 238106540 | 250287146 | 259634416 | 259809520 | 247343833 | 6 |
| Aroclor-1254-5 | (5) | 318351803 | 329524227 | 344594700 | 358702264 | 378528780 | 345940355 | 7 |
| Decachlorobiphenyl | | 1730307610 | 1804634267 | 1900572880 | 2018627520 | 2049052800 | 1900639015 | 7 |
| Tetrachloro-m-xylene | | 5453750800 | 5591916973 | 5732062480 | 5726435600 | 5385705600 | 5577974291 | 3 |
| Aroclor-1268-1 | (1) | 505658591 | 508360996 | 529570342 | 550274560 | 556601860 | 530093270 | 4 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1268-2 | (2) | 460495321 | 464888113 | 483851588 | 503248308 | 499197120 | 482336090 | 4 |
| Aroclor-1268-3 | (3) | 328655790 | 333834055 | 349506788 | 366413796 | 363835440 | 348449174 | 5 |
| Aroclor-1268-4 | (4) | 119697414 | 122740856 | 130580600 | 138639360 | 124687920 | 127269230 | 6 |
| Aroclor-1268-5 | (5) | 727936615 | 731233425 | 757715258 | 780322444 | 766884820 | 752818512 | 3 |
| Decachlorobiphenyl | | 3022618140 | 3077226480 | 3258756880 | 3437439920 | 3301382200 | 3219484724 | 5 |
| Tetrachloro-m-xylene | | 5636439670 | 5594566640 | 5754942040 | 5800136080 | 5153076200 | 5587832126 | 5 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_O **Date(s) Analyzed:** 05/14/2025 05/15/2025

**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 | 3.90 | 3.80 | 4.00 | 87106400 |
| | | 2 | 3.98 | 3.88 | 4.08 | 63703800 |
| | | 3 | 4.06 | 3.96 | 4.16 | 192327000 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1232 | 500 | 1 | 4.06 | 3.96 | 4.16 | 153174000 |
| | | 2 | 4.55 | 4.45 | 4.65 | 81946400 |
| | | 3 | 4.79 | 4.69 | 4.89 | 152927000 |
| | | 4 | 4.97 | 4.87 | 5.07 | 82251400 |
| | | 5 | 5.01 | 4.91 | 5.11 | 54259200 |
| Aroclor-1262 | 500 | 1 | 6.82 | 6.72 | 6.92 | 486664000 |
| | | 2 | 7.33 | 7.23 | 7.43 | 808494000 |
| | | 3 | 7.61 | 7.51 | 7.71 | 338264000 |
| | | 4 | 7.67 | 7.57 | 7.77 | 590414000 |
| | | 5 | 8.17 | 8.07 | 8.27 | 285216000 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_O **Date(s) Analyzed:** 05/14/2025 05/15/2025

**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 | 3.89 | 3.79 | 3.99 | 73843000 |
| | | 2 | 3.98 | 3.88 | 4.08 | 54414200 |
| | | 3 | 4.05 | 3.95 | 4.15 | 167101000 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1232 | 500 | 1 | 4.05 | 3.95 | 4.15 | 130595000 |
| | | 2 | 4.78 | 4.68 | 4.88 | 131160000 |
| | | 3 | 4.95 | 4.85 | 5.05 | 68071600 |
| | | 4 | 5.04 | 4.94 | 5.14 | 61676400 |
| | | 5 | 5.21 | 5.11 | 5.31 | 65732600 |
| Aroclor-1262 | 500 | 1 | 6.79 | 6.69 | 6.89 | 340780000 |
| | | 2 | 7.29 | 7.19 | 7.39 | 502862000 |
| | | 3 | 7.57 | 7.47 | 7.67 | 187635000 |
| | | 4 | 7.64 | 7.54 | 7.74 | 330230000 |
| | | 5 | 8.13 | 8.03 | 8.23 | 112306000 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_P **Calibration Date(s):** 05/19/2025 05/19/2025

**Calibration Times:** 09:42 18:25

GC Column: ZB-MR1 ID: 0.32 (mm)

**LAB FILE ID:** RT 1000 = PP072164.D RT 750 = PP072165.D

RT 500 = PP072166.D RT 250 = PP072167.D RT 050 = PP072168.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 050 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.65 | 5.65 | 5.65 | 5.66 | 5.65 | 5.65 | 5.55 | 5.75 |
| Aroclor-1016-2 | (2) | 5.68 | 5.67 | 5.67 | 5.68 | 5.67 | 5.67 | 5.57 | 5.77 |
| Aroclor-1016-3 | (3) | 5.74 | 5.74 | 5.74 | 5.74 | 5.73 | 5.74 | 5.64 | 5.84 |
| Aroclor-1016-4 | (4) | 5.84 | 5.83 | 5.83 | 5.84 | 5.83 | 5.83 | 5.73 | 5.93 |
| Aroclor-1016-5 | (5) | 6.13 | 6.13 | 6.13 | 6.13 | 6.13 | 6.13 | 6.03 | 6.23 |
| Aroclor-1260-1 | (1) | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.15 | 7.35 |
| Aroclor-1260-2 | (2) | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.40 | 7.60 |
| Aroclor-1260-3 | (3) | 7.86 | 7.86 | 7.86 | 7.86 | 7.86 | 7.86 | 7.76 | 7.96 |
| Aroclor-1260-4 | (4) | 8.09 | 8.08 | 8.09 | 8.09 | 8.08 | 8.09 | 7.99 | 8.19 |
| Aroclor-1260-5 | (5) | 8.40 | 8.40 | 8.40 | 8.41 | 8.40 | 8.40 | 8.30 | 8.50 |
| Decachlorobiphenyl | | 10.21 | 10.21 | 10.21 | 10.21 | 10.21 | 10.21 | 10.11 | 10.31 |
| Tetrachloro-m-xylene | | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.40 | 4.60 |
| Aroclor-1232-1 | (1) | 4.86 | 4.86 | 4.86 | 4.87 | 4.86 | 4.86 | 4.76 | 4.96 |
| Aroclor-1232-2 | (2) | 5.39 | 5.39 | 5.39 | 5.39 | 5.39 | 5.39 | 5.29 | 5.49 |
| Aroclor-1232-3 | (3) | 5.68 | 5.68 | 5.68 | 5.68 | 5.67 | 5.68 | 5.58 | 5.78 |
| Aroclor-1232-4 | (4) | 5.84 | 5.84 | 5.84 | 5.84 | 5.83 | 5.84 | 5.74 | 5.94 |
| Aroclor-1232-5 | (5) | 5.93 | 5.93 | 5.93 | 5.93 | 5.92 | 5.93 | 5.83 | 6.03 |
| Decachlorobiphenyl | | 10.21 | 10.22 | 10.21 | 10.22 | 10.21 | 10.21 | 10.11 | 10.31 |
| Tetrachloro-m-xylene | | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.40 | 4.60 |
| Aroclor-1242-1 | (1) | 5.66 | 5.66 | 5.66 | 5.65 | 5.65 | 5.66 | 5.56 | 5.76 |
| Aroclor-1242-2 | (2) | 5.68 | 5.68 | 5.68 | 5.68 | 5.68 | 5.68 | 5.58 | 5.78 |
| Aroclor-1242-3 | (3) | 5.74 | 5.74 | 5.74 | 5.74 | 5.74 | 5.74 | 5.64 | 5.84 |
| Aroclor-1242-4 | (4) | 5.84 | 5.84 | 5.84 | 5.84 | 5.84 | 5.84 | 5.74 | 5.94 |
| Aroclor-1242-5 | (5) | 6.57 | 6.57 | 6.57 | 6.57 | 6.57 | 6.57 | 6.47 | 6.67 |
| Decachlorobiphenyl | | 10.22 | 10.22 | 10.22 | 10.21 | 10.22 | 10.22 | 10.12 | 10.32 |
| Tetrachloro-m-xylene | | 4.50 | 4.50 | 4.51 | 4.50 | 4.50 | 4.50 | 4.40 | 4.60 |
| Aroclor-1248-1 | (1) | 5.66 | 5.66 | 5.66 | 5.66 | 5.65 | 5.66 | 5.56 | 5.76 |
| Aroclor-1248-2 | (2) | 5.93 | 5.93 | 5.93 | 5.93 | 5.93 | 5.93 | 5.83 | 6.03 |
| Aroclor-1248-3 | (3) | 6.13 | 6.13 | 6.13 | 6.13 | 6.13 | 6.13 | 6.03 | 6.23 |
| Aroclor-1248-4 | (4) | 6.53 | 6.53 | 6.53 | 6.53 | 6.53 | 6.53 | 6.43 | 6.63 |
| Aroclor-1248-5 | (5) | 6.57 | 6.57 | 6.57 | 6.57 | 6.57 | 6.57 | 6.47 | 6.67 |
| Decachlorobiphenyl | | 10.22 | 10.21 | 10.22 | 10.22 | 10.21 | 10.22 | 10.12 | 10.32 |
| Tetrachloro-m-xylene | | 4.51 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.40 | 4.60 |
| Aroclor-1254-1 | (1) | 6.51 | 6.51 | 6.51 | 6.51 | 6.51 | 6.51 | 6.41 | 6.61 |
| Aroclor-1254-2 | (2) | 6.72 | 6.72 | 6.72 | 6.72 | 6.72 | 6.72 | 6.62 | 6.82 |
| Aroclor-1254-3 | (3) | 7.09 | 7.09 | 7.09 | 7.09 | 7.09 | 7.09 | 6.99 | 7.19 |
| Aroclor-1254-4 | (4) | 7.37 | 7.37 | 7.37 | 7.37 | 7.37 | 7.37 | 7.27 | 7.47 |
| Aroclor-1254-5 | (5) | 7.79 | 7.79 | 7.79 | 7.79 | 7.79 | 7.79 | 7.69 | 7.89 |

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## RETENTION TIMES OF INITIAL CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | | 10.22 | 10.22 | 10.22 | 10.22 | 10.22 | 10.22 | 10.12 | 10.32 |
| Tetrachloro-m-xylene | | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.40 | 4.60 |
| Aroclor-1268-1 | (1) | 8.72 | 8.72 | 8.72 | 8.72 | 8.72 | 8.72 | 8.62 | 8.82 |
| Aroclor-1268-2 | (2) | 8.81 | 8.82 | 8.81 | 8.81 | 8.81 | 8.81 | 8.71 | 8.91 |
| Aroclor-1268-3 | (3) | 9.04 | 9.05 | 9.04 | 9.04 | 9.05 | 9.04 | 8.94 | 9.14 |
| Aroclor-1268-4 | (4) | 9.46 | 9.46 | 9.46 | 9.46 | 9.46 | 9.46 | 9.36 | 9.56 |
| Aroclor-1268-5 | (5) | 9.88 | 9.88 | 9.88 | 9.88 | 9.88 | 9.88 | 9.78 | 9.98 |
| Decachlorobiphenyl | | 10.22 | 10.22 | 10.22 | 10.21 | 10.22 | 10.22 | 10.12 | 10.32 |
| Tetrachloro-m-xylene | | 4.50 | 4.51 | 4.50 | 4.50 | 4.50 | 4.50 | 4.40 | 4.60 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_P **Calibration Date(s):** 05/19/2025 05/19/2025

**Calibration Times:** 09:42 18:25

GC Column: ZB-MR2 ID: 0.32 (mm)

**LAB FILE ID:** RT 1000 = PP072164.D RT 750 = PP072165.D

RT 500 = PP072166.D RT 250 = PP072167.D RT 050 = PP072168.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 050 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.88 | 4.88 | 4.88 | 4.88 | 4.88 | 4.88 | 4.78 | 4.98 |
| Aroclor-1016-2 | (2) | 4.90 | 4.89 | 4.90 | 4.90 | 4.90 | 4.90 | 4.80 | 5.00 |
| Aroclor-1016-3 | (3) | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 4.97 | 5.17 |
| Aroclor-1016-4 | (4) | 5.11 | 5.11 | 5.12 | 5.12 | 5.12 | 5.12 | 5.02 | 5.22 |
| Aroclor-1016-5 | (5) | 5.33 | 5.33 | 5.33 | 5.33 | 5.33 | 5.33 | 5.23 | 5.43 |
| Aroclor-1260-1 | (1) | 6.36 | 6.36 | 6.36 | 6.36 | 6.36 | 6.36 | 6.26 | 6.46 |
| Aroclor-1260-2 | (2) | 6.55 | 6.55 | 6.55 | 6.55 | 6.55 | 6.55 | 6.45 | 6.65 |
| Aroclor-1260-3 | (3) | 6.71 | 6.71 | 6.71 | 6.71 | 6.71 | 6.71 | 6.61 | 6.81 |
| Aroclor-1260-4 | (4) | 7.18 | 7.18 | 7.18 | 7.18 | 7.18 | 7.18 | 7.08 | 7.28 |
| Aroclor-1260-5 | (5) | 7.42 | 7.42 | 7.42 | 7.42 | 7.42 | 7.42 | 7.32 | 7.52 |
| Decachlorobiphenyl | | 8.82 | 8.82 | 8.82 | 8.82 | 8.82 | 8.82 | 8.72 | 8.92 |
| Tetrachloro-m-xylene | | 3.79 | 3.79 | 3.79 | 3.79 | 3.79 | 3.79 | 3.69 | 3.89 |
| Aroclor-1232-1 | (1) | 4.17 | 4.17 | 4.17 | 4.17 | 4.17 | 4.17 | 4.07 | 4.27 |
| Aroclor-1232-2 | (2) | 4.90 | 4.90 | 4.90 | 4.90 | 4.90 | 4.90 | 4.80 | 5.00 |
| Aroclor-1232-3 | (3) | 5.07 | 5.08 | 5.08 | 5.07 | 5.08 | 5.08 | 4.98 | 5.18 |
| Aroclor-1232-4 | (4) | 5.16 | 5.16 | 5.16 | 5.16 | 5.16 | 5.16 | 5.06 | 5.26 |
| Aroclor-1232-5 | (5) | 5.33 | 5.33 | 5.33 | 5.33 | 5.33 | 5.33 | 5.23 | 5.43 |
| Decachlorobiphenyl | | 8.82 | 8.82 | 8.82 | 8.82 | 8.82 | 8.82 | 8.72 | 8.92 |
| Tetrachloro-m-xylene | | 3.80 | 3.80 | 3.80 | 3.80 | 3.80 | 3.80 | 3.70 | 3.90 |
| Aroclor-1242-1 | (1) | 4.88 | 4.88 | 4.88 | 4.88 | 4.88 | 4.88 | 4.78 | 4.98 |
| Aroclor-1242-2 | (2) | 4.90 | 4.90 | 4.90 | 4.90 | 4.90 | 4.90 | 4.80 | 5.00 |
| Aroclor-1242-3 | (3) | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 4.98 | 5.18 |
| Aroclor-1242-4 | (4) | 5.16 | 5.16 | 5.16 | 5.16 | 5.16 | 5.16 | 5.06 | 5.26 |
| Aroclor-1242-5 | (5) | 5.68 | 5.68 | 5.69 | 5.68 | 5.68 | 5.68 | 5.58 | 5.78 |
| Decachlorobiphenyl | | 8.83 | 8.83 | 8.83 | 8.83 | 8.82 | 8.83 | 8.73 | 8.93 |
| Tetrachloro-m-xylene | | 3.80 | 3.80 | 3.80 | 3.80 | 3.80 | 3.80 | 3.70 | 3.90 |
| Aroclor-1248-1 | (1) | 4.88 | 4.88 | 4.88 | 4.88 | 4.88 | 4.88 | 4.78 | 4.98 |
| Aroclor-1248-2 | (2) | 5.12 | 5.12 | 5.12 | 5.12 | 5.12 | 5.12 | 5.02 | 5.22 |
| Aroclor-1248-3 | (3) | 5.16 | 5.16 | 5.16 | 5.16 | 5.16 | 5.16 | 5.06 | 5.26 |
| Aroclor-1248-4 | (4) | 5.33 | 5.33 | 5.33 | 5.33 | 5.33 | 5.33 | 5.23 | 5.43 |
| Aroclor-1248-5 | (5) | 5.73 | 5.73 | 5.73 | 5.73 | 5.73 | 5.73 | 5.63 | 5.83 |
| Decachlorobiphenyl | | 8.83 | 8.83 | 8.83 | 8.83 | 8.82 | 8.83 | 8.73 | 8.93 |
| Tetrachloro-m-xylene | | 3.80 | 3.80 | 3.80 | 3.80 | 3.80 | 3.80 | 3.70 | 3.90 |
| Aroclor-1254-1 | (1) | 5.69 | 5.69 | 5.69 | 5.69 | 5.69 | 5.69 | 5.59 | 5.79 |
| Aroclor-1254-2 | (2) | 5.83 | 5.83 | 5.83 | 5.83 | 5.83 | 5.83 | 5.73 | 5.93 |
| Aroclor-1254-3 | (3) | 6.24 | 6.24 | 6.24 | 6.24 | 6.24 | 6.24 | 6.14 | 6.34 |
| Aroclor-1254-4 | (4) | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.37 | 6.57 |
| Aroclor-1254-5 | (5) | 6.88 | 6.88 | 6.88 | 6.88 | 6.88 | 6.88 | 6.78 | 6.98 |

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## RETENTION TIMES OF INITIAL CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | | 8.83 | 8.83 | 8.83 | 8.83 | 8.83 | 8.83 | 8.73 | 8.93 |
| Tetrachloro-m-xylene | | 3.80 | 3.80 | 3.80 | 3.80 | 3.80 | 3.80 | 3.70 | 3.90 |
| Aroclor-1268-1 | (1) | 7.70 | 7.70 | 7.70 | 7.70 | 7.70 | 7.70 | 7.60 | 7.80 |
| Aroclor-1268-2 | (2) | 7.77 | 7.77 | 7.77 | 7.77 | 7.77 | 7.77 | 7.67 | 7.87 |
| Aroclor-1268-3 | (3) | 7.97 | 7.97 | 7.97 | 7.97 | 7.97 | 7.97 | 7.87 | 8.07 |
| Aroclor-1268-4 | (4) | 8.27 | 8.27 | 8.27 | 8.27 | 8.27 | 8.27 | 8.17 | 8.37 |
| Aroclor-1268-5 | (5) | 8.57 | 8.57 | 8.57 | 8.57 | 8.57 | 8.57 | 8.47 | 8.67 |
| Decachlorobiphenyl | | 8.83 | 8.83 | 8.83 | 8.82 | 8.82 | 8.83 | 8.73 | 8.93 |
| Tetrachloro-m-xylene | | 3.80 | 3.80 | 3.80 | 3.80 | 3.80 | 3.80 | 3.70 | 3.90 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_P **Calibration Date(s):** 05/19/2025 05/19/2025

**Calibration Times:** 09:42 18:25

**GC Column:** ZB-MR1 **ID:** 0.32 (mm)

**LAB FILE ID:** **CF 1000 =** PP072164.D **CF 750 =** PP072165.D

**CF 500 =** PP072166.D **CF 250 =** PP072167.D **CF 050 =** PP072168.D

| COMPOUND | | CF 1000 | CF 750 | CF 500 | CF 250 | CF 050 | CF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 66878491 | 69828851 | 76010044 | 83211968 | 79488900 | 75083651 | 9 |
| Aroclor-1016-2 | (2) | 99468528 | 104467549 | 110518222 | 118579572 | 101924480 | 106991670 | 7 |
| Aroclor-1016-3 | (3) | 61412187 | 64234915 | 67714060 | 73550892 | 60912680 | 65564947 | 8 |
| Aroclor-1016-4 | (4) | 50363803 | 53404009 | 55311866 | 58220708 | 49049560 | 53269989 | 7 |
| Aroclor-1016-5 | (5) | 45437165 | 47941741 | 49914606 | 51189784 | 50062640 | 48909187 | 5 |
| Aroclor-1260-1 | (1) | 85553757 | 90346417 | 93957158 | 98060904 | 100055640 | 93594775 | 6 |
| Aroclor-1260-2 | (2) | 135650987 | 137755076 | 143609204 | 149400496 | 151032820 | 143489717 | 5 |
| Aroclor-1260-3 | (3) | 109042220 | 112821207 | 117388622 | 121236852 | 108865120 | 113870804 | 5 |
| Aroclor-1260-4 | (4) | 102101329 | 107107725 | 110940768 | 114591832 | 101771400 | 107302611 | 5 |
| Aroclor-1260-5 | (5) | 228876095 | 233706888 | 240834266 | 249937120 | 229956720 | 236662218 | 4 |
| Decachlorobiphenyl | | 1538266220 | 1617591187 | 1654764640 | 1712186920 | 1622812600 | 1629124313 | 4 |
| Tetrachloro-m-xylene | | 1944699760 | 2026562000 | 2072807240 | 2135906680 | 1874026800 | 2010800496 | 5 |
| Aroclor-1232-1 | (1) | 44075653 | 45896815 | 48002922 | 48247276 | 49319600 | 47108453 | 4 |
| Aroclor-1232-2 | (2) | 21717379 | 22928696 | 23244388 | 23029808 | 25495660 | 23283186 | 6 |
| Aroclor-1232-3 | (3) | 46772523 | 50148184 | 51844656 | 54382920 | 47167260 | 50063109 | 6 |
| Aroclor-1232-4 | (4) | 23238504 | 24146713 | 24804390 | 26183196 | 27122440 | 25099049 | 6 |
| Aroclor-1232-5 | (5) | 15752983 | 16470224 | 16442412 | 18109320 | 20822780 | 17519544 | 12 |
| Decachlorobiphenyl | | 1545279190 | 1600827560 | 1672901480 | 1703701720 | 1499866000 | 1604515190 | 5 |
| Tetrachloro-m-xylene | | 1886122400 | 2000973440 | 2054641840 | 2122290120 | 1923172600 | 1997440080 | 5 |
| Aroclor-1242-1 | (1) | 56211553 | 57323072 | 62083360 | 65843868 | 71524840 | 62597339 | 10 |
| Aroclor-1242-2 | (2) | 82973080 | 85971496 | 91883334 | 97584776 | 75486540 | 86779845 | 10 |
| Aroclor-1242-3 | (3) | 51559127 | 52121972 | 55496172 | 57080948 | 59071260 | 55065896 | 6 |
| Aroclor-1242-4 | (4) | 41207603 | 43030657 | 45948576 | 46781836 | 44776460 | 44349026 | 5 |
| Aroclor-1242-5 | (5) | 47977894 | 48696228 | 50879554 | 52435600 | 54934800 | 50984815 | 6 |
| Decachlorobiphenyl | | 1526214180 | 1567133680 | 1645977640 | 1728993240 | 1487418400 | 1591147428 | 6 |
| Tetrachloro-m-xylene | | 1827808490 | 1928927520 | 1991275140 | 2114690400 | 1713029600 | 1915146230 | 8 |
| Aroclor-1248-1 | (1) | 44038397 | 47472432 | 47912646 | 51445364 | 51108500 | 48395468 | 6 |
| Aroclor-1248-2 | (2) | 56984732 | 59400859 | 61165396 | 63476680 | 62172680 | 60640069 | 4 |
| Aroclor-1248-3 | (3) | 64677132 | 65813748 | 68767932 | 70638012 | 61003720 | 66180109 | 6 |
| Aroclor-1248-4 | (4) | 81606824 | 85304428 | 88412180 | 92196600 | 89440360 | 87392078 | 5 |
| Aroclor-1248-5 | (5) | 77587697 | 81003728 | 83211240 | 86851844 | 86474060 | 83025714 | 5 |
| Decachlorobiphenyl | | 1573368300 | 1599269360 | 1663196880 | 1714969280 | 1478724200 | 1605905604 | 6 |
| Tetrachloro-m-xylene | | 1880240370 | 1909383627 | 1990709860 | 2112434560 | 1856348600 | 1949823403 | 5 |
| Aroclor-1254-1 | (1) | 79792123 | 82783284 | 86922424 | 91684028 | 88834440 | 86003260 | 6 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1254-2 | (2) | 120142096 | 124850076 | 131105324 | 134547092 | 142741880 | 130677294 | 7 |
| Aroclor-1254-3 | (3) | 124307316 | 127832729 | 133782854 | 136984312 | 137108200 | 132003082 | 4 |
| Aroclor-1254-4 | (4) | 116304358 | 118550812 | 124418220 | 136069712 | 157210520 | 130510724 | 13 |
| Aroclor-1254-5 | (5) | 107938622 | 112056604 | 116315218 | 117138120 | 102784720 | 111246657 | 5 |
| Decachlorobiphenyl | | 1576500070 | 1614032093 | 1688035380 | 1708021160 | 1475084400 | 1612334621 | 6 |
| Tetrachloro-m-xylene | | 1869066560 | 1948875347 | 2032435420 | 2069900400 | 1617536400 | 1907562825 | 9 |
| Aroclor-1268-1 | (1) | 315692357 | 322966827 | 337626016 | 351356792 | 338115380 | 333151474 | 4 |
| Aroclor-1268-2 | (2) | 265886956 | 272371317 | 285215132 | 296487980 | 279979560 | 279988189 | 4 |
| Aroclor-1268-3 | (3) | 227961300 | 235081659 | 247250176 | 255747588 | 241284760 | 241465097 | 4 |
| Aroclor-1268-4 | (4) | 101392203 | 104765767 | 107968348 | 108360296 | 102254740 | 104948271 | 3 |
| Aroclor-1268-5 | (5) | 651541042 | 667177075 | 686960040 | 706355632 | 672967440 | 677000246 | 3 |
| Decachlorobiphenyl | | 2733685450 | 2815599213 | 2937966700 | 3038738360 | 2636754200 | 2832548785 | 6 |
| Tetrachloro-m-xylene | | 1849618000 | 1900065360 | 1995699220 | 2054630680 | 1744336400 | 1908869932 | 6 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_P **Calibration Date(s):** 05/19/2025 05/19/2025

**Calibration Times:** 09:42 18:25

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 1000 =** PP072164.D **CF 750 =** PP072165.D

**CF 500 =** PP072166.D **CF 250 =** PP072167.D **CF 050 =** PP072168.D

| COMPOUND | | CF 1000 | CF 750 | CF 500 | CF 250 | CF 050 | CF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 54525663 | 58849481 | 59632288 | 64515432 | 69624760 | 61429525 | 9 |
| Aroclor-1016-2 | (2) | 79772717 | 86154421 | 85288758 | 92453296 | 95277560 | 87789350 | 7 |
| Aroclor-1016-3 | (3) | 42641318 | 46352395 | 47330430 | 50989192 | 50959120 | 47654491 | 7 |
| Aroclor-1016-4 | (4) | 33654246 | 36754908 | 37811202 | 41521120 | 40485160 | 38045327 | 8 |
| Aroclor-1016-5 | (5) | 43791070 | 47744144 | 49105368 | 53701332 | 54780200 | 49824423 | 9 |
| Aroclor-1260-1 | (1) | 72244144 | 75307759 | 80373306 | 84844232 | 85999160 | 79753720 | 7 |
| Aroclor-1260-2 | (2) | 87664004 | 90365408 | 98490088 | 104924488 | 125666920 | 101422182 | 15 |
| Aroclor-1260-3 | (3) | 79909091 | 81326363 | 88937536 | 92494016 | 91844780 | 86902357 | 7 |
| Aroclor-1260-4 | (4) | 64349922 | 67685321 | 72647720 | 77711116 | 78060640 | 72090944 | 8 |
| Aroclor-1260-5 | (5) | 161315528 | 166937577 | 177635780 | 187517596 | 174713540 | 173624004 | 6 |
| Decachlorobiphenyl | | 920208980 | 1044964960 | 1093136160 | 1163579000 | 1071118200 | 1058601460 | 8 |
| Tetrachloro-m-xylene | | 1547649930 | 1584243107 | 1593704220 | 1639561360 | 1626633000 | 1598358323 | 2 |
| Aroclor-1232-1 | (1) | 37616932 | 40592059 | 45290150 | 47667724 | 45555860 | 43344545 | 9 |
| Aroclor-1232-2 | (2) | 39358353 | 42024527 | 44532022 | 47402620 | 47585980 | 44180700 | 8 |
| Aroclor-1232-3 | (3) | 20796080 | 22347549 | 23808552 | 25172964 | 24790340 | 23383097 | 8 |
| Aroclor-1232-4 | (4) | 17897124 | 19415229 | 20680720 | 21689292 | 23918420 | 20720157 | 11 |
| Aroclor-1232-5 | (5) | 19472370 | 21237964 | 22534450 | 24219412 | 28307940 | 23154427 | 15 |
| Decachlorobiphenyl | | 991061470 | 1069964400 | 1120483020 | 1147415120 | 1151969600 | 1096178722 | 6 |
| Tetrachloro-m-xylene | | 1503650850 | 1560846907 | 1685979140 | 1671096560 | 1578260800 | 1599966851 | 5 |
| Aroclor-1242-1 | (1) | 46123670 | 49902476 | 52843000 | 57237560 | 54435320 | 52108405 | 8 |
| Aroclor-1242-2 | (2) | 66003789 | 71039361 | 75471286 | 80940564 | 74026140 | 73496228 | 8 |
| Aroclor-1242-3 | (3) | 34394227 | 38777200 | 41064482 | 44714476 | 36677280 | 39125533 | 10 |
| Aroclor-1242-4 | (4) | 32146418 | 36854119 | 38826456 | 43192656 | 36894340 | 37582798 | 11 |
| Aroclor-1242-5 | (5) | 41776015 | 46613400 | 48754570 | 54226988 | 49917340 | 48257663 | 9 |
| Decachlorobiphenyl | | 967171680 | 1074707920 | 1046164720 | 1163123680 | 1078294400 | 1065892480 | 7 |
| Tetrachloro-m-xylene | | 1545621850 | 1670448987 | 1600956100 | 1623877080 | 1377345600 | 1563649923 | 7 |
| Aroclor-1248-1 | (1) | 38942472 | 38080832 | 42980810 | 46736940 | 49867020 | 43321615 | 12 |
| Aroclor-1248-2 | (2) | 50685144 | 49386624 | 55814958 | 61079164 | 65420760 | 56477330 | 12 |
| Aroclor-1248-3 | (3) | 53612101 | 51937139 | 58301874 | 64007240 | 67677000 | 59107071 | 11 |
| Aroclor-1248-4 | (4) | 63542852 | 61081784 | 68799052 | 75621092 | 79219440 | 69652844 | 11 |
| Aroclor-1248-5 | (5) | 63751699 | 62374025 | 69241268 | 74501112 | 78829180 | 69739457 | 10 |
| Decachlorobiphenyl | | 1077930460 | 1066864453 | 1129616840 | 1218519160 | 1187538600 | 1136093903 | 6 |
| Tetrachloro-m-xylene | | 1585370290 | 1544149787 | 1686359520 | 1807980440 | 1717995000 | 1668371007 | 6 |
| Aroclor-1254-1 | (1) | 88394708 | 92134828 | 103452628 | 109580892 | 106208260 | 99954263 | 9 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1254-2 | (2) | 75158218 | 78808232 | 90151838 | 93786952 | 93629340 | 86306916 | 10 |
| Aroclor-1254-3 | (3) | 118588697 | 123091027 | 137573488 | 140955076 | 122895140 | 128620686 | 8 |
| Aroclor-1254-4 | (4) | 76184182 | 79817879 | 90049888 | 92363636 | 88066400 | 85296397 | 8 |
| Aroclor-1254-5 | (5) | 103321222 | 111630831 | 120507404 | 120857332 | 110441220 | 113351602 | 7 |
| Decachlorobiphenyl | | 1048618240 | 1081081133 | 1110321040 | 1211638680 | 1138223000 | 1117976419 | 6 |
| Tetrachloro-m-xylene | | 1515554540 | 1677026120 | 1758978840 | 1703246040 | 1394379800 | 1609837068 | 9 |
| Aroclor-1268-1 | (1) | 212587803 | 222334836 | 235771254 | 243664628 | 256729280 | 234217560 | 7 |
| Aroclor-1268-2 | (2) | 188526781 | 196925783 | 208389682 | 217661736 | 222594360 | 206819668 | 7 |
| Aroclor-1268-3 | (3) | 155195263 | 161035703 | 174669460 | 176674312 | 179279020 | 169370752 | 6 |
| Aroclor-1268-4 | (4) | 67370219 | 71019111 | 74855072 | 76562592 | 74977520 | 72956903 | 5 |
| Aroclor-1268-5 | (5) | 431064337 | 442819956 | 457037218 | 461770552 | 492119380 | 456962289 | 5 |
| Decachlorobiphenyl | | 1753973260 | 1820277787 | 1902401960 | 1966032280 | 2130248600 | 1914586777 | 8 |
| Tetrachloro-m-xylene | | 1581658390 | 1604094987 | 1649636500 | 1662342440 | 1498230000 | 1599192463 | 4 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_P **Date(s) Analyzed:** 05/19/2025 05/19/2025

**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 | 4.70 | 4.60 | 4.80 | 25133000 |
| | | 2 | 4.79 | 4.69 | 4.89 | 17981400 |
| | | 3 | 4.86 | 4.76 | 4.96 | 58509600 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1262 | 500 | 1 | 8.09 | 7.99 | 8.19 | 133245000 |
| | | 2 | 8.41 | 8.31 | 8.51 | 272386000 |
| | | 3 | 8.72 | 8.62 | 8.82 | 185530000 |
| | | 4 | 8.81 | 8.71 | 8.91 | 134281000 |
| | | 5 | 9.46 | 9.36 | 9.56 | 92460600 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_P **Date(s) Analyzed:** 05/19/2025 05/19/2025

**GC Column:** ZB-MR2 **ID:** 0.32 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Aroclor-1221 | 500 | 1 | 4.01 | 3.91 | 4.11 | 23124400 |
| | | 2 | 4.09 | 3.99 | 4.19 | 17698400 |
| | | 3 | 4.17 | 4.07 | 4.27 | 52270400 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1262 | 500 | 1 | 6.92 | 6.82 | 7.02 | 113028000 |
| | | 2 | 7.18 | 7.08 | 7.28 | 97127000 |
| | | 3 | 7.70 | 7.60 | 7.80 | 81531200 |
| | | 4 | 7.77 | 7.67 | 7.87 | 140624000 |
| | | 5 | 8.27 | 8.17 | 8.37 | 65083800 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/03/2025 **Initial Calibration Date(s):** 05/14/2025 05/15/2025

**Continuing Calib Time:** 16:42 **Initial Calibration Time(s):** 17:19 01:31

**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) | 4.77 | 4.77 | 4.67 | 4.87 | 0.00 |
| Aroclor-1016-2 | (2) | 4.79 | 4.79 | 4.69 | 4.89 | 0.00 |
| Aroclor-1016-3 | (3) | 4.84 | 4.85 | 4.75 | 4.95 | 0.01 |
| Aroclor-1016-4 | (4) | 4.96 | 4.97 | 4.87 | 5.07 | 0.01 |
| Aroclor-1016-5 | (5) | 5.22 | 5.23 | 5.13 | 5.33 | 0.01 |
| Aroclor-1260-1 | (1) | 6.26 | 6.27 | 6.17 | 6.37 | 0.01 |
| Aroclor-1260-2 | (2) | 6.45 | 6.46 | 6.36 | 6.56 | 0.01 |
| Aroclor-1260-3 | (3) | 6.82 | 6.82 | 6.72 | 6.92 | 0.00 |
| Aroclor-1260-4 | (4) | 7.08 | 7.08 | 6.98 | 7.18 | 0.00 |
| Aroclor-1260-5 | (5) | 7.32 | 7.33 | 7.23 | 7.43 | 0.01 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.58 | 3.78 | 0.00 |
| Decachlorobiphenyl | | 8.72 | 8.72 | 8.62 | 8.82 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/03/2025 **Initial Calibration Date(s):** 05/14/2025 05/15/2025

**Continuing Calib Time:** 16:42 **Initial Calibration Time(s):** 17:19 01:31

**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) | 4.75 | 4.76 | 4.66 | 4.86 | 0.01 |
| Aroclor-1016-2 | (2) | 4.77 | 4.78 | 4.68 | 4.88 | 0.01 |
| Aroclor-1016-3 | (3) | 4.95 | 4.95 | 4.85 | 5.05 | 0.00 |
| Aroclor-1016-4 | (4) | 4.99 | 4.99 | 4.89 | 5.09 | 0.00 |
| Aroclor-1016-5 | (5) | 5.20 | 5.21 | 5.11 | 5.31 | 0.01 |
| Aroclor-1260-1 | (1) | 6.23 | 6.24 | 6.14 | 6.34 | 0.01 |
| Aroclor-1260-2 | (2) | 6.42 | 6.43 | 6.33 | 6.53 | 0.01 |
| Aroclor-1260-3 | (3) | 6.57 | 6.58 | 6.48 | 6.68 | 0.01 |
| Aroclor-1260-4 | (4) | 7.04 | 7.05 | 6.95 | 7.15 | 0.01 |
| Aroclor-1260-5 | (5) | 7.29 | 7.29 | 7.19 | 7.39 | 0.01 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.58 | 3.78 | 0.00 |
| Decachlorobiphenyl | | 8.67 | 8.67 | 8.57 | 8.77 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/14/2025 05/14/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 06/03/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PO111433.D **Time Analyzed:** 16:42

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.768 | 4.673 | 4.873 | 552.970 | 500.000 | 10.6 |
| Aroclor-1016-2 | 4.787 | 4.692 | 4.892 | 530.380 | 500.000 | 6.1 |
| Aroclor-1016-3 | 4.844 | 4.749 | 4.949 | 530.020 | 500.000 | 6.0 |
| Aroclor-1016-4 | 4.964 | 4.869 | 5.069 | 577.700 | 500.000 | 15.5 |
| Aroclor-1016-5 | 5.221 | 5.126 | 5.326 | 582.000 | 500.000 | 16.4 |
| Aroclor-1260-1 | 6.260 | 6.166 | 6.366 | 551.700 | 500.000 | 10.3 |
| Aroclor-1260-2 | 6.450 | 6.355 | 6.555 | 560.720 | 500.000 | 12.1 |
| Aroclor-1260-3 | 6.817 | 6.722 | 6.922 | 538.560 | 500.000 | 7.7 |
| Aroclor-1260-4 | 7.076 | 6.983 | 7.183 | 507.550 | 500.000 | 1.5 |
| Aroclor-1260-5 | 7.319 | 7.225 | 7.425 | 507.550 | 500.000 | 1.5 |
| Decachlorobiphenyl | 8.717 | 8.624 | 8.824 | 46.200 | 50.000 | -7.6 |
| Tetrachloro-m-xylene | 3.680 | 3.582 | 3.782 | 52.150 | 50.000 | 4.3 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/14/2025 05/14/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 06/03/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PO111433.D **Time Analyzed:** 16:42

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.754 | 4.658 | 4.858 | 489.210 | 500.000 | -2.2 |
| Aroclor-1016-2 | 4.773 | 4.677 | 4.877 | 498.300 | 500.000 | -0.3 |
| Aroclor-1016-3 | 4.948 | 4.852 | 5.052 | 493.440 | 500.000 | -1.3 |
| Aroclor-1016-4 | 4.990 | 4.894 | 5.094 | 474.950 | 500.000 | -5.0 |
| Aroclor-1016-5 | 5.203 | 5.107 | 5.307 | 496.560 | 500.000 | -0.7 |
| Aroclor-1260-1 | 6.233 | 6.138 | 6.338 | 477.340 | 500.000 | -4.5 |
| Aroclor-1260-2 | 6.420 | 6.326 | 6.526 | 472.940 | 500.000 | -5.4 |
| Aroclor-1260-3 | 6.573 | 6.479 | 6.679 | 441.750 | 500.000 | -11.7 |
| Aroclor-1260-4 | 7.044 | 6.949 | 7.149 | 457.770 | 500.000 | -8.4 |
| Aroclor-1260-5 | 7.285 | 7.191 | 7.391 | 448.540 | 500.000 | -10.3 |
| Decachlorobiphenyl | 8.666 | 8.574 | 8.774 | 44.910 | 50.000 | -10.2 |
| Tetrachloro-m-xylene | 3.676 | 3.579 | 3.779 | 51.120 | 50.000 | 2.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/03/2025 **Initial Calibration Date(s):** 05/14/2025 05/15/2025

**Continuing Calib Time:** 22:13 **Initial Calibration Time(s):** 17:19 01:31

**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) | 4.77 | 4.77 | 4.67 | 4.87 | 0.00 |
| Aroclor-1016-2 | (2) | 4.79 | 4.79 | 4.69 | 4.89 | 0.00 |
| Aroclor-1016-3 | (3) | 4.84 | 4.85 | 4.75 | 4.95 | 0.01 |
| Aroclor-1016-4 | (4) | 4.96 | 4.97 | 4.87 | 5.07 | 0.01 |
| Aroclor-1016-5 | (5) | 5.22 | 5.23 | 5.13 | 5.33 | 0.01 |
| Aroclor-1260-1 | (1) | 6.26 | 6.27 | 6.17 | 6.37 | 0.01 |
| Aroclor-1260-2 | (2) | 6.45 | 6.46 | 6.36 | 6.56 | 0.01 |
| Aroclor-1260-3 | (3) | 6.82 | 6.82 | 6.72 | 6.92 | 0.00 |
| Aroclor-1260-4 | (4) | 7.08 | 7.08 | 6.98 | 7.18 | 0.01 |
| Aroclor-1260-5 | (5) | 7.32 | 7.33 | 7.23 | 7.43 | 0.01 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.58 | 3.78 | 0.00 |
| Decachlorobiphenyl | | 8.72 | 8.72 | 8.62 | 8.82 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/03/2025 **Initial Calibration Date(s):** 05/14/2025 05/15/2025

**Continuing Calib Time:** 22:13 **Initial Calibration Time(s):** 17:19 01:31

**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) | 4.75 | 4.76 | 4.66 | 4.86 | 0.01 |
| Aroclor-1016-2 | (2) | 4.77 | 4.78 | 4.68 | 4.88 | 0.01 |
| Aroclor-1016-3 | (3) | 4.95 | 4.95 | 4.85 | 5.05 | 0.00 |
| Aroclor-1016-4 | (4) | 4.99 | 4.99 | 4.89 | 5.09 | 0.00 |
| Aroclor-1016-5 | (5) | 5.20 | 5.21 | 5.11 | 5.31 | 0.01 |
| Aroclor-1260-1 | (1) | 6.23 | 6.24 | 6.14 | 6.34 | 0.01 |
| Aroclor-1260-2 | (2) | 6.42 | 6.43 | 6.33 | 6.53 | 0.01 |
| Aroclor-1260-3 | (3) | 6.57 | 6.58 | 6.48 | 6.68 | 0.01 |
| Aroclor-1260-4 | (4) | 7.04 | 7.05 | 6.95 | 7.15 | 0.01 |
| Aroclor-1260-5 | (5) | 7.28 | 7.29 | 7.19 | 7.39 | 0.01 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.58 | 3.78 | 0.00 |
| Decachlorobiphenyl | | 8.67 | 8.67 | 8.57 | 8.77 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/14/2025 05/14/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 06/03/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PO111447.D **Time Analyzed:** 22:13

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.767 | 4.673 | 4.873 | 506.430 | 500.000 | 1.3 |
| Aroclor-1016-2 | 4.786 | 4.692 | 4.892 | 519.830 | 500.000 | 4.0 |
| Aroclor-1016-3 | 4.843 | 4.749 | 4.949 | 548.120 | 500.000 | 9.6 |
| Aroclor-1016-4 | 4.963 | 4.869 | 5.069 | 582.810 | 500.000 | 16.6 |
| Aroclor-1016-5 | 5.220 | 5.126 | 5.326 | 594.000 | 500.000 | 18.8 |
| Aroclor-1260-1 | 6.260 | 6.166 | 6.366 | 533.080 | 500.000 | 6.6 |
| Aroclor-1260-2 | 6.449 | 6.355 | 6.555 | 563.270 | 500.000 | 12.7 |
| Aroclor-1260-3 | 6.815 | 6.722 | 6.922 | 540.800 | 500.000 | 8.2 |
| Aroclor-1260-4 | 7.075 | 6.983 | 7.183 | 513.040 | 500.000 | 2.6 |
| Aroclor-1260-5 | 7.318 | 7.225 | 7.425 | 513.860 | 500.000 | 2.8 |
| Decachlorobiphenyl | 8.715 | 8.624 | 8.824 | 46.220 | 50.000 | -7.6 |
| Tetrachloro-m-xylene | 3.680 | 3.582 | 3.782 | 51.410 | 50.000 | 2.8 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/14/2025 05/14/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 06/03/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PO111447.D **Time Analyzed:** 22:13

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.754 | 4.658 | 4.858 | 490.760 | 500.000 | -1.8 |
| Aroclor-1016-2 | 4.773 | 4.677 | 4.877 | 497.040 | 500.000 | -0.6 |
| Aroclor-1016-3 | 4.948 | 4.852 | 5.052 | 489.960 | 500.000 | -2.0 |
| Aroclor-1016-4 | 4.990 | 4.894 | 5.094 | 468.400 | 500.000 | -6.3 |
| Aroclor-1016-5 | 5.202 | 5.107 | 5.307 | 525.890 | 500.000 | 5.2 |
| Aroclor-1260-1 | 6.232 | 6.138 | 6.338 | 477.990 | 500.000 | -4.4 |
| Aroclor-1260-2 | 6.420 | 6.326 | 6.526 | 472.480 | 500.000 | -5.5 |
| Aroclor-1260-3 | 6.572 | 6.479 | 6.679 | 441.840 | 500.000 | -11.6 |
| Aroclor-1260-4 | 7.043 | 6.949 | 7.149 | 451.090 | 500.000 | -9.8 |
| Aroclor-1260-5 | 7.284 | 7.191 | 7.391 | 436.650 | 500.000 | -12.7 |
| Decachlorobiphenyl | 8.665 | 8.574 | 8.774 | 44.120 | 50.000 | -11.8 |
| Tetrachloro-m-xylene | 3.676 | 3.579 | 3.779 | 51.100 | 50.000 | 2.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/03/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

**Continuing Calib Time:** 10:22 **Initial Calibration Time(s):** 09:42 18:25

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.65 | 5.65 | 5.55 | 5.75 | 0.00 |
| Aroclor-1016-2 | (2) | 5.67 | 5.67 | 5.57 | 5.77 | 0.00 |
| Aroclor-1016-3 | (3) | 5.73 | 5.74 | 5.64 | 5.84 | 0.01 |
| Aroclor-1016-4 | (4) | 5.83 | 5.83 | 5.73 | 5.93 | 0.00 |
| Aroclor-1016-5 | (5) | 6.12 | 6.13 | 6.03 | 6.23 | 0.01 |
| Aroclor-1260-1 | (1) | 7.24 | 7.25 | 7.15 | 7.35 | 0.01 |
| Aroclor-1260-2 | (2) | 7.49 | 7.50 | 7.40 | 7.60 | 0.01 |
| Aroclor-1260-3 | (3) | 7.85 | 7.86 | 7.76 | 7.96 | 0.01 |
| Aroclor-1260-4 | (4) | 8.07 | 8.09 | 7.99 | 8.19 | 0.02 |
| Aroclor-1260-5 | (5) | 8.39 | 8.40 | 8.30 | 8.50 | 0.01 |
| Tetrachloro-m-xylene | | 4.50 | 4.50 | 4.40 | 4.60 | 0.01 |
| Decachlorobiphenyl | | 10.20 | 10.21 | 10.11 | 10.31 | 0.02 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/03/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

**Continuing Calib Time:** 10:22 **Initial Calibration Time(s):** 09:42 18:25

**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) | 4.87 | 4.88 | 4.78 | 4.98 | 0.01 |
| Aroclor-1016-2 | (2) | 4.89 | 4.90 | 4.80 | 5.00 | 0.01 |
| Aroclor-1016-3 | (3) | 5.07 | 5.07 | 4.97 | 5.17 | 0.00 |
| Aroclor-1016-4 | (4) | 5.11 | 5.12 | 5.02 | 5.22 | 0.01 |
| Aroclor-1016-5 | (5) | 5.33 | 5.33 | 5.23 | 5.43 | 0.01 |
| Aroclor-1260-1 | (1) | 6.36 | 6.36 | 6.26 | 6.46 | 0.00 |
| Aroclor-1260-2 | (2) | 6.55 | 6.55 | 6.45 | 6.65 | 0.00 |
| Aroclor-1260-3 | (3) | 6.70 | 6.71 | 6.61 | 6.81 | 0.01 |
| Aroclor-1260-4 | (4) | 7.17 | 7.18 | 7.08 | 7.28 | 0.01 |
| Aroclor-1260-5 | (5) | 7.41 | 7.42 | 7.32 | 7.52 | 0.01 |
| Tetrachloro-m-xylene | | 3.79 | 3.79 | 3.69 | 3.89 | 0.00 |
| Decachlorobiphenyl | | 8.81 | 8.82 | 8.72 | 8.92 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 06/03/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PP072553.D **Time Analyzed:** 10:22

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.647 | 5.552 | 5.752 | 428.340 | 500.000 | -14.3 |
| Aroclor-1016-2 | 5.669 | 5.574 | 5.774 | 464.800 | 500.000 | -7.0 |
| Aroclor-1016-3 | 5.731 | 5.636 | 5.836 | 458.790 | 500.000 | -8.2 |
| Aroclor-1016-4 | 5.829 | 5.734 | 5.934 | 479.670 | 500.000 | -4.1 |
| Aroclor-1016-5 | 6.121 | 6.027 | 6.227 | 471.030 | 500.000 | -5.8 |
| Aroclor-1260-1 | 7.239 | 7.147 | 7.347 | 488.880 | 500.000 | -2.2 |
| Aroclor-1260-2 | 7.492 | 7.401 | 7.601 | 466.630 | 500.000 | -6.7 |
| Aroclor-1260-3 | 7.850 | 7.760 | 7.960 | 483.300 | 500.000 | -3.3 |
| Aroclor-1260-4 | 8.074 | 7.985 | 8.185 | 483.820 | 500.000 | -3.2 |
| Aroclor-1260-5 | 8.393 | 8.303 | 8.503 | 496.840 | 500.000 | -0.6 |
| Decachlorobiphenyl | 10.195 | 10.113 | 10.313 | 50.460 | 50.000 | 0.9 |
| Tetrachloro-m-xylene | 4.495 | 4.396 | 4.596 | 48.810 | 50.000 | -2.4 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 06/03/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PP072553.D **Time Analyzed:** 10:22

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.874 | 4.777 | 4.977 | 488.160 | 500.000 | -2.4 |
| Aroclor-1016-2 | 4.892 | 4.795 | 4.995 | 494.600 | 500.000 | -1.1 |
| Aroclor-1016-3 | 5.069 | 4.973 | 5.173 | 501.810 | 500.000 | 0.4 |
| Aroclor-1016-4 | 5.111 | 5.015 | 5.215 | 504.360 | 500.000 | 0.9 |
| Aroclor-1016-5 | 5.325 | 5.229 | 5.429 | 546.340 | 500.000 | 9.3 |
| Aroclor-1260-1 | 6.357 | 6.264 | 6.464 | 520.360 | 500.000 | 4.1 |
| Aroclor-1260-2 | 6.545 | 6.453 | 6.653 | 487.870 | 500.000 | -2.4 |
| Aroclor-1260-3 | 6.697 | 6.606 | 6.806 | 509.120 | 500.000 | 1.8 |
| Aroclor-1260-4 | 7.168 | 7.077 | 7.277 | 511.170 | 500.000 | 2.2 |
| Aroclor-1260-5 | 7.410 | 7.319 | 7.519 | 513.820 | 500.000 | 2.8 |
| Decachlorobiphenyl | 8.808 | 8.723 | 8.923 | 55.840 | 50.000 | 11.7 |
| Tetrachloro-m-xylene | 3.793 | 3.691 | 3.891 | 50.620 | 50.000 | 1.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/03/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

**Continuing Calib Time:** 16:59 **Initial Calibration Time(s):** 09:42 18:25

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.65 | 5.65 | 5.55 | 5.75 | 0.00 |
| Aroclor-1016-2 | (2) | 5.67 | 5.67 | 5.57 | 5.77 | 0.00 |
| Aroclor-1016-3 | (3) | 5.74 | 5.74 | 5.64 | 5.84 | 0.00 |
| Aroclor-1016-4 | (4) | 5.83 | 5.83 | 5.73 | 5.93 | 0.00 |
| Aroclor-1016-5 | (5) | 6.13 | 6.13 | 6.03 | 6.23 | 0.00 |
| Aroclor-1260-1 | (1) | 7.24 | 7.25 | 7.15 | 7.35 | 0.01 |
| Aroclor-1260-2 | (2) | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |
| Aroclor-1260-3 | (3) | 7.85 | 7.86 | 7.76 | 7.96 | 0.01 |
| Aroclor-1260-4 | (4) | 8.08 | 8.09 | 7.99 | 8.19 | 0.01 |
| Aroclor-1260-5 | (5) | 8.40 | 8.40 | 8.30 | 8.50 | 0.00 |
| Tetrachloro-m-xylene | | 4.50 | 4.50 | 4.40 | 4.60 | 0.00 |
| Decachlorobiphenyl | | 10.20 | 10.21 | 10.11 | 10.31 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/03/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

**Continuing Calib Time:** 16:59 **Initial Calibration Time(s):** 09:42 18:25

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.88 | 4.88 | 4.78 | 4.98 | 0.00 |
| Aroclor-1016-2 | (2) | 4.89 | 4.90 | 4.80 | 5.00 | 0.01 |
| Aroclor-1016-3 | (3) | 5.07 | 5.07 | 4.97 | 5.17 | 0.00 |
| Aroclor-1016-4 | (4) | 5.11 | 5.12 | 5.02 | 5.22 | 0.01 |
| Aroclor-1016-5 | (5) | 5.33 | 5.33 | 5.23 | 5.43 | 0.00 |
| Aroclor-1260-1 | (1) | 6.36 | 6.36 | 6.26 | 6.46 | 0.00 |
| Aroclor-1260-2 | (2) | 6.55 | 6.55 | 6.45 | 6.65 | 0.00 |
| Aroclor-1260-3 | (3) | 6.70 | 6.71 | 6.61 | 6.81 | 0.01 |
| Aroclor-1260-4 | (4) | 7.17 | 7.18 | 7.08 | 7.28 | 0.01 |
| Aroclor-1260-5 | (5) | 7.41 | 7.42 | 7.32 | 7.52 | 0.01 |
| Tetrachloro-m-xylene | | 3.80 | 3.79 | 3.69 | 3.89 | -0.01 |
| Decachlorobiphenyl | | 8.81 | 8.82 | 8.72 | 8.92 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

**Client Sample No.:** CCAL04 **Date Analyzed:** 06/03/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PP072568.D **Time Analyzed:** 16:59

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.651 | 5.552 | 5.752 | 411.650 | 500.000 | -17.7 |
| Aroclor-1016-2 | 5.673 | 5.574 | 5.774 | 442.770 | 500.000 | -11.4 |
| Aroclor-1016-3 | 5.735 | 5.636 | 5.836 | 452.700 | 500.000 | -9.5 |
| Aroclor-1016-4 | 5.833 | 5.734 | 5.934 | 463.680 | 500.000 | -7.3 |
| Aroclor-1016-5 | 6.125 | 6.027 | 6.227 | 443.990 | 500.000 | -11.2 |
| Aroclor-1260-1 | 7.243 | 7.147 | 7.347 | 452.460 | 500.000 | -9.5 |
| Aroclor-1260-2 | 7.496 | 7.401 | 7.601 | 432.800 | 500.000 | -13.4 |
| Aroclor-1260-3 | 7.854 | 7.760 | 7.960 | 445.150 | 500.000 | -11.0 |
| Aroclor-1260-4 | 8.079 | 7.985 | 8.185 | 435.990 | 500.000 | -12.8 |
| Aroclor-1260-5 | 8.397 | 8.303 | 8.503 | 461.230 | 500.000 | -7.8 |
| Decachlorobiphenyl | 10.199 | 10.113 | 10.313 | 47.320 | 50.000 | -5.4 |
| Tetrachloro-m-xylene | 4.500 | 4.396 | 4.596 | 46.500 | 50.000 | -7.0 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

**Client Sample No.:** CCAL04 **Date Analyzed:** 06/03/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PP072568.D **Time Analyzed:** 16:59

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.877 | 4.777 | 4.977 | 486.360 | 500.000 | -2.7 |
| Aroclor-1016-2 | 4.894 | 4.795 | 4.995 | 495.400 | 500.000 | -0.9 |
| Aroclor-1016-3 | 5.071 | 4.973 | 5.173 | 493.020 | 500.000 | -1.4 |
| Aroclor-1016-4 | 5.113 | 5.015 | 5.215 | 489.380 | 500.000 | -2.1 |
| Aroclor-1016-5 | 5.327 | 5.229 | 5.429 | 537.380 | 500.000 | 7.5 |
| Aroclor-1260-1 | 6.358 | 6.264 | 6.464 | 503.150 | 500.000 | 0.6 |
| Aroclor-1260-2 | 6.547 | 6.453 | 6.653 | 478.760 | 500.000 | -4.2 |
| Aroclor-1260-3 | 6.699 | 6.606 | 6.806 | 492.400 | 500.000 | -1.5 |
| Aroclor-1260-4 | 7.169 | 7.077 | 7.277 | 481.460 | 500.000 | -3.7 |
| Aroclor-1260-5 | 7.412 | 7.319 | 7.519 | 488.860 | 500.000 | -2.2 |
| Decachlorobiphenyl | 8.810 | 8.723 | 8.923 | 53.130 | 50.000 | 6.3 |
| Tetrachloro-m-xylene | 3.795 | 3.691 | 3.891 | 50.510 | 50.000 | 1.0 |

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# CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/03/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

**Continuing Calib Time:** 22:25 **Initial Calibration Time(s):** 09:42 18:25

**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) | 5.65 | 5.65 | 5.55 | 5.75 | 0.00 |
| Aroclor-1016-2 | (2) | 5.67 | 5.67 | 5.57 | 5.77 | 0.00 |
| Aroclor-1016-3 | (3) | 5.73 | 5.74 | 5.64 | 5.84 | 0.01 |
| Aroclor-1016-4 | (4) | 5.83 | 5.83 | 5.73 | 5.93 | 0.00 |
| Aroclor-1016-5 | (5) | 6.12 | 6.13 | 6.03 | 6.23 | 0.01 |
| Aroclor-1260-1 | (1) | 7.24 | 7.25 | 7.15 | 7.35 | 0.01 |
| Aroclor-1260-2 | (2) | 7.50 | 7.50 | 7.40 | 7.60 | 0.01 |
| Aroclor-1260-3 | (3) | 7.85 | 7.86 | 7.76 | 7.96 | 0.01 |
| Aroclor-1260-4 | (4) | 8.08 | 8.09 | 7.99 | 8.19 | 0.01 |
| Aroclor-1260-5 | (5) | 8.40 | 8.40 | 8.30 | 8.50 | 0.00 |
| Tetrachloro-m-xylene | | 4.50 | 4.50 | 4.40 | 4.60 | 0.00 |
| Decachlorobiphenyl | | 10.20 | 10.21 | 10.11 | 10.31 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/03/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

**Continuing Calib Time:** 22:25 **Initial Calibration Time(s):** 09:42 18:25

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.87 | 4.88 | 4.78 | 4.98 | 0.01 |
| Aroclor-1016-2 | (2) | 4.89 | 4.90 | 4.80 | 5.00 | 0.01 |
| Aroclor-1016-3 | (3) | 5.07 | 5.07 | 4.97 | 5.17 | 0.00 |
| Aroclor-1016-4 | (4) | 5.11 | 5.12 | 5.02 | 5.22 | 0.01 |
| Aroclor-1016-5 | (5) | 5.33 | 5.33 | 5.23 | 5.43 | 0.01 |
| Aroclor-1260-1 | (1) | 6.36 | 6.36 | 6.26 | 6.46 | 0.00 |
| Aroclor-1260-2 | (2) | 6.55 | 6.55 | 6.45 | 6.65 | 0.00 |
| Aroclor-1260-3 | (3) | 6.70 | 6.71 | 6.61 | 6.81 | 0.01 |
| Aroclor-1260-4 | (4) | 7.17 | 7.18 | 7.08 | 7.28 | 0.01 |
| Aroclor-1260-5 | (5) | 7.41 | 7.42 | 7.32 | 7.52 | 0.01 |
| Tetrachloro-m-xylene | | 3.79 | 3.79 | 3.69 | 3.89 | 0.00 |
| Decachlorobiphenyl | | 8.81 | 8.82 | 8.72 | 8.92 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

**Client Sample No.:** CCAL05 **Date Analyzed:** 06/03/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PP072583.D **Time Analyzed:** 22:25

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.650 | 5.552 | 5.752 | 414.970 | 500.000 | -17.0 |
| Aroclor-1016-2 | 5.672 | 5.574 | 5.774 | 445.260 | 500.000 | -10.9 |
| Aroclor-1016-3 | 5.734 | 5.636 | 5.836 | 446.030 | 500.000 | -10.8 |
| Aroclor-1016-4 | 5.832 | 5.734 | 5.934 | 459.390 | 500.000 | -8.1 |
| Aroclor-1016-5 | 6.124 | 6.027 | 6.227 | 450.950 | 500.000 | -9.8 |
| Aroclor-1260-1 | 7.242 | 7.147 | 7.347 | 467.980 | 500.000 | -6.4 |
| Aroclor-1260-2 | 7.495 | 7.401 | 7.601 | 442.440 | 500.000 | -11.5 |
| Aroclor-1260-3 | 7.853 | 7.760 | 7.960 | 445.300 | 500.000 | -10.9 |
| Aroclor-1260-4 | 8.076 | 7.985 | 8.185 | 438.500 | 500.000 | -12.3 |
| Aroclor-1260-5 | 8.395 | 8.303 | 8.503 | 458.750 | 500.000 | -8.3 |
| Decachlorobiphenyl | 10.196 | 10.113 | 10.313 | 47.150 | 50.000 | -5.7 |
| Tetrachloro-m-xylene | 4.499 | 4.396 | 4.596 | 46.390 | 50.000 | -7.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

**Client Sample No.:** CCAL05 **Date Analyzed:** 06/03/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PP072583.D **Time Analyzed:** 22:25

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.874 | 4.777 | 4.977 | 491.730 | 500.000 | -1.7 |
| Aroclor-1016-2 | 4.892 | 4.795 | 4.995 | 501.620 | 500.000 | 0.3 |
| Aroclor-1016-3 | 5.069 | 4.973 | 5.173 | 504.520 | 500.000 | 0.9 |
| Aroclor-1016-4 | 5.111 | 5.015 | 5.215 | 495.960 | 500.000 | -0.8 |
| Aroclor-1016-5 | 5.325 | 5.229 | 5.429 | 570.870 | 500.000 | 14.2 |
| Aroclor-1260-1 | 6.356 | 6.264 | 6.464 | 507.750 | 500.000 | 1.6 |
| Aroclor-1260-2 | 6.545 | 6.453 | 6.653 | 474.610 | 500.000 | -5.1 |
| Aroclor-1260-3 | 6.697 | 6.606 | 6.806 | 489.600 | 500.000 | -2.1 |
| Aroclor-1260-4 | 7.167 | 7.077 | 7.277 | 507.640 | 500.000 | 1.5 |
| Aroclor-1260-5 | 7.409 | 7.319 | 7.519 | 505.520 | 500.000 | 1.1 |
| Decachlorobiphenyl | 8.807 | 8.723 | 8.923 | 51.690 | 50.000 | 3.4 |
| Tetrachloro-m-xylene | 3.794 | 3.691 | 3.891 | 48.730 | 50.000 | -2.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/04/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

**Continuing Calib Time:** 03:51 **Initial Calibration Time(s):** 09:42 18:25

**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) | 5.65 | 5.65 | 5.55 | 5.75 | 0.00 |
| Aroclor-1016-2 | (2) | 5.67 | 5.67 | 5.57 | 5.77 | 0.00 |
| Aroclor-1016-3 | (3) | 5.74 | 5.74 | 5.64 | 5.84 | 0.00 |
| Aroclor-1016-4 | (4) | 5.83 | 5.83 | 5.73 | 5.93 | 0.00 |
| Aroclor-1016-5 | (5) | 6.12 | 6.13 | 6.03 | 6.23 | 0.01 |
| Aroclor-1260-1 | (1) | 7.24 | 7.25 | 7.15 | 7.35 | 0.01 |
| Aroclor-1260-2 | (2) | 7.50 | 7.50 | 7.40 | 7.60 | 0.01 |
| Aroclor-1260-3 | (3) | 7.85 | 7.86 | 7.76 | 7.96 | 0.01 |
| Aroclor-1260-4 | (4) | 8.08 | 8.09 | 7.99 | 8.19 | 0.01 |
| Aroclor-1260-5 | (5) | 8.40 | 8.40 | 8.30 | 8.50 | 0.00 |
| Tetrachloro-m-xylene | | 4.50 | 4.50 | 4.40 | 4.60 | 0.00 |
| Decachlorobiphenyl | | 10.20 | 10.21 | 10.11 | 10.31 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/04/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

**Continuing Calib Time:** 03:51 **Initial Calibration Time(s):** 09:42 18:25

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.88 | 4.88 | 4.78 | 4.98 | 0.00 |
| Aroclor-1016-2 | (2) | 4.89 | 4.90 | 4.80 | 5.00 | 0.01 |
| Aroclor-1016-3 | (3) | 5.07 | 5.07 | 4.97 | 5.17 | 0.00 |
| Aroclor-1016-4 | (4) | 5.11 | 5.12 | 5.02 | 5.22 | 0.01 |
| Aroclor-1016-5 | (5) | 5.33 | 5.33 | 5.23 | 5.43 | 0.01 |
| Aroclor-1260-1 | (1) | 6.36 | 6.36 | 6.26 | 6.46 | 0.00 |
| Aroclor-1260-2 | (2) | 6.55 | 6.55 | 6.45 | 6.65 | 0.00 |
| Aroclor-1260-3 | (3) | 6.70 | 6.71 | 6.61 | 6.81 | 0.01 |
| Aroclor-1260-4 | (4) | 7.17 | 7.18 | 7.08 | 7.28 | 0.01 |
| Aroclor-1260-5 | (5) | 7.41 | 7.42 | 7.32 | 7.52 | 0.01 |
| Tetrachloro-m-xylene | | 3.79 | 3.79 | 3.69 | 3.89 | 0.00 |
| Decachlorobiphenyl | | 8.81 | 8.82 | 8.72 | 8.92 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

**Client Sample No.:** CCAL06 **Date Analyzed:** 06/04/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PP072598.D **Time Analyzed:** 03:51

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.651 | 5.552 | 5.752 | 412.490 | 500.000 | -17.5 |
| Aroclor-1016-2 | 5.673 | 5.574 | 5.774 | 443.380 | 500.000 | -11.3 |
| Aroclor-1016-3 | 5.735 | 5.636 | 5.836 | 442.870 | 500.000 | -11.4 |
| Aroclor-1016-4 | 5.832 | 5.734 | 5.934 | 457.390 | 500.000 | -8.5 |
| Aroclor-1016-5 | 6.124 | 6.027 | 6.227 | 458.290 | 500.000 | -8.3 |
| Aroclor-1260-1 | 7.241 | 7.147 | 7.347 | 486.770 | 500.000 | -2.6 |
| Aroclor-1260-2 | 7.495 | 7.401 | 7.601 | 454.090 | 500.000 | -9.2 |
| Aroclor-1260-3 | 7.853 | 7.760 | 7.960 | 452.580 | 500.000 | -9.5 |
| Aroclor-1260-4 | 8.077 | 7.985 | 8.185 | 450.360 | 500.000 | -9.9 |
| Aroclor-1260-5 | 8.395 | 8.303 | 8.503 | 469.550 | 500.000 | -6.1 |
| Decachlorobiphenyl | 10.197 | 10.113 | 10.313 | 48.890 | 50.000 | -2.2 |
| Tetrachloro-m-xylene | 4.499 | 4.396 | 4.596 | 46.450 | 50.000 | -7.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

**Client Sample No.:** CCAL06 **Date Analyzed:** 06/04/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PP072598.D **Time Analyzed:** 03:51

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.875 | 4.777 | 4.977 | 489.340 | 500.000 | -2.1 |
| Aroclor-1016-2 | 4.893 | 4.795 | 4.995 | 496.050 | 500.000 | -0.8 |
| Aroclor-1016-3 | 5.069 | 4.973 | 5.173 | 496.260 | 500.000 | -0.7 |
| Aroclor-1016-4 | 5.112 | 5.015 | 5.215 | 481.770 | 500.000 | -3.6 |
| Aroclor-1016-5 | 5.325 | 5.229 | 5.429 | 585.340 | 500.000 | 17.1 |
| Aroclor-1260-1 | 6.357 | 6.264 | 6.464 | 526.020 | 500.000 | 5.2 |
| Aroclor-1260-2 | 6.546 | 6.453 | 6.653 | 483.260 | 500.000 | -3.3 |
| Aroclor-1260-3 | 6.698 | 6.606 | 6.806 | 502.650 | 500.000 | 0.5 |
| Aroclor-1260-4 | 7.168 | 7.077 | 7.277 | 519.590 | 500.000 | 3.9 |
| Aroclor-1260-5 | 7.410 | 7.319 | 7.519 | 517.000 | 500.000 | 3.4 |
| Decachlorobiphenyl | 8.808 | 8.723 | 8.923 | 53.670 | 50.000 | 7.3 |
| Tetrachloro-m-xylene | 3.794 | 3.691 | 3.891 | 49.930 | 50.000 | -0.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/04/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

**Continuing Calib Time:** 08:50 **Initial Calibration Time(s):** 09:42 18:25

**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) | 5.65 | 5.65 | 5.55 | 5.75 | 0.00 |
| Aroclor-1016-2 | (2) | 5.67 | 5.67 | 5.57 | 5.77 | 0.00 |
| Aroclor-1016-3 | (3) | 5.73 | 5.74 | 5.64 | 5.84 | 0.01 |
| Aroclor-1016-4 | (4) | 5.83 | 5.83 | 5.73 | 5.93 | 0.00 |
| Aroclor-1016-5 | (5) | 6.12 | 6.13 | 6.03 | 6.23 | 0.01 |
| Aroclor-1260-1 | (1) | 7.24 | 7.25 | 7.15 | 7.35 | 0.01 |
| Aroclor-1260-2 | (2) | 7.49 | 7.50 | 7.40 | 7.60 | 0.01 |
| Aroclor-1260-3 | (3) | 7.85 | 7.86 | 7.76 | 7.96 | 0.01 |
| Aroclor-1260-4 | (4) | 8.07 | 8.09 | 7.99 | 8.19 | 0.02 |
| Aroclor-1260-5 | (5) | 8.39 | 8.40 | 8.30 | 8.50 | 0.01 |
| Tetrachloro-m-xylene | | 4.50 | 4.50 | 4.40 | 4.60 | 0.00 |
| Decachlorobiphenyl | | 10.19 | 10.21 | 10.11 | 10.31 | 0.02 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/04/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

**Continuing Calib Time:** 08:50 **Initial Calibration Time(s):** 09:42 18:25

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.87 | 4.88 | 4.78 | 4.98 | 0.01 |
| Aroclor-1016-2 | (2) | 4.89 | 4.90 | 4.80 | 5.00 | 0.01 |
| Aroclor-1016-3 | (3) | 5.07 | 5.07 | 4.97 | 5.17 | 0.00 |
| Aroclor-1016-4 | (4) | 5.11 | 5.12 | 5.02 | 5.22 | 0.01 |
| Aroclor-1016-5 | (5) | 5.32 | 5.33 | 5.23 | 5.43 | 0.01 |
| Aroclor-1260-1 | (1) | 6.36 | 6.36 | 6.26 | 6.46 | 0.00 |
| Aroclor-1260-2 | (2) | 6.54 | 6.55 | 6.45 | 6.65 | 0.01 |
| Aroclor-1260-3 | (3) | 6.70 | 6.71 | 6.61 | 6.81 | 0.01 |
| Aroclor-1260-4 | (4) | 7.17 | 7.18 | 7.08 | 7.28 | 0.01 |
| Aroclor-1260-5 | (5) | 7.41 | 7.42 | 7.32 | 7.52 | 0.01 |
| Tetrachloro-m-xylene | | 3.79 | 3.79 | 3.69 | 3.89 | 0.00 |
| Decachlorobiphenyl | | 8.81 | 8.82 | 8.72 | 8.92 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

**Client Sample No.:** CCAL07 **Date Analyzed:** 06/04/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PP072604.D **Time Analyzed:** 08:50

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.648 | 5.552 | 5.752 | 415.340 | 500.000 | -16.9 |
| Aroclor-1016-2 | 5.669 | 5.574 | 5.774 | 441.250 | 500.000 | -11.8 |
| Aroclor-1016-3 | 5.732 | 5.636 | 5.836 | 441.300 | 500.000 | -11.7 |
| Aroclor-1016-4 | 5.828 | 5.734 | 5.934 | 456.060 | 500.000 | -8.8 |
| Aroclor-1016-5 | 6.120 | 6.027 | 6.227 | 444.840 | 500.000 | -11.0 |
| Aroclor-1260-1 | 7.239 | 7.147 | 7.347 | 437.310 | 500.000 | -12.5 |
| Aroclor-1260-2 | 7.492 | 7.401 | 7.601 | 440.050 | 500.000 | -12.0 |
| Aroclor-1260-3 | 7.850 | 7.760 | 7.960 | 453.880 | 500.000 | -9.2 |
| Aroclor-1260-4 | 8.074 | 7.985 | 8.185 | 455.700 | 500.000 | -8.9 |
| Aroclor-1260-5 | 8.393 | 8.303 | 8.503 | 475.780 | 500.000 | -4.8 |
| Decachlorobiphenyl | 10.193 | 10.113 | 10.313 | 48.420 | 50.000 | -3.2 |
| Tetrachloro-m-xylene | 4.496 | 4.396 | 4.596 | 46.020 | 50.000 | -8.0 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

**Client Sample No.:** CCAL07 **Date Analyzed:** 06/04/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PP072604.D **Time Analyzed:** 08:50

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.874 | 4.777 | 4.977 | 467.590 | 500.000 | -6.5 |
| Aroclor-1016-2 | 4.893 | 4.795 | 4.995 | 476.230 | 500.000 | -4.8 |
| Aroclor-1016-3 | 5.069 | 4.973 | 5.173 | 481.410 | 500.000 | -3.7 |
| Aroclor-1016-4 | 5.111 | 5.015 | 5.215 | 490.810 | 500.000 | -1.8 |
| Aroclor-1016-5 | 5.324 | 5.229 | 5.429 | 482.150 | 500.000 | -3.6 |
| Aroclor-1260-1 | 6.356 | 6.264 | 6.464 | 503.880 | 500.000 | 0.8 |
| Aroclor-1260-2 | 6.544 | 6.453 | 6.653 | 481.760 | 500.000 | -3.6 |
| Aroclor-1260-3 | 6.696 | 6.606 | 6.806 | 518.660 | 500.000 | 3.7 |
| Aroclor-1260-4 | 7.167 | 7.077 | 7.277 | 515.270 | 500.000 | 3.1 |
| Aroclor-1260-5 | 7.409 | 7.319 | 7.519 | 519.290 | 500.000 | 3.9 |
| Decachlorobiphenyl | 8.807 | 8.723 | 8.923 | 53.590 | 50.000 | 7.2 |
| Tetrachloro-m-xylene | 3.794 | 3.691 | 3.891 | 48.580 | 50.000 | -2.8 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/04/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

**Continuing Calib Time:** 14:51 **Initial Calibration Time(s):** 09:42 18:25

**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) | 5.65 | 5.65 | 5.55 | 5.75 | 0.00 |
| Aroclor-1016-2 | (2) | 5.67 | 5.67 | 5.57 | 5.77 | 0.00 |
| Aroclor-1016-3 | (3) | 5.74 | 5.74 | 5.64 | 5.84 | 0.00 |
| Aroclor-1016-4 | (4) | 5.83 | 5.83 | 5.73 | 5.93 | 0.00 |
| Aroclor-1016-5 | (5) | 6.13 | 6.13 | 6.03 | 6.23 | 0.00 |
| Aroclor-1260-1 | (1) | 7.24 | 7.25 | 7.15 | 7.35 | 0.01 |
| Aroclor-1260-2 | (2) | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |
| Aroclor-1260-3 | (3) | 7.86 | 7.86 | 7.76 | 7.96 | 0.00 |
| Aroclor-1260-4 | (4) | 8.08 | 8.09 | 7.99 | 8.19 | 0.01 |
| Aroclor-1260-5 | (5) | 8.40 | 8.40 | 8.30 | 8.50 | 0.00 |
| Tetrachloro-m-xylene | | 4.50 | 4.50 | 4.40 | 4.60 | 0.00 |
| Decachlorobiphenyl | | 10.20 | 10.21 | 10.11 | 10.31 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/04/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

**Continuing Calib Time:** 14:51 **Initial Calibration Time(s):** 09:42 18:25

**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) | 4.88 | 4.88 | 4.78 | 4.98 | 0.00 |
| Aroclor-1016-2 | (2) | 4.90 | 4.90 | 4.80 | 5.00 | 0.00 |
| Aroclor-1016-3 | (3) | 5.07 | 5.07 | 4.97 | 5.17 | 0.00 |
| Aroclor-1016-4 | (4) | 5.11 | 5.12 | 5.02 | 5.22 | 0.01 |
| Aroclor-1016-5 | (5) | 5.33 | 5.33 | 5.23 | 5.43 | 0.00 |
| Aroclor-1260-1 | (1) | 6.36 | 6.36 | 6.26 | 6.46 | 0.00 |
| Aroclor-1260-2 | (2) | 6.55 | 6.55 | 6.45 | 6.65 | 0.00 |
| Aroclor-1260-3 | (3) | 6.70 | 6.71 | 6.61 | 6.81 | 0.01 |
| Aroclor-1260-4 | (4) | 7.17 | 7.18 | 7.08 | 7.28 | 0.01 |
| Aroclor-1260-5 | (5) | 7.41 | 7.42 | 7.32 | 7.52 | 0.01 |
| Tetrachloro-m-xylene | | 3.80 | 3.79 | 3.69 | 3.89 | -0.01 |
| Decachlorobiphenyl | | 8.81 | 8.82 | 8.72 | 8.92 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

**Client Sample No.:** CCAL08 **Date Analyzed:** 06/04/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PP072619.D **Time Analyzed:** 14:51

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.653 | 5.552 | 5.752 | 408.380 | 500.000 | -18.3 |
| Aroclor-1016-2 | 5.674 | 5.574 | 5.774 | 446.380 | 500.000 | -10.7 |
| Aroclor-1016-3 | 5.736 | 5.636 | 5.836 | 438.840 | 500.000 | -12.2 |
| Aroclor-1016-4 | 5.834 | 5.734 | 5.934 | 447.960 | 500.000 | -10.4 |
| Aroclor-1016-5 | 6.126 | 6.027 | 6.227 | 453.310 | 500.000 | -9.3 |
| Aroclor-1260-1 | 7.243 | 7.147 | 7.347 | 454.670 | 500.000 | -9.1 |
| Aroclor-1260-2 | 7.497 | 7.401 | 7.601 | 456.280 | 500.000 | -8.7 |
| Aroclor-1260-3 | 7.857 | 7.760 | 7.960 | 575.660 | 500.000 | 15.1 |
| Aroclor-1260-4 | 8.078 | 7.985 | 8.185 | 472.200 | 500.000 | -5.6 |
| Aroclor-1260-5 | 8.397 | 8.303 | 8.503 | 486.080 | 500.000 | -2.8 |
| Decachlorobiphenyl | 10.199 | 10.113 | 10.313 | 50.400 | 50.000 | 0.8 |
| Tetrachloro-m-xylene | 4.501 | 4.396 | 4.596 | 46.060 | 50.000 | -7.9 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

**Client Sample No.:** CCAL08 **Date Analyzed:** 06/04/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PP072619.D **Time Analyzed:** 14:51

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.878 | 4.777 | 4.977 | 478.490 | 500.000 | -4.3 |
| Aroclor-1016-2 | 4.896 | 4.795 | 4.995 | 490.280 | 500.000 | -1.9 |
| Aroclor-1016-3 | 5.072 | 4.973 | 5.173 | 492.560 | 500.000 | -1.5 |
| Aroclor-1016-4 | 5.114 | 5.015 | 5.215 | 499.290 | 500.000 | -0.1 |
| Aroclor-1016-5 | 5.328 | 5.229 | 5.429 | 516.590 | 500.000 | 3.3 |
| Aroclor-1260-1 | 6.359 | 6.264 | 6.464 | 500.890 | 500.000 | 0.2 |
| Aroclor-1260-2 | 6.548 | 6.453 | 6.653 | 478.230 | 500.000 | -4.4 |
| Aroclor-1260-3 | 6.700 | 6.606 | 6.806 | 510.370 | 500.000 | 2.1 |
| Aroclor-1260-4 | 7.170 | 7.077 | 7.277 | 505.570 | 500.000 | 1.1 |
| Aroclor-1260-5 | 7.412 | 7.319 | 7.519 | 505.920 | 500.000 | 1.2 |
| Decachlorobiphenyl | 8.811 | 8.723 | 8.923 | 53.050 | 50.000 | 6.1 |
| Tetrachloro-m-xylene | 3.797 | 3.691 | 3.891 | 49.150 | 50.000 | -1.7 |

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# Analytical Sequence

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Project:** Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_O

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 05/14/2025 05/14/2025

**THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:**

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 05/14/2025 | 17:01 | PO111057.D | 8.72 | 3.68 |
| AR1660ICC1000 | AR1660ICC1000 | 05/14/2025 | 17:19 | PO111058.D | 8.73 | 3.68 |
| AR1660ICC750 | AR1660ICC750 | 05/14/2025 | 17:38 | PO111059.D | 8.73 | 3.68 |
| AR1660ICC500 | AR1660ICC500 | 05/14/2025 | 17:56 | PO111060.D | 8.72 | 3.68 |
| AR1660ICC250 | AR1660ICC250 | 05/14/2025 | 18:15 | PO111061.D | 8.72 | 3.68 |
| AR1660ICC050 | AR1660ICC050 | 05/14/2025 | 18:33 | PO111062.D | 8.72 | 3.68 |
| AR1221ICC500 | AR1221ICC500 | 05/14/2025 | 18:51 | PO111063.D | 8.72 | 3.68 |
| AR1232ICC500 | AR1232ICC500 | 05/14/2025 | 19:10 | PO111064.D | 8.72 | 3.68 |
| AR1242ICC1000 | AR1242ICC1000 | 05/14/2025 | 19:28 | PO111065.D | 8.72 | 3.68 |
| AR1242ICC750 | AR1242ICC750 | 05/14/2025 | 19:46 | PO111066.D | 8.72 | 3.68 |
| AR1242ICC500 | AR1242ICC500 | 05/14/2025 | 20:05 | PO111067.D | 8.73 | 3.68 |
| AR1242ICC250 | AR1242ICC250 | 05/14/2025 | 20:23 | PO111068.D | 8.72 | 3.68 |
| AR1242ICC050 | AR1242ICC050 | 05/14/2025 | 20:41 | PO111069.D | 8.72 | 3.68 |
| AR1248ICC1000 | AR1248ICC1000 | 05/14/2025 | 21:00 | PO111070.D | 8.72 | 3.68 |
| AR1248ICC750 | AR1248ICC750 | 05/14/2025 | 21:18 | PO111071.D | 8.72 | 3.68 |
| AR1248ICC500 | AR1248ICC500 | 05/14/2025 | 21:37 | PO111072.D | 8.72 | 3.68 |
| AR1248ICC250 | AR1248ICC250 | 05/14/2025 | 21:54 | PO111073.D | 8.72 | 3.68 |
| AR1248ICC050 | AR1248ICC050 | 05/14/2025 | 22:12 | PO111074.D | 8.72 | 3.68 |
| AR1254ICC1000 | AR1254ICC1000 | 05/14/2025 | 22:31 | PO111075.D | 8.73 | 3.68 |
| AR1254ICC750 | AR1254ICC750 | 05/14/2025 | 22:49 | PO111076.D | 8.73 | 3.68 |
| AR1254ICC500 | AR1254ICC500 | 05/14/2025 | 23:06 | PO111077.D | 8.72 | 3.68 |
| AR1254ICC250 | AR1254ICC250 | 05/14/2025 | 23:25 | PO111078.D | 8.72 | 3.68 |
| AR1254ICC050 | AR1254ICC050 | 05/14/2025 | 23:43 | PO111079.D | 8.72 | 3.68 |
| AR1262ICC500 | AR1262ICC500 | 05/15/2025 | 00:01 | PO111080.D | 8.73 | 3.68 |
| AR1268ICC1000 | AR1268ICC1000 | 05/15/2025 | 00:19 | PO111081.D | 8.72 | 3.68 |
| AR1268ICC750 | AR1268ICC750 | 05/15/2025 | 00:37 | PO111082.D | 8.72 | 3.68 |
| AR1268ICC500 | AR1268ICC500 | 05/15/2025 | 00:56 | PO111083.D | 8.73 | 3.68 |
| AR1268ICC250 | AR1268ICC250 | 05/15/2025 | 01:14 | PO111084.D | 8.72 | 3.68 |
| AR1268ICC050 | AR1268ICC050 | 05/15/2025 | 01:31 | PO111085.D | 8.72 | 3.68 |
| AR1660CCC500 | AR1660CCC500 | 06/03/2025 | 16:42 | PO111433.D | 8.72 | 3.68 |
| I.BLK | I.BLK | 06/03/2025 | 18:14 | PO111437.D | 8.72 | 3.68 |
| EB05312025 | Q2177-08 | 06/03/2025 | 20:41 | PO111445.D | 8.72 | 3.68 |
| AR1660CCC500 | AR1660CCC500 | 06/03/2025 | 22:13 | PO111447.D | 8.72 | 3.68 |
| I.BLK | I.BLK | 06/03/2025 | 23:44 | PO111451.D | 8.72 | 3.68 |
| I.BLK | I.BLK | 05/19/2025 | 09:26 | PP072163.D | 10.21 | 4.50 |
| AR1660ICC1000 | AR1660ICC1000 | 05/19/2025 | 09:42 | PP072164.D | 10.21 | 4.50 |
| AR1660ICC750 | AR1660ICC750 | 05/19/2025 | 09:59 | PP072165.D | 10.21 | 4.50 |
| AR1660ICC500 | AR1660ICC500 | 05/19/2025 | 10:15 | PP072166.D | 10.21 | 4.50 |
| AR1660ICC250 | AR1660ICC250 | 05/19/2025 | 10:32 | PP072167.D | 10.21 | 4.50 |
| AR1660ICC050 | AR1660ICC050 | 05/19/2025 | 10:48 | PP072168.D | 10.21 | 4.50 |
| AR1221ICC500 | AR1221ICC500 | 05/19/2025 | 11:05 | PP072169.D | 10.21 | 4.50 |
| AR1232ICC1000 | AR1232ICC1000 | 05/19/2025 | 11:21 | PP072170.D | 10.21 | 4.50 |

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# Analytical Sequence

| | | | | | | |
|---|---|---|---|---|---|---|
| AR1232ICC750 | AR1232ICC750 | 05/19/2025 | 11:38 | PP072171.D | 10.22 | 4.50 |
| AR1232ICC500 | AR1232ICC500 | 05/19/2025 | 11:54 | PP072172.D | 10.21 | 4.50 |
| AR1232ICC250 | AR1232ICC250 | 05/19/2025 | 12:10 | PP072173.D | 10.22 | 4.50 |
| AR1232ICC050 | AR1232ICC050 | 05/19/2025 | 12:27 | PP072174.D | 10.21 | 4.50 |
| AR1242ICC1000 | AR1242ICC1000 | 05/19/2025 | 12:43 | PP072175.D | 10.22 | 4.50 |
| AR1242ICC750 | AR1242ICC750 | 05/19/2025 | 12:59 | PP072176.D | 10.22 | 4.50 |
| AR1242ICC500 | AR1242ICC500 | 05/19/2025 | 13:15 | PP072177.D | 10.22 | 4.51 |
| AR1242ICC250 | AR1242ICC250 | 05/19/2025 | 13:32 | PP072178.D | 10.21 | 4.50 |
| AR1242ICC050 | AR1242ICC050 | 05/19/2025 | 13:48 | PP072179.D | 10.22 | 4.50 |
| AR1248ICC1000 | AR1248ICC1000 | 05/19/2025 | 14:04 | PP072180.D | 10.22 | 4.51 |
| AR1248ICC750 | AR1248ICC750 | 05/19/2025 | 14:20 | PP072181.D | 10.21 | 4.50 |
| AR1248ICC500 | AR1248ICC500 | 05/19/2025 | 14:37 | PP072182.D | 10.22 | 4.50 |
| AR1248ICC250 | AR1248ICC250 | 05/19/2025 | 14:53 | PP072183.D | 10.22 | 4.50 |
| AR1248ICC050 | AR1248ICC050 | 05/19/2025 | 15:25 | PP072184.D | 10.21 | 4.50 |
| AR1254ICC1000 | AR1254ICC1000 | 05/19/2025 | 15:42 | PP072185.D | 10.22 | 4.50 |
| AR1254ICC750 | AR1254ICC750 | 05/19/2025 | 15:58 | PP072186.D | 10.22 | 4.50 |
| AR1254ICC500 | AR1254ICC500 | 05/19/2025 | 16:14 | PP072187.D | 10.22 | 4.50 |
| AR1254ICC250 | AR1254ICC250 | 05/19/2025 | 16:31 | PP072188.D | 10.22 | 4.50 |
| AR1254ICC050 | AR1254ICC050 | 05/19/2025 | 16:47 | PP072189.D | 10.22 | 4.50 |
| AR1262ICC500 | AR1262ICC500 | 05/19/2025 | 17:03 | PP072190.D | 10.22 | 4.50 |
| AR1268ICC1000 | AR1268ICC1000 | 05/19/2025 | 17:20 | PP072191.D | 10.22 | 4.50 |
| AR1268ICC750 | AR1268ICC750 | 05/19/2025 | 17:36 | PP072192.D | 10.22 | 4.51 |
| AR1268ICC500 | AR1268ICC500 | 05/19/2025 | 17:53 | PP072193.D | 10.22 | 4.50 |
| AR1268ICC250 | AR1268ICC250 | 05/19/2025 | 18:09 | PP072194.D | 10.21 | 4.50 |
| AR1268ICC050 | AR1268ICC050 | 05/19/2025 | 18:25 | PP072195.D | 10.22 | 4.50 |
| AR1660CCC500 | AR1660CCC500 | 06/03/2025 | 10:22 | PP072553.D | 10.20 | 4.50 |
| I.BLK | I.BLK | 06/03/2025 | 11:27 | PP072557.D | 10.19 | 4.50 |
| PB168252BL | PB168252BL | 06/03/2025 | 13:28 | PP072558.D | 10.20 | 4.50 |
| AR1660CCC500 | AR1660CCC500 | 06/03/2025 | 16:59 | PP072568.D | 10.20 | 4.50 |
| I.BLK | I.BLK | 06/03/2025 | 18:21 | PP072572.D | 10.20 | 4.50 |
| TP-28MS | Q2176-05MS | 06/03/2025 | 18:53 | PP072574.D | 10.20 | 4.50 |
| TP-28MSD | Q2176-05MSD | 06/03/2025 | 19:10 | PP072575.D | 10.20 | 4.50 |
| B-187-SB01 | Q2177-02 | 06/03/2025 | 20:15 | PP072579.D | 10.20 | 4.50 |
| B-187-SB02 | Q2177-04 | 06/03/2025 | 20:31 | PP072580.D | 10.19 | 4.50 |
| B-202-SB01 | Q2177-06 | 06/03/2025 | 20:48 | PP072581.D | 10.20 | 4.50 |
| AR1660CCC500 | AR1660CCC500 | 06/03/2025 | 22:25 | PP072583.D | 10.20 | 4.50 |
| I.BLK | I.BLK | 06/03/2025 | 23:47 | PP072587.D | 10.19 | 4.50 |
| PB168257BL | PB168257BL | 06/04/2025 | 00:35 | PP072590.D | 10.20 | 4.50 |
| AR1660CCC500 | AR1660CCC500 | 06/04/2025 | 03:51 | PP072598.D | 10.20 | 4.50 |
| I.BLK | I.BLK | 06/04/2025 | 05:12 | PP072602.D | 10.20 | 4.50 |
| AR1660CCC500 | AR1660CCC500 | 06/04/2025 | 08:50 | PP072604.D | 10.19 | 4.50 |
| I.BLK | I.BLK | 06/04/2025 | 10:00 | PP072608.D | 10.20 | 4.50 |
| PB168257BS | PB168257BS | 06/04/2025 | 10:16 | PP072609.D | 10.20 | 4.50 |
| PB168257BSD | PB168257BSD | 06/04/2025 | 10:32 | PP072610.D | 10.19 | 4.50 |
| PB168252BS | PB168252BS | 06/04/2025 | 11:37 | PP072614.D | 10.20 | 4.50 |
| AR1660CCC500 | AR1660CCC500 | 06/04/2025 | 14:51 | PP072619.D | 10.20 | 4.50 |
| I.BLK | I.BLK | 06/04/2025 | 15:56 | PP072623.D | 10.20 | 4.50 |

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# Analytical Sequence

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Project:** Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_O

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 05/14/2025 05/14/2025

**THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:**

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 05/14/2025 | 17:01 | PO111057.D | 8.67 | 3.68 |
| AR1660ICC1000 | AR1660ICC1000 | 05/14/2025 | 17:19 | PO111058.D | 8.67 | 3.68 |
| AR1660ICC750 | AR1660ICC750 | 05/14/2025 | 17:38 | PO111059.D | 8.67 | 3.68 |
| AR1660ICC500 | AR1660ICC500 | 05/14/2025 | 17:56 | PO111060.D | 8.67 | 3.68 |
| AR1660ICC250 | AR1660ICC250 | 05/14/2025 | 18:15 | PO111061.D | 8.68 | 3.68 |
| AR1660ICC050 | AR1660ICC050 | 05/14/2025 | 18:33 | PO111062.D | 8.67 | 3.68 |
| AR1221ICC500 | AR1221ICC500 | 05/14/2025 | 18:51 | PO111063.D | 8.67 | 3.68 |
| AR1232ICC500 | AR1232ICC500 | 05/14/2025 | 19:10 | PO111064.D | 8.68 | 3.68 |
| AR1242ICC1000 | AR1242ICC1000 | 05/14/2025 | 19:28 | PO111065.D | 8.67 | 3.68 |
| AR1242ICC750 | AR1242ICC750 | 05/14/2025 | 19:46 | PO111066.D | 8.67 | 3.68 |
| AR1242ICC500 | AR1242ICC500 | 05/14/2025 | 20:05 | PO111067.D | 8.67 | 3.68 |
| AR1242ICC250 | AR1242ICC250 | 05/14/2025 | 20:23 | PO111068.D | 8.67 | 3.68 |
| AR1242ICC050 | AR1242ICC050 | 05/14/2025 | 20:41 | PO111069.D | 8.67 | 3.68 |
| AR1248ICC1000 | AR1248ICC1000 | 05/14/2025 | 21:00 | PO111070.D | 8.67 | 3.68 |
| AR1248ICC750 | AR1248ICC750 | 05/14/2025 | 21:18 | PO111071.D | 8.67 | 3.68 |
| AR1248ICC500 | AR1248ICC500 | 05/14/2025 | 21:37 | PO111072.D | 8.68 | 3.68 |
| AR1248ICC250 | AR1248ICC250 | 05/14/2025 | 21:54 | PO111073.D | 8.69 | 3.69 |
| AR1248ICC050 | AR1248ICC050 | 05/14/2025 | 22:12 | PO111074.D | 8.67 | 3.68 |
| AR1254ICC1000 | AR1254ICC1000 | 05/14/2025 | 22:31 | PO111075.D | 8.67 | 3.68 |
| AR1254ICC750 | AR1254ICC750 | 05/14/2025 | 22:49 | PO111076.D | 8.67 | 3.68 |
| AR1254ICC500 | AR1254ICC500 | 05/14/2025 | 23:06 | PO111077.D | 8.67 | 3.68 |
| AR1254ICC250 | AR1254ICC250 | 05/14/2025 | 23:25 | PO111078.D | 8.67 | 3.68 |
| AR1254ICC050 | AR1254ICC050 | 05/14/2025 | 23:43 | PO111079.D | 8.67 | 3.68 |
| AR1262ICC500 | AR1262ICC500 | 05/15/2025 | 00:01 | PO111080.D | 8.67 | 3.68 |
| AR1268ICC1000 | AR1268ICC1000 | 05/15/2025 | 00:19 | PO111081.D | 8.67 | 3.68 |
| AR1268ICC750 | AR1268ICC750 | 05/15/2025 | 00:37 | PO111082.D | 8.67 | 3.68 |
| AR1268ICC500 | AR1268ICC500 | 05/15/2025 | 00:56 | PO111083.D | 8.67 | 3.68 |
| AR1268ICC250 | AR1268ICC250 | 05/15/2025 | 01:14 | PO111084.D | 8.67 | 3.68 |
| AR1268ICC050 | AR1268ICC050 | 05/15/2025 | 01:31 | PO111085.D | 8.67 | 3.68 |
| AR1660CCC500 | AR1660CCC500 | 06/03/2025 | 16:42 | PO111433.D | 8.67 | 3.68 |
| I.BLK | I.BLK | 06/03/2025 | 18:14 | PO111437.D | 8.67 | 3.68 |
| EB05312025 | Q2177-08 | 06/03/2025 | 20:41 | PO111445.D | 8.67 | 3.68 |
| AR1660CCC500 | AR1660CCC500 | 06/03/2025 | 22:13 | PO111447.D | 8.67 | 3.68 |
| I.BLK | I.BLK | 06/03/2025 | 23:44 | PO111451.D | 8.67 | 3.68 |
| I.BLK | I.BLK | 05/19/2025 | 09:26 | PP072163.D | 8.82 | 3.79 |
| AR1660ICC1000 | AR1660ICC1000 | 05/19/2025 | 09:42 | PP072164.D | 8.82 | 3.79 |
| AR1660ICC750 | AR1660ICC750 | 05/19/2025 | 09:59 | PP072165.D | 8.82 | 3.79 |
| AR1660ICC500 | AR1660ICC500 | 05/19/2025 | 10:15 | PP072166.D | 8.82 | 3.79 |
| AR1660ICC250 | AR1660ICC250 | 05/19/2025 | 10:32 | PP072167.D | 8.82 | 3.79 |
| AR1660ICC050 | AR1660ICC050 | 05/19/2025 | 10:48 | PP072168.D | 8.82 | 3.79 |
| AR1221ICC500 | AR1221ICC500 | 05/19/2025 | 11:05 | PP072169.D | 8.82 | 3.79 |
| AR1232ICC1000 | AR1232ICC1000 | 05/19/2025 | 11:21 | PP072170.D | 8.82 | 3.80 |

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Fax : 908 789 8922

# Analytical Sequence

| | | | | | | |
|---|---|---|---|---|---|---|
| AR1232ICC750 | AR1232ICC750 | 05/19/2025 | 11:38 | PP072171.D | 8.82 | 3.80 |
| AR1232ICC500 | AR1232ICC500 | 05/19/2025 | 11:54 | PP072172.D | 8.82 | 3.80 |
| AR1232ICC250 | AR1232ICC250 | 05/19/2025 | 12:10 | PP072173.D | 8.82 | 3.80 |
| AR1232ICC050 | AR1232ICC050 | 05/19/2025 | 12:27 | PP072174.D | 8.82 | 3.80 |
| AR1242ICC1000 | AR1242ICC1000 | 05/19/2025 | 12:43 | PP072175.D | 8.83 | 3.80 |
| AR1242ICC750 | AR1242ICC750 | 05/19/2025 | 12:59 | PP072176.D | 8.83 | 3.80 |
| AR1242ICC500 | AR1242ICC500 | 05/19/2025 | 13:15 | PP072177.D | 8.83 | 3.80 |
| AR1242ICC250 | AR1242ICC250 | 05/19/2025 | 13:32 | PP072178.D | 8.83 | 3.80 |
| AR1242ICC050 | AR1242ICC050 | 05/19/2025 | 13:48 | PP072179.D | 8.82 | 3.80 |
| AR1248ICC1000 | AR1248ICC1000 | 05/19/2025 | 14:04 | PP072180.D | 8.83 | 3.80 |
| AR1248ICC750 | AR1248ICC750 | 05/19/2025 | 14:20 | PP072181.D | 8.83 | 3.80 |
| AR1248ICC500 | AR1248ICC500 | 05/19/2025 | 14:37 | PP072182.D | 8.83 | 3.80 |
| AR1248ICC250 | AR1248ICC250 | 05/19/2025 | 14:53 | PP072183.D | 8.83 | 3.80 |
| AR1248ICC050 | AR1248ICC050 | 05/19/2025 | 15:25 | PP072184.D | 8.82 | 3.80 |
| AR1254ICC1000 | AR1254ICC1000 | 05/19/2025 | 15:42 | PP072185.D | 8.83 | 3.80 |
| AR1254ICC750 | AR1254ICC750 | 05/19/2025 | 15:58 | PP072186.D | 8.83 | 3.80 |
| AR1254ICC500 | AR1254ICC500 | 05/19/2025 | 16:14 | PP072187.D | 8.83 | 3.80 |
| AR1254ICC250 | AR1254ICC250 | 05/19/2025 | 16:31 | PP072188.D | 8.83 | 3.80 |
| AR1254ICC050 | AR1254ICC050 | 05/19/2025 | 16:47 | PP072189.D | 8.83 | 3.80 |
| AR1262ICC500 | AR1262ICC500 | 05/19/2025 | 17:03 | PP072190.D | 8.83 | 3.80 |
| AR1268ICC1000 | AR1268ICC1000 | 05/19/2025 | 17:20 | PP072191.D | 8.83 | 3.80 |
| AR1268ICC750 | AR1268ICC750 | 05/19/2025 | 17:36 | PP072192.D | 8.83 | 3.80 |
| AR1268ICC500 | AR1268ICC500 | 05/19/2025 | 17:53 | PP072193.D | 8.83 | 3.80 |
| AR1268ICC250 | AR1268ICC250 | 05/19/2025 | 18:09 | PP072194.D | 8.82 | 3.80 |
| AR1268ICC050 | AR1268ICC050 | 05/19/2025 | 18:25 | PP072195.D | 8.82 | 3.80 |
| AR1660CCC500 | AR1660CCC500 | 06/03/2025 | 10:22 | PP072553.D | 8.81 | 3.79 |
| I.BLK | I.BLK | 06/03/2025 | 11:27 | PP072557.D | 8.81 | 3.79 |
| PB168252BL | PB168252BL | 06/03/2025 | 13:28 | PP072558.D | 8.81 | 3.79 |
| AR1660CCC500 | AR1660CCC500 | 06/03/2025 | 16:59 | PP072568.D | 8.81 | 3.80 |
| I.BLK | I.BLK | 06/03/2025 | 18:21 | PP072572.D | 8.81 | 3.80 |
| TP-28MS | Q2176-05MS | 06/03/2025 | 18:53 | PP072574.D | 8.81 | 3.80 |
| TP-28MSD | Q2176-05MSD | 06/03/2025 | 19:10 | PP072575.D | 8.81 | 3.79 |
| B-187-SB01 | Q2177-02 | 06/03/2025 | 20:15 | PP072579.D | 8.81 | 3.80 |
| B-187-SB02 | Q2177-04 | 06/03/2025 | 20:31 | PP072580.D | 8.81 | 3.80 |
| B-202-SB01 | Q2177-06 | 06/03/2025 | 20:48 | PP072581.D | 8.81 | 3.80 |
| AR1660CCC500 | AR1660CCC500 | 06/03/2025 | 22:25 | PP072583.D | 8.81 | 3.79 |
| I.BLK | I.BLK | 06/03/2025 | 23:47 | PP072587.D | 8.81 | 3.79 |
| PB168257BL | PB168257BL | 06/04/2025 | 00:35 | PP072590.D | 8.81 | 3.79 |
| AR1660CCC500 | AR1660CCC500 | 06/04/2025 | 03:51 | PP072598.D | 8.81 | 3.79 |
| I.BLK | I.BLK | 06/04/2025 | 05:12 | PP072602.D | 8.81 | 3.79 |
| AR1660CCC500 | AR1660CCC500 | 06/04/2025 | 08:50 | PP072604.D | 8.81 | 3.79 |
| I.BLK | I.BLK | 06/04/2025 | 10:00 | PP072608.D | 8.81 | 3.79 |
| PB168257BS | PB168257BS | 06/04/2025 | 10:16 | PP072609.D | 8.81 | 3.80 |
| PB168257BSD | PB168257BSD | 06/04/2025 | 10:32 | PP072610.D | 8.81 | 3.79 |
| PB168252BS | PB168252BS | 06/04/2025 | 11:37 | PP072614.D | 8.81 | 3.79 |
| AR1660CCC500 | AR1660CCC500 | 06/04/2025 | 14:51 | PP072619.D | 8.81 | 3.80 |
| I.BLK | I.BLK | 06/04/2025 | 15:56 | PP072623.D | 8.81 | 3.80 |

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# IDENTIFICATION SUMMARY
## FOR MULTICOMPONENT ANALYTES

SAMPLE NO.: TP-28MS

Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab Sample ID: Q2176-05MS Date(s) Analyzed: 06/03/2025 06/03/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP072574.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 5.652 | 5.602 | 5.702 | 141 | | |
| | 2 | 5.673 | 5.623 | 5.723 | 153 | | |
| | 3 | 5.735 | 5.685 | 5.785 | 150 | | |
| COLUMN 1 | 4 | 5.832 | 5.782 | 5.882 | 156 | | |
| | 5 | 6.125 | 6.075 | 6.175 | 148 | 150 | |
| | 1 | 4.877 | 4.827 | 4.927 | 166 | | |
| | 2 | 4.895 | 4.845 | 4.945 | 169 | | |
| | 3 | 5.071 | 5.021 | 5.121 | 171 | | |
| | 4 | 5.113 | 5.063 | 5.163 | 170 | | |
| COLUMN 2 | 5 | 5.327 | 5.277 | 5.377 | 164 | 168 | 11.32 |
| Aroclor-1260 | 1 | 7.242 | 7.192 | 7.292 | 161 | | |
| | 2 | 7.495 | 7.445 | 7.545 | 142 | | |
| | 3 | 7.854 | 7.804 | 7.904 | 125 | | |
| COLUMN 1 | 4 | 8.076 | 8.026 | 8.126 | 138 | | |
| | 5 | 8.396 | 8.346 | 8.446 | 134 | 140 | |
| | 1 | 6.358 | 6.308 | 6.408 | 178 | | |
| | 2 | 6.548 | 6.498 | 6.598 | 162 | | |
| | 3 | 6.7 | 6.65 | 6.75 | 171 | | |
| | 4 | 7.17 | 7.12 | 7.22 | 150 | | |
| COLUMN 2 | 5 | 7.412 | 7.362 | 7.462 | 145 | 161 | 13.95 |

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# IDENTIFICATION SUMMARY
## FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

TP-28MSD

Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab Sample ID: Q2176-05MSD Date(s) Analyzed: 06/03/2025 06/03/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP072575.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 5.654 | 5.604 | 5.704 | 121 | | |
| | 2 | 5.676 | 5.626 | 5.726 | 130 | | |
| | 3 | 5.737 | 5.687 | 5.787 | 129 | | |
| COLUMN 1 | 4 | 5.835 | 5.785 | 5.885 | 136 | | |
| | 5 | 6.127 | 6.077 | 6.177 | 126 | 128 | |
| | 1 | 4.876 | 4.826 | 4.926 | 141 | | |
| | 2 | 4.894 | 4.844 | 4.944 | 142 | | |
| | 3 | 5.071 | 5.021 | 5.121 | 144 | | |
| | 4 | 5.113 | 5.063 | 5.163 | 144 | | |
| COLUMN 2 | 5 | 5.326 | 5.276 | 5.376 | 139 | 142 | 10.37 |
| Aroclor-1260 | 1 | 7.245 | 7.195 | 7.295 | 131 | | |
| | 2 | 7.498 | 7.448 | 7.548 | 120 | | |
| | 3 | 7.857 | 7.807 | 7.907 | 106 | | |
| COLUMN 1 | 4 | 8.081 | 8.031 | 8.131 | 117 | | |
| | 5 | 8.399 | 8.349 | 8.449 | 112 | 117 | |
| | 1 | 6.359 | 6.309 | 6.409 | 154 | | |
| | 2 | 6.547 | 6.497 | 6.597 | 140 | | |
| | 3 | 6.699 | 6.649 | 6.749 | 148 | | |
| | 4 | 7.169 | 7.119 | 7.219 | 130 | | |
| COLUMN 2 | 5 | 7.411 | 7.361 | 7.461 | 125 | 139 | 17.19 |

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# IDENTIFICATION SUMMARY
## FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB168257BS

Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab Sample ID: PB168257BS Date(s) Analyzed: 06/04/2025 06/04/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP072609.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 5.649 | 5.599 | 5.699 | 3.89 | | |
| | 2 | 5.671 | 5.621 | 5.721 | 4.21 | | |
| | 3 | 5.733 | 5.683 | 5.783 | 4.16 | | |
| COLUMN 1 | 4 | 5.83 | 5.78 | 5.88 | 4.33 | | |
| | 5 | 6.122 | 6.072 | 6.172 | 4.10 | 4.10 | |
| | 1 | 4.875 | 4.825 | 4.925 | 4.54 | | |
| | 2 | 4.893 | 4.843 | 4.943 | 4.61 | | |
| | 3 | 5.07 | 5.02 | 5.12 | 4.60 | | |
| | 4 | 5.112 | 5.062 | 5.162 | 4.62 | | |
| COLUMN 2 | 5 | 5.326 | 5.276 | 5.376 | 4.50 | 4.60 | 11.49 |
| Aroclor-1260 | 1 | 7.24 | 7.19 | 7.29 | 4.44 | | |
| | 2 | 7.494 | 7.444 | 7.544 | 4.44 | | |
| | 3 | 7.852 | 7.802 | 7.902 | 3.90 | | |
| COLUMN 1 | 4 | 8.076 | 8.026 | 8.126 | 4.16 | | |
| | 5 | 8.394 | 8.344 | 8.444 | 4.15 | 4.20 | |
| | 1 | 6.357 | 6.307 | 6.407 | 4.99 | | |
| | 2 | 6.545 | 6.495 | 6.595 | 4.77 | | |
| | 3 | 6.698 | 6.648 | 6.748 | 5.07 | | |
| | 4 | 7.168 | 7.118 | 7.218 | 4.47 | | |
| COLUMN 2 | 5 | 7.41 | 7.36 | 7.46 | 4.43 | 4.70 | 11.24 |

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# IDENTIFICATION SUMMARY
## FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB168257BSD

Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab Sample ID: PB168257BSD Date(s) Analyzed: 06/04/2025 06/04/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP072610.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 5.648 | 5.598 | 5.698 | 3.90 | | |
| | 2 | 5.67 | 5.62 | 5.72 | 4.20 | | |
| | 3 | 5.732 | 5.682 | 5.782 | 4.12 | | |
| COLUMN 1 | 4 | 5.83 | 5.78 | 5.88 | 4.33 | | |
| | 5 | 6.122 | 6.072 | 6.172 | 4.12 | 4.10 | |
| | 1 | 4.875 | 4.825 | 4.925 | 4.51 | | |
| | 2 | 4.893 | 4.843 | 4.943 | 4.60 | | |
| | 3 | 5.07 | 5.02 | 5.12 | 4.63 | | |
| | 4 | 5.111 | 5.061 | 5.161 | 4.64 | | |
| COLUMN 2 | 5 | 5.325 | 5.275 | 5.375 | 4.48 | 4.60 | 11.49 |
| Aroclor-1260 | 1 | 7.239 | 7.189 | 7.289 | 4.40 | | |
| | 2 | 7.492 | 7.442 | 7.542 | 4.42 | | |
| | 3 | 7.851 | 7.801 | 7.901 | 3.78 | | |
| COLUMN 1 | 4 | 8.074 | 8.024 | 8.124 | 4.06 | | |
| | 5 | 8.393 | 8.343 | 8.443 | 4.16 | 4.20 | |
| | 1 | 6.357 | 6.307 | 6.407 | 4.90 | | |
| | 2 | 6.546 | 6.496 | 6.596 | 4.64 | | |
| | 3 | 6.698 | 6.648 | 6.748 | 4.91 | | |
| | 4 | 7.168 | 7.118 | 7.218 | 4.42 | | |
| COLUMN 2 | 5 | 7.41 | 7.36 | 7.46 | 4.39 | 4.70 | 11.24 |

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# IDENTIFICATION SUMMARY
## FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB168252BS

Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab Sample ID: PB168252BS Date(s) Analyzed: 06/04/2025 06/04/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP072614.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 5.652 | 5.602 | 5.702 | 131 | | |
| | 2 | 5.673 | 5.623 | 5.723 | 143 | | |
| | 3 | 5.735 | 5.685 | 5.785 | 143 | | |
| COLUMN 1 | 4 | 5.832 | 5.782 | 5.882 | 146 | | |
| | 5 | 6.125 | 6.075 | 6.175 | 139 | 140 | |
| | 1 | 4.875 | 4.825 | 4.925 | 152 | | |
| | 2 | 4.893 | 4.843 | 4.943 | 155 | | |
| | 3 | 5.069 | 5.019 | 5.119 | 156 | | |
| | 4 | 5.111 | 5.061 | 5.161 | 156 | | |
| COLUMN 2 | 5 | 5.325 | 5.275 | 5.375 | 148 | 153 | 8.87 |
| Aroclor-1260 | 1 | 7.242 | 7.192 | 7.292 | 146 | | |
| | 2 | 7.496 | 7.446 | 7.546 | 148 | | |
| | 3 | 7.853 | 7.803 | 7.903 | 129 | | |
| COLUMN 1 | 4 | 8.078 | 8.028 | 8.128 | 137 | | |
| | 5 | 8.399 | 8.349 | 8.449 | 159 | 144 | |
| | 1 | 6.357 | 6.307 | 6.407 | 165 | | |
| | 2 | 6.546 | 6.496 | 6.596 | 156 | | |
| | 3 | 6.697 | 6.647 | 6.747 | 167 | | |
| | 4 | 7.167 | 7.117 | 7.217 | 150 | | |
| COLUMN 2 | 5 | 7.409 | 7.359 | 7.459 | 147 | 157 | 8.64 |

# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060325\
Data File : PP072579.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 20:15
Operator : YP\AJ
Sample : Q2177-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
ECD_P
**ClientSampleId :**
B-187-SB01

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 01:37:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 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... | 4.501 | 3.795 | 36909353 | 33123564 | 18.356m | 20.723 |
| 2) | SA Decachlor... | 10.201 | 8.811 | 23838811 | 18434306 | 14.633 | 17.414 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

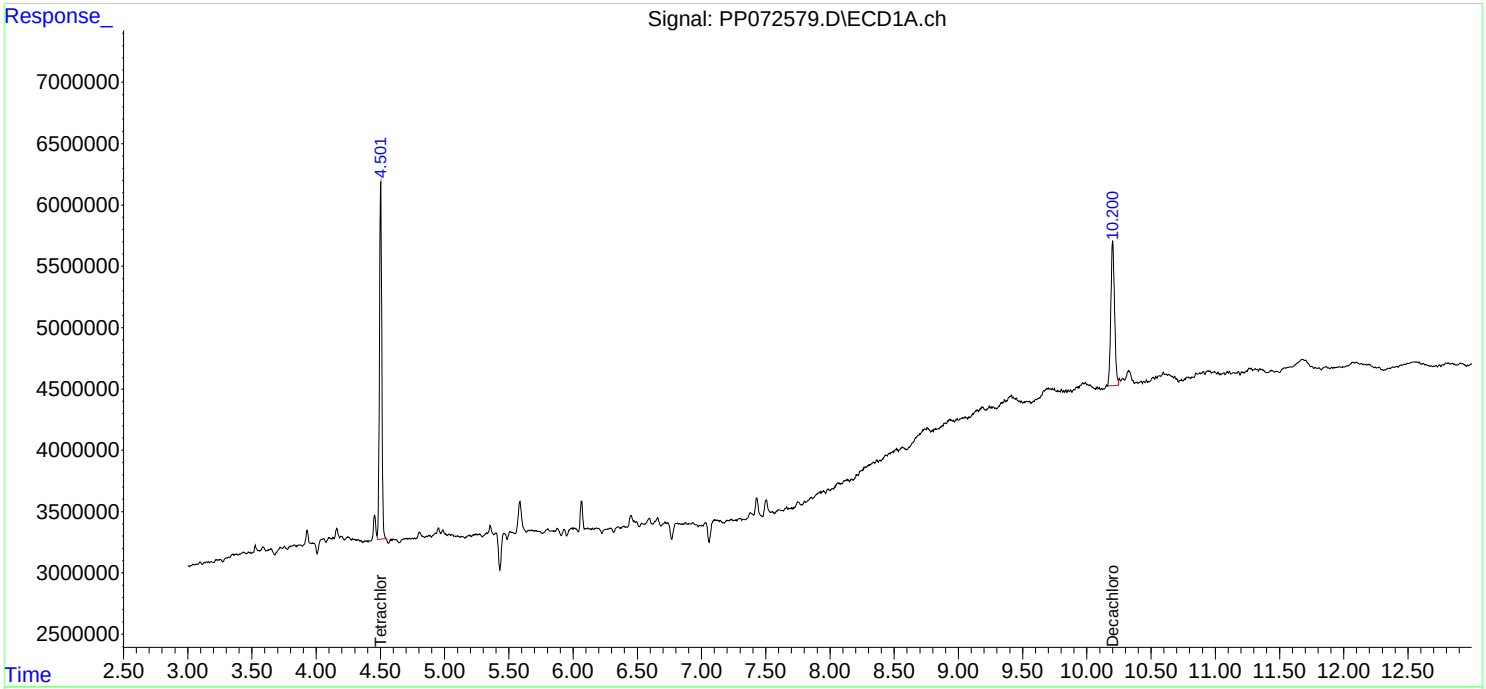
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060325\
Data File : PP072579.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 20:15
Operator : YP\AJ
Sample : Q2177-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

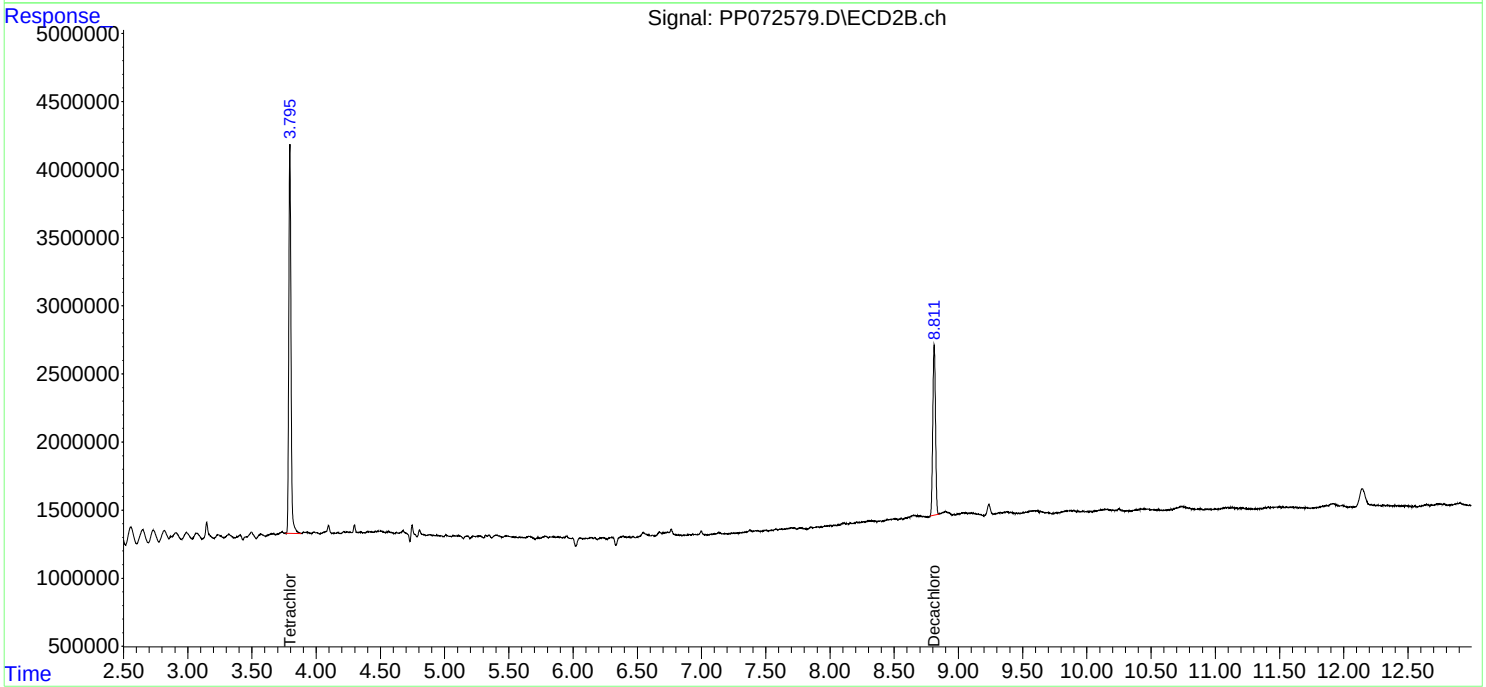
**Instrument :**
ECD_P
**ClientSampleId :**
B-187-SB01

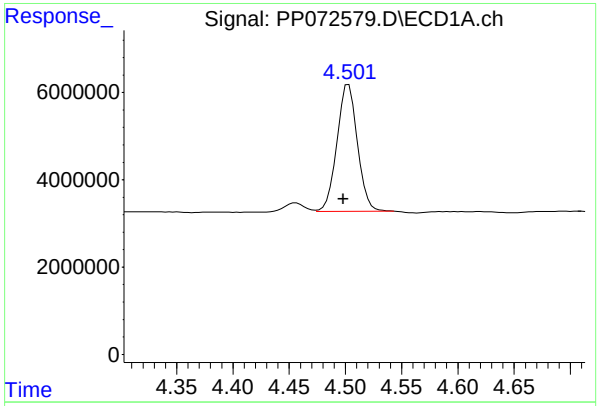
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 01:37:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 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





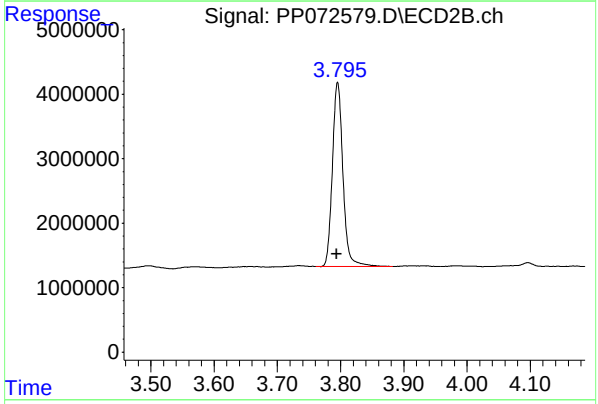

#1 Tetrachloro-m-xylene

R.T.: 4.501 min
Delta R.T.: 0.003 min
Response: 36909353
Conc: 18.36 ng/ml

**Instrument :**
ECD_P
**ClientSampleId :**
B-187-SB01

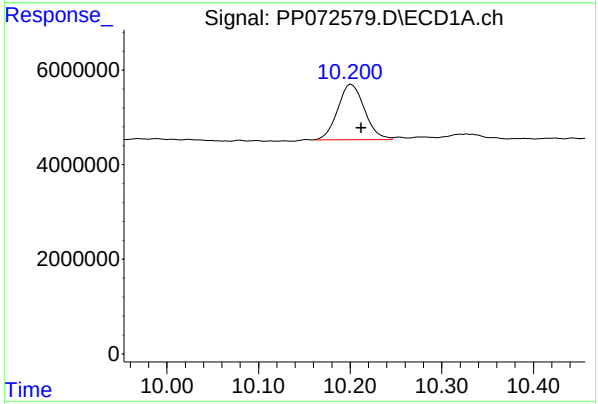
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025



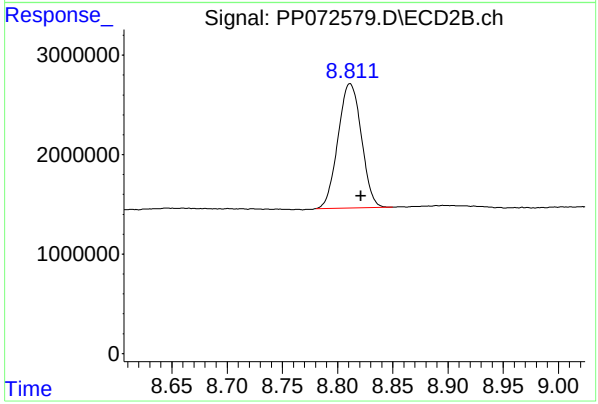

#1 Tetrachloro-m-xylene

R.T.: 3.795 min
Delta R.T.: 0.002 min
Response: 33123564
Conc: 20.72 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.201 min
Delta R.T.: -0.011 min
Response: 23838811
Conc: 14.63 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.811 min
Delta R.T.: -0.010 min
Response: 18434306
Conc: 17.41 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060325\
Data File : PP072580.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 20:31
Operator : YP\AJ
Sample : Q2177-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
ECD_P
**ClientSampleId :**
B-187-SB02

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 01:37:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 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... | 4.497 | 3.795 | 36118127 | 33300068 | 17.962 | 20.834 |
| 2) | SA Decachlor... | 10.194 | 8.809 | 21764610 | 16314604 | 13.360m | 15.411m |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060325\
Data File : PP072580.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 20:31
Operator : YP\AJ
Sample : Q2177-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

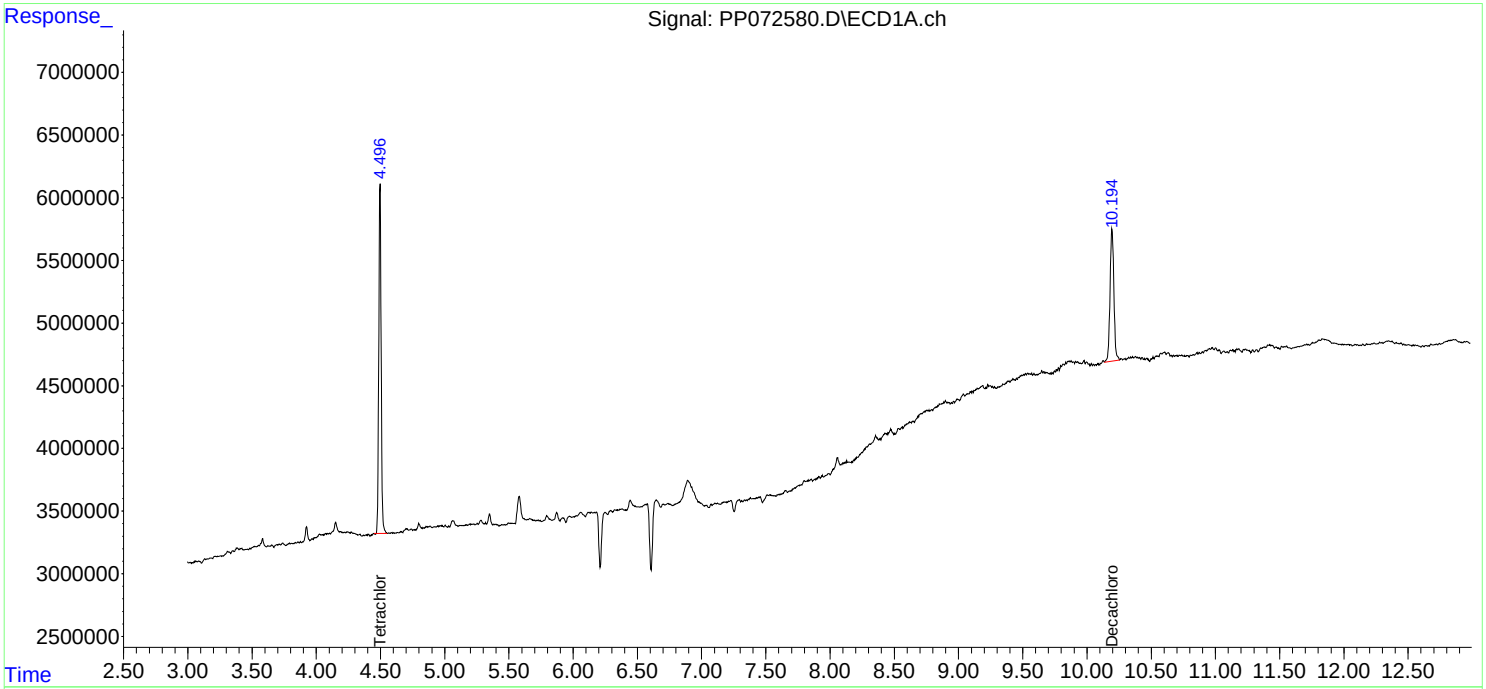
**Instrument :**
ECD_P
**ClientSampleId :**
B-187-SB02

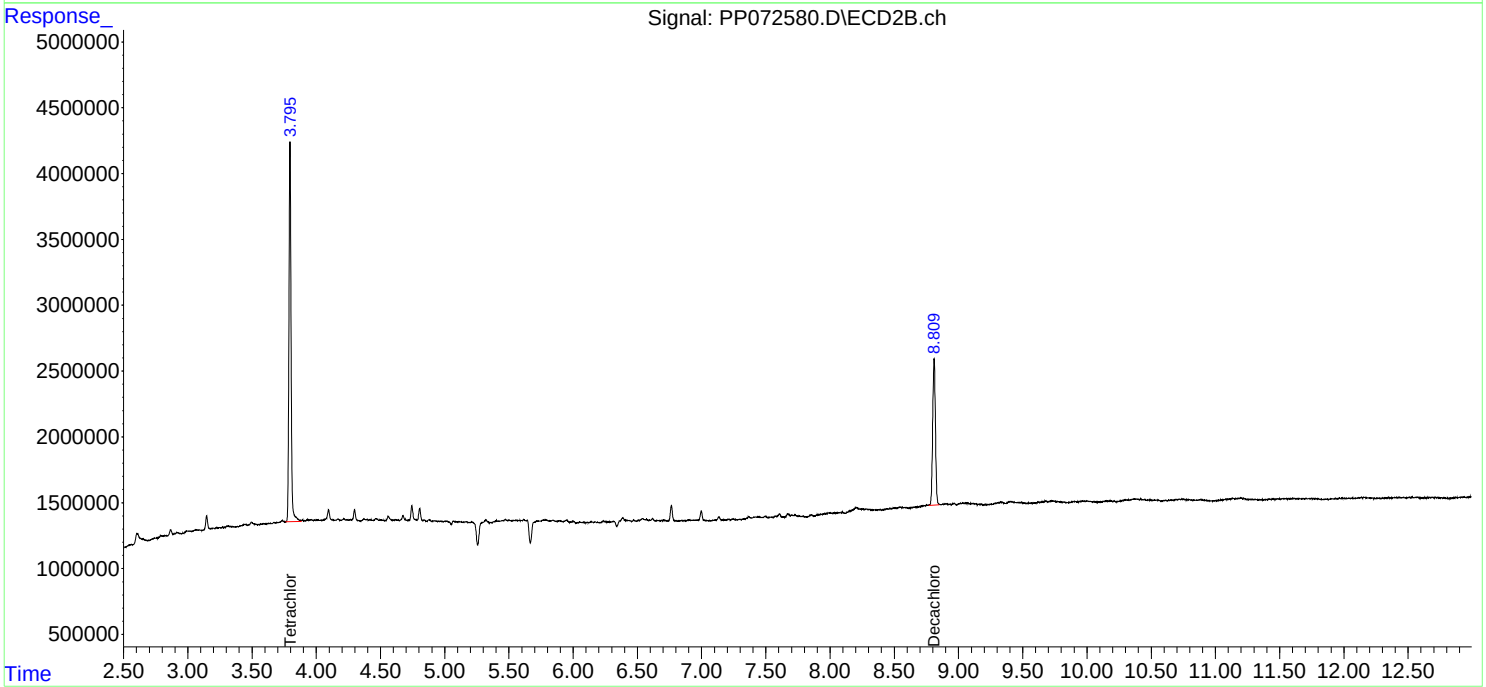
**Manual Integrations APPROVED**

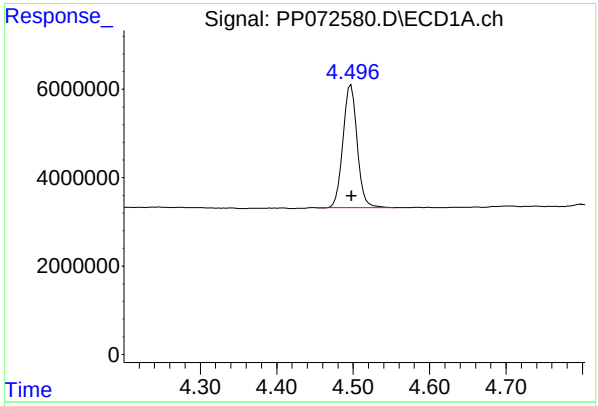
Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 01:37:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 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





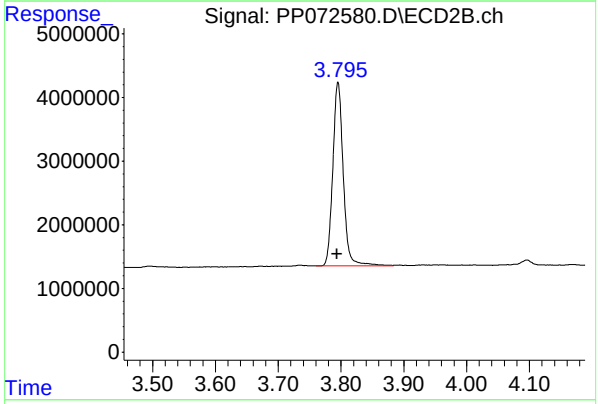

#1 Tetrachloro-m-xylene

R.T.: 4.497 min
Delta R.T.: -0.001 mi
Response: 36118127
Conc: 17.96 ng/m

**Instrument :**
ECD_P
**ClientSampleId :**
B-187-SB02

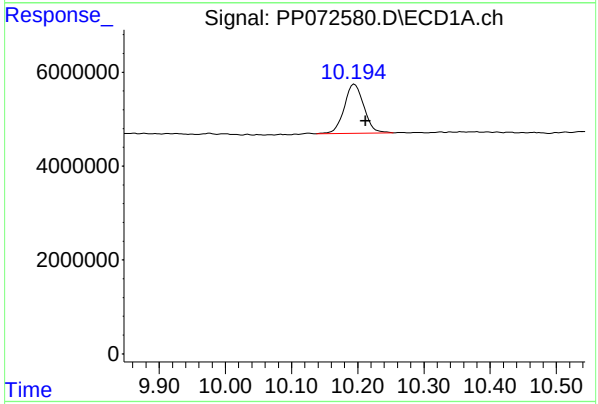
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025



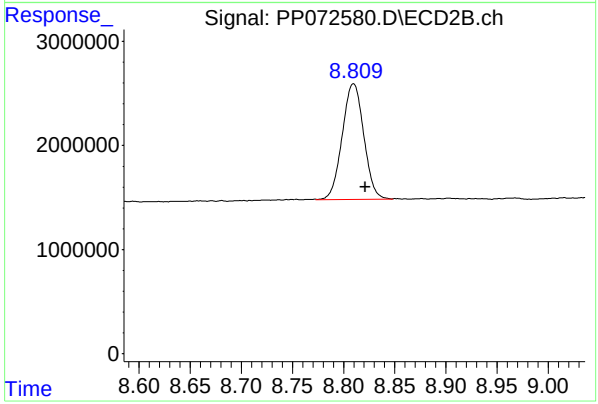

#1 Tetrachloro-m-xylene

R.T.: 3.795 min
Delta R.T.: 0.002 min
Response: 33300068
Conc: 20.83 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.194 min
Delta R.T.: -0.018 min
Response: 21764610
Conc: 13.36 ng/ml m




#2 Decachlorobiphenyl

R.T.: 8.809 min
Delta R.T.: -0.012 min
Response: 16314604
Conc: 15.41 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060325\
Data File : PP072581.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 20:48
Operator : YP\AJ
Sample : Q2177-06
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
ECD_P
**ClientSampleId :**
B-202-SB01

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 01:38:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 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... | 4.502 | 3.795 | 41161641 | 38502501 | 20.470m | 24.089 |
| 2) | SA Decachlor... | 10.200 | 8.810 | 30482591 | 23027738 | 18.711m | 21.753m |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

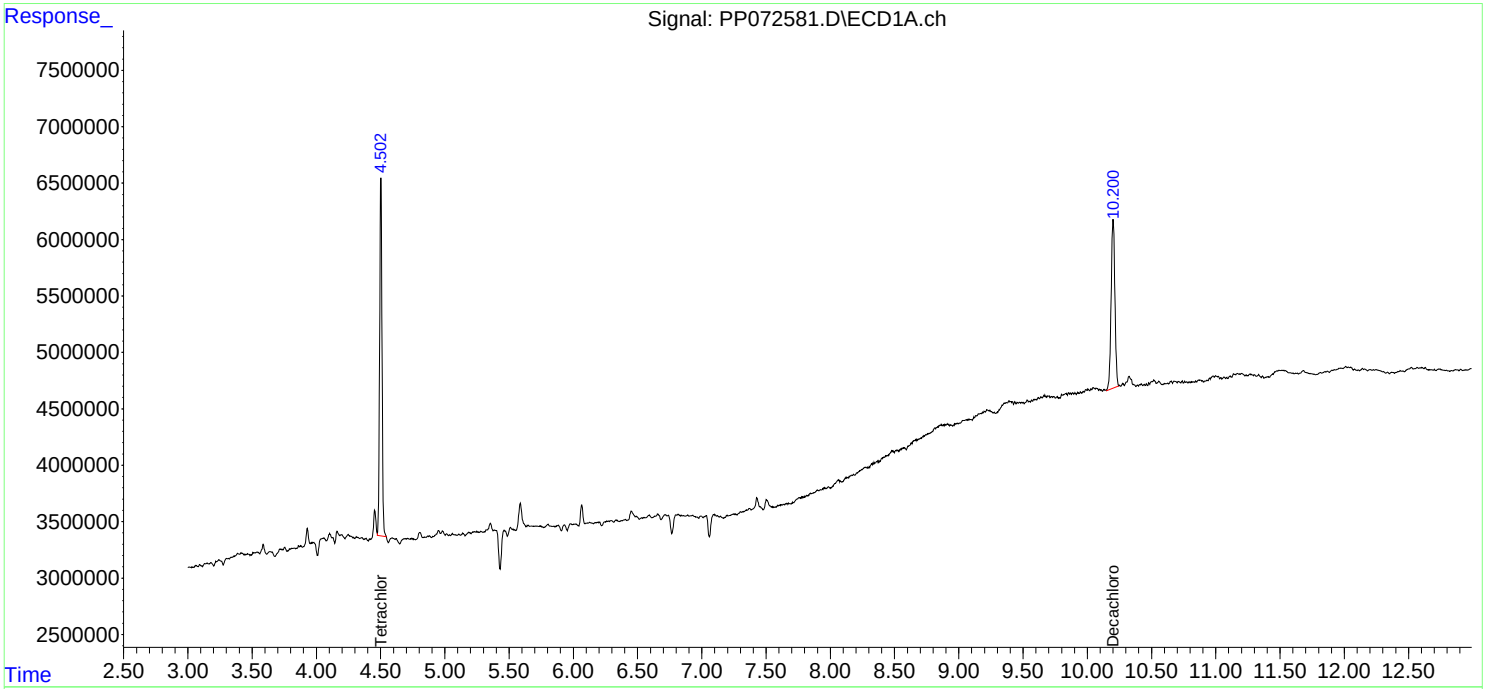
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060325\
Data File : PP072581.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 20:48
Operator : YP\AJ
Sample : Q2177-06
Misc :
ALS Vial : 25 Sample Multiplier: 1

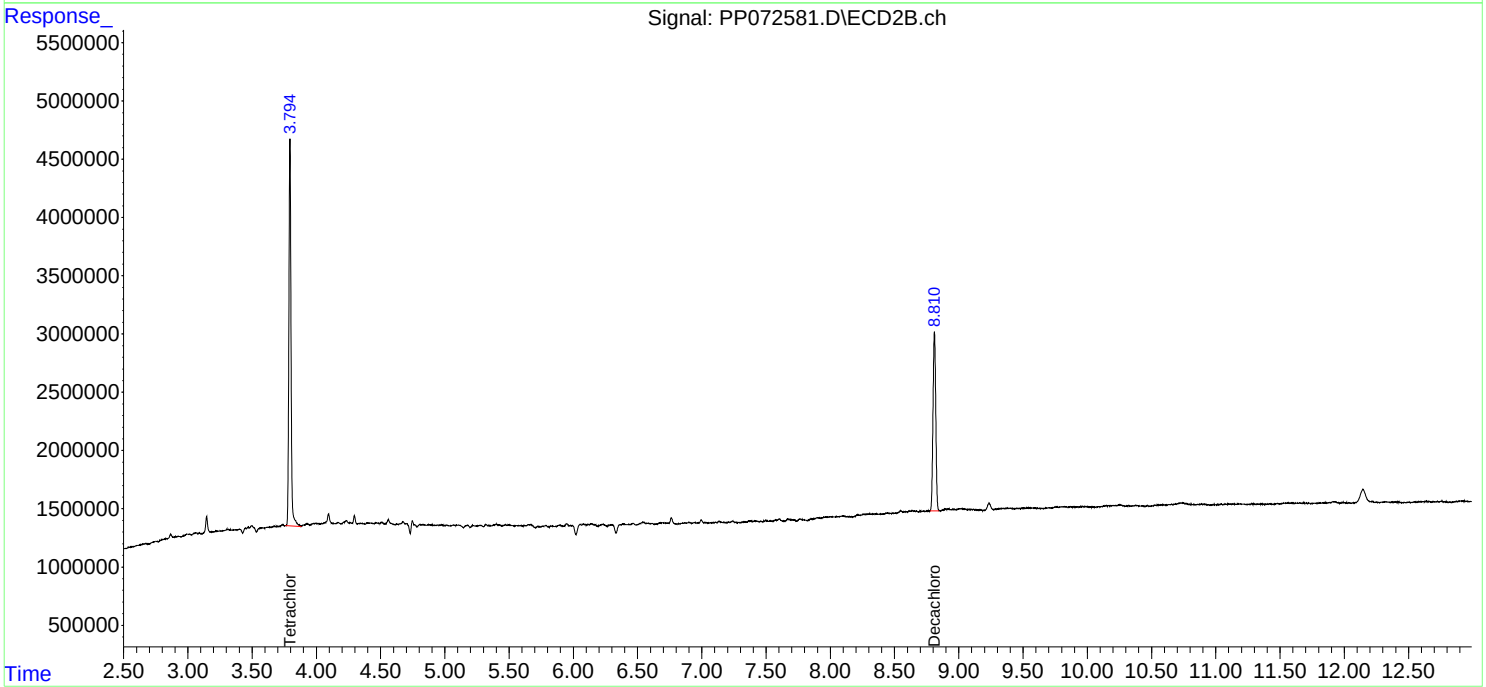
**Instrument :**
ECD_P
**ClientSampleId :**
B-202-SB01

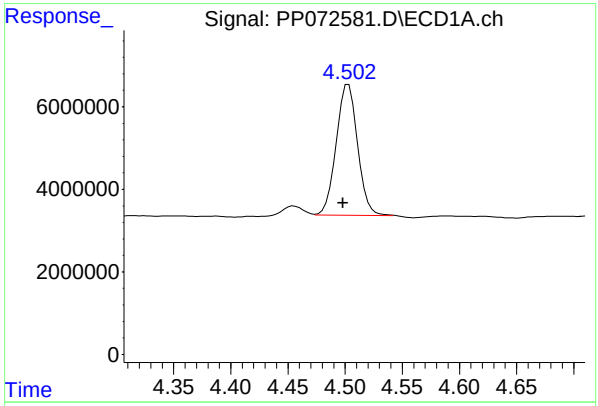
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 01:38:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 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





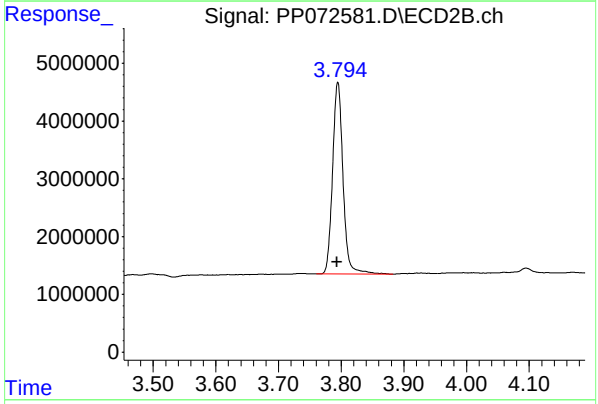

#1 Tetrachloro-m-xylene

R.T.: 4.502 min
Delta R.T.: 0.004 min
Response: 41161641
Conc: 20.47 ng/ml

**Instrument :**
ECD_P
**ClientSampleId :**
B-202-SB01

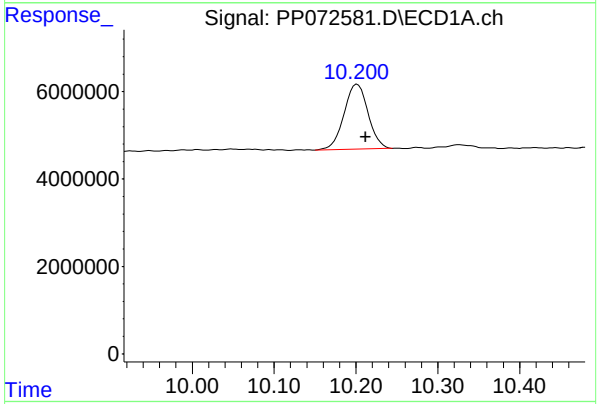
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025



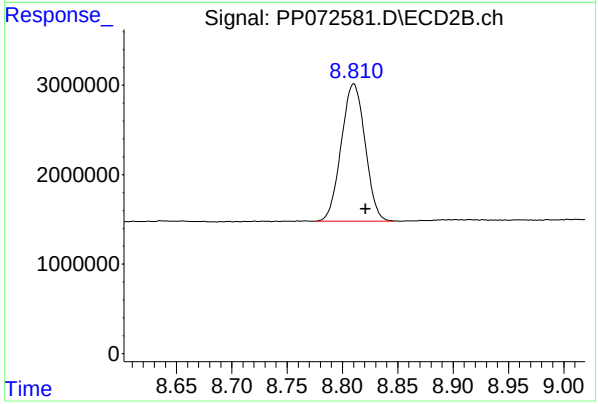

#1 Tetrachloro-m-xylene

R.T.: 3.795 min
Delta R.T.: 0.001 min
Response: 38502501
Conc: 24.09 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.200 min
Delta R.T.: -0.012 min
Response: 30482591
Conc: 18.71 ng/ml m




#2 Decachlorobiphenyl

R.T.: 8.810 min
Delta R.T.: -0.011 min
Response: 23027738
Conc: 21.75 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO060325\
Data File : PO111445.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 20:41
Operator : YP/AJ
Sample : Q2177-08
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
EB05312025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 01:37:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO051525.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu May 15 07:11:53 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... | 3.681 | 3.677 | 134.4E6 | 114.6E6 | 22.841 | 21.016 |
| 2) | SA Decachlor... | 8.717 | 8.666 | 79530138 | 27754512 | 15.404 | 15.001 |
| | Target Compounds | | | | | | |

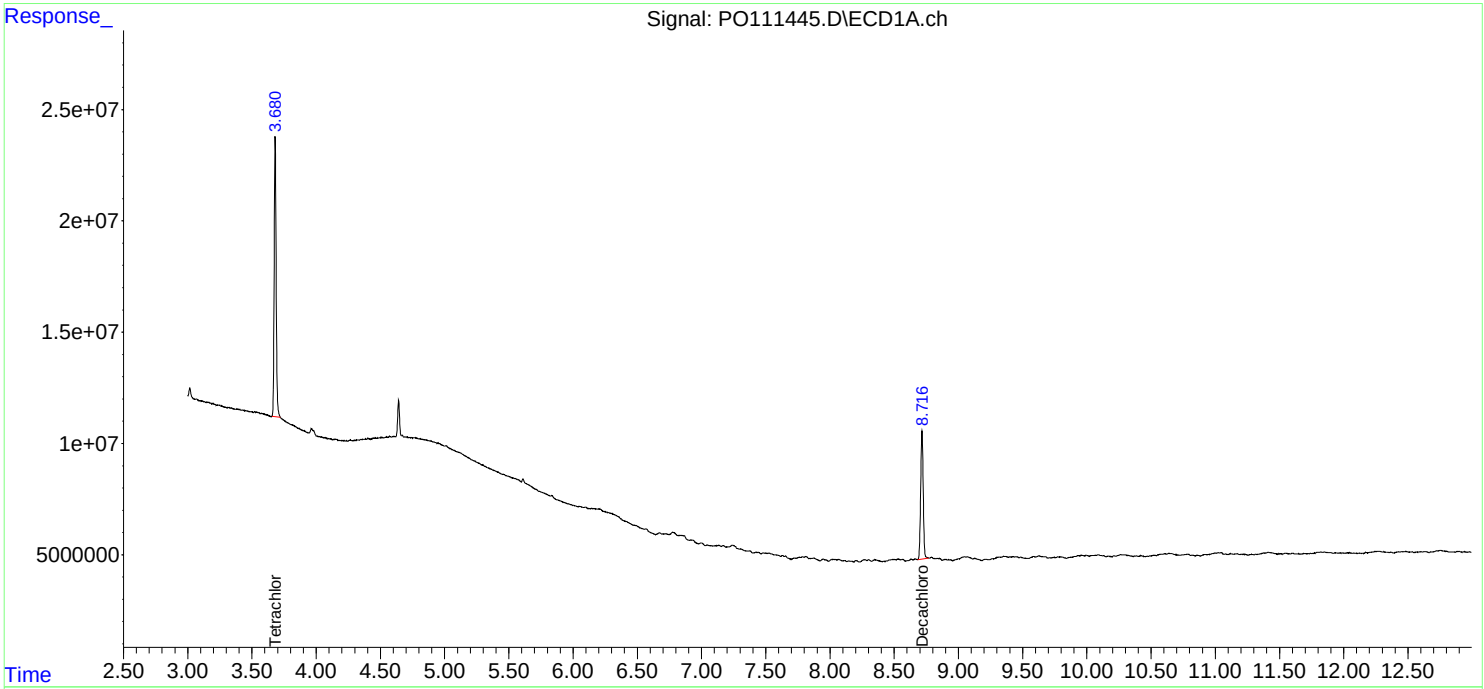
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

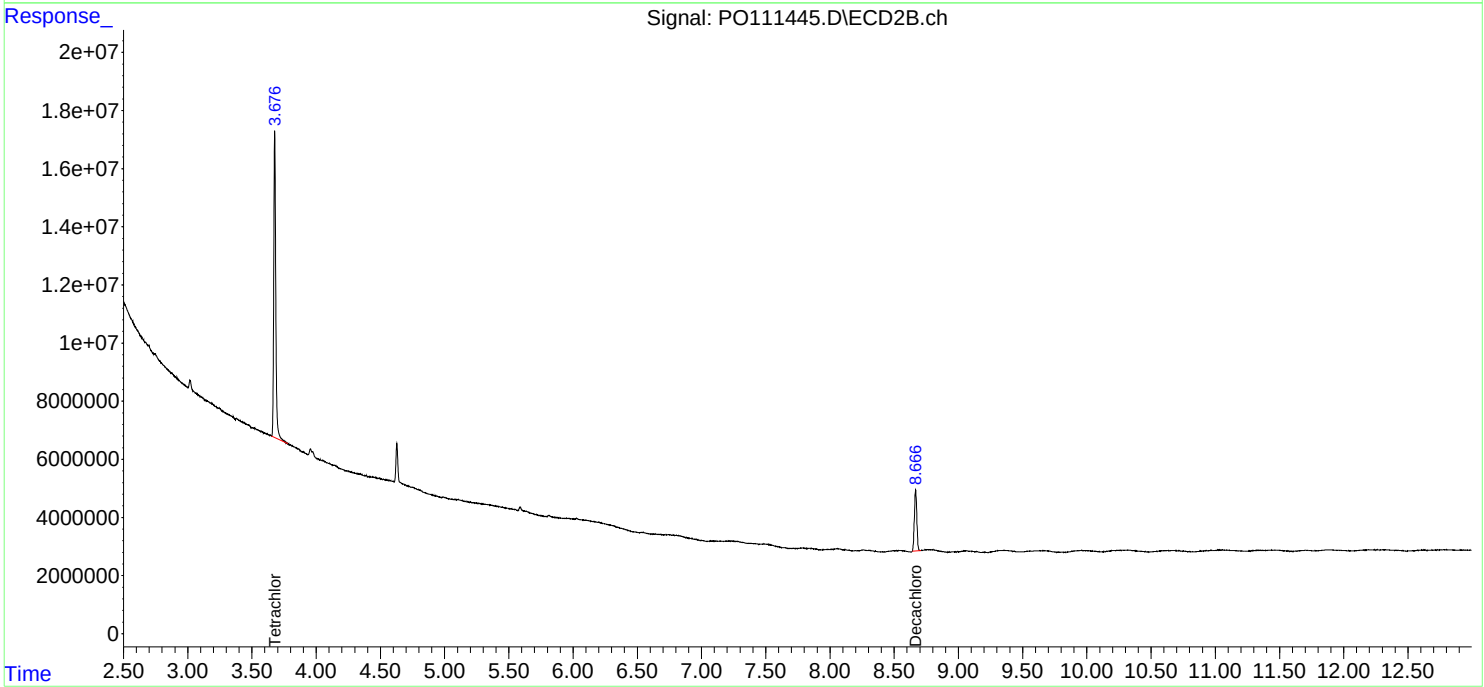
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO060325\
Data File : PO111445.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 20:41
Operator : YP/AJ
Sample : Q2177-08
Misc :
ALS Vial : 24 Sample Multiplier: 1

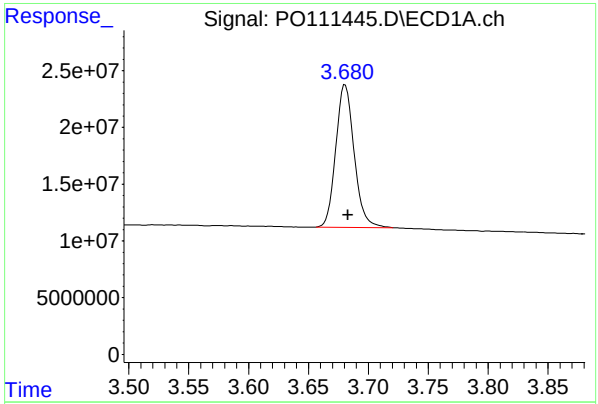
**Instrument :**
ECD_O
**ClientSampleId :**
EB05312025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 01:37:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO051525.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu May 15 07:11:53 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



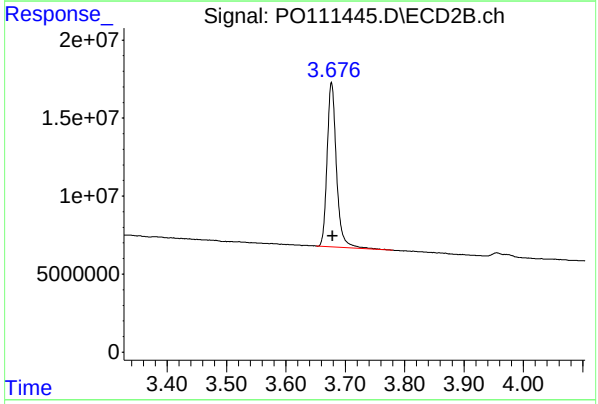






#1 Tetrachloro-m-xylene

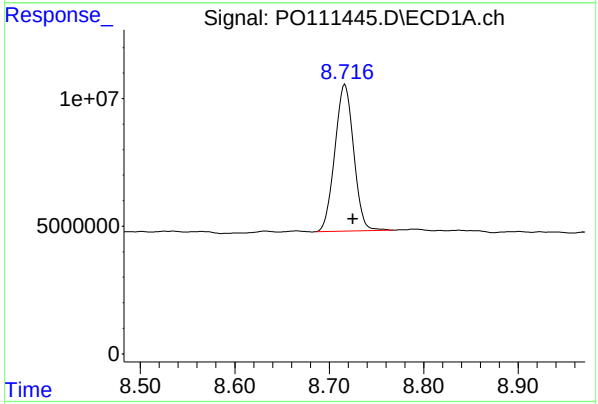
R.T.: 3.681 min
Delta R.T.: -0.002 min
Response: 134381054
Conc: 22.84 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
EB05312025



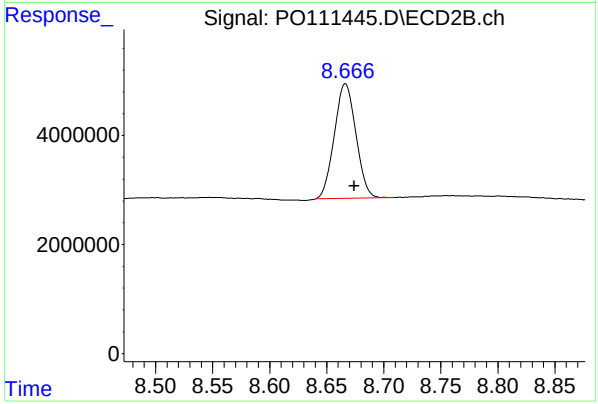

#1 Tetrachloro-m-xylene

R.T.: 3.677 min
Delta R.T.: -0.002 min
Response: 114566534
Conc: 21.02 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.717 min
Delta R.T.: -0.008 min
Response: 79530138
Conc: 15.40 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.666 min
Delta R.T.: -0.008 min
Response: 27754512
Conc: 15.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060325\
Data File : PP072558.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 13:28
Operator : YP\AJ
Sample : PB168252BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
ECD_P
**ClientSampleId :**
PB168252BL

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 03 14:08:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 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... | 4.500 | 3.794 | 39017773 | 33662485 | 19.404 | 21.061 |
| 2) | SA Decachlor... | 10.200 | 8.809 | 33339459 | 23871164 | 20.465m | 22.550m |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060325\
Data File : PP072558.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 13:28
Operator : YP\AJ
Sample : PB168252BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

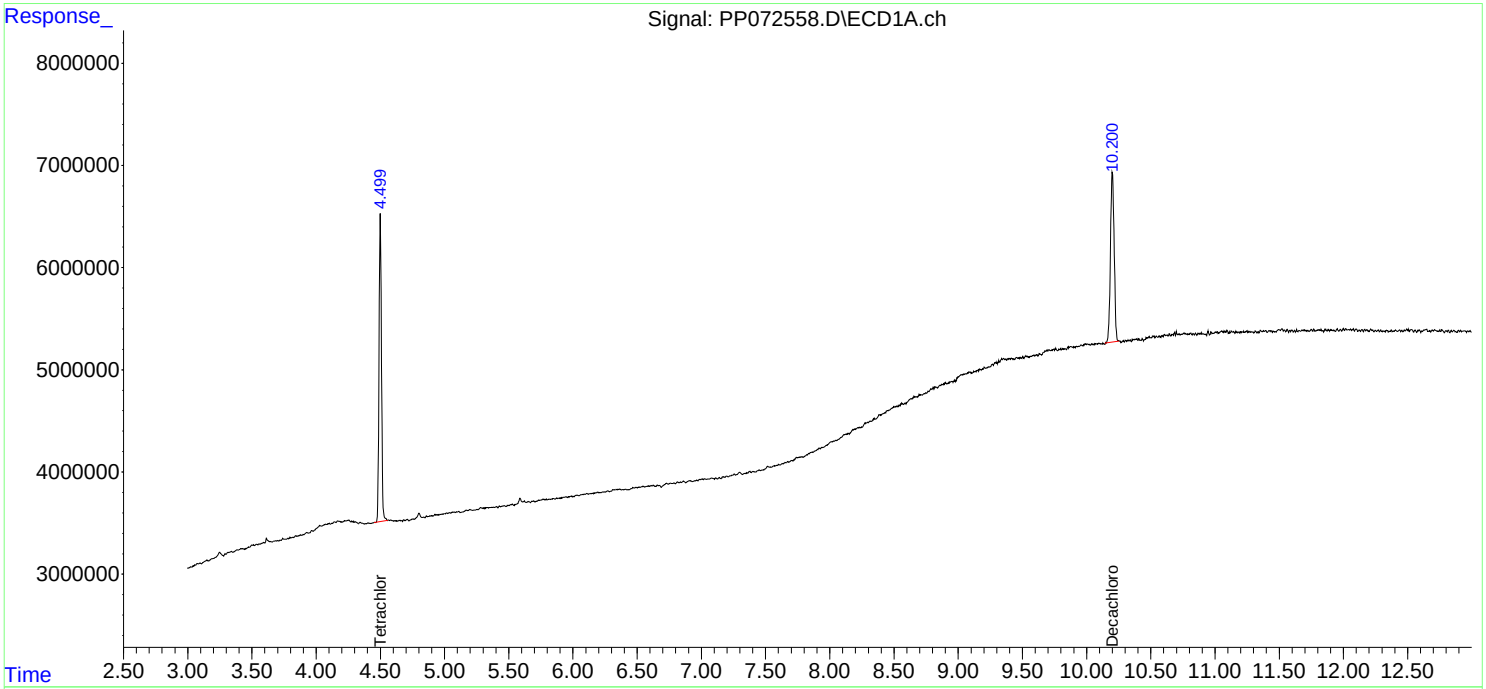
**Instrument :**
ECD_P
**ClientSampleId :**
PB168252BL

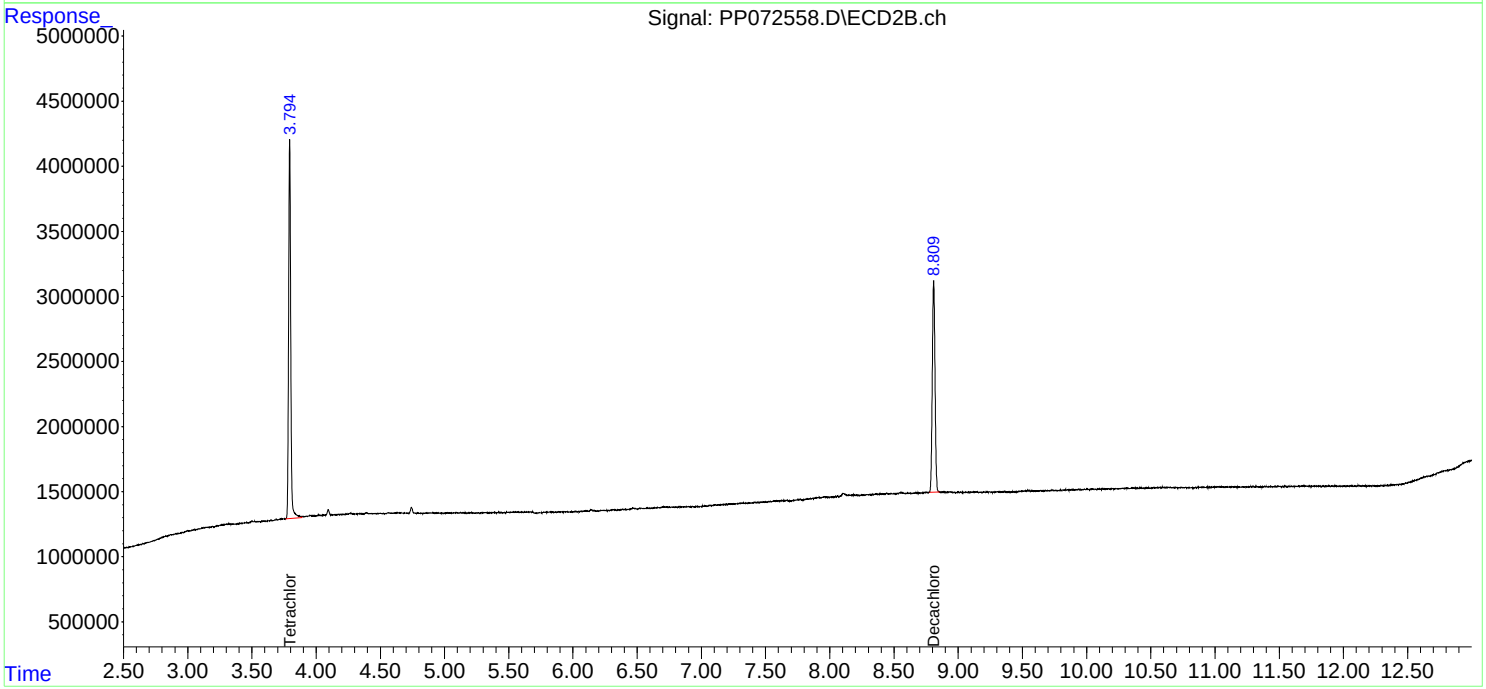
**Manual Integrations APPROVED**

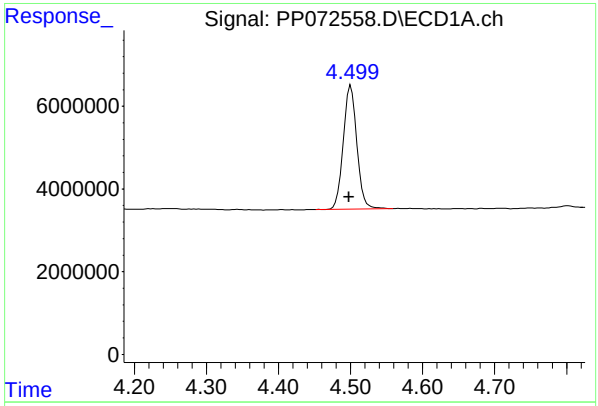
Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 03 14:08:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 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





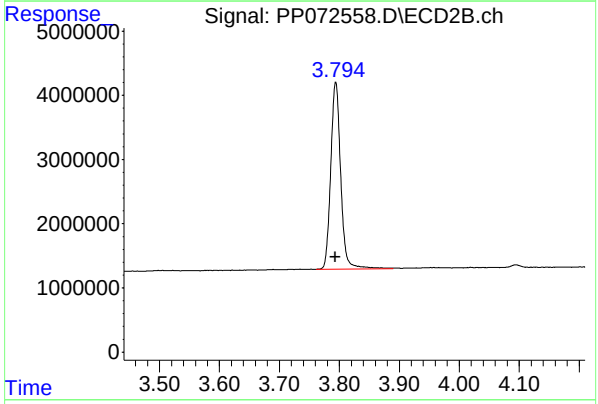

#1 Tetrachloro-m-xylene

R.T.: 4.500 min
Delta R.T.: 0.002 mi
Response: 39017773
Conc: 19.40 ng/m

**Instrument :**
ECD_P
**ClientSampleId :**
PB168252BL

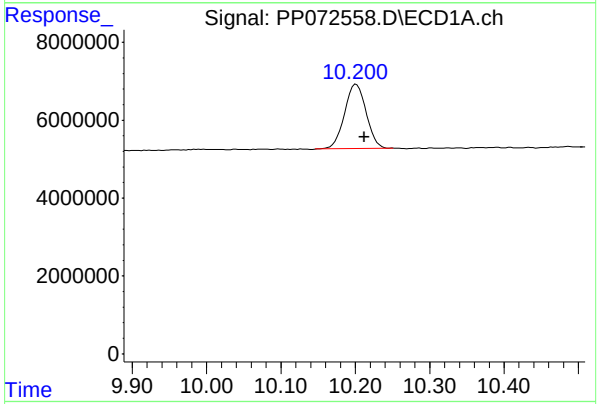
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025



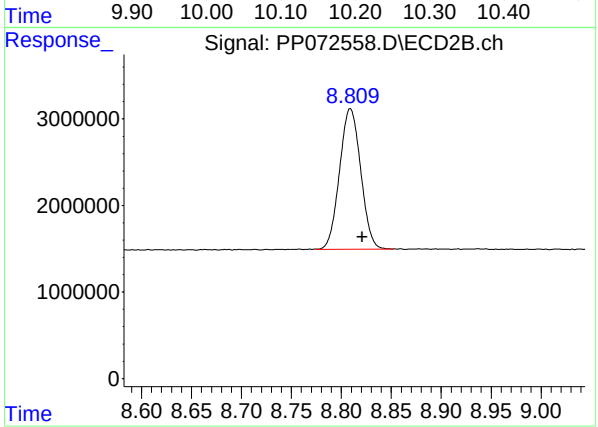

#1 Tetrachloro-m-xylene

R.T.: 3.794 min
Delta R.T.: 0.000 min
Response: 33662485
Conc: 21.06 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.200 min
Delta R.T.: -0.012 min
Response: 33339459
Conc: 20.46 ng/ml m




#2 Decachlorobiphenyl

R.T.: 8.809 min
Delta R.T.: -0.013 min
Response: 23871164
Conc: 22.55 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060325\
Data File : PP072590.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 00:35
Operator : YP\AJ
Sample : PB168257BL
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
ECD_P
**ClientSampleId :**
PB168257BL

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 01:40:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 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... | 4.498 | 3.794 | 38233352 | 32802243 | 19.014 | 20.522 |
| 2) | SA Decachlor... | 10.195 | 8.807 | 33994803 | 25529702 | 20.867m | 24.116m |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060325\
Data File : PP072590.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 00:35
Operator : YP\AJ
Sample : PB168257BL
Misc :
ALS Vial : 29 Sample Multiplier: 1

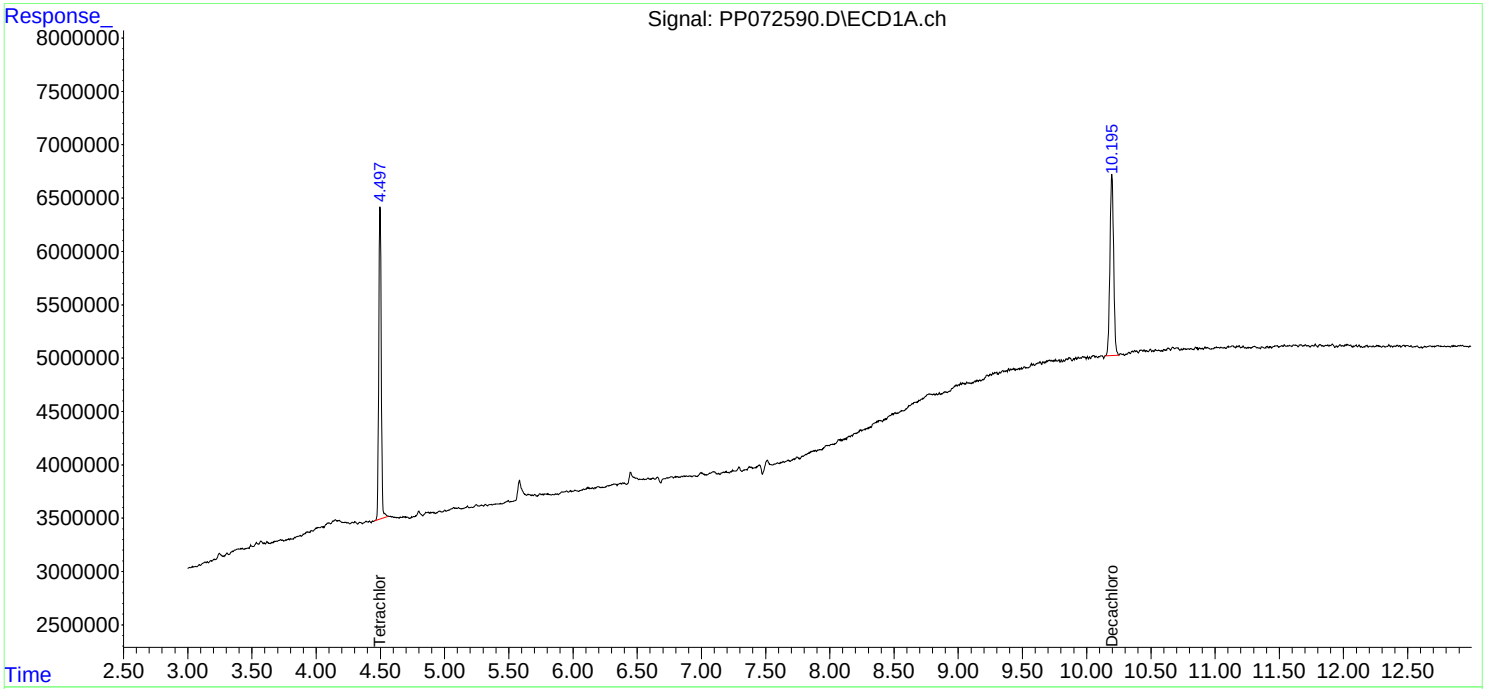
**Instrument :**
ECD_P
**ClientSampleId :**
PB168257BL

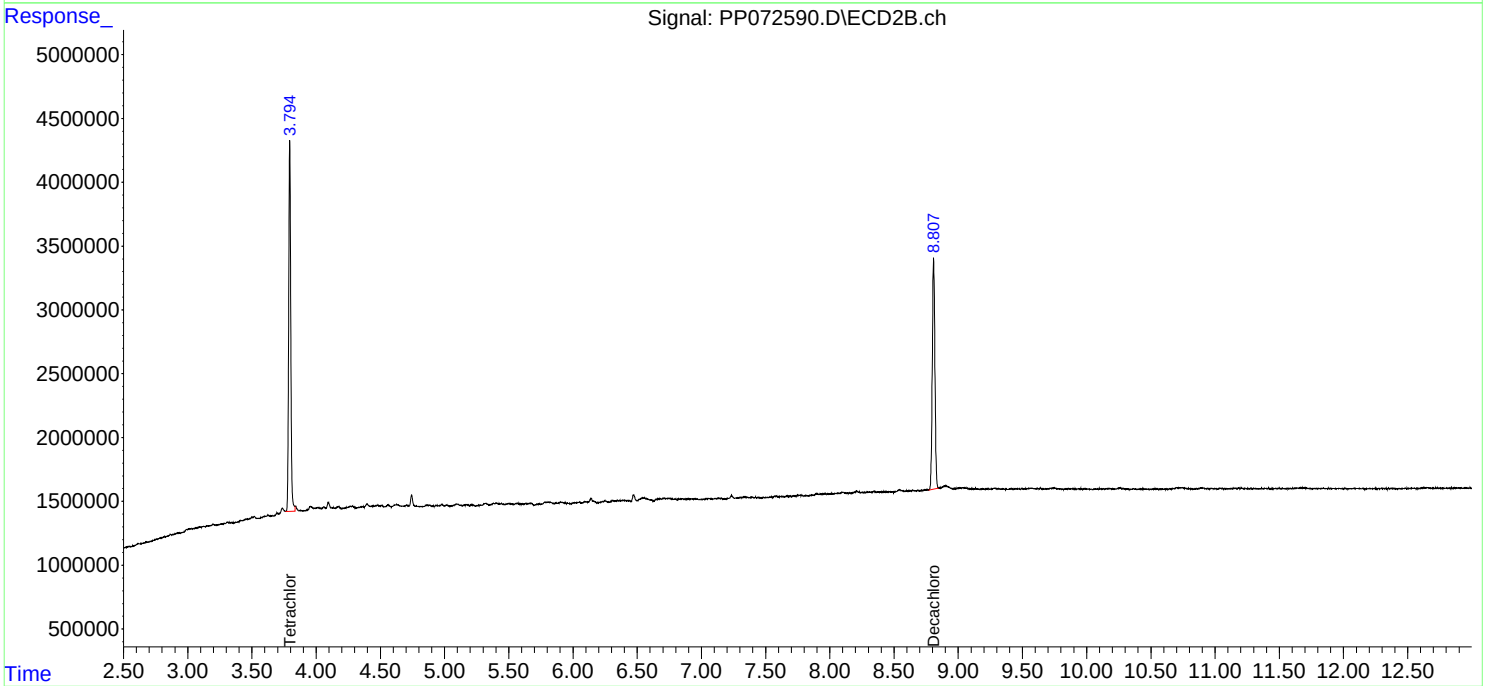
**Manual Integrations APPROVED**

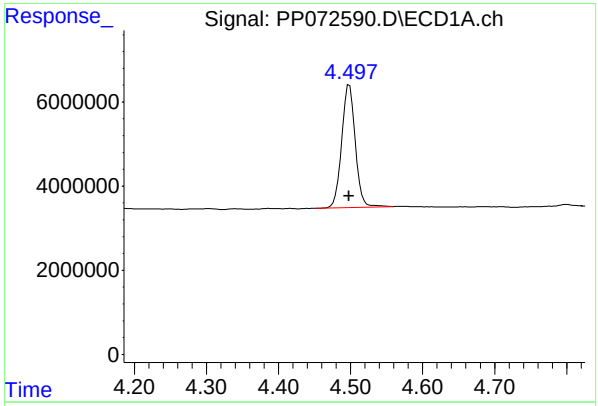
Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 01:40:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 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





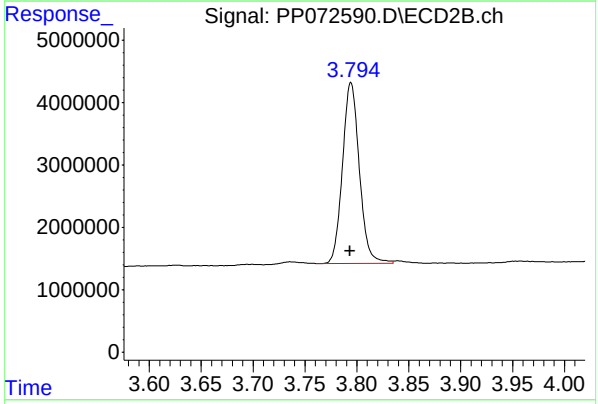

#1 Tetrachloro-m-xylene

R.T.: 4.498 min
Delta R.T.: 0.000 min
Response: 38233352
Conc: 19.01 ng/ml

**Instrument :**
ECD_P
**ClientSampleId :**
PB168257BL

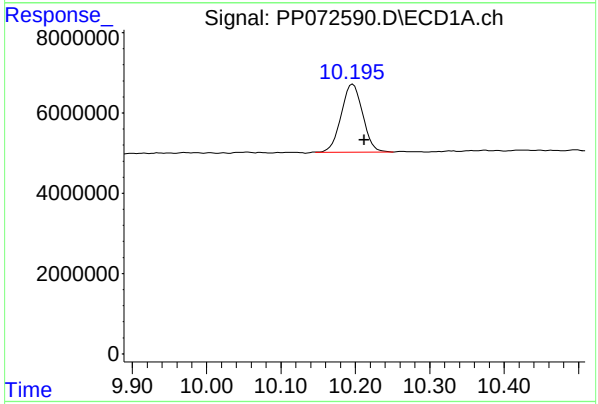
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025



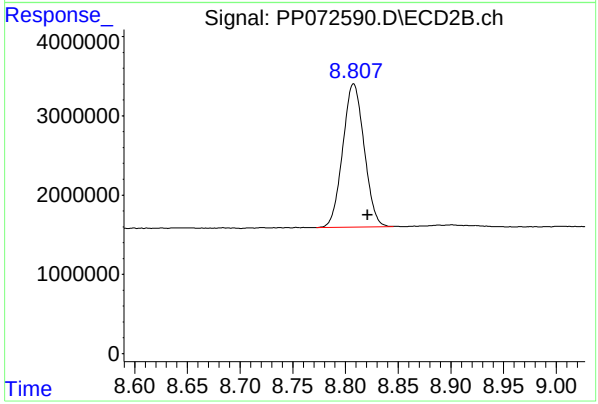

#1 Tetrachloro-m-xylene

R.T.: 3.794 min
Delta R.T.: 0.000 min
Response: 32802243
Conc: 20.52 ng/ml




#2 Decachlorobiphenyl

R.T.: 10.195 min
Delta R.T.: -0.017 min
Response: 33994803
Conc: 20.87 ng/ml m




#2 Decachlorobiphenyl

R.T.: 8.807 min
Delta R.T.: -0.014 min
Response: 25529702
Conc: 24.12 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060425\
Data File : PP072614.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 11:37
Operator : YP\AJ
Sample : PB168252BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
ECD_P
**ClientSampleId :**
PB168252BS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 14:25:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 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... | 4.500 | 3.794 | 39147512 | 31976492 | 19.469 | 20.006 |
| 2) SA | Decachlor... | 10.198 | 8.808 | 33462860 | 24867412 | 20.540 | 23.491m |
| | Target Compounds | | | | | | |
| 3) L1 | AR-1016-1 | 5.652 | 4.875 | 29511760 | 28050184 | 393.052 | 456.624 |
| 4) L1 | AR-1016-2 | 5.673 | 4.893 | 46043745 | 40857879 | 430.349 | 465.408 |
| 5) L1 | AR-1016-3 | 5.735 | 5.069 | 28120990 | 22261117 | 428.903 | 467.136 |
| 6) L1 | AR-1016-4 | 5.832 | 5.111 | 23309733 | 17784555 | 437.577 | 467.457 |
| 7) L1 | AR-1016-5 | 6.125 | 5.325 | 20355750 | 22120563 | 416.195 | 443.970 |
| 31) L7 | AR-1260-1 | 7.242 | 6.357 | 40988391 | 39524782 | 437.935 | 495.585 |
| 32) L7 | AR-1260-2 | 7.496 | 6.546 | 63608527 | 47424120 | 443.297 | 467.591 |
| 33) L7 | AR-1260-3 | 7.853 | 6.697 | 44060572 | 43662328 | 386.935 | 502.430 # |
| 34) L7 | AR-1260-4 | 8.078 | 7.167 | 44067294 | 32551534 | 410.682 | 451.534 |
| 35) L7 | AR-1260-5 | 8.399 | 7.409 | 113.3E6 | 76778644 | 478.659 | 442.212 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

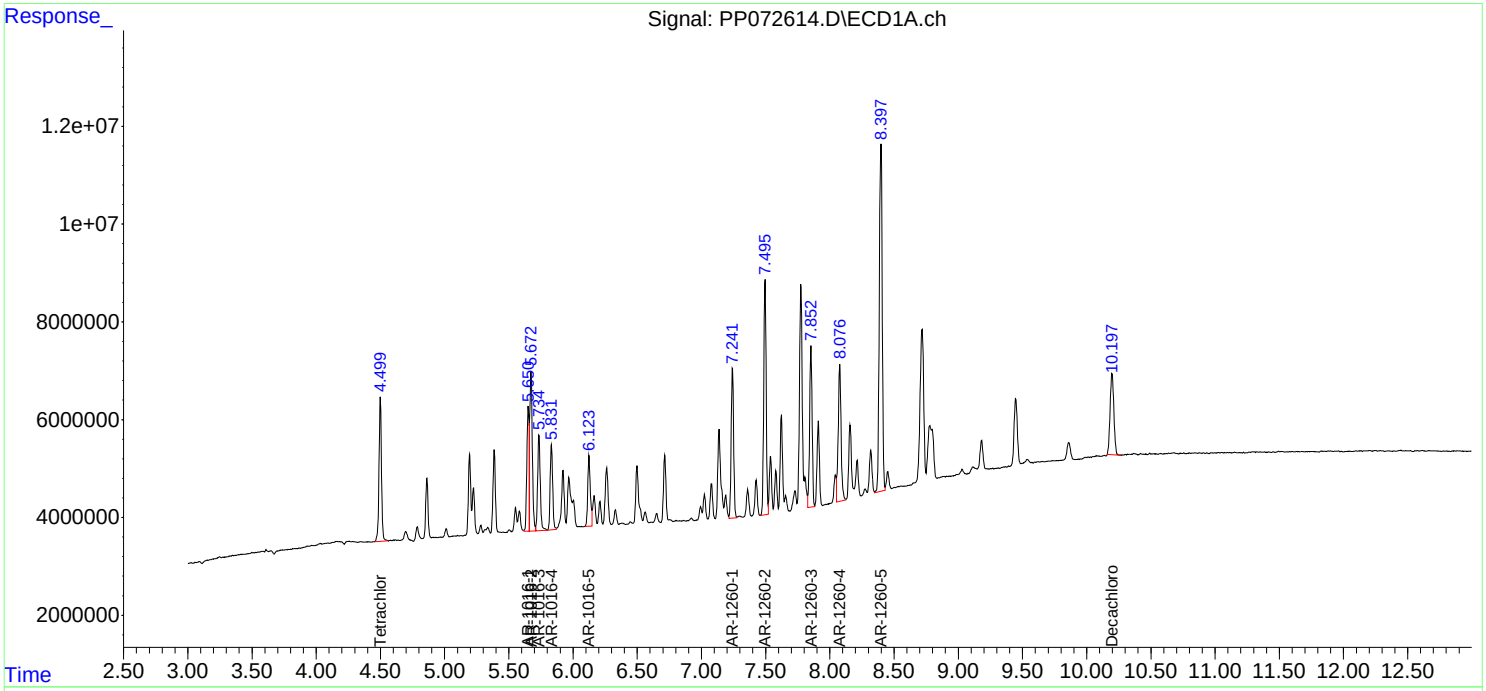
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060425\
Data File : PP072614.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 11:37
Operator : YP\AJ
Sample : PB168252BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

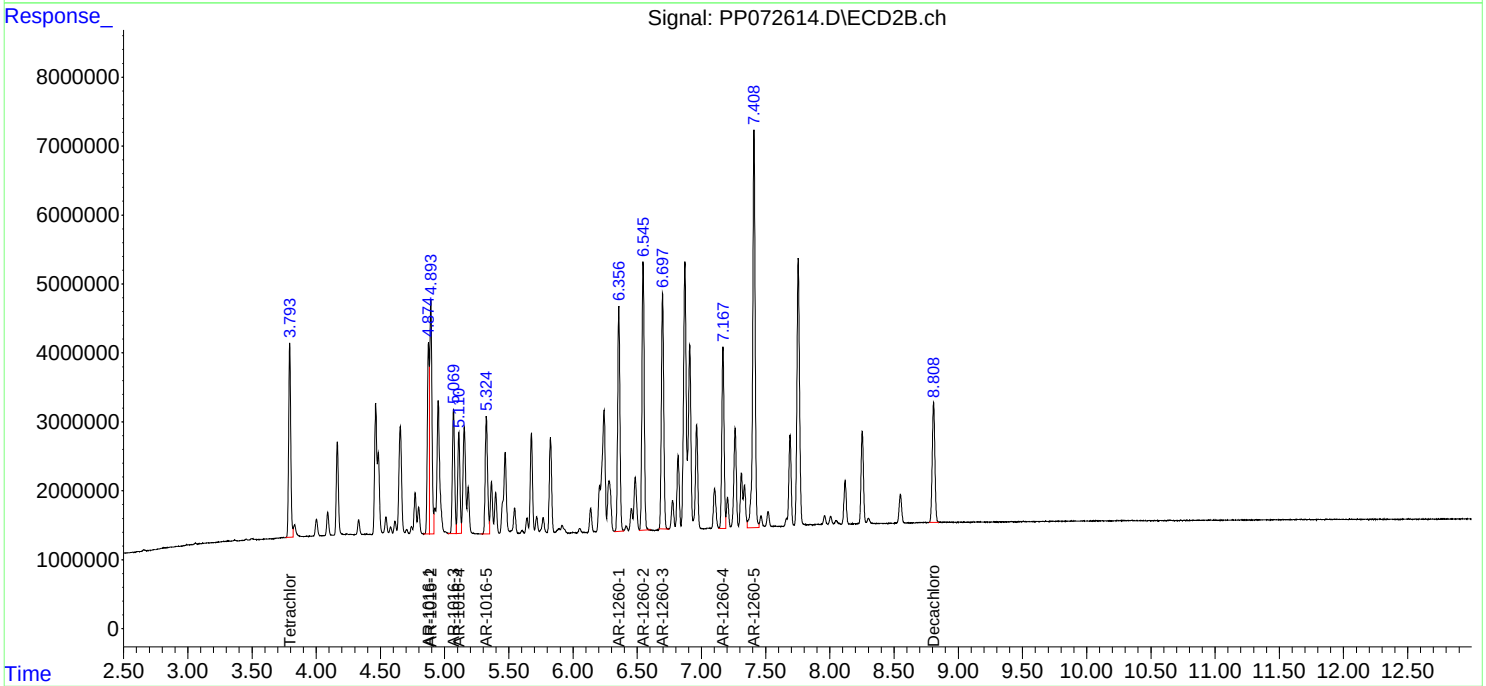
**Instrument :**
ECD_P
**ClientSampleId :**
PB168252BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 14:25:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060425\
Data File : PP072609.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 10:16
Operator : YP\AJ
Sample : PB168257BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
ECD_P
**ClientSampleId :**
PB168257BS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 14:22:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 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... | 4.497 | 3.795 | 39085568 | 32015481 | 19.438 | 20.030 |
| 2) | SA Decachlor... | 10.198 | 8.808 | 32309567 | 25249091 | 19.832 | 23.851m |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.649 | 4.875 | 29181284 | 27900332 | 388.650 | 454.184 |
| 4) | L1 AR-1016-2 | 5.671 | 4.893 | 45074776 | 40451559 | 421.292 | 460.780 |
| 5) | L1 AR-1016-3 | 5.733 | 5.070 | 27248751 | 21920830 | 415.599 | 459.995 |
| 6) | L1 AR-1016-4 | 5.830 | 5.112 | 23067761 | 17567534 | 433.035 | 461.753 |
| 7) | L1 AR-1016-5 | 6.122 | 5.326 | 20067188 | 22417364 | 410.295 | 449.927 |
| 31) | L7 AR-1260-1 | 7.240 | 6.357 | 41519126 | 39792726 | 443.605 | 498.945 |
| 32) | L7 AR-1260-2 | 7.494 | 6.545 | 63654247 | 48368384 | 443.615 | 476.901 |
| 33) | L7 AR-1260-3 | 7.852 | 6.698 | 44389099 | 44029065 | 389.820 | 506.650 # |
| 34) | L7 AR-1260-4 | 8.076 | 7.168 | 44603324 | 32204867 | 415.678 | 446.726 |
| 35) | L7 AR-1260-5 | 8.394 | 7.410 | 98148974 | 76858820 | 414.722 | 442.674 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060425\
Data File : PP072609.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 10:16
Operator : YP\AJ
Sample : PB168257BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

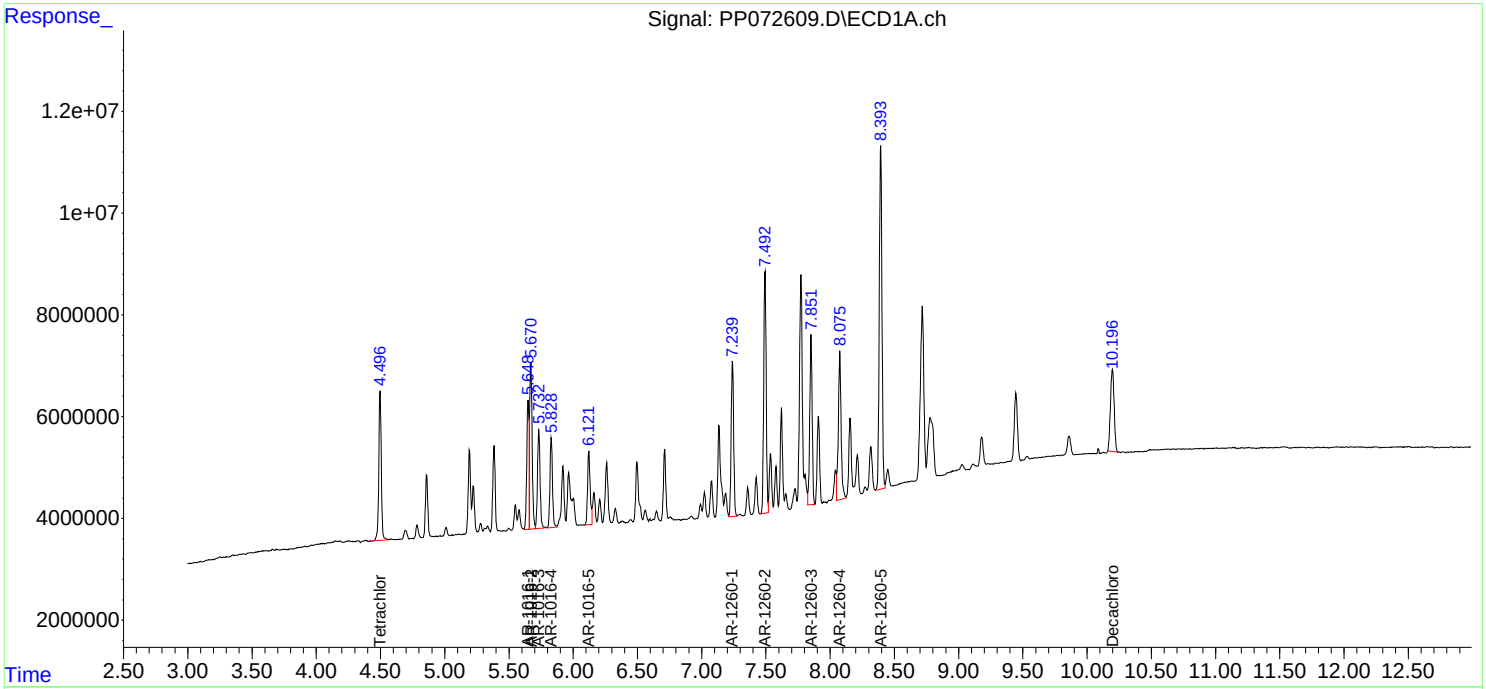
**Instrument :**
ECD_P
**ClientSampleId :**
PB168257BS

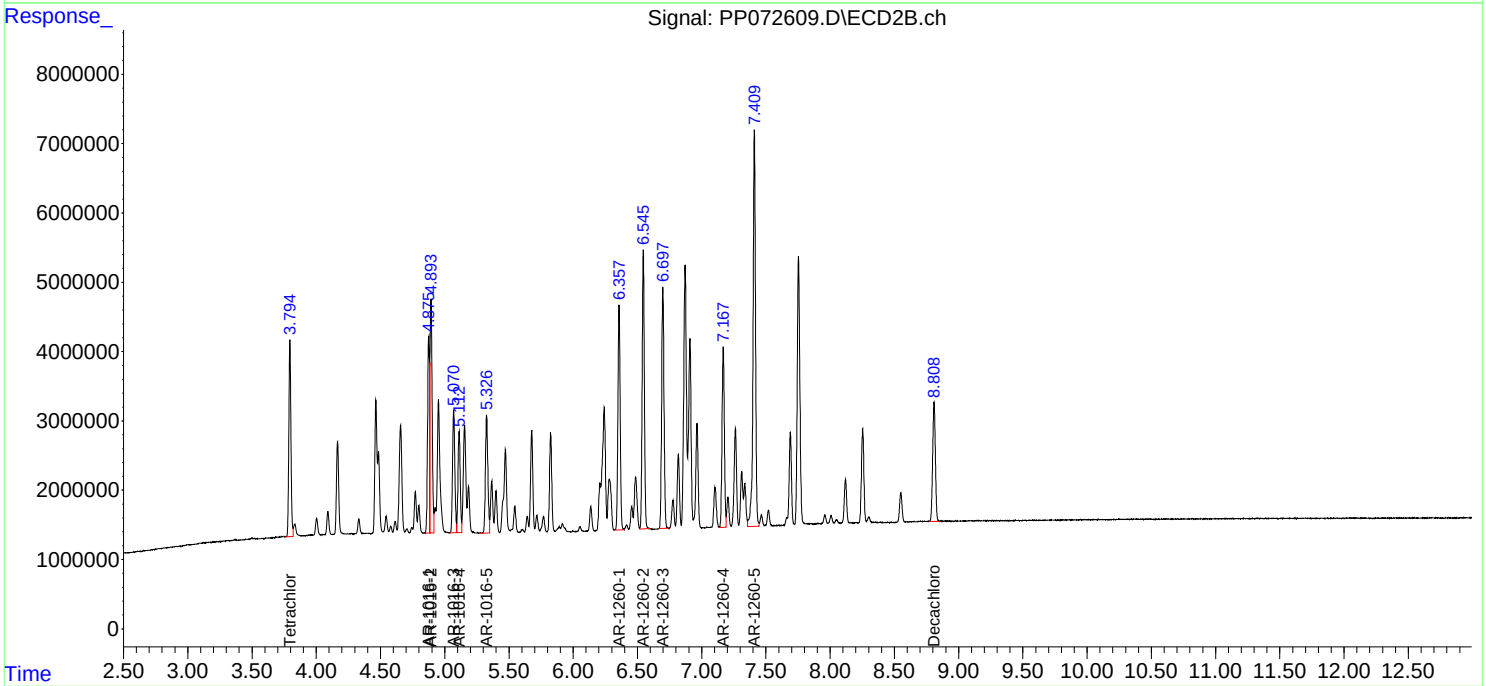
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 14:22:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060425\
Data File : PP072610.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 10:32
Operator : YP\AJ
Sample : PB168257BSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
ECD_P
**ClientSampleId :**
PB168257BSD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 14:23:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 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... | 4.497 | 3.794 | 38701037 | 31628676 | 19.247 | 19.788 |
| 2) | SA Decachlor... | 10.192 | 8.808 | 33798703 | 24838461 | 20.747m | 23.463m |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.648 | 4.875 | 29246859 | 27701825 | 389.524 | 450.953 |
| 4) | L1 AR-1016-2 | 5.670 | 4.893 | 44940217 | 40358434 | 420.035 | 459.719 |
| 5) | L1 AR-1016-3 | 5.732 | 5.070 | 26981681 | 22054662 | 411.526 | 462.803 |
| 6) | L1 AR-1016-4 | 5.830 | 5.111 | 23069880 | 17644069 | 433.075 | 463.764 |
| 7) | L1 AR-1016-5 | 6.122 | 5.325 | 20137353 | 22319482 | 411.729 | 447.963 |
| 31) | L7 AR-1260-1 | 7.239 | 6.357 | 41146762 | 39087056 | 439.627 | 490.097 |
| 32) | L7 AR-1260-2 | 7.492 | 6.546 | 63445621 | 47075370 | 442.161 | 464.153 |
| 33) | L7 AR-1260-3 | 7.851 | 6.698 | 43022545 | 42653929 | 377.819 | 490.826 # |
| 34) | L7 AR-1260-4 | 8.074 | 7.168 | 43595182 | 31847198 | 406.283 | 441.764 |
| 35) | L7 AR-1260-5 | 8.393 | 7.410 | 98485975 | 76229564 | 416.146 | 439.050 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

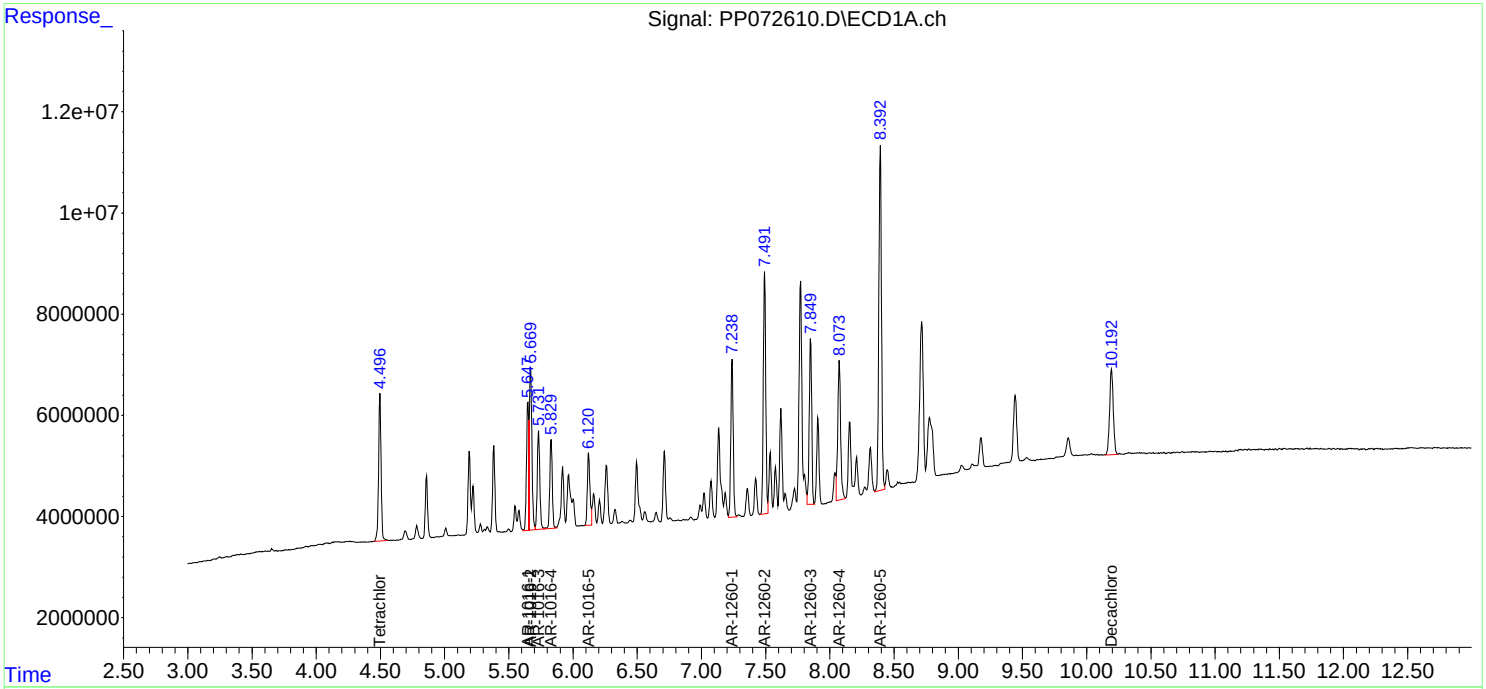
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060425\
Data File : PP072610.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 10:32
Operator : YP\AJ
Sample : PB168257BSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

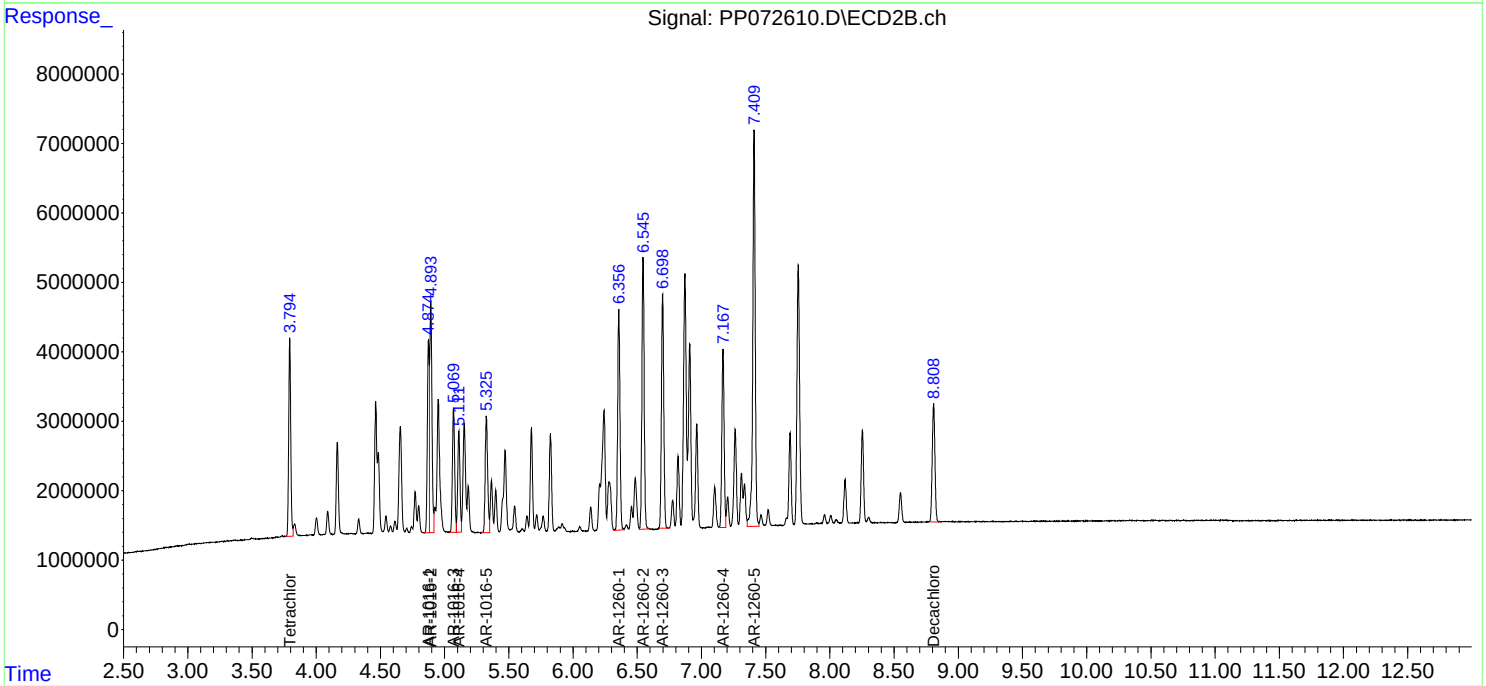
**Instrument :**
ECD_P
**ClientSampleId :**
PB168257BSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 14:23:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060325\
Data File : PP072574.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 18:53
Operator : YP\AJ
Sample : Q2176-05MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
ECD_P
**ClientSampleId :**
TP-28MS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 01:35:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 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... | 4.500 | 3.796 | 42938767 | 35678486 | 21.354 | 22.322 |
| 2) | SA Decachlor... | 10.199 | 8.811 | 31510912 | 23545456 | 19.342 | 22.242 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.652 | 4.877 | 28825899 | 27777887 | 383.917 | 452.191 |
| 4) | L1 AR-1016-2 | 5.673 | 4.895 | 44352765 | 40225056 | 414.544 | 458.200 |
| 5) | L1 AR-1016-3 | 5.735 | 5.071 | 26722687 | 22156711 | 407.576 | 464.945 |
| 6) | L1 AR-1016-4 | 5.832 | 5.113 | 22584646 | 17536778 | 423.966 | 460.944 |
| 7) | L1 AR-1016-5 | 6.125 | 5.327 | 19684210 | 22168214 | 402.464 | 444.927 |
| 31) | L7 AR-1260-1 | 7.242 | 6.358 | 40815170 | 38604907 | 436.084 | 484.051 |
| 32) | L7 AR-1260-2 | 7.495 | 6.548 | 55452283 | 44674886 | 386.455 | 440.484 |
| 33) | L7 AR-1260-3 | 7.854 | 6.700 | 38576087 | 40361306 | 338.771 | 464.444 # |
| 34) | L7 AR-1260-4 | 8.076 | 7.170 | 40162071 | 29309317 | 374.288m | 406.560 |
| 35) | L7 AR-1260-5 | 8.396 | 7.412 | 86378600 | 68250798 | 364.987 | 393.095 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

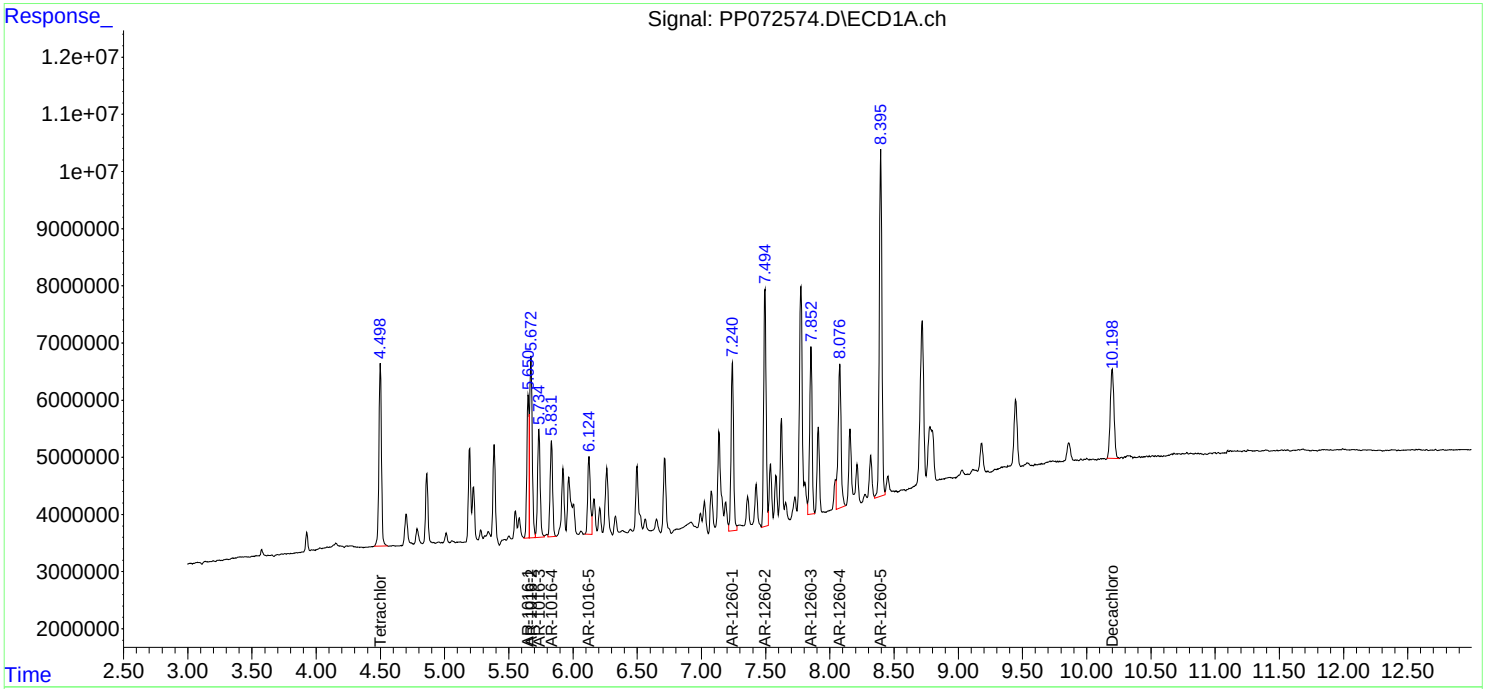
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060325\
Data File : PP072574.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 18:53
Operator : YP\AJ
Sample : Q2176-05MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

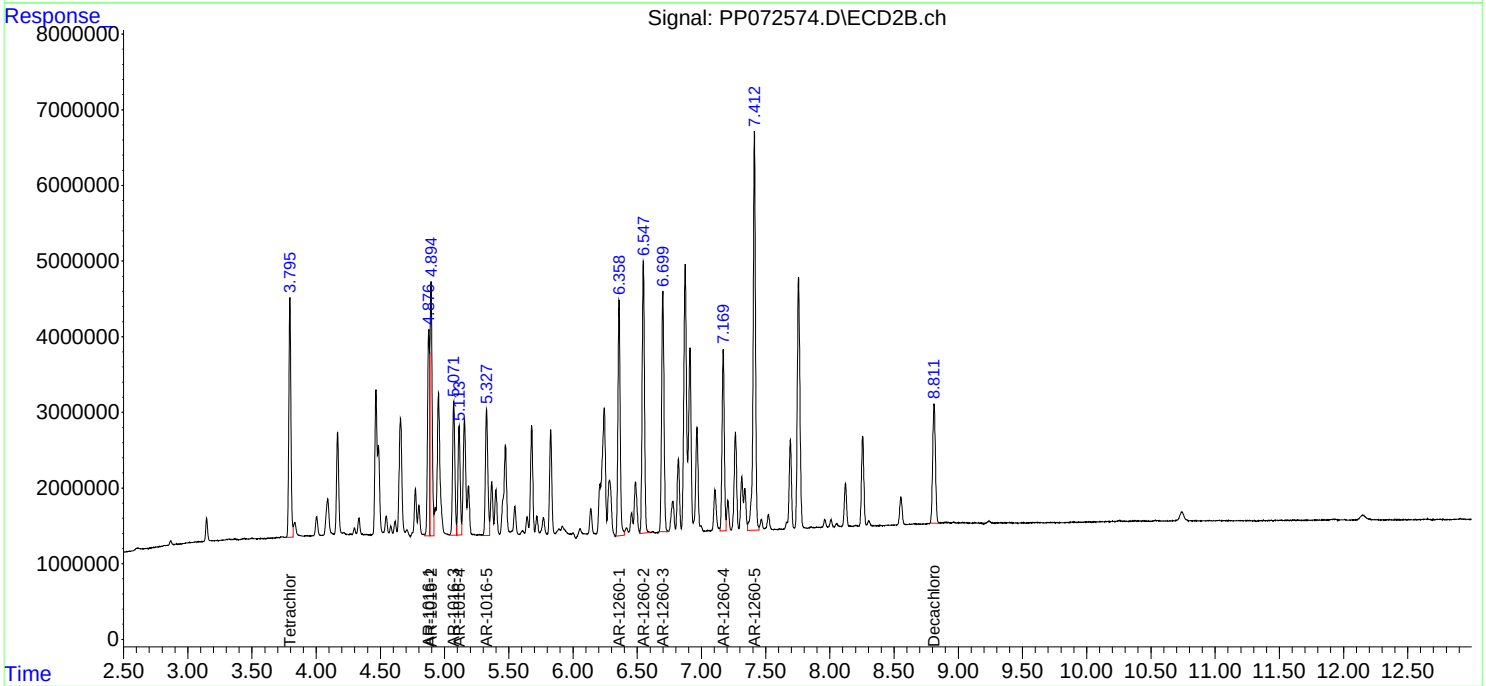
**Instrument :**
ECD_P
**ClientSampleId :**
TP-28MS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/04/2025
Supervised By :mohammad ahmed 06/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 01:35:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060325\
Data File : PP072575.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 19:10
Operator : YP\AJ
Sample : Q2176-05MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
ECD_P
**ClientSampleId :**
TP-28MSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 01:36:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 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... | 4.502 | 3.794 | 37735552 | 31385086 | 18.766 | 19.636 | |
| 2) | SA Decachlor... | 10.203 | 8.810 | 26215247 | 20442283 | 16.092 | 19.311 | |
| | Target Compounds | | | | | | | |
| 3) | L1 AR-1016-1 | 5.654 | 4.876 | 24724546 | 23536824 | 329.293 | 383.152 | |
| 4) | L1 AR-1016-2 | 5.676 | 4.894 | 37697059 | 33902035 | 352.336 | 386.175 | |
| 5) | L1 AR-1016-3 | 5.737 | 5.071 | 22925229 | 18698284 | 349.657 | 392.372 | |
| 6) | L1 AR-1016-4 | 5.835 | 5.113 | 19769235 | 14909186 | 371.114 | 391.880 | |
| 7) | L1 AR-1016-5 | 6.127 | 5.326 | 16817630 | 18849701 | 343.854 | 378.322 | |
| 31) | L7 AR-1260-1 | 7.245 | 6.359 | 33386865 | 33419493 | 356.717 | 419.034 | |
| 32) | L7 AR-1260-2 | 7.498 | 6.547 | 46848180 | 38518220 | 326.492 | 379.781 | |
| 33) | L7 AR-1260-3 | 7.857 | 6.699 | 32955315 | 34909171 | 289.410 | 401.706 | # |
| 34) | L7 AR-1260-4 | 8.081 | 7.169 | 34132244 | 25393700 | 318.093 | 352.245 | |
| 35) | L7 AR-1260-5 | 8.399 | 7.411 | 72265990 | 59000738 | 305.355 | 339.819 | |

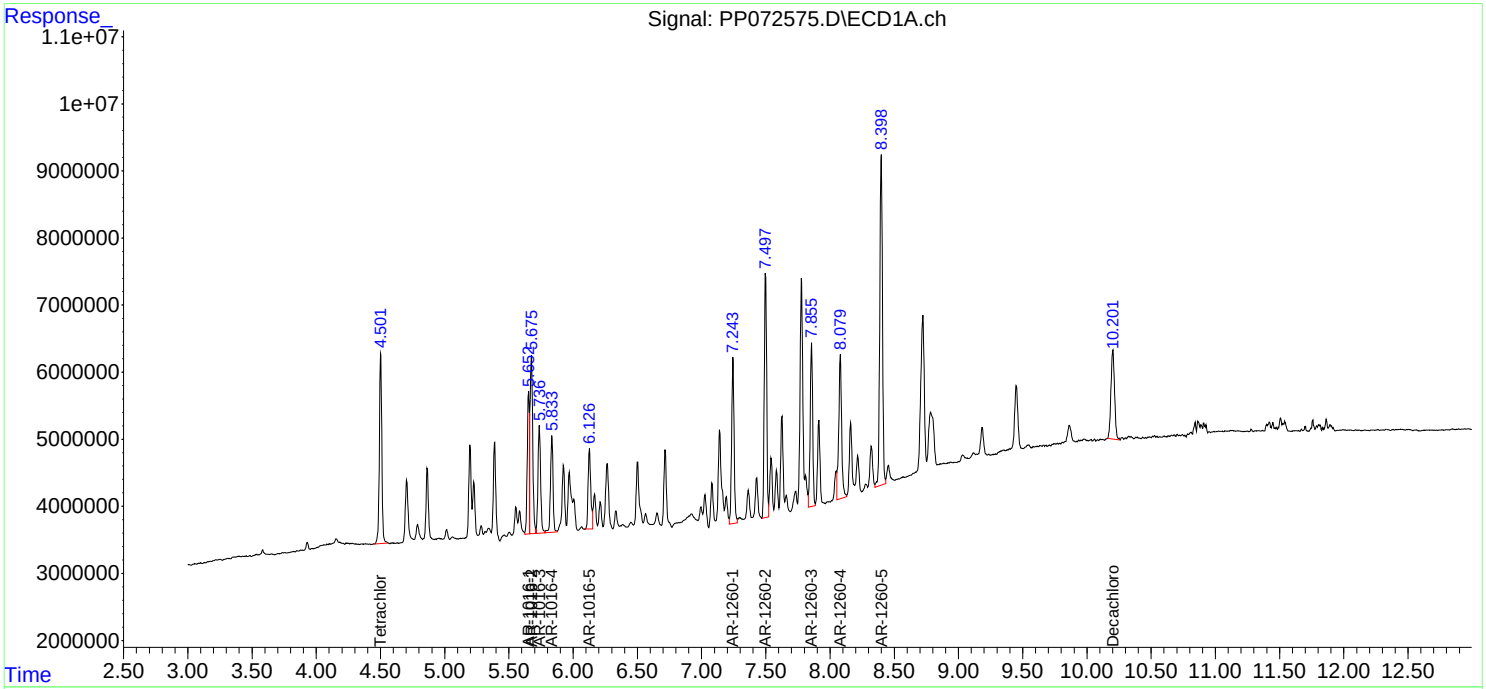
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

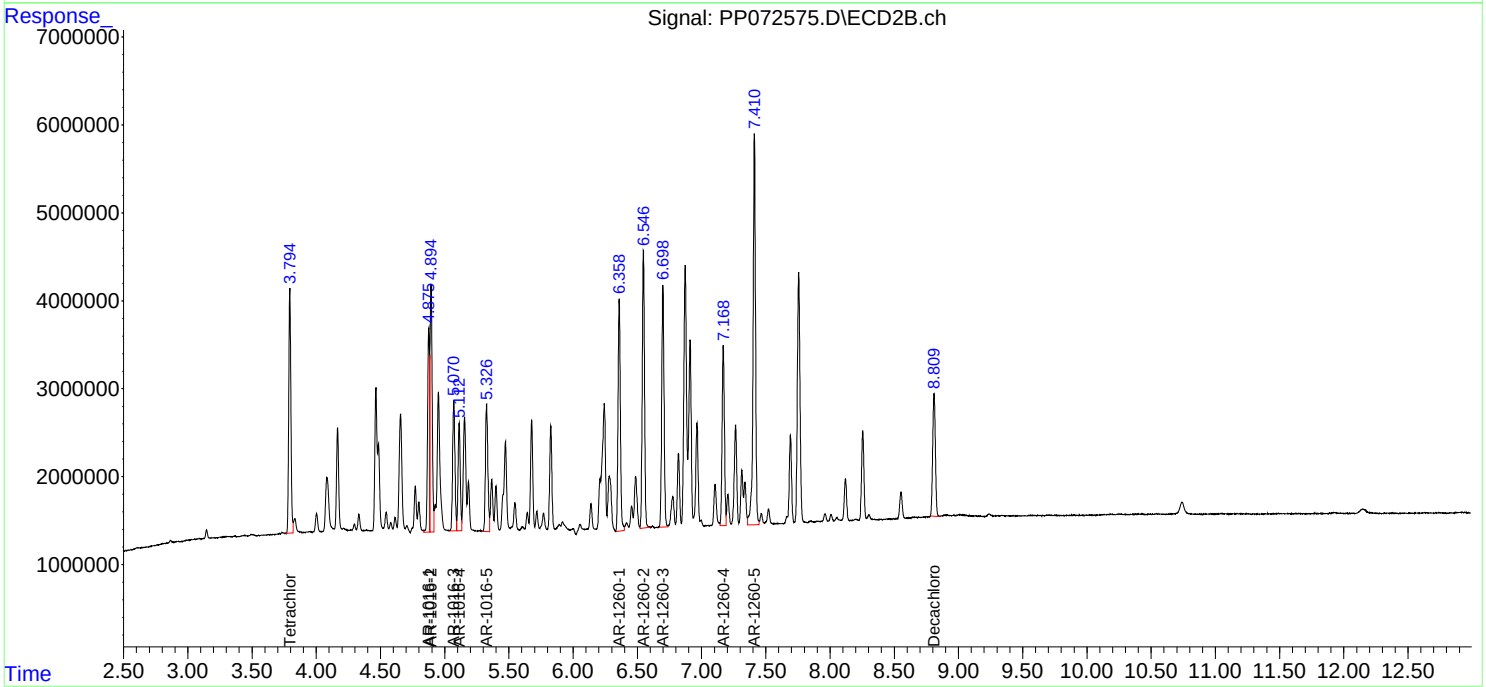
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060325\
Data File : PP072575.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jun 2025 19:10
Operator : YP\AJ
Sample : Q2176-05MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
ECD_P
**ClientSampleId :**
TP-28MSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 04 01:36:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 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: | PO051525 | Instrument | ECD_o |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1660ICC750 | PO111059.D | AR-1260-3 #2 | yogesh | 5/15/2025 7:37:11 AM | mohammad | 5/16/2025 1:55:32 | Peak Integrated by Software |
| AR1660ICC250 | PO111061.D | AR-1016-3 | yogesh | 5/15/2025 7:37:15 AM | mohammad | 5/16/2025 1:55:32 | Peak Integrated by Software |
| AR1660ICC050 | PO111062.D | AR-1260-1 | yogesh | 5/15/2025 7:37:17 AM | mohammad | 5/16/2025 1:55:32 | Peak Integrated by Software |
| AR1660ICC050 | PO111062.D | AR-1260-2 | yogesh | 5/15/2025 7:37:17 AM | mohammad | 5/16/2025 1:55:32 | Peak Integrated by Software |
| AR1660ICC050 | PO111062.D | AR-1260-3 #2 | yogesh | 5/15/2025 7:37:17 AM | mohammad | 5/16/2025 1:55:32 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PO060325 | Instrument | ECD_o |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1660CCC500 | PO111418.D | AR-1016-1 | yogesh | 6/4/2025 7:49:12 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111418.D | AR-1016-2 | yogesh | 6/4/2025 7:49:12 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111418.D | AR-1016-3 | yogesh | 6/4/2025 7:49:12 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111418.D | AR-1016-4 | yogesh | 6/4/2025 7:49:12 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111418.D | AR-1016-5 | yogesh | 6/4/2025 7:49:12 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111418.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:49:12 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111418.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:49:12 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1242CCC500 | PO111419.D | AR-1242-3 | yogesh | 6/4/2025 7:49:14 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1242CCC500 | PO111419.D | AR-1242-3 #2 | yogesh | 6/4/2025 7:49:14 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1242CCC500 | PO111419.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:49:14 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1242CCC500 | PO111419.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:49:14 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1248CCC500 | PO111420.D | AR-1248-3 | yogesh | 6/4/2025 7:49:16 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1248CCC500 | PO111420.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:49:16 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PO060325 | Instrument | ECD_o |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1254CCC500 | PO111421.D | AR-1254-1 | yogesh | 6/4/2025 7:49:18 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1254CCC500 | PO111421.D | AR-1254-2 | yogesh | 6/4/2025 7:49:18 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1254CCC500 | PO111421.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:49:18 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| I.BLK | PO111422.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:49:20 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| I.BLK | PO111422.D | Tetrachloro-m-xylene #2 | yogesh | 6/4/2025 7:49:20 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111433.D | AR-1016-1 | yogesh | 6/4/2025 7:49:42 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111433.D | AR-1016-2 | yogesh | 6/4/2025 7:49:42 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111433.D | AR-1016-3 | yogesh | 6/4/2025 7:49:42 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111433.D | AR-1016-5 | yogesh | 6/4/2025 7:49:42 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111433.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:49:42 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1242CCC500 | PO111434.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:49:43 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1248CCC500 | PO111435.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:49:45 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1254CCC500 | PO111436.D | AR-1254-1 | yogesh | 6/4/2025 7:49:47 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PO060325 | Instrument | ECD_o |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1254CCC500 | PO111436.D | AR-1254-2 | yogesh | 6/4/2025 7:49:47 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1254CCC500 | PO111436.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:49:47 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| I.BLK | PO111437.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:49:48 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111447.D | AR-1016-1 | yogesh | 6/4/2025 7:50:06 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111447.D | AR-1016-2 | yogesh | 6/4/2025 7:50:06 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111447.D | AR-1016-3 | yogesh | 6/4/2025 7:50:06 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111447.D | AR-1016-5 | yogesh | 6/4/2025 7:50:06 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111447.D | AR-1016-5 #2 | yogesh | 6/4/2025 7:50:06 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111447.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:50:06 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1660CCC500 | PO111447.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:50:06 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1242CCC500 | PO111448.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:50:07 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1242CCC500 | PO111448.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:50:07 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1248CCC500 | PO111449.D | AR-1248-3 | yogesh | 6/4/2025 7:50:11 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PO060325 | Instrument | ECD_o |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1248CCC500 | PO111449.D | AR-1248-4 #2 | yogesh | 6/4/2025 7:50:11 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1248CCC500 | PO111449.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:50:11 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1248CCC500 | PO111449.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:50:11 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1254CCC500 | PO111450.D | AR-1254-1 | yogesh | 6/4/2025 7:50:13 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1254CCC500 | PO111450.D | AR-1254-2 | yogesh | 6/4/2025 7:50:13 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1254CCC500 | PO111450.D | AR-1254-3 | yogesh | 6/4/2025 7:50:13 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1254CCC500 | PO111450.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:50:13 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| AR1254CCC500 | PO111450.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:50:13 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| I.BLK | PO111451.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:50:16 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |
| I.BLK | PO111451.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:50:16 AM | mohammad | 6/5/2025 1:34:44 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PP051925 | Instrument | ECD_p |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1660ICC050 | PP072168.D | AR-1016-1 | yogesh | 5/20/2025 7:28:08 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1660ICC050 | PP072168.D | AR-1016-2 | yogesh | 5/20/2025 7:28:08 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1660ICC050 | PP072168.D | AR-1016-3 | yogesh | 5/20/2025 7:28:08 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1660ICC050 | PP072168.D | AR-1016-4 | yogesh | 5/20/2025 7:28:08 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1232ICC050 | PP072174.D | AR-1232-3 | yogesh | 5/21/2025 8:50:30 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1232ICC050 | PP072174.D | AR-1232-4 | yogesh | 5/21/2025 8:50:30 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1242ICC050 | PP072179.D | AR-1242-1 | yogesh | 5/20/2025 7:28:10 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1242ICC050 | PP072179.D | AR-1242-2 | yogesh | 5/20/2025 7:28:10 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1242ICC050 | PP072179.D | AR-1242-3 | yogesh | 5/20/2025 7:28:10 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1242ICC050 | PP072179.D | AR-1242-4 | yogesh | 5/20/2025 7:28:10 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1242ICC050 | PP072179.D | AR-1242-5 | yogesh | 5/20/2025 7:28:10 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1242ICC050 | PP072179.D | AR-1242-5 #2 | yogesh | 5/20/2025 7:28:10 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1248ICC050 | PP072184.D | AR-1248-1 | yogesh | 5/20/2025 7:28:12 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PP051925 | Instrument | ECD_p |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1248ICC050 | PP072184.D | AR-1248-4 #2 | yogesh | 5/20/2025 7:28:12 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1254ICC050 | PP072189.D | AR-1254-1 | yogesh | 5/20/2025 7:28:14 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1254ICC050 | PP072189.D | AR-1254-4 | yogesh | 5/20/2025 7:28:14 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1254ICC050 | PP072189.D | AR-1254-4 #2 | yogesh | 5/20/2025 7:28:14 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1254ICC050 | PP072189.D | Tetrachloro-m-xylene | yogesh | 5/20/2025 7:28:14 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1254ICC050 | PP072189.D | Tetrachloro-m-xylene #2 | yogesh | 5/20/2025 7:28:14 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1268ICC050 | PP072195.D | AR-1268-1 | yogesh | 5/20/2025 7:28:15 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |
| AR1268ICC050 | PP072195.D | Tetrachloro-m-xylene | yogesh | 5/20/2025 7:28:15 AM | mohammad | 5/22/2025 6:37:35 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PP060325 | Instrument | ECD_p |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1660CCC500 | PP072553.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:42:40 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1660CCC500 | PP072553.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:42:40 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1242CCC500 | PP072554.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:42:42 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1242CCC500 | PP072554.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:42:42 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1248CCC500 | PP072555.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:42:43 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1248CCC500 | PP072555.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:42:43 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1254CCC500 | PP072556.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:42:48 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1254CCC500 | PP072556.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:42:48 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| I.BLK | PP072557.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:42:50 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| I.BLK | PP072557.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:42:50 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| PB168252BL | PP072558.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:42:53 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| PB168252BL | PP072558.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:42:53 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1660CCC500 | PP072568.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:43:07 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PP060325 | Instrument | ECD_p |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1660CCC500 | PP072568.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:43:07 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1242CCC500 | PP072569.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:43:09 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1248CCC500 | PP072570.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:43:11 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1248CCC500 | PP072570.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:43:11 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1254CCC500 | PP072571.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:43:12 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1254CCC500 | PP072571.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:43:12 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| I.BLK | PP072572.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:43:14 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| Q2176-05MS | PP072574.D | AR-1260-4 | yogesh | 6/4/2025 7:43:16 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| Q2177-02 | PP072579.D | Tetrachloro-m-xylene | yogesh | 6/4/2025 7:43:52 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| Q2177-04 | PP072580.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:43:54 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| Q2177-04 | PP072580.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:43:54 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| Q2177-06 | PP072581.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:43:57 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| Q2177-06 | PP072581.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:43:57 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PP060325 | Instrument | ECD_p |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q2177-06 | PP072581.D | Tetrachloro-m-xylene | yogesh | 6/4/2025 7:43:57 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1660CCC500 | PP072583.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:43:58 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1660CCC500 | PP072583.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:43:58 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1242CCC500 | PP072584.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:44:01 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1242CCC500 | PP072584.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:44:01 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1248CCC500 | PP072585.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:44:02 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1248CCC500 | PP072585.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:44:02 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1254CCC500 | PP072586.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:44:04 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1254CCC500 | PP072586.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:44:04 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| I.BLK | PP072587.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:44:06 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| I.BLK | PP072587.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:44:06 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| PB168257BL | PP072590.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:44:11 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| PB168257BL | PP072590.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:44:11 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PP060325 | Instrument | ECD_p |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1660CCC500 | PP072598.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:44:24 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1660CCC500 | PP072598.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:44:24 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1242CCC500 | PP072599.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:44:25 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1242CCC500 | PP072599.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:44:25 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1248CCC500 | PP072600.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:44:27 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1248CCC500 | PP072600.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:44:27 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1254CCC500 | PP072601.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:44:29 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| AR1254CCC500 | PP072601.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:44:29 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| I.BLK | PP072602.D | Decachlorobiphenyl | yogesh | 6/4/2025 7:44:31 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |
| I.BLK | PP072602.D | Decachlorobiphenyl #2 | yogesh | 6/4/2025 7:44:31 AM | mohammad | 6/5/2025 1:35:08 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PP060425 | Instrument | ECD_p |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1660CCC500 | PP072604.D | AR-1260-3 #2 | yogesh | 6/5/2025 7:31:30 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1660CCC500 | PP072604.D | Decachlorobiphenyl | yogesh | 6/5/2025 7:31:30 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1660CCC500 | PP072604.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:31:30 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1242CCC500 | PP072605.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:31:32 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1248CCC500 | PP072606.D | Decachlorobiphenyl | yogesh | 6/5/2025 7:31:33 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1248CCC500 | PP072606.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:31:33 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1254CCC500 | PP072607.D | Decachlorobiphenyl | yogesh | 6/5/2025 7:31:35 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1254CCC500 | PP072607.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:31:35 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| I.BLK | PP072608.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:31:37 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| PB168257BS | PP072609.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:33:17 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| PB168257BSD | PP072610.D | Decachlorobiphenyl | yogesh | 6/5/2025 7:33:19 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| PB168257BSD | PP072610.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:33:19 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| PB168252BS | PP072614.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:33:22 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PP060425 | Instrument | ECD_p |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1660CCC500 | PP072619.D | AR-1260-3 #2 | yogesh | 6/5/2025 7:33:36 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1660CCC500 | PP072619.D | Decachlorobiphenyl | yogesh | 6/5/2025 7:33:36 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1660CCC500 | PP072619.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:33:36 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1242CCC500 | PP072620.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:33:38 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1248CCC500 | PP072621.D | Decachlorobiphenyl | yogesh | 6/5/2025 7:33:41 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1248CCC500 | PP072621.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:33:41 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1254CCC500 | PP072622.D | Decachlorobiphenyl | yogesh | 6/5/2025 7:33:43 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1254CCC500 | PP072622.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:33:43 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1248CCC500 | PP072636.D | Decachlorobiphenyl | yogesh | 6/5/2025 7:34:03 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1248CCC500 | PP072636.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:34:03 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1254CCC500 | PP072637.D | Decachlorobiphenyl | yogesh | 6/5/2025 7:34:05 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1254CCC500 | PP072637.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:34:05 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| I.BLK | PP072638.D | Decachlorobiphenyl | yogesh | 6/5/2025 7:34:07 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PP060425 | Instrument | ECD_p |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| I.BLK | PP072638.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:34:07 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1660CCC500 | PP072641.D | AR-1260-3 #2 | yogesh | 6/5/2025 7:34:14 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1660CCC500 | PP072641.D | Decachlorobiphenyl | yogesh | 6/5/2025 7:34:14 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1660CCC500 | PP072641.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:34:14 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1242CCC500 | PP072642.D | Decachlorobiphenyl | yogesh | 6/5/2025 7:34:15 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1242CCC500 | PP072642.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:34:15 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1248CCC500 | PP072643.D | Decachlorobiphenyl | yogesh | 6/5/2025 7:34:17 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1248CCC500 | PP072643.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:34:17 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1254CCC500 | PP072644.D | Decachlorobiphenyl | yogesh | 6/5/2025 7:34:19 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| AR1254CCC500 | PP072644.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:34:19 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| I.BLK | PP072645.D | Decachlorobiphenyl | yogesh | 6/5/2025 7:34:21 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |
| I.BLK | PP072645.D | Decachlorobiphenyl #2 | yogesh | 6/5/2025 7:34:21 AM | mohammad | 6/6/2025 9:37:42 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PP060425 | Instrument | ECD_p |
|---|---|---|---|

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

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**Instrument ID: ECD_O**

## Daily Analysis Runlog For Sequence/QCBatch ID # PO051525

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 5/14/2025 3:39:03 PM | | |
| Supervise By | mohammad | Supervise On | 5/16/2025 1:55:32 AM | | |
| SubDirectory | PO051525 | HP Acquire Method | | HP Processing Method | PO051525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PO111056.D | 14 May 2025 16:43 | YP/AJ | Ok |
| 2 | I.BLK | PO111057.D | 14 May 2025 17:01 | YP/AJ | Ok |
| 3 | AR1660ICC1000 | PO111058.D | 14 May 2025 17:19 | YP/AJ | Ok |
| 4 | AR1660ICC750 | PO111059.D | 14 May 2025 17:38 | YP/AJ | Ok,M |
| 5 | AR1660ICC500 | PO111060.D | 14 May 2025 17:56 | YP/AJ | Ok |
| 6 | AR1660ICC250 | PO111061.D | 14 May 2025 18:15 | YP/AJ | Ok,M |
| 7 | AR1660ICC050 | PO111062.D | 14 May 2025 18:33 | YP/AJ | Ok,M |
| 8 | AR1221ICC500 | PO111063.D | 14 May 2025 18:51 | YP/AJ | Ok |
| 9 | AR1232ICC500 | PO111064.D | 14 May 2025 19:10 | YP/AJ | Ok |
| 10 | AR1242ICC1000 | PO111065.D | 14 May 2025 19:28 | YP/AJ | Ok |
| 11 | AR1242ICC750 | PO111066.D | 14 May 2025 19:46 | YP/AJ | Ok |
| 12 | AR1242ICC500 | PO111067.D | 14 May 2025 20:05 | YP/AJ | Ok |
| 13 | AR1242ICC250 | PO111068.D | 14 May 2025 20:23 | YP/AJ | Ok |
| 14 | AR1242ICC050 | PO111069.D | 14 May 2025 20:41 | YP/AJ | Ok |
| 15 | AR1248ICC1000 | PO111070.D | 14 May 2025 21:00 | YP/AJ | Ok |
| 16 | AR1248ICC750 | PO111071.D | 14 May 2025 21:18 | YP/AJ | Ok |
| 17 | AR1248ICC500 | PO111072.D | 14 May 2025 21:37 | YP/AJ | Ok |
| 18 | AR1248ICC250 | PO111073.D | 14 May 2025 21:54 | YP/AJ | Ok |
| 19 | AR1248ICC050 | PO111074.D | 14 May 2025 22:12 | YP/AJ | Ok |
| 20 | AR1254ICC1000 | PO111075.D | 14 May 2025 22:31 | YP/AJ | Ok |
| 21 | AR1254ICC750 | PO111076.D | 14 May 2025 22:49 | YP/AJ | Ok |

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**Instrument ID: ECD_O**

## Daily Analysis Runlog For Sequence/QCBatch ID # PO051525

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 5/14/2025 3:39:03 PM | | |
| Supervise By | mohammad | Supervise On | 5/16/2025 1:55:32 AM | | |
| SubDirectory | PO051525 | HP Acquire Method | | HP Processing Method | PO051525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | AR1254ICC500 | PO111077.D | 14 May 2025 23:06 | YP/AJ | Ok |
| 23 | AR1254ICC250 | PO111078.D | 14 May 2025 23:25 | YP/AJ | Ok |
| 24 | AR1254ICC050 | PO111079.D | 14 May 2025 23:43 | YP/AJ | Ok |
| 25 | AR1262ICC500 | PO111080.D | 15 May 2025 00:01 | YP/AJ | Ok |
| 26 | AR1268ICC1000 | PO111081.D | 15 May 2025 00:19 | YP/AJ | Ok |
| 27 | AR1268ICC750 | PO111082.D | 15 May 2025 00:37 | YP/AJ | Ok |
| 28 | AR1268ICC500 | PO111083.D | 15 May 2025 00:56 | YP/AJ | Ok |
| 29 | AR1268ICC250 | PO111084.D | 15 May 2025 01:14 | YP/AJ | Ok |
| 30 | AR1268ICC050 | PO111085.D | 15 May 2025 01:31 | YP/AJ | Ok |
| 31 | PO051525ICV500 | PO111086.D | 15 May 2025 01:50 | YP/AJ | Ok |
| 32 | AR1242ICV500 | PO111087.D | 15 May 2025 02:26 | YP/AJ | Ok |
| 33 | AR1248ICV500 | PO111088.D | 15 May 2025 03:03 | YP/AJ | Ok |
| 34 | AR1254ICV500 | PO111089.D | 15 May 2025 03:40 | YP/AJ | Ok |
| 35 | AR1268ICV500 | PO111090.D | 15 May 2025 04:17 | YP/AJ | Ok |

M : Manual Integration

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**Instrument ID: ECD_O**

## Daily Analysis Runlog For Sequence/QCBatch ID # PO060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/3/2025 10:20:11 AM | | |
| Supervise By | mohammad | Supervise On | 6/5/2025 1:34:44 AM | | |
| SubDirectory | PO060325 | HP Acquire Method | | HP Processing Method | PO051525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | PP24332,PP24347,PP24352,PP24357 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PO111417.D | 03 Jun 2025 08:55 | YP/AJ | Ok |
| 2 | AR1660CCC500 | PO111418.D | 03 Jun 2025 09:14 | YP/AJ | Ok,M |
| 3 | AR1242CCC500 | PO111419.D | 03 Jun 2025 09:32 | YP/AJ | Ok,M |
| 4 | AR1248CCC500 | PO111420.D | 03 Jun 2025 09:50 | YP/AJ | Ok,M |
| 5 | AR1254CCC500 | PO111421.D | 03 Jun 2025 10:09 | YP/AJ | Ok,M |
| 6 | I.BLK | PO111422.D | 03 Jun 2025 10:27 | YP/AJ | Ok,M |
| 7 | PB168228BL | PO111423.D | 03 Jun 2025 10:46 | YP/AJ | Not Ok |
| 8 | Q2166-01 | PO111424.D | 03 Jun 2025 11:04 | YP/AJ | Not Ok |
| 9 | PB168251BL | PO111425.D | 03 Jun 2025 13:20 | YP/AJ | Ok,M |
| 10 | PB168251BS | PO111426.D | 03 Jun 2025 13:39 | YP/AJ | Ok,M |
| 11 | Q2183-01 | PO111427.D | 03 Jun 2025 13:57 | YP/AJ | Ok,M |
| 12 | Q2183-02 | PO111428.D | 03 Jun 2025 14:15 | YP/AJ | Ok,M |
| 13 | Q2183-03 | PO111429.D | 03 Jun 2025 14:34 | YP/AJ | Ok,M |
| 14 | Q2183-04 | PO111430.D | 03 Jun 2025 14:52 | YP/AJ | Ok,M |
| 15 | Q2183-05 | PO111431.D | 03 Jun 2025 15:10 | YP/AJ | Ok,M |
| 16 | Q2183-06 | PO111432.D | 03 Jun 2025 15:29 | YP/AJ | Ok,M |
| 17 | AR1660CCC500 | PO111433.D | 03 Jun 2025 16:42 | YP/AJ | Ok,M |
| 18 | AR1242CCC500 | PO111434.D | 03 Jun 2025 17:19 | YP/AJ | Ok,M |
| 19 | AR1248CCC500 | PO111435.D | 03 Jun 2025 17:37 | YP/AJ | Ok,M |
| 20 | AR1254CCC500 | PO111436.D | 03 Jun 2025 17:56 | YP/AJ | Ok,M |
| 21 | I.BLK | PO111437.D | 03 Jun 2025 18:14 | YP/AJ | Ok,M |

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**Instrument ID: ECD_O**

## Daily Analysis Runlog For Sequence/QCBatch ID # PO060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/3/2025 10:20:11 AM | | |
| Supervise By | mohammad | Supervise On | 6/5/2025 1:34:44 AM | | |
| SubDirectory | PO060325 | HP Acquire Method | | HP Processing Method | PO051525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | PP24332,PP24347,PP24352,PP24357 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2183-07 | PO111438.D | 03 Jun 2025 18:32 | YP/AJ | Ok,M |
| 23 | Q2183-08 | PO111439.D | 03 Jun 2025 18:51 | YP/AJ | Ok,M |
| 24 | Q2184-01 | PO111440.D | 03 Jun 2025 19:09 | YP/AJ | Ok |
| 25 | Q2184-02 | PO111441.D | 03 Jun 2025 19:27 | YP/AJ | Ok,M |
| 26 | Q2184-03 | PO111442.D | 03 Jun 2025 19:46 | YP/AJ | Ok,M |
| 27 | Q2184-04 | PO111443.D | 03 Jun 2025 20:04 | YP/AJ | Ok,M |
| 28 | Q2175-06 | PO111444.D | 03 Jun 2025 20:22 | YP/AJ | ReRun |
| 29 | Q2177-08 | PO111445.D | 03 Jun 2025 20:41 | YP/AJ | Ok |
| 30 | Q2170-01 | PO111446.D | 03 Jun 2025 20:59 | YP/AJ | Ok,M |
| 31 | AR1660CCC500 | PO111447.D | 03 Jun 2025 22:13 | YP/AJ | Ok,M |
| 32 | AR1242CCC500 | PO111448.D | 03 Jun 2025 22:49 | YP/AJ | Ok,M |
| 33 | AR1248CCC500 | PO111449.D | 03 Jun 2025 23:08 | YP/AJ | Ok,M |
| 34 | AR1254CCC500 | PO111450.D | 03 Jun 2025 23:26 | YP/AJ | Ok,M |
| 35 | I.BLK | PO111451.D | 03 Jun 2025 23:44 | YP/AJ | Ok,M |

M : Manual Integration

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**Instrument ID: ECD_P**

## Daily Analysis Runlog For Sequence/QCBatch ID # PP051925

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 5/19/2025 12:22:08 PM | | |
| Supervise By | mohammad | Supervise On | 5/22/2025 6:37:35 AM | | |
| SubDirectory | PP051925 | HP Acquire Method | | HP Processing Method | PP051925 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PP072162.D | 19 May 2025 09:09 | YP\AJ | Ok |
| 2 | I.BLK | PP072163.D | 19 May 2025 09:26 | YP\AJ | Ok |
| 3 | AR1660ICC1000 | PP072164.D | 19 May 2025 09:42 | YP\AJ | Ok |
| 4 | AR1660ICC750 | PP072165.D | 19 May 2025 09:59 | YP\AJ | Ok |
| 5 | AR1660ICC500 | PP072166.D | 19 May 2025 10:15 | YP\AJ | Ok |
| 6 | AR1660ICC250 | PP072167.D | 19 May 2025 10:32 | YP\AJ | Ok |
| 7 | AR1660ICC050 | PP072168.D | 19 May 2025 10:48 | YP\AJ | Ok,M |
| 8 | AR1221ICC500 | PP072169.D | 19 May 2025 11:05 | YP\AJ | Ok |
| 9 | AR1232ICC1000 | PP072170.D | 19 May 2025 11:21 | YP\AJ | Ok |
| 10 | AR1232ICC750 | PP072171.D | 19 May 2025 11:38 | YP\AJ | Ok |
| 11 | AR1232ICC500 | PP072172.D | 19 May 2025 11:54 | YP\AJ | Ok |
| 12 | AR1232ICC250 | PP072173.D | 19 May 2025 12:10 | YP\AJ | Ok |
| 13 | AR1232ICC050 | PP072174.D | 19 May 2025 12:27 | YP\AJ | Ok,M |
| 14 | AR1242ICC1000 | PP072175.D | 19 May 2025 12:43 | YP\AJ | Ok |
| 15 | AR1242ICC750 | PP072176.D | 19 May 2025 12:59 | YP\AJ | Ok |
| 16 | AR1242ICC500 | PP072177.D | 19 May 2025 13:15 | YP\AJ | Ok |
| 17 | AR1242ICC250 | PP072178.D | 19 May 2025 13:32 | YP\AJ | Ok |
| 18 | AR1242ICC050 | PP072179.D | 19 May 2025 13:48 | YP\AJ | Ok,M |
| 19 | AR1248ICC1000 | PP072180.D | 19 May 2025 14:04 | YP\AJ | Ok |
| 20 | AR1248ICC750 | PP072181.D | 19 May 2025 14:20 | YP\AJ | Ok |
| 21 | AR1248ICC500 | PP072182.D | 19 May 2025 14:37 | YP\AJ | Ok |

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**Instrument ID: ECD_P**

## Daily Analysis Runlog For Sequence/QCBatch ID # PP051925

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 5/19/2025 12:22:08 PM | | |
| Supervise By | mohammad | Supervise On | 5/22/2025 6:37:35 AM | | |
| SubDirectory | PP051925 | HP Acquire Method | | HP Processing Method | PP051925 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | AR1248ICC250 | PP072183.D | 19 May 2025 14:53 | YP\AJ | Ok |
| 23 | AR1248ICC050 | PP072184.D | 19 May 2025 15:25 | YP\AJ | Ok,M |
| 24 | AR1254ICC1000 | PP072185.D | 19 May 2025 15:42 | YP\AJ | Ok |
| 25 | AR1254ICC750 | PP072186.D | 19 May 2025 15:58 | YP\AJ | Ok |
| 26 | AR1254ICC500 | PP072187.D | 19 May 2025 16:14 | YP\AJ | Ok |
| 27 | AR1254ICC250 | PP072188.D | 19 May 2025 16:31 | YP\AJ | Ok |
| 28 | AR1254ICC050 | PP072189.D | 19 May 2025 16:47 | YP\AJ | Ok,M |
| 29 | AR1262ICC500 | PP072190.D | 19 May 2025 17:03 | YP\AJ | Ok |
| 30 | AR1268ICC1000 | PP072191.D | 19 May 2025 17:20 | YP\AJ | Ok |
| 31 | AR1268ICC750 | PP072192.D | 19 May 2025 17:36 | YP\AJ | Ok |
| 32 | AR1268ICC500 | PP072193.D | 19 May 2025 17:53 | YP\AJ | Ok |
| 33 | AR1268ICC250 | PP072194.D | 19 May 2025 18:09 | YP\AJ | Ok |
| 34 | AR1268ICC050 | PP072195.D | 19 May 2025 18:25 | YP\AJ | Ok,M |
| 35 | PP051925ICV500 | PP072196.D | 19 May 2025 18:42 | YP\AJ | Ok |
| 36 | AR1232ICV500 | PP072197.D | 19 May 2025 19:14 | YP\AJ | Ok |
| 37 | AR1242ICV500 | PP072198.D | 19 May 2025 19:47 | YP\AJ | Ok |
| 38 | AR1248ICV500 | PP072199.D | 19 May 2025 20:19 | YP\AJ | Ok |
| 39 | AR1254ICV500 | PP072200.D | 19 May 2025 20:52 | YP\AJ | Ok |
| 40 | AR1268ICV500 | PP072201.D | 19 May 2025 21:25 | YP\AJ | Ok |

M : Manual Integration

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**Instrument ID: ECD_P**

## Daily Analysis Runlog For Sequence/QCBatch ID # PP060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/3/2025 11:21:30 AM | | |
| Supervise By | mohammad | Supervise On | 6/5/2025 1:35:08 AM | | |
| SubDirectory | PP060325 | HP Acquire Method | | HP Processing Method | PP051925 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | PP24332,PP24347,PP24352,PP24357 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PP072552.D | 03 Jun 2025 10:06 | YP\AJ | Ok |
| 2 | AR1660CCC500 | PP072553.D | 03 Jun 2025 10:22 | YP\AJ | Ok,M |
| 3 | AR1242CCC500 | PP072554.D | 03 Jun 2025 10:39 | YP\AJ | Ok,M |
| 4 | AR1248CCC500 | PP072555.D | 03 Jun 2025 10:55 | YP\AJ | Ok,M |
| 5 | AR1254CCC500 | PP072556.D | 03 Jun 2025 11:11 | YP\AJ | Ok,M |
| 6 | I.BLK | PP072557.D | 03 Jun 2025 11:27 | YP\AJ | Ok,M |
| 7 | PB168252BL | PP072558.D | 03 Jun 2025 13:28 | YP\AJ | Ok,M |
| 8 | PB168252BS | PP072559.D | 03 Jun 2025 13:44 | YP\AJ | Not Ok |
| 9 | Q2168-01 | PP072560.D | 03 Jun 2025 14:00 | YP\AJ | Dilution |
| 10 | Q2168-05 | PP072561.D | 03 Jun 2025 14:16 | YP\AJ | Dilution |
| 11 | Q2168-09 | PP072562.D | 03 Jun 2025 14:33 | YP\AJ | Dilution |
| 12 | Q2175-01 | PP072563.D | 03 Jun 2025 14:49 | YP\AJ | Not Ok |
| 13 | Q2176-01 | PP072564.D | 03 Jun 2025 15:05 | YP\AJ | Not Ok |
| 14 | Q2176-02 | PP072565.D | 03 Jun 2025 15:22 | YP\AJ | Not Ok |
| 15 | Q2176-03 | PP072566.D | 03 Jun 2025 15:38 | YP\AJ | Not Ok |
| 16 | Q2176-04 | PP072567.D | 03 Jun 2025 15:54 | YP\AJ | Ok,M |
| 17 | AR1660CCC500 | PP072568.D | 03 Jun 2025 16:59 | YP\AJ | Ok,M |
| 18 | AR1242CCC500 | PP072569.D | 03 Jun 2025 17:32 | YP\AJ | Ok,M |
| 19 | AR1248CCC500 | PP072570.D | 03 Jun 2025 17:48 | YP\AJ | Ok,M |
| 20 | AR1254CCC500 | PP072571.D | 03 Jun 2025 18:05 | YP\AJ | Ok,M |
| 21 | I.BLK | PP072572.D | 03 Jun 2025 18:21 | YP\AJ | Ok,M |

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**Instrument ID: ECD_P**

## Daily Analysis Runlog For Sequence/QCBatch ID # PP060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/3/2025 11:21:30 AM | | |
| Supervise By | mohammad | Supervise On | 6/5/2025 1:35:08 AM | | |
| SubDirectory | PP060325 | HP Acquire Method | | HP Processing Method | PP051925 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | PP24332,PP24347,PP24352,PP24357 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2176-05 | PP072573.D | 03 Jun 2025 18:37 | YP\AJ | Ok |
| 23 | Q2176-05MS | PP072574.D | 03 Jun 2025 18:53 | YP\AJ | Ok,M |
| 24 | Q2176-05MSD | PP072575.D | 03 Jun 2025 19:10 | YP\AJ | Ok |
| 25 | Q2176-06 | PP072576.D | 03 Jun 2025 19:26 | YP\AJ | Ok,M |
| 26 | Q2176-07 | PP072577.D | 03 Jun 2025 19:42 | YP\AJ | Ok |
| 27 | Q2176-08 | PP072578.D | 03 Jun 2025 19:59 | YP\AJ | Ok |
| 28 | Q2177-02 | PP072579.D | 03 Jun 2025 20:15 | YP\AJ | Ok,M |
| 29 | Q2177-04 | PP072580.D | 03 Jun 2025 20:31 | YP\AJ | Ok,M |
| 30 | Q2177-06 | PP072581.D | 03 Jun 2025 20:48 | YP\AJ | Ok,M |
| 31 | Q2178-01 | PP072582.D | 03 Jun 2025 21:04 | YP\AJ | Ok,M |
| 32 | AR1660CCC500 | PP072583.D | 03 Jun 2025 22:25 | YP\AJ | Ok,M |
| 33 | AR1242CCC500 | PP072584.D | 03 Jun 2025 22:58 | YP\AJ | Ok,M |
| 34 | AR1248CCC500 | PP072585.D | 03 Jun 2025 23:14 | YP\AJ | Ok,M |
| 35 | AR1254CCC500 | PP072586.D | 03 Jun 2025 23:30 | YP\AJ | Ok,M |
| 36 | I.BLK | PP072587.D | 03 Jun 2025 23:47 | YP\AJ | Ok,M |
| 37 | Q2185-01 | PP072588.D | 04 Jun 2025 00:03 | YP\AJ | Ok,M |
| 38 | Q2185-05 | PP072589.D | 04 Jun 2025 00:19 | YP\AJ | Ok,M |
| 39 | PB168257BL | PP072590.D | 04 Jun 2025 00:35 | YP\AJ | Ok,M |
| 40 | PB168257BS | PP072591.D | 04 Jun 2025 00:52 | YP\AJ | Not Ok |
| 41 | PB168257BSD | PP072592.D | 04 Jun 2025 01:08 | YP\AJ | Not Ok |
| 42 | Q2165-03 | PP072593.D | 04 Jun 2025 01:24 | YP\AJ | Ok,M |
| 43 | Q2165-06 | PP072594.D | 04 Jun 2025 01:40 | YP\AJ | Ok,M |
| 44 | Q2169-01 | PP072595.D | 04 Jun 2025 01:57 | YP\AJ | Ok,M |

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**Instrument ID: ECD_P**

## Daily Analysis Runlog For Sequence/QCBatch ID # PP060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/3/2025 11:21:30 AM | | |
| Supervise By | mohammad | Supervise On | 6/5/2025 1:35:08 AM | | |
| SubDirectory | PP060325 | HP Acquire Method | | HP Processing Method | PP051925 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | PP24332,PP24347,PP24352,PP24357 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 45 | Q2169-03 | PP072596.D | 04 Jun 2025 02:13 | YP\AJ | Ok,M |
| 46 | Q2175-04 | PP072597.D | 04 Jun 2025 02:29 | YP\AJ | Ok,M |
| 47 | AR1660CCC500 | PP072598.D | 04 Jun 2025 03:51 | YP\AJ | Ok,M |
| 48 | AR1242CCC500 | PP072599.D | 04 Jun 2025 04:23 | YP\AJ | Ok,M |
| 49 | AR1248CCC500 | PP072600.D | 04 Jun 2025 04:40 | YP\AJ | Ok,M |
| 50 | AR1254CCC500 | PP072601.D | 04 Jun 2025 04:56 | YP\AJ | Ok,M |
| 51 | I.BLK | PP072602.D | 04 Jun 2025 05:12 | YP\AJ | Ok,M |

M : Manual Integration

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**Instrument ID: ECD_P**

## Daily Analysis Runlog For Sequence/QCBatch ID # PP060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/4/2025 10:14:35 AM | | |
| Supervise By | mohammad | Supervise On | 6/6/2025 9:37:42 AM | | |
| SubDirectory | PP060425 | HP Acquire Method | | HP Processing Method | PP051925 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | PP24332,PP24347,PP24352,PP24357 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PP072603.D | 04 Jun 2025 08:34 | YP\AJ | Ok |
| 2 | AR1660CCC500 | PP072604.D | 04 Jun 2025 08:50 | YP\AJ | Ok,M |
| 3 | AR1242CCC500 | PP072605.D | 04 Jun 2025 09:11 | YP\AJ | Ok,M |
| 4 | AR1248CCC500 | PP072606.D | 04 Jun 2025 09:27 | YP\AJ | Ok,M |
| 5 | AR1254CCC500 | PP072607.D | 04 Jun 2025 09:43 | YP\AJ | Ok,M |
| 6 | I.BLK | PP072608.D | 04 Jun 2025 10:00 | YP\AJ | Ok,M |
| 7 | PB168257BS | PP072609.D | 04 Jun 2025 10:16 | YP\AJ | Ok,M |
| 8 | PB168257BSD | PP072610.D | 04 Jun 2025 10:32 | YP\AJ | Ok,M |
| 9 | Q2168-01DL | PP072611.D | 04 Jun 2025 10:48 | YP\AJ | Ok |
| 10 | Q2168-05DL | PP072612.D | 04 Jun 2025 11:04 | YP\AJ | Ok |
| 11 | Q2168-09DL | PP072613.D | 04 Jun 2025 11:21 | YP\AJ | Ok |
| 12 | PB168252BS | PP072614.D | 04 Jun 2025 11:37 | YP\AJ | Ok,M |
| 13 | PB168275BL | PP072615.D | 04 Jun 2025 12:55 | YP\AJ | Ok |
| 14 | PB168275BS | PP072616.D | 04 Jun 2025 13:12 | YP\AJ | Not Ok |
| 15 | Q2167-01 | PP072617.D | 04 Jun 2025 13:28 | YP\AJ | ReRun |
| 16 | Q2171-01 | PP072618.D | 04 Jun 2025 13:45 | YP\AJ | Dilution |
| 17 | AR1660CCC500 | PP072619.D | 04 Jun 2025 14:51 | YP\AJ | Ok,M |
| 18 | AR1242CCC500 | PP072620.D | 04 Jun 2025 15:07 | YP\AJ | Ok,M |
| 19 | AR1248CCC500 | PP072621.D | 04 Jun 2025 15:23 | YP\AJ | Ok,M |
| 20 | AR1254CCC500 | PP072622.D | 04 Jun 2025 15:40 | YP\AJ | Ok,M |
| 21 | I.BLK | PP072623.D | 04 Jun 2025 15:56 | YP\AJ | Ok |

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**Instrument ID: ECD_P**

## Daily Analysis Runlog For Sequence/QCBatch ID # PP060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/4/2025 10:14:35 AM | | |
| Supervise By | mohammad | Supervise On | 6/6/2025 9:37:42 AM | | |
| SubDirectory | PP060425 | HP Acquire Method | | HP Processing Method | PP051925 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | PP24332,PP24347,PP24352,PP24357 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | PB168288BL | PP072624.D | 04 Jun 2025 16:13 | YP\AJ | Ok,M |
| 23 | PB168288BS | PP072625.D | 04 Jun 2025 16:29 | YP\AJ | Not Ok |
| 24 | Q2182-01 | PP072626.D | 04 Jun 2025 16:45 | YP\AJ | Ok,M |
| 25 | Q2192-01 | PP072627.D | 04 Jun 2025 17:02 | YP\AJ | Dilution |
| 26 | Q2194-01 | PP072628.D | 04 Jun 2025 17:18 | YP\AJ | Ok |
| 27 | Q2194-03 | PP072629.D | 04 Jun 2025 17:34 | YP\AJ | Ok |
| 28 | Q2195-01 | PP072630.D | 04 Jun 2025 17:51 | YP\AJ | Ok,M |
| 29 | Q2195-01MS | PP072631.D | 04 Jun 2025 18:07 | YP\AJ | Ok,M |
| 30 | Q2195-01MSD | PP072632.D | 04 Jun 2025 18:23 | YP\AJ | Ok,M |
| 31 | Q2198-01 | PP072633.D | 04 Jun 2025 18:40 | YP\AJ | Ok,M |
| 32 | AR1660CCC500 | PP072634.D | 04 Jun 2025 20:01 | YP\AJ | Ok |
| 33 | AR1242CCC500 | PP072635.D | 04 Jun 2025 20:18 | YP\AJ | Ok |
| 34 | AR1248CCC500 | PP072636.D | 04 Jun 2025 20:34 | YP\AJ | Ok,M |
| 35 | AR1254CCC500 | PP072637.D | 04 Jun 2025 20:50 | YP\AJ | Ok,M |
| 36 | I.BLK | PP072638.D | 04 Jun 2025 21:07 | YP\AJ | Ok,M |
| 37 | Q2175-09 | PP072639.D | 04 Jun 2025 21:23 | YP\AJ | ReRun |
| 38 | Q2171-01DL | PP072640.D | 04 Jun 2025 21:39 | YP\AJ | Ok,M |
| 39 | AR1660CCC500 | PP072641.D | 04 Jun 2025 22:45 | YP\AJ | Ok,M |
| 40 | AR1242CCC500 | PP072642.D | 04 Jun 2025 23:17 | YP\AJ | Ok,M |
| 41 | AR1248CCC500 | PP072643.D | 04 Jun 2025 23:34 | YP\AJ | Ok,M |
| 42 | AR1254CCC500 | PP072644.D | 04 Jun 2025 23:50 | YP\AJ | Ok,M |
| 43 | I.BLK | PP072645.D | 05 Jun 2025 00:06 | YP\AJ | Ok,M |

M : Manual Integration

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**Instrument ID:** ECD_O

## Daily Analysis Runlog For Sequence/QCBatch ID # PO051525

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 5/14/2025 3:39:03 PM | | |
| Supervise By | mohammad | Supervise On | 5/16/2025 1:55:32 AM | | |
| SubDirectory | PO051525 | HP Acquire Method | | HP Processing Method | PO051525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PO111056.D | 14 May 2025 16:43 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | PO111057.D | 14 May 2025 17:01 | | YP/AJ | Ok |
| 3 | AR1660ICC1000 | AR1660ICC1000 | PO111058.D | 14 May 2025 17:19 | | YP/AJ | Ok |
| 4 | AR1660ICC750 | AR1660ICC750 | PO111059.D | 14 May 2025 17:38 | | YP/AJ | Ok,M |
| 5 | AR1660ICC500 | AR1660ICC500 | PO111060.D | 14 May 2025 17:56 | | YP/AJ | Ok |
| 6 | AR1660ICC250 | AR1660ICC250 | PO111061.D | 14 May 2025 18:15 | | YP/AJ | Ok,M |
| 7 | AR1660ICC050 | AR1660ICC050 | PO111062.D | 14 May 2025 18:33 | | YP/AJ | Ok,M |
| 8 | AR1221ICC500 | AR1221ICC500 | PO111063.D | 14 May 2025 18:51 | | YP/AJ | Ok |
| 9 | AR1232ICC500 | AR1232ICC500 | PO111064.D | 14 May 2025 19:10 | | YP/AJ | Ok |
| 10 | AR1242ICC1000 | AR1242ICC1000 | PO111065.D | 14 May 2025 19:28 | | YP/AJ | Ok |
| 11 | AR1242ICC750 | AR1242ICC750 | PO111066.D | 14 May 2025 19:46 | | YP/AJ | Ok |
| 12 | AR1242ICC500 | AR1242ICC500 | PO111067.D | 14 May 2025 20:05 | | YP/AJ | Ok |
| 13 | AR1242ICC250 | AR1242ICC250 | PO111068.D | 14 May 2025 20:23 | | YP/AJ | Ok |
| 14 | AR1242ICC050 | AR1242ICC050 | PO111069.D | 14 May 2025 20:41 | | YP/AJ | Ok |
| 15 | AR1248ICC1000 | AR1248ICC1000 | PO111070.D | 14 May 2025 21:00 | | YP/AJ | Ok |
| 16 | AR1248ICC750 | AR1248ICC750 | PO111071.D | 14 May 2025 21:18 | | YP/AJ | Ok |
| 17 | AR1248ICC500 | AR1248ICC500 | PO111072.D | 14 May 2025 21:37 | | YP/AJ | Ok |
| 18 | AR1248ICC250 | AR1248ICC250 | PO111073.D | 14 May 2025 21:54 | | YP/AJ | Ok |

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**Instrument ID:** ECD_O

## Daily Analysis Runlog For Sequence/QCBatch ID # PO051525

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 5/14/2025 3:39:03 PM | | |
| Supervise By | mohammad | Supervise On | 5/16/2025 1:55:32 AM | | |
| SubDirectory | PO051525 | HP Acquire Method | | HP Processing Method | PO051525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | AR1248ICC050 | AR1248ICC050 | PO111074.D | 14 May 2025 22:12 | | YP/AJ | Ok |
| 20 | AR1254ICC1000 | AR1254ICC1000 | PO111075.D | 14 May 2025 22:31 | | YP/AJ | Ok |
| 21 | AR1254ICC750 | AR1254ICC750 | PO111076.D | 14 May 2025 22:49 | | YP/AJ | Ok |
| 22 | AR1254ICC500 | AR1254ICC500 | PO111077.D | 14 May 2025 23:06 | | YP/AJ | Ok |
| 23 | AR1254ICC250 | AR1254ICC250 | PO111078.D | 14 May 2025 23:25 | | YP/AJ | Ok |
| 24 | AR1254ICC050 | AR1254ICC050 | PO111079.D | 14 May 2025 23:43 | | YP/AJ | Ok |
| 25 | AR1262ICC500 | AR1262ICC500 | PO111080.D | 15 May 2025 00:01 | | YP/AJ | Ok |
| 26 | AR1268ICC1000 | AR1268ICC1000 | PO111081.D | 15 May 2025 00:19 | | YP/AJ | Ok |
| 27 | AR1268ICC750 | AR1268ICC750 | PO111082.D | 15 May 2025 00:37 | | YP/AJ | Ok |
| 28 | AR1268ICC500 | AR1268ICC500 | PO111083.D | 15 May 2025 00:56 | | YP/AJ | Ok |
| 29 | AR1268ICC250 | AR1268ICC250 | PO111084.D | 15 May 2025 01:14 | | YP/AJ | Ok |
| 30 | AR1268ICC050 | AR1268ICC050 | PO111085.D | 15 May 2025 01:31 | | YP/AJ | Ok |
| 31 | PO051525ICV500 | ICVPO051525 | PO111086.D | 15 May 2025 01:50 | | YP/AJ | Ok |
| 32 | AR1242ICV500 | ICVPO051525AR1242 | PO111087.D | 15 May 2025 02:26 | | YP/AJ | Ok |
| 33 | AR1248ICV500 | ICVPO051525AR1248 | PO111088.D | 15 May 2025 03:03 | | YP/AJ | Ok |
| 34 | AR1254ICV500 | ICVPO051525AR1254 | PO111089.D | 15 May 2025 03:40 | | YP/AJ | Ok |
| 35 | AR1268ICV500 | ICVPO051525AR1268 | PO111090.D | 15 May 2025 04:17 | | YP/AJ | Ok |

M : Manual Integration

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**Instrument ID:** ECD_O

## Daily Analysis Runlog For Sequence/QCBatch ID # PO060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/3/2025 10:20:11 AM | | |
| Supervise By | mohammad | Supervise On | 6/5/2025 1:34:44 AM | | |
| SubDirectory | PO060325 | HP Acquire Method | | HP Processing Method | PO051525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | PP24332,PP24347,PP24352,PP24357 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PO111417.D | 03 Jun 2025 08:55 | | YP/AJ | Ok |
| 2 | AR1660CCC500 | AR1660CCC500 | PO111418.D | 03 Jun 2025 09:14 | | YP/AJ | Ok,M |
| 3 | AR1242CCC500 | AR1242CCC500 | PO111419.D | 03 Jun 2025 09:32 | | YP/AJ | Ok,M |
| 4 | AR1248CCC500 | AR1248CCC500 | PO111420.D | 03 Jun 2025 09:50 | | YP/AJ | Ok,M |
| 5 | AR1254CCC500 | AR1254CCC500 | PO111421.D | 03 Jun 2025 10:09 | | YP/AJ | Ok,M |
| 6 | I.BLK | I.BLK | PO111422.D | 03 Jun 2025 10:27 | | YP/AJ | Ok,M |
| 7 | PB168228BL | PB168228BL | PO111423.D | 03 Jun 2025 10:46 | Already run | YP/AJ | Not Ok |
| 8 | Q2166-01 | 1 | PO111424.D | 03 Jun 2025 11:04 | Already run | YP/AJ | Not Ok |
| 9 | PB168251BL | PB168251BL | PO111425.D | 03 Jun 2025 13:20 | | YP/AJ | Ok,M |
| 10 | PB168251BS | PB168251BS | PO111426.D | 03 Jun 2025 13:39 | | YP/AJ | Ok,M |
| 11 | Q2183-01 | BC205321-3-1 | PO111427.D | 03 Jun 2025 13:57 | AR1254 Hit | YP/AJ | Ok,M |
| 12 | Q2183-02 | BC205321-3-2 | PO111428.D | 03 Jun 2025 14:15 | AR1254 Hit | YP/AJ | Ok,M |
| 13 | Q2183-03 | BC205321-4-1 | PO111429.D | 03 Jun 2025 14:34 | | YP/AJ | Ok,M |
| 14 | Q2183-04 | BC205321-4-2 | PO111430.D | 03 Jun 2025 14:52 | | YP/AJ | Ok,M |
| 15 | Q2183-05 | BC205321-5-1 | PO111431.D | 03 Jun 2025 15:10 | | YP/AJ | Ok,M |
| 16 | Q2183-06 | BC205321-5-2 | PO111432.D | 03 Jun 2025 15:29 | | YP/AJ | Ok,M |
| 17 | AR1660CCC500 | AR1660CCC500 | PO111433.D | 03 Jun 2025 16:42 | | YP/AJ | Ok,M |
| 18 | AR1242CCC500 | AR1242CCC500 | PO111434.D | 03 Jun 2025 17:19 | | YP/AJ | Ok,M |

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**Instrument ID:** ECD_O

## Daily Analysis Runlog For Sequence/QCBatch ID # PO060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/3/2025 10:20:11 AM | | |
| Supervise By | mohammad | Supervise On | 6/5/2025 1:34:44 AM | | |
| SubDirectory | PO060325 | HP Acquire Method | | HP Processing Method | PO051525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | PP24332,PP24347,PP24352,PP24357 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | AR1248CCC500 | AR1248CCC500 | PO111435.D | 03 Jun 2025 17:37 | | YP/AJ | Ok,M |
| 20 | AR1254CCC500 | AR1254CCC500 | PO111436.D | 03 Jun 2025 17:56 | | YP/AJ | Ok,M |
| 21 | I.BLK | I.BLK | PO111437.D | 03 Jun 2025 18:14 | | YP/AJ | Ok,M |
| 22 | Q2183-07 | BC205321-6-1 | PO111438.D | 03 Jun 2025 18:32 | | YP/AJ | Ok,M |
| 23 | Q2183-08 | BC205321-6-2 | PO111439.D | 03 Jun 2025 18:51 | | YP/AJ | Ok,M |
| 24 | Q2184-01 | 245F54-1-1 | PO111440.D | 03 Jun 2025 19:09 | | YP/AJ | Ok |
| 25 | Q2184-02 | 245F54-1-2 | PO111441.D | 03 Jun 2025 19:27 | | YP/AJ | Ok,M |
| 26 | Q2184-03 | BC226595-1-1 | PO111442.D | 03 Jun 2025 19:46 | | YP/AJ | Ok,M |
| 27 | Q2184-04 | BC226595-1-2 | PO111443.D | 03 Jun 2025 20:04 | | YP/AJ | Ok,M |
| 28 | Q2175-06 | EGR-LIQUID | PO111444.D | 03 Jun 2025 20:22 | All surrogate low | YP/AJ | ReRun |
| 29 | Q2177-08 | EB05312025 | PO111445.D | 03 Jun 2025 20:41 | | YP/AJ | Ok |
| 30 | Q2170-01 | 51925-AQ | PO111446.D | 03 Jun 2025 20:59 | | YP/AJ | Ok,M |
| 31 | AR1660CCC500 | AR1660CCC500 | PO111447.D | 03 Jun 2025 22:13 | | YP/AJ | Ok,M |
| 32 | AR1242CCC500 | AR1242CCC500 | PO111448.D | 03 Jun 2025 22:49 | | YP/AJ | Ok,M |
| 33 | AR1248CCC500 | AR1248CCC500 | PO111449.D | 03 Jun 2025 23:08 | | YP/AJ | Ok,M |
| 34 | AR1254CCC500 | AR1254CCC500 | PO111450.D | 03 Jun 2025 23:26 | | YP/AJ | Ok,M |
| 35 | I.BLK | I.BLK | PO111451.D | 03 Jun 2025 23:44 | | YP/AJ | Ok,M |

M : Manual Integration

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**Instrument ID:** ECD_P

## Daily Analysis Runlog For Sequence/QCBatch ID # PP051925

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 5/19/2025 12:22:08 PM | | |
| Supervise By | mohammad | Supervise On | 5/22/2025 6:37:35 AM | | |
| SubDirectory | PP051925 | HP Acquire Method | | HP Processing Method | PP051925 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PP072162.D | 19 May 2025 09:09 | | YP\AJ | Ok |
| 2 | I.BLK | I.BLK | PP072163.D | 19 May 2025 09:26 | | YP\AJ | Ok |
| 3 | AR1660ICC1000 | AR1660ICC1000 | PP072164.D | 19 May 2025 09:42 | | YP\AJ | Ok |
| 4 | AR1660ICC750 | AR1660ICC750 | PP072165.D | 19 May 2025 09:59 | | YP\AJ | Ok |
| 5 | AR1660ICC500 | AR1660ICC500 | PP072166.D | 19 May 2025 10:15 | | YP\AJ | Ok |
| 6 | AR1660ICC250 | AR1660ICC250 | PP072167.D | 19 May 2025 10:32 | | YP\AJ | Ok |
| 7 | AR1660ICC050 | AR1660ICC050 | PP072168.D | 19 May 2025 10:48 | | YP\AJ | Ok,M |
| 8 | AR1221ICC500 | AR1221ICC500 | PP072169.D | 19 May 2025 11:05 | | YP\AJ | Ok |
| 9 | AR1232ICC1000 | AR1232ICC1000 | PP072170.D | 19 May 2025 11:21 | | YP\AJ | Ok |
| 10 | AR1232ICC750 | AR1232ICC750 | PP072171.D | 19 May 2025 11:38 | | YP\AJ | Ok |
| 11 | AR1232ICC500 | AR1232ICC500 | PP072172.D | 19 May 2025 11:54 | | YP\AJ | Ok |
| 12 | AR1232ICC250 | AR1232ICC250 | PP072173.D | 19 May 2025 12:10 | | YP\AJ | Ok |
| 13 | AR1232ICC050 | AR1232ICC050 | PP072174.D | 19 May 2025 12:27 | | YP\AJ | Ok,M |
| 14 | AR1242ICC1000 | AR1242ICC1000 | PP072175.D | 19 May 2025 12:43 | | YP\AJ | Ok |
| 15 | AR1242ICC750 | AR1242ICC750 | PP072176.D | 19 May 2025 12:59 | | YP\AJ | Ok |
| 16 | AR1242ICC500 | AR1242ICC500 | PP072177.D | 19 May 2025 13:15 | | YP\AJ | Ok |
| 17 | AR1242ICC250 | AR1242ICC250 | PP072178.D | 19 May 2025 13:32 | | YP\AJ | Ok |
| 18 | AR1242ICC050 | AR1242ICC050 | PP072179.D | 19 May 2025 13:48 | | YP\AJ | Ok,M |

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**Instrument ID:** ECD_P

## Daily Analysis Runlog For Sequence/QCBatch ID # PP051925

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 5/19/2025 12:22:08 PM | | |
| Supervise By | mohammad | Supervise On | 5/22/2025 6:37:35 AM | | |
| SubDirectory | PP051925 | HP Acquire Method | | HP Processing Method | PP051925 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | AR1248ICC1000 | AR1248ICC1000 | PP072180.D | 19 May 2025 14:04 | | YP\AJ | Ok |
| 20 | AR1248ICC750 | AR1248ICC750 | PP072181.D | 19 May 2025 14:20 | | YP\AJ | Ok |
| 21 | AR1248ICC500 | AR1248ICC500 | PP072182.D | 19 May 2025 14:37 | | YP\AJ | Ok |
| 22 | AR1248ICC250 | AR1248ICC250 | PP072183.D | 19 May 2025 14:53 | | YP\AJ | Ok |
| 23 | AR1248ICC050 | AR1248ICC050 | PP072184.D | 19 May 2025 15:25 | | YP\AJ | Ok,M |
| 24 | AR1254ICC1000 | AR1254ICC1000 | PP072185.D | 19 May 2025 15:42 | | YP\AJ | Ok |
| 25 | AR1254ICC750 | AR1254ICC750 | PP072186.D | 19 May 2025 15:58 | | YP\AJ | Ok |
| 26 | AR1254ICC500 | AR1254ICC500 | PP072187.D | 19 May 2025 16:14 | | YP\AJ | Ok |
| 27 | AR1254ICC250 | AR1254ICC250 | PP072188.D | 19 May 2025 16:31 | | YP\AJ | Ok |
| 28 | AR1254ICC050 | AR1254ICC050 | PP072189.D | 19 May 2025 16:47 | | YP\AJ | Ok,M |
| 29 | AR1262ICC500 | AR1262ICC500 | PP072190.D | 19 May 2025 17:03 | | YP\AJ | Ok |
| 30 | AR1268ICC1000 | AR1268ICC1000 | PP072191.D | 19 May 2025 17:20 | | YP\AJ | Ok |
| 31 | AR1268ICC750 | AR1268ICC750 | PP072192.D | 19 May 2025 17:36 | | YP\AJ | Ok |
| 32 | AR1268ICC500 | AR1268ICC500 | PP072193.D | 19 May 2025 17:53 | | YP\AJ | Ok |
| 33 | AR1268ICC250 | AR1268ICC250 | PP072194.D | 19 May 2025 18:09 | | YP\AJ | Ok |
| 34 | AR1268ICC050 | AR1268ICC050 | PP072195.D | 19 May 2025 18:25 | | YP\AJ | Ok,M |
| 35 | PP051925ICV500 | ICVPP051925 | PP072196.D | 19 May 2025 18:42 | | YP\AJ | Ok |
| 36 | AR1232ICV500 | ICVPP051925AR1232 | PP072197.D | 19 May 2025 19:14 | | YP\AJ | Ok |
| 37 | AR1242ICV500 | ICVPP051925AR1242 | PP072198.D | 19 May 2025 19:47 | | YP\AJ | Ok |

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**Instrument ID:** ECD_P

## Daily Analysis Runlog For Sequence/QCBatch ID # PP051925

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 5/19/2025 12:22:08 PM | | |
| Supervise By | mohammad | Supervise On | 5/22/2025 6:37:35 AM | | |
| SubDirectory | PP051925 | HP Acquire Method | | HP Processing Method | PP051925 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | AR1248ICV500 | ICVPP051925AR1248 | PP072199.D | 19 May 2025 20:19 | | YP\AJ | Ok |
| 39 | AR1254ICV500 | ICVPP051925AR1254 | PP072200.D | 19 May 2025 20:52 | | YP\AJ | Ok |
| 40 | AR1268ICV500 | ICVPP051925AR1268 | PP072201.D | 19 May 2025 21:25 | | YP\AJ | Ok |

M : Manual Integration

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**Instrument ID:** ECD_P

## Daily Analysis Runlog For Sequence/QCBatch ID # PP060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/3/2025 11:21:30 AM | | |
| Supervise By | mohammad | Supervise On | 6/5/2025 1:35:08 AM | | |
| SubDirectory | PP060325 | HP Acquire Method | | HP Processing Method | PP051925 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | PP24332,PP24347,PP24352,PP24357 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PP072552.D | 03 Jun 2025 10:06 | | YP\AJ | Ok |
| 2 | AR1660CCC500 | AR1660CCC500 | PP072553.D | 03 Jun 2025 10:22 | | YP\AJ | Ok,M |
| 3 | AR1242CCC500 | AR1242CCC500 | PP072554.D | 03 Jun 2025 10:39 | | YP\AJ | Ok,M |
| 4 | AR1248CCC500 | AR1248CCC500 | PP072555.D | 03 Jun 2025 10:55 | | YP\AJ | Ok,M |
| 5 | AR1254CCC500 | AR1254CCC500 | PP072556.D | 03 Jun 2025 11:11 | | YP\AJ | Ok,M |
| 6 | I.BLK | I.BLK | PP072557.D | 03 Jun 2025 11:27 | | YP\AJ | Ok,M |
| 7 | PB168252BL | PB168252BL | PP072558.D | 03 Jun 2025 13:28 | | YP\AJ | Ok,M |
| 8 | PB168252BS | PB168252BS | PP072559.D | 03 Jun 2025 13:44 | Recovery fail | YP\AJ | Not Ok |
| 9 | Q2168-01 | SAN-A1-A3 | PP072560.D | 03 Jun 2025 14:00 | AR1242 Hit,Need Dilution 50X | YP\AJ | Dilution |
| 10 | Q2168-05 | SAN-B1-B3 | PP072561.D | 03 Jun 2025 14:16 | AR1242 Hit,Need Dilution 50X | YP\AJ | Dilution |
| 11 | Q2168-09 | SAN-C1-C2 | PP072562.D | 03 Jun 2025 14:33 | AR1242 Hit,Need Dilution 100X | YP\AJ | Dilution |
| 12 | Q2175-01 | 32525 | PP072563.D | 03 Jun 2025 14:49 | AR1242 Hit,carry over | YP\AJ | Not Ok |
| 13 | Q2176-01 | TP-46 | PP072564.D | 03 Jun 2025 15:05 | AR1242 Hit,carry over | YP\AJ | Not Ok |
| 14 | Q2176-02 | TP-56 | PP072565.D | 03 Jun 2025 15:22 | AR1242 Hit,carry over | YP\AJ | Not Ok |
| 15 | Q2176-03 | TP-25 | PP072566.D | 03 Jun 2025 15:38 | AR1260 Hit; possible carryover | YP\AJ | Not Ok |
| 16 | Q2176-04 | TP-26 | PP072567.D | 03 Jun 2025 15:54 | | YP\AJ | Ok,M |
| 17 | AR1660CCC500 | AR1660CCC500 | PP072568.D | 03 Jun 2025 16:59 | | YP\AJ | Ok,M |
| 18 | AR1242CCC500 | AR1242CCC500 | PP072569.D | 03 Jun 2025 17:32 | | YP\AJ | Ok,M |

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**Instrument ID:** ECD_P

## Daily Analysis Runlog For Sequence/QCBatch ID # PP060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/3/2025 11:21:30 AM | | |
| Supervise By | mohammad | Supervise On | 6/5/2025 1:35:08 AM | | |
| SubDirectory | PP060325 | HP Acquire Method | | HP Processing Method | PP051925 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | PP24332,PP24347,PP24352,PP24357 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | AR1248CCC500 | AR1248CCC500 | PP072570.D | 03 Jun 2025 17:48 | | YP\AJ | Ok,M |
| 20 | AR1254CCC500 | AR1254CCC500 | PP072571.D | 03 Jun 2025 18:05 | | YP\AJ | Ok,M |
| 21 | I.BLK | I.BLK | PP072572.D | 03 Jun 2025 18:21 | | YP\AJ | Ok,M |
| 22 | Q2176-05 | TP-28 | PP072573.D | 03 Jun 2025 18:37 | | YP\AJ | Ok |
| 23 | Q2176-05MS | TP-28MS | PP072574.D | 03 Jun 2025 18:53 | | YP\AJ | Ok,M |
| 24 | Q2176-05MSD | TP-28MSD | PP072575.D | 03 Jun 2025 19:10 | | YP\AJ | Ok |
| 25 | Q2176-06 | TP-27 | PP072576.D | 03 Jun 2025 19:26 | | YP\AJ | Ok,M |
| 26 | Q2176-07 | TP-31 | PP072577.D | 03 Jun 2025 19:42 | | YP\AJ | Ok |
| 27 | Q2176-08 | TP-65 | PP072578.D | 03 Jun 2025 19:59 | | YP\AJ | Ok |
| 28 | Q2177-02 | B-187-SB01 | PP072579.D | 03 Jun 2025 20:15 | | YP\AJ | Ok,M |
| 29 | Q2177-04 | B-187-SB02 | PP072580.D | 03 Jun 2025 20:31 | | YP\AJ | Ok,M |
| 30 | Q2177-06 | B-202-SB01 | PP072581.D | 03 Jun 2025 20:48 | | YP\AJ | Ok,M |
| 31 | Q2178-01 | RT2929 | PP072582.D | 03 Jun 2025 21:04 | | YP\AJ | Ok,M |
| 32 | AR1660CCC500 | AR1660CCC500 | PP072583.D | 03 Jun 2025 22:25 | | YP\AJ | Ok,M |
| 33 | AR1242CCC500 | AR1242CCC500 | PP072584.D | 03 Jun 2025 22:58 | | YP\AJ | Ok,M |
| 34 | AR1248CCC500 | AR1248CCC500 | PP072585.D | 03 Jun 2025 23:14 | | YP\AJ | Ok,M |
| 35 | AR1254CCC500 | AR1254CCC500 | PP072586.D | 03 Jun 2025 23:30 | | YP\AJ | Ok,M |
| 36 | I.BLK | I.BLK | PP072587.D | 03 Jun 2025 23:47 | | YP\AJ | Ok,M |
| 37 | Q2185-01 | TP02-MHB-WC | PP072588.D | 04 Jun 2025 00:03 | | YP\AJ | Ok,M |

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**Instrument ID:** ECD_P

## Daily Analysis Runlog For Sequence/QCBatch ID # PP060325

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/3/2025 11:21:30 AM | | |
| Supervise By | mohammad | Supervise On | 6/5/2025 1:35:08 AM | | |
| SubDirectory | PP060325 | HP Acquire Method | | HP Processing Method | PP051925 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | PP24332,PP24347,PP24352,PP24357 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | Q2185-05 | TP01-MHA-WC | PP072589.D | 04 Jun 2025 00:19 | | YP\AJ | Ok,M |
| 39 | PB168257BL | PB168257BL | PP072590.D | 04 Jun 2025 00:35 | | YP\AJ | Ok,M |
| 40 | PB168257BS | PB168257BS | PP072591.D | 04 Jun 2025 00:52 | AR1016 recovery fail | YP\AJ | Not Ok |
| 41 | PB168257BSD | PB168257BSD | PP072592.D | 04 Jun 2025 01:08 | AR1016 recovery fail | YP\AJ | Not Ok |
| 42 | Q2165-03 | TRE-25-63-64 | PP072593.D | 04 Jun 2025 01:24 | AR1254 Hit | YP\AJ | Ok,M |
| 43 | Q2165-06 | TRE-25-65-66 | PP072594.D | 04 Jun 2025 01:40 | | YP\AJ | Ok,M |
| 44 | Q2169-01 | 303-PPR-1 | PP072595.D | 04 Jun 2025 01:57 | AR1254 Hit | YP\AJ | Ok,M |
| 45 | Q2169-03 | 303-PPR-2 | PP072596.D | 04 Jun 2025 02:13 | AR1254 Hit | YP\AJ | Ok,M |
| 46 | Q2175-04 | 52525-A-B-COMP | PP072597.D | 04 Jun 2025 02:29 | | YP\AJ | Ok,M |
| 47 | AR1660CCC500 | AR1660CCC500 | PP072598.D | 04 Jun 2025 03:51 | | YP\AJ | Ok,M |
| 48 | AR1242CCC500 | AR1242CCC500 | PP072599.D | 04 Jun 2025 04:23 | | YP\AJ | Ok,M |
| 49 | AR1248CCC500 | AR1248CCC500 | PP072600.D | 04 Jun 2025 04:40 | | YP\AJ | Ok,M |
| 50 | AR1254CCC500 | AR1254CCC500 | PP072601.D | 04 Jun 2025 04:56 | | YP\AJ | Ok,M |
| 51 | I.BLK | I.BLK | PP072602.D | 04 Jun 2025 05:12 | | YP\AJ | Ok,M |

M : Manual Integration

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**Instrument ID:** ECD_P

## Daily Analysis Runlog For Sequence/QCBatch ID # PP060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/4/2025 10:14:35 AM | | |
| Supervise By | mohammad | Supervise On | 6/6/2025 9:37:42 AM | | |
| SubDirectory | PP060425 | HP Acquire Method | | HP Processing Method | PP051925 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | PP24332,PP24347,PP24352,PP24357 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PP072603.D | 04 Jun 2025 08:34 | | YP\AJ | Ok |
| 2 | AR1660CCC500 | AR1660CCC500 | PP072604.D | 04 Jun 2025 08:50 | | YP\AJ | Ok,M |
| 3 | AR1242CCC500 | AR1242CCC500 | PP072605.D | 04 Jun 2025 09:11 | | YP\AJ | Ok,M |
| 4 | AR1248CCC500 | AR1248CCC500 | PP072606.D | 04 Jun 2025 09:27 | | YP\AJ | Ok,M |
| 5 | AR1254CCC500 | AR1254CCC500 | PP072607.D | 04 Jun 2025 09:43 | | YP\AJ | Ok,M |
| 6 | I.BLK | I.BLK | PP072608.D | 04 Jun 2025 10:00 | | YP\AJ | Ok,M |
| 7 | PB168257BS | PB168257BS | PP072609.D | 04 Jun 2025 10:16 | | YP\AJ | Ok,M |
| 8 | PB168257BSD | PB168257BSD | PP072610.D | 04 Jun 2025 10:32 | | YP\AJ | Ok,M |
| 9 | Q2168-01DL | SAN-A1-A3DL | PP072611.D | 04 Jun 2025 10:48 | AR1242 Hit | YP\AJ | Ok |
| 10 | Q2168-05DL | SAN-B1-B3DL | PP072612.D | 04 Jun 2025 11:04 | AR1242 Hit | YP\AJ | Ok |
| 11 | Q2168-09DL | SAN-C1-C2DL | PP072613.D | 04 Jun 2025 11:21 | AR1242 Hit | YP\AJ | Ok |
| 12 | PB168252BS | PB168252BS | PP072614.D | 04 Jun 2025 11:37 | | YP\AJ | Ok,M |
| 13 | PB168275BL | PB168275BL | PP072615.D | 04 Jun 2025 12:55 | | YP\AJ | Ok |
| 14 | PB168275BS | PB168275BS | PP072616.D | 04 Jun 2025 13:12 | AR1016 fail for recovery | YP\AJ | Not Ok |
| 15 | Q2167-01 | 52225 | PP072617.D | 04 Jun 2025 13:28 | Surrogate fail, AR1242 Hit | YP\AJ | ReRun |
| 16 | Q2171-01 | 5-28-25-A | PP072618.D | 04 Jun 2025 13:45 | AR1242 Hit,Need Dilution, DCB high 2nd column | YP\AJ | Dilution |
| 17 | AR1660CCC500 | AR1660CCC500 | PP072619.D | 04 Jun 2025 14:51 | | YP\AJ | Ok,M |

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**Instrument ID:** ECD_P

## Daily Analysis Runlog For Sequence/QCBatch ID # PP060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/4/2025 10:14:35 AM | | |
| Supervise By | mohammad | Supervise On | 6/6/2025 9:37:42 AM | | |
| SubDirectory | PP060425 | HP Acquire Method | | HP Processing Method | PP051925 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | PP24332,PP24347,PP24352,PP24357 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | AR1242CCC500 | AR1242CCC500 | PP072620.D | 04 Jun 2025 15:07 | | YP\AJ | Ok,M |
| 19 | AR1248CCC500 | AR1248CCC500 | PP072621.D | 04 Jun 2025 15:23 | | YP\AJ | Ok,M |
| 20 | AR1254CCC500 | AR1254CCC500 | PP072622.D | 04 Jun 2025 15:40 | | YP\AJ | Ok,M |
| 21 | I.BLK | I.BLK | PP072623.D | 04 Jun 2025 15:56 | | YP\AJ | Ok |
| 22 | PB168288BL | PB168288BL | PP072624.D | 04 Jun 2025 16:13 | | YP\AJ | Ok,M |
| 23 | PB168288BS | PB168288BS | PP072625.D | 04 Jun 2025 16:29 | AR1016 fail for recovery | YP\AJ | Not Ok |
| 24 | Q2182-01 | OR-03-06022025 | PP072626.D | 04 Jun 2025 16:45 | | YP\AJ | Ok,M |
| 25 | Q2192-01 | SB-1 | PP072627.D | 04 Jun 2025 17:02 | AR1260 + 1242 Hit , need 25X dilution | YP\AJ | Dilution |
| 26 | Q2194-01 | COMP-12 | PP072628.D | 04 Jun 2025 17:18 | | YP\AJ | Ok |
| 27 | Q2194-03 | COMP-13 | PP072629.D | 04 Jun 2025 17:34 | | YP\AJ | Ok |
| 28 | Q2195-01 | OK-01-060325 | PP072630.D | 04 Jun 2025 17:51 | | YP\AJ | Ok,M |
| 29 | Q2195-01MS | OK-01-060325MS | PP072631.D | 04 Jun 2025 18:07 | | YP\AJ | Ok,M |
| 30 | Q2195-01MSD | OK-01-060325MSD | PP072632.D | 04 Jun 2025 18:23 | | YP\AJ | Ok,M |
| 31 | Q2198-01 | B-202-SB02 | PP072633.D | 04 Jun 2025 18:40 | | YP\AJ | Ok,M |
| 32 | AR1660CCC500 | AR1660CCC500 | PP072634.D | 04 Jun 2025 20:01 | AR1016 - 1 low in 1st column , AR1260 - 2,4 low in 1st column | YP\AJ | Ok |
| 33 | AR1242CCC500 | AR1242CCC500 | PP072635.D | 04 Jun 2025 20:18 | AR1242 - 5 Low in 1st column | YP\AJ | Ok |
| 34 | AR1248CCC500 | AR1248CCC500 | PP072636.D | 04 Jun 2025 20:34 | | YP\AJ | Ok,M |
| 35 | AR1254CCC500 | AR1254CCC500 | PP072637.D | 04 Jun 2025 20:50 | AR1254 - 2,4 low in 1st column | YP\AJ | Ok,M |
| 36 | I.BLK | I.BLK | PP072638.D | 04 Jun 2025 21:07 | | YP\AJ | Ok,M |

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Fax : 908 789 8922

**Instrument ID:** ECD_P

## Daily Analysis Runlog For Sequence/QCBatch ID # PP060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/4/2025 10:14:35 AM | | |
| Supervise By | mohammad | Supervise On | 6/6/2025 9:37:42 AM | | |
| SubDirectory | PP060425 | HP Acquire Method | | HP Processing Method | PP051925 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369 |
| CCC | PP24332,PP24347,PP24352,PP24357 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 37 | Q2175-09 | 52725 | PP072639.D | 04 Jun 2025 21:23 | AR1242 hit, DCB low in both column & TCMX low in 1st column | YP\AJ | ReRun |
| 38 | Q2171-01DL | 5-28-25-ADL | PP072640.D | 04 Jun 2025 21:39 | AR1242 Hit | YP\AJ | Ok,M |
| 39 | AR1660CCC500 | AR1660CCC500 | PP072641.D | 04 Jun 2025 22:45 | | YP\AJ | Ok,M |
| 40 | AR1242CCC500 | AR1242CCC500 | PP072642.D | 04 Jun 2025 23:17 | | YP\AJ | Ok,M |
| 41 | AR1248CCC500 | AR1248CCC500 | PP072643.D | 04 Jun 2025 23:34 | | YP\AJ | Ok,M |
| 42 | AR1254CCC500 | AR1254CCC500 | PP072644.D | 04 Jun 2025 23:50 | | YP\AJ | Ok,M |
| 43 | I.BLK | I.BLK | PP072645.D | 05 Jun 2025 00:06 | | YP\AJ | Ok,M |

M : Manual Integration

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB168252

| | | | | | |
|---|---|---|---|---|---|
| **SOP ID:** | M3541-ASE Extraction-14 | | | | |
| **Clean Up SOP #:** | Acid Cleanup | | | **Extraction Start Date :** | 06/03/2025 |
| **Matrix :** | Solid | | | **Extraction Start Time :** | 09:30 |
| **Weigh By:** | EH | **Extraction By:** | RJ | **Extraction End Date :** | 06/03/2025 |
| **Balance check:** | EH | **Filter By:** | RJ | **Extraction End Time :** | 12:45 |
| **Balance ID:** | EX-SC-2 | **pH Meter ID:** | N/A | **Concentration By:** | EH |
| **pH Strip Lot#:** | N/A | **Hood ID:** | 3,7 | **Supervisor By :** | RUPESH |

**Extraction Method:** ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 5000 PPB | PP24461 |
| Surrogate | 1.0ML | 200 PPB | PP24597 |
| 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 | EP2613 |
| Baked Na2SO4 | N/A | EP2620 |
| Sand | N/A | E2865 |
| Hexane | N/A | E3938 |
| H2SO4 1:1 | N/A | EP2610 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| 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 # 03-40BTS723, Q2175-01 used Limited volume as sample is oily debris.

| | | | |
|---|---|---|---|
| **KD Bath ID:** | N/A | **Envap ID:** | NEVAP-02 |
| **KD Bath Temperature:** | N/A | **Envap Temperature:** | 40 °C |

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 6/3/25 | RS (Ext lab) | Y-P Pest HCB. |
| 12:50 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB168252**

**Analytical Method:** M3541-ASE Extraction-14

**Concentration Date:** 06/03/2025

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB168252BL | ABLK252 | PCB | 30.01 | N/A | ritesh | Evelyn | 10 | | | U1-1 |
| PB168252BS | ALCS252 | PCB | 30.02 | N/A | ritesh | Evelyn | 10 | | | 2 |
| Q2168-01 | SAN-A1-A3 | PCB | 30.05 | N/A | ritesh | Evelyn | 10 | B | | 3 |
| Q2168-05 | SAN-B1-B3 | PCB | 30.03 | N/A | ritesh | Evelyn | 10 | B | | 4 |
| Q2168-09 | SAN-C1-C2 | PCB | 30.02 | N/A | ritesh | Evelyn | 10 | B | | 5 |
| Q2175-01 | 32525 | PCB | 5.09 | N/A | ritesh | Evelyn | 10 | E | Oily Debris | 6 |
| Q2176-01 | TP-46 | PCB | 30.06 | N/A | ritesh | Evelyn | 10 | E | | U2-1 |
| Q2176-02 | TP-56 | PCB | 30.04 | N/A | ritesh | Evelyn | 10 | E | | 2 |
| Q2176-03 | TP-25 | PCB | 30.07 | N/A | ritesh | Evelyn | 10 | E | | 3 |
| Q2176-04 | TP-26 | PCB | 30.07 | N/A | ritesh | Evelyn | 10 | E | | 4 |
| Q2176-05 | TP-28 | PCB | 30.06 | N/A | ritesh | Evelyn | 10 | E | | 5 |
| Q2176-05MS | TP-28MS | PCB | 30.02 | N/A | ritesh | Evelyn | 10 | E | | 6 |
| Q2176-05MSD | TP-28MSD | PCB | 30.05 | N/A | ritesh | Evelyn | 10 | E | | U3-1 |
| Q2176-06 | TP-27 | PCB | 30.04 | N/A | ritesh | Evelyn | 10 | E | | 2 |
| Q2176-07 | TP-31 | PCB | 30.07 | N/A | ritesh | Evelyn | 10 | E | | 3 |
| Q2176-08 | TP-65 | PCB | 30.01 | N/A | ritesh | Evelyn | 10 | E | | 4 |
| Q2177-02 | B-187-SB01 | PCB | 30.03 | N/A | ritesh | Evelyn | 10 | F | | 6 |
| Q2177-04 | B-187-SB02 | PCB | 30.08 | N/A | ritesh | Evelyn | 10 | F | | U6-1 |
| Q2177-06 | B-202-SB01 | PCB | 30.02 | N/A | ritesh | Evelyn | 10 | F | | 2 |
| Q2178-01 | RT2929 | PCB | 30.05 | N/A | ritesh | Evelyn | 10 | B | Concrete | 3 |
| Q2185-01 | TP02-MHB-WC | PCB | 30.04 | N/A | ritesh | Evelyn | 10 | B | | 4 |
| Q2185-05 | TP01-MHB-WC | PCB | 30.06 | N/A | ritesh | Evelyn | 10 | B | | 5 |

RS
6/3

* **Extracts relinguished on the same date as received.**

168252
9-30

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q2168 **WorkList ID :** 189890 **Department :** Extraction **Date :** 06-03-2025 09:02:47

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2168-01 | SAN-A1-A3 | Solid | PCB | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 8082A |
| Q2168-05 | SAN-B1-B3 | Solid | PCB | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 8082A |
| Q2168-09 | SAN-C1-C2 | Solid | PCB | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 8082A |
| Q2175-01 | 32525 | Solid | PCB | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 8082A |
| Q2176-01 | TP-46 | Solid | PCB | Cool 4 deg C | CAMP02 | L41 | 05/28/2025 | 8082A |
| Q2176-02 | TP-56 | Solid | PCB | Cool 4 deg C | CAMP02 | L41 | 05/29/2025 | 8082A |
| Q2176-03 | TP-25 | Solid | PCB | Cool 4 deg C | CAMP02 | L41 | 05/29/2025 | 8082A |
| Q2176-04 | TP-26 | Solid | PCB | Cool 4 deg C | CAMP02 | L41 | 05/29/2025 | 8082A |
| Q2176-05 | TP-28 | Solid | PCB | Cool 4 deg C | CAMP02 | L41 | 05/29/2025 | 8082A |
| Q2176-06 | TP-27 | Solid | PCB | Cool 4 deg C | CAMP02 | L41 | 05/29/2025 | 8082A |
| Q2176-07 | TP-31 | Solid | PCB | Cool 4 deg C | CAMP02 | L41 | 05/29/2025 | 8082A |
| Q2176-08 | TP-65 | Solid | PCB | Cool 4 deg C | CAMP02 | L41 | 05/30/2025 | 8082A |
| Q2177-02 | B-187-SB01 | Solid | PCB | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 8082A |
| Q2177-04 | B-187-SB02 | Solid | PCB | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 8082A |
| Q2177-06 | B-202-SB01 | Solid | PCB | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 8082A |
| Q2178-01 | RT2929 | Solid | PCB | Cool 4 deg C | PSEG03 | L41 | 06/02/2025 | 8082A |
| Q2185-01 | TP02-MHB-WC | Solid | PCB | Cool 4 deg C | PSEG03 | L31 | 06/02/2025 | 8082A |
| Q2185-05 | TP01-MHB-WC | Solid | PCB | Cool 4 deg C | PSEG03 | L31 | 06/02/2025 | 8082A |

**Date/Time** 6/3/25 9:25
**Raw Sample Received by:** RJ (EXT-lab)
**Raw Sample Relinquished by:** SM

**Date/Time** 6/3/25 10:00
**Raw Sample Received by:** SM
**Raw Sample Relinquished by:** RJ (EXT-lab)

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB168257

**SOP ID:** M3510C,3580A-Extraction PCB-14

**Clean Up SOP #:** Acid Cleanup

**Matrix :** Water

**Weigh By:** N/A

**Balance check:** N/A

**Balance ID:** N/A

**pH Strip Lot#:** E3880

**Extraction By:** RS

**Filter By:** RS

**pH Meter ID:** N/A

**Hood ID:** 4,6,7

**Extraction Start Date :** 06/03/2025

**Extraction Start Time :** 09:03

**Extraction End Date :** 06/03/2025

**Extraction End Time :** 13:45

**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 | PP24461 |
| Surrogate | 1.0ML | 200 PPB | PP24597 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Methylene Chloride | N/A | E3939 |
| Baked Na2SO4 | N/A | EP2620 |
| Hexane | N/A | E3938 |
| H2SO4 1:1 | N/A | EP2610 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

40 ML Vial lot# 03-40BTS723, Q2170-01 & Q2175-09 used Limited volume as sample is oily, Q2175-06 received Limited volume & Q2157-01 split volume.

**KD Bath ID:** WATER BATH-1,2

**KD Bath Temperature:** 60 °C

**Envap ID:** NEVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 6/3/25 | RS (EXT lab) | Y-P-PGTHPD |
| 13:50 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB168257**

**Analytical Method:** M3510C,3580A-Extraction PCB-14

**Concentration Date:** 06/03/2025

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB168257BL | ABLK257 | PCB | 1000 | 6 | ritesh | Evelyn | 10 | | | SEP-1 |
| PB168257BS | ALCS257 | PCB | 1000 | 6 | ritesh | Evelyn | 10 | | | 2 |
| PB168257BSD | ALCSD257 | PCB | 1000 | 6 | ritesh | Evelyn | 10 | | | 3 |
| Q2165-03 | TRE-25-63-64 | PCB | 960 | 6 | ritesh | Evelyn | 10 | C | | 4 |
| Q2165-06 | TRE-25-65-66 | PCB | 970 | 6 | ritesh | Evelyn | 10 | C | | 5 |
| Q2169-01 | 303-PPR-1 | PCB | 990 | 6 | ritesh | Evelyn | 10 | E | | 6 |
| Q2169-03 | 303-PPR-2 | PCB | 1000 | 6 | ritesh | Evelyn | 10 | E | | 7 |
| Q2170-01 | 51925-AQ | PCB | 100 | 6 | ritesh | Evelyn | 10 | C | Oily | 8 |
| Q2175-04 | 52525-A-B-COMP | PCB | 1000 | 6 | ritesh | Evelyn | 10 | C | | 9 |
| Q2175-06 | EGR-LIQUID | PCB | 580 | 6 | ritesh | Evelyn | 10 | E | | 10 |
| Q2175-09 | 52725 | PCB | 100 | 6 | ritesh | Evelyn | 10 | A | Oily | 11 |
| Q2177-08 | EB05312025 | PCB | 490 | 6 | ritesh | Evelyn | 5 | F | | 12 |

RS
6/3

* **Extracts relinguished on the same date as received.**

168257
9:03

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q2165 **WorkList ID :** 189895 **Department :** Extraction **Date :** 06-03-2025 08:56:53

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2169-01 | 303-PPR-1 | Water | PCB | Cool 4 deg C | PSEG01 | L41 | 05/30/2025 | 8082A |
| Q2169-03 | 303-PPR-2 | Water | PCB | Cool 4 deg C | PSEG01 | L41 | 05/30/2025 | 8082A |
| Q2177-08 | EB05312025 | Water | PCB | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 8082A |
| Q2165-03 | TRE-25-63-64 | Water | PCB | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 8082A |
| Q2165-06 | TRE-25-65-66 | Water | PCB | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 8082A |
| Q2170-01 | 51925-AQ | Water | PCB | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 8082A |
| Q2175-04 | 52525-A-B-COMP | Water | PCB | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 8082A |
| Q2175-06 | EGR-LIQUID | Water | PCB | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 8082A |
| Q2175-09 | 52725 | Water | PCB | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 8082A |

**Date/Time** 6/3/25 8:56
**Raw Sample Received by:** RJ (Ext Lab)
**Raw Sample Relinquished by:** J.C (SM)



**Date/Time** 6/3/25 9:30
**Raw Sample Received by:** J.C (SM)
**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:** | Q2177 | **OrderDate:** | 6/2/2025 11:19:00 AM |
| **Client:** | Portal Partners Tri-Venture | **Project:** | Amtrak Sawtooth Bridges 2025 |
| **Contact:** | Joseph Krupansky | **Location:** | L41,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2177-02** | **B-187-SB01** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | PCB | 8082A | | 06/03/25 | 06/03/25 | |
| **Q2177-03** | **B-187-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP Herbicide | 8151A | | 06/03/25 | 06/05/25 | |
| | | | TCLP Pesticide | 8081B | | 06/03/25 | 06/03/25 | |
| **Q2177-04** | **B-187-SB02** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | PCB | 8082A | | 06/03/25 | 06/03/25 | |
| **Q2177-05** | **B-187-SB02** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP Herbicide | 8151A | | 06/03/25 | 06/05/25 | |
| | | | TCLP Pesticide | 8081B | | 06/03/25 | 06/03/25 | |
| **Q2177-06** | **B-202-SB01** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | PCB | 8082A | | 06/03/25 | 06/03/25 | |
| **Q2177-07** | **B-202-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP Herbicide | 8151A | | 06/03/25 | 06/05/25 | |
| | | | TCLP Pesticide | 8081B | | 06/03/25 | 06/03/25 | |
| **Q2177-08** | **EB05312025** | **WATER** | | | **05/31/25** | | | **06/02/25** |
| | | | PCB | 8082A | | 06/03/25 | 06/03/25 | |

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Fax : 908 789 8922

# Hit Summary Sheet
## SW-846

**SDG No.:** Q2177 **Order ID:** Q2177

**Client:** Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

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

**Client ID :**

**Total Concentration:** **0.000**

# SAMPLE DATA

Raw Data: **PS030512.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/03/25 |
| Client Sample ID: | PB168224TB | SDG No.: | Q2177 |
| Lab Sample ID: | PB168224TB | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 8151A | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030512.D | 1 | 06/03/25 11:15 | 06/05/25 02:53 | PB168263 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 9.20 | U | 9.20 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 7.80 | U | 7.80 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 603 | | 70 (61) - 130 (136) | 121% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PS030507.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-03 | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 8151A | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030507.D | 1 | 06/03/25 11:15 | 06/05/25 00:52 | PB168263 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 9.20 | U | 9.20 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 7.80 | U | 7.80 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 486 | | 70 (61) - 130 (136) | 97% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PS030508.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-05 | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 8151A | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030508.D | 1 | 06/03/25 11:15 | 06/05/25 01:16 | PB168263 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 9.20 | U | 9.20 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 7.80 | U | 7.80 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 438 | | 70 (61) - 130 (136) | 88% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PS030509.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-07 | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 8151A | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030509.D | 1 | 06/03/25 11:15 | 06/05/25 01:40 | PB168263 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 9.20 | U | 9.20 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 7.80 | U | 7.80 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 464 | | 70 (61) - 130 (136) | 93% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

# QC SUMMARY

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## Surrogate Summary

**SDG No.:** Q2177

**Client:** Portal Partners Tri-Venture

**Analytical Method:** 8151A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PS030475.D | PIBLK-PS030475.D | 2,4-DCAA | 1 | 500 | 414 | 83 | | 70 (61) | 130 (136) |
| | | 2,4-DCAA | 2 | 500 | 445 | 89 | | 70 (61) | 130 (136) |
| I.BLK-PS030496.D | PIBLK-PS030496.D | 2,4-DCAA | 1 | 500 | 445 | 89 | | 70 (61) | 130 (136) |
| | | 2,4-DCAA | 2 | 500 | 459 | 92 | | 70 (61) | 130 (136) |
| Q2173-06MS | OR-400-CF-402B-COMP-23MS | 2,4-DCAA | 1 | 500 | 635 | 127 | | 70 (61) | 130 (136) |
| | | 2,4-DCAA | 2 | 500 | 449 | 90 | | 70 (61) | 130 (136) |
| Q2173-06MSD | OR-400-CF-402B-COMP-23MSD | 2,4-DCAA | 1 | 500 | 616 | 123 | | 70 (61) | 130 (136) |
| | | 2,4-DCAA | 2 | 500 | 444 | 89 | | 70 (61) | 130 (136) |
| I.BLK-PS030505.D | PIBLK-PS030505.D | 2,4-DCAA | 1 | 500 | 442 | 88 | | 70 (61) | 130 (136) |
| | | 2,4-DCAA | 2 | 500 | 460 | 92 | | 70 (61) | 130 (136) |
| Q2177-03 | B-187-SB01 | 2,4-DCAA | 1 | 500 | 486 | 97 | | 70 (61) | 130 (136) |
| | | 2,4-DCAA | 2 | 500 | 411 | 82 | | 70 (61) | 130 (136) |
| Q2177-05 | B-187-SB02 | 2,4-DCAA | 1 | 500 | 438 | 88 | | 70 (61) | 130 (136) |
| | | 2,4-DCAA | 2 | 500 | 409 | 82 | | 70 (61) | 130 (136) |
| Q2177-07 | B-202-SB01 | 2,4-DCAA | 1 | 500 | 464 | 93 | | 70 (61) | 130 (136) |
| | | 2,4-DCAA | 2 | 500 | 425 | 85 | | 70 (61) | 130 (136) |
| PB168263BL | PB168263BL | 2,4-DCAA | 1 | 500 | 434 | 87 | | 70 (61) | 130 (136) |
| | | 2,4-DCAA | 2 | 500 | 472 | 94 | | 70 (61) | 130 (136) |
| PB168263BS | PB168263BS | 2,4-DCAA | 1 | 500 | 510 | 102 | | 70 (61) | 130 (136) |
| | | 2,4-DCAA | 2 | 500 | 506 | 101 | | 70 (61) | 130 (136) |
| PB168224TB | PB168224TB | 2,4-DCAA | 1 | 500 | 603 | 121 | | 70 (61) | 130 (136) |
| | | 2,4-DCAA | 2 | 500 | 484 | 97 | | 70 (61) | 130 (136) |
| I.BLK-PS030515.D | PIBLK-PS030515.D | 2,4-DCAA | 1 | 500 | 447 | 89 | | 70 (61) | 130 (136) |
| | | 2,4-DCAA | 2 | 500 | 460 | 92 | | 70 (61) | 130 (136) |

( ) = LABORATORY INHOUSE LIMIT

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2177 **Analytical Method:** 8151A

**Client:** Portal Partners Tri-Venture **DataFile :** PS030498.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **OR-400-CF-402B-COMP-23MS** | | | | | | | | | | | |
| Q2173-06MS (Column 1) | 2,4-D | 50 | 0 | 50.6 | ug/L | 101 | | | | 70 (65) | 130 (135) | |
| | 2,4,5-TP(Silvex) | 50 | 0 | 49.0 | ug/L | 98 | | | | 70 (62) | 130 (139) | |
| **Client Sample ID:** | **OR-400-CF-402B-COMP-23MS** | | | | | | | | | | | |
| Q2173-06MS (Column 2) | 2,4-D | 50 | 0 | 44.7 | ug/L | 89 | | | | 70 (65) | 130 (135) | |
| | 2,4,5-TP(Silvex) | 50 | 0 | 45.9 | ug/L | 92 | | | | 70 (62) | 130 (139) | |

( ) = LABORATORY INHOUSE LIMIT

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2177 **Analytical Method:** 8151A

**Client:** Portal Partners Tri-Venture **DataFile :** PS030499.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **OR-400-CF-402B-COMP-23MSD** | | | | | | | | | | | |
| Q2173-06MSD (Column 1) | 2,4-D | 50 | 0 | 49.8 | ug/L | 100 | | 1 | | 70 (65) | 130 (135) | 20 (20) |
| | 2,4,5-TP(Silvex) | 50 | 0 | 48.6 | ug/L | 97 | | 1 | | 70 (62) | 130 (139) | 20 (20) |
| **Client Sample ID:** | **OR-400-CF-402B-COMP-23MSD** | | | | | | | | | | | |
| Q2173-06MSD (Column 2) | 2,4-D | 50 | 0 | 42.4 | ug/L | 85 | | 5 | | 70 (65) | 130 (135) | 20 (20) |
| | 2,4,5-TP(Silvex) | 50 | 0 | 46.6 | ug/L | 93 | | 1 | | 70 (62) | 130 (139) | 20 (20) |

( ) = LABORATORY INHOUSE LIMIT

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2177 **Analytical Method:** 8151A

**Client:** Portal Partners Tri-Venture **Datafile :** PS030511.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168263BS (Column 1) | 2,4-D | 5 | 4.80 | ug/L | 96 | | | | 70 (83) | 130 (130) | |
| | 2,4,5-TP(Silvex) | 5 | 5.00 | ug/L | 100 | | | | 70 (78) | 130 (127) | |
| PB168263BS (Column 2) | 2,4-D | 5 | 5.00 | ug/L | 100 | | | | 70 (83) | 130 (130) | |
| | 2,4,5-TP(Silvex) | 5 | 4.90 | ug/L | 98 | | | | 70 (78) | 130 (127) | |

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168263BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab Sample ID: PB168263BL Lab File ID: PS030510.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 06/03/2025

Date Analyzed (1): 06/05/2025 Date Analyzed (2): 06/05/2025

Time Analyzed (1): 02:04 Time Analyzed (2): 02:04

Instrument ID (1): ECD_S Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLP2 ID: 0.32 (mm)

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| OR-400-CF-402B-COMP-23MS | Q2173-06MS | PS030498.D | 06/04/2025 | 06/04/2025 |
| OR-400-CF-402B-COMP-23MSD | Q2173-06MSD | PS030499.D | 06/04/2025 | 06/04/2025 |
| B-187-SB01 | Q2177-03 | PS030507.D | 06/05/2025 | 06/05/2025 |
| B-187-SB02 | Q2177-05 | PS030508.D | 06/05/2025 | 06/05/2025 |
| B-202-SB01 | Q2177-07 | PS030509.D | 06/05/2025 | 06/05/2025 |
| PB168263BS | PB168263BS | PS030511.D | 06/05/2025 | 06/05/2025 |
| PB168224TB | PB168224TB | PS030512.D | 06/05/2025 | 06/05/2025 |

COMMENTS:

# QC SAMPLE DATA

Raw Data: **PS030510.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168263BL | SDG No.: | Q2177 |
| Lab Sample ID: | PB168263BL | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030510.D | 1 | 06/03/25 11:15 | 06/05/25 02:04 | PB168263 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.92 | U | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.78 | U | 0.78 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 472 | | 70 (61) - 130 (136) | 94% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/04/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/04/25 |
| Client Sample ID: | PIBLK-PS030475.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PS030475.D | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030475.D | 1 | | 06/04/25 | PS060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.92 | U | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.78 | U | 0.78 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 445 | | 70 (61) - 130 (136) | 89% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/04/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/04/25 |
| Client Sample ID: | PIBLK-PS030496.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PS030496.D | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030496.D | 1 | | 06/04/25 | PS060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.92 | U | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.78 | U | 0.78 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 459 | | 70 (61) - 130 (136) | 92% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/04/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/04/25 |
| Client Sample ID: | PIBLK-PS030505.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PS030505.D | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030505.D | 1 | | 06/04/25 | ps060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.92 | U | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.78 | U | 0.78 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 460 | | 70 (61) - 130 (136) | 92% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 06/05/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/05/25 |
| Client Sample ID: | PIBLK-PS030515.D | SDG No.: | Q2177 |
| Lab Sample ID: | I.BLK-PS030515.D | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030515.D | 1 | | 06/05/25 | ps060425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.92 | U | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.78 | U | 0.78 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 460 | | 70 (61) - 130 (136) | 92% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PS030511.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168263BS | SDG No.: | Q2177 |
| Lab Sample ID: | PB168263BS | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030511.D | 1 | 06/03/25 11:15 | 06/05/25 02:28 | PB168263 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 5.00 | | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 5.00 | | 0.78 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 510 | | 70 (61) - 130 (136) | 102% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PS030498.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/30/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 05/30/25 |
| Client Sample ID: | OR-400-CF-402B-COMP-23MS | SDG No.: | Q2177 |
| Lab Sample ID: | Q2173-06MS | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030498.D | 1 | 06/03/25 11:15 | 06/04/25 20:51 | PB168263 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 50.6 | | 9.20 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 49.0 | | 7.80 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 635 | | 70 (61) - 130 (136) | 127% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PS030499.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/30/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 05/30/25 |
| Client Sample ID: | OR-400-CF-402B-COMP-23MSD | SDG No.: | Q2177 |
| Lab Sample ID: | Q2173-06MSD | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030499.D | 1 | 06/03/25 11:15 | 06/04/25 21:15 | PB168263 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 49.8 | | 9.20 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 48.6 | | 7.80 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 616 | | 70 (61) - 130 (136) | 123% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

# CALIBRATION SUMMARY

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Fax : 908 789 8922

## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_S **Calibration Date(s):** 06/04/2025 06/04/2025

**Calibration Times:** 11:19 12:55

GC Column: RTX-CLP ID: 0.32 (mm)

**LAB FILE ID:** RT 200 = PS030476.D RT 500 = PS030477.D

RT 750 = PS030478.D RT 1000 = PS030479.D RT 1500 = PS030480.D

| COMPOUND | RT 200 | RT 500 | RT 750 | RT 1000 | RT 1500 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.40 | 9.40 | 9.40 | 9.40 | 9.40 | 9.40 | 9.30 | 9.50 |
| 2,4-D | 8.51 | 8.51 | 8.51 | 8.51 | 8.51 | 8.51 | 8.41 | 8.61 |
| 2,4-DCAA | 7.37 | 7.37 | 7.37 | 7.37 | 7.37 | 7.37 | 7.27 | 7.47 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_S **Calibration Date(s):** 06/04/2025 06/04/2025

**Calibration Times:** 11:19 12:55

GC Column: RTX-CLP2 ID: 0.32 (mm)

**LAB FILE ID:** RT 200 = PS030476.D RT 500 = PS030477.D

RT 750 = PS030478.D RT 1000 = PS030479.D RT 1500 = PS030480.D

| COMPOUND | RT 200 | RT 500 | RT 750 | RT 1000 | RT 1500 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.94 | 9.94 | 9.94 | 9.94 | 9.94 | 9.94 | 9.84 | 10.04 |
| 2,4-D | 9.03 | 9.03 | 9.03 | 9.04 | 9.04 | 9.03 | 8.93 | 9.13 |
| 2,4-DCAA | 7.77 | 7.77 | 7.77 | 7.77 | 7.77 | 7.77 | 7.67 | 7.87 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_S **Calibration Date(s):** 06/04/2025 06/04/2025

**Calibration Times:** 11:19 12:55

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 200 =** PS030476.D **CF 500 =** PS030477.D

**CF 750 =** PS030478.D **CF 1000 =** PS030479.D **CF 1500 =** PS030480.D

| COMPOUND | CF 200 | CF 500 | CF 750 | CF 1000 | CF 1500 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 23444500000 | 20930200000 | 20252400000 | 19918900000 | 18779400000 | 20665100000 | 8 |
| 2,4-D | 4208920000 | 3650560000 | 3531620000 | 3494410000 | 3332550000 | 3643610000 | 9 |
| 2,4-DCAA | 4505990000 | 3745160000 | 3587820000 | 3627070000 | 3409690000 | 3775150000 | 11 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Instrument ID:** ECD_S **Calibration Date(s):** 06/04/2025 06/04/2025

**Calibration Times:** 11:19 12:55

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 200 =** PS030476.D **CF 500 =** PS030477.D

**CF 750 =** PS030478.D **CF 1000 =** PS030479.D **CF 1500 =** PS030480.D

| COMPOUND | CF 200 | CF 500 | CF 750 | CF 1000 | CF 1500 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 15627400000 | 13837500000 | 13337200000 | 13203400000 | 12578300000 | 13716700000 | 8 |
| 2,4-D | 1858730000 | 1575260000 | 1504430000 | 1488570000 | 1434610000 | 1572320000 | 11 |
| 2,4-DCAA | 1341960000 | 1066160000 | 1011260000 | 997042000 | 961634000 | 1075610000 | 14 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/04/2025 **Initial Calibration Date(s):** 06/04/2025 06/04/2025

**Continuing Calib Time:** 20:03 **Initial Calibration Time(s):** 11:19 12:55

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.37 | 7.37 | 7.27 | 7.47 | 0.01 |
| 2,4-D | 8.51 | 8.51 | 8.41 | 8.61 | 0.00 |
| 2,4,5-TP(Silvex) | 9.40 | 9.40 | 9.30 | 9.50 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/04/2025 **Initial Calibration Date(s):** 06/04/2025 06/04/2025

**Continuing Calib Time:** 20:03 **Initial Calibration Time(s):** 11:19 12:55

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.77 | 7.77 | 7.67 | 7.87 | 0.00 |
| 2,4-D | 9.03 | 9.03 | 8.93 | 9.13 | 0.00 |
| 2,4,5-TP(Silvex) | 9.94 | 9.94 | 9.84 | 10.04 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/04/2025 06/04/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 06/04/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS030497.D **Time Analyzed:** 20:03

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.398 | 9.304 | 9.504 | 724.280 | 712.500 | 1.7 |
| 2,4-D | 8.506 | 8.412 | 8.612 | 705.370 | 705.000 | 0.1 |
| 2,4-DCAA | 7.365 | 7.269 | 7.469 | 725.600 | 750.000 | -3.3 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/04/2025 06/04/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 06/04/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS030497.D **Time Analyzed:** 20:03

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.939 | 9.842 | 10.042 | 709.400 | 712.500 | -0.4 |
| 2,4-D | 9.032 | 8.934 | 9.134 | 695.700 | 705.000 | -1.3 |
| 2,4-DCAA | 7.772 | 7.674 | 7.874 | 722.520 | 750.000 | -3.7 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/05/2025 **Initial Calibration Date(s):** 06/04/2025 06/04/2025

**Continuing Calib Time:** 00:04 **Initial Calibration Time(s):** 11:19 12:55

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.36 | 7.37 | 7.27 | 7.47 | 0.01 |
| 2,4-D | 8.50 | 8.51 | 8.41 | 8.61 | 0.01 |
| 2,4,5-TP(Silvex) | 9.40 | 9.40 | 9.30 | 9.50 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/05/2025 **Initial Calibration Date(s):** 06/04/2025 06/04/2025

**Continuing Calib Time:** 00:04 **Initial Calibration Time(s):** 11:19 12:55

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.77 | 7.77 | 7.67 | 7.87 | 0.00 |
| 2,4-D | 9.03 | 9.03 | 8.93 | 9.13 | 0.00 |
| 2,4,5-TP(Silvex) | 9.94 | 9.94 | 9.84 | 10.04 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/04/2025 06/04/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 06/05/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS030506.D **Time Analyzed:** 00:04

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.396 | 9.304 | 9.504 | 710.030 | 712.500 | -0.3 |
| 2,4-D | 8.504 | 8.412 | 8.612 | 681.590 | 705.000 | -3.3 |
| 2,4-DCAA | 7.364 | 7.269 | 7.469 | 717.850 | 750.000 | -4.3 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/04/2025 06/04/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 06/05/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS030506.D **Time Analyzed:** 00:04

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.939 | 9.842 | 10.042 | 704.930 | 712.500 | -1.1 |
| 2,4-D | 9.032 | 8.934 | 9.134 | 692.970 | 705.000 | -1.7 |
| 2,4-DCAA | 7.772 | 7.674 | 7.874 | 719.760 | 750.000 | -4.0 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/05/2025 **Initial Calibration Date(s):** 06/04/2025 06/04/2025

**Continuing Calib Time:** 04:29 **Initial Calibration Time(s):** 11:19 12:55

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.36 | 7.37 | 7.27 | 7.47 | 0.01 |
| 2,4-D | 8.50 | 8.51 | 8.41 | 8.61 | 0.01 |
| 2,4,5-TP(Silvex) | 9.40 | 9.40 | 9.30 | 9.50 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Continuing Calib Date:** 06/05/2025 **Initial Calibration Date(s):** 06/04/2025 06/04/2025

**Continuing Calib Time:** 04:29 **Initial Calibration Time(s):** 11:19 12:55

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.77 | 7.77 | 7.67 | 7.87 | 0.00 |
| 2,4-D | 9.03 | 9.03 | 8.93 | 9.13 | 0.00 |
| 2,4,5-TP(Silvex) | 9.94 | 9.94 | 9.84 | 10.04 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/04/2025 06/04/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 06/05/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS030516.D **Time Analyzed:** 04:29

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.395 | 9.304 | 9.504 | 720.680 | 712.500 | 1.1 |
| 2,4-D | 8.504 | 8.412 | 8.612 | 697.490 | 705.000 | -1.1 |
| 2,4-DCAA | 7.364 | 7.269 | 7.469 | 713.260 | 750.000 | -4.9 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/04/2025 06/04/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 06/05/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS030516.D **Time Analyzed:** 04:29

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.939 | 9.842 | 10.042 | 709.690 | 712.500 | -0.4 |
| 2,4-D | 9.031 | 8.934 | 9.134 | 727.630 | 705.000 | 3.2 |
| 2,4-DCAA | 7.772 | 7.674 | 7.874 | 709.210 | 750.000 | -5.4 |

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# Analytical Sequence

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Project:** Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_S

**GC Column:** RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/04/2025 06/04/2025

**THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:**

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCAA RT # | RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 06/04/2025 | 10:55 | PS030475.D | 7.37 | 0.00 |
| HSTDICC200 | HSTDICC200 | 06/04/2025 | 11:19 | PS030476.D | 7.37 | 0.00 |
| HSTDICC500 | HSTDICC500 | 06/04/2025 | 11:43 | PS030477.D | 7.37 | 0.00 |
| HSTDICC750 | HSTDICC750 | 06/04/2025 | 12:07 | PS030478.D | 7.37 | 0.00 |
| HSTDICC1000 | HSTDICC1000 | 06/04/2025 | 12:31 | PS030479.D | 7.37 | 0.00 |
| HSTDICC1500 | HSTDICC1500 | 06/04/2025 | 12:55 | PS030480.D | 7.37 | 0.00 |
| I.BLK | I.BLK | 06/04/2025 | 19:39 | PS030496.D | 7.37 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 06/04/2025 | 20:03 | PS030497.D | 7.37 | 0.00 |
| OR-400-CF-402B-COMP-23MS | Q2173-06MS | 06/04/2025 | 20:51 | PS030498.D | 7.36 | 0.00 |
| OR-400-CF-402B-COMP-23MSD | Q2173-06MSD | 06/04/2025 | 21:15 | PS030499.D | 7.36 | 0.00 |
| I.BLK | I.BLK | 06/04/2025 | 23:40 | PS030505.D | 7.36 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 06/05/2025 | 00:04 | PS030506.D | 7.36 | 0.00 |
| B-187-SB01 | Q2177-03 | 06/05/2025 | 00:52 | PS030507.D | 7.36 | 0.00 |
| B-187-SB02 | Q2177-05 | 06/05/2025 | 01:16 | PS030508.D | 7.36 | 0.00 |
| B-202-SB01 | Q2177-07 | 06/05/2025 | 01:40 | PS030509.D | 7.36 | 0.00 |
| PB168263BL | PB168263BL | 06/05/2025 | 02:04 | PS030510.D | 7.36 | 0.00 |
| PB168263BS | PB168263BS | 06/05/2025 | 02:28 | PS030511.D | 7.36 | 0.00 |
| PB168224TB | PB168224TB | 06/05/2025 | 02:53 | PS030512.D | 7.36 | 0.00 |
| I.BLK | I.BLK | 06/05/2025 | 04:05 | PS030515.D | 7.36 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 06/05/2025 | 04:29 | PS030516.D | 7.36 | 0.00 |

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

# Analytical Sequence

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Project:** Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_S

**GC Column:** RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/04/2025 06/04/2025

**THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:**

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCAA RT # | RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 06/04/2025 | 10:55 | PS030475.D | 7.77 | 0.00 |
| HSTDICC200 | HSTDICC200 | 06/04/2025 | 11:19 | PS030476.D | 7.77 | 0.00 |
| HSTDICC500 | HSTDICC500 | 06/04/2025 | 11:43 | PS030477.D | 7.77 | 0.00 |
| HSTDICC750 | HSTDICC750 | 06/04/2025 | 12:07 | PS030478.D | 7.77 | 0.00 |
| HSTDICC1000 | HSTDICC1000 | 06/04/2025 | 12:31 | PS030479.D | 7.77 | 0.00 |
| HSTDICC1500 | HSTDICC1500 | 06/04/2025 | 12:55 | PS030480.D | 7.77 | 0.00 |
| I.BLK | I.BLK | 06/04/2025 | 19:39 | PS030496.D | 7.77 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 06/04/2025 | 20:03 | PS030497.D | 7.77 | 0.00 |
| OR-400-CF-402B-COMP-23MS | Q2173-06MS | 06/04/2025 | 20:51 | PS030498.D | 7.77 | 0.00 |
| OR-400-CF-402B-COMP-23MSD | Q2173-06MSD | 06/04/2025 | 21:15 | PS030499.D | 7.77 | 0.00 |
| I.BLK | I.BLK | 06/04/2025 | 23:40 | PS030505.D | 7.77 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 06/05/2025 | 00:04 | PS030506.D | 7.77 | 0.00 |
| B-187-SB01 | Q2177-03 | 06/05/2025 | 00:52 | PS030507.D | 7.77 | 0.00 |
| B-187-SB02 | Q2177-05 | 06/05/2025 | 01:16 | PS030508.D | 7.77 | 0.00 |
| B-202-SB01 | Q2177-07 | 06/05/2025 | 01:40 | PS030509.D | 7.77 | 0.00 |
| PB168263BL | PB168263BL | 06/05/2025 | 02:04 | PS030510.D | 7.77 | 0.00 |
| PB168263BS | PB168263BS | 06/05/2025 | 02:28 | PS030511.D | 7.77 | 0.00 |
| PB168224TB | PB168224TB | 06/05/2025 | 02:53 | PS030512.D | 7.77 | 0.00 |
| I.BLK | I.BLK | 06/05/2025 | 04:05 | PS030515.D | 7.77 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 06/05/2025 | 04:29 | PS030516.D | 7.77 | 0.00 |

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Fax : 908 789 8922

## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**OR-400-CF-402B-COMP-23MS**

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Lab Sample ID:** Q2173-06MS **Date(s) Analyzed:** 06/04/2025 06/04/2025

**Instrument ID (1):** ECD_S **Instrument ID (2):** ECD_S

**GC Column: (1):** RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| 2,4-D | 1 | 8.51 | 8.46 | 8.56 | 50.6 | 12.4 |
| | 2 | 9.03 | 8.98 | 9.08 | 44.7 | |
| 2,4,5-TP(Silvex) | 1 | 9.40 | 9.35 | 9.45 | 49.0 | 6.5 |
| | 2 | 9.94 | 9.89 | 9.99 | 45.9 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**OR-400-CF-402B-COMP-23MSD**

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Lab Sample ID:** Q2173-06MSD **Date(s) Analyzed:** 06/04/2025 06/04/2025

**Instrument ID (1):** ECD_S **Instrument ID (2):** ECD_S

**GC Column: (1):** RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| 2,4-D | 1 | 8.51 | 8.46 | 8.56 | 49.8 | 16.1 |
| | 2 | 9.03 | 8.98 | 9.08 | 42.4 | |
| 2,4,5-TP(Silvex) | 1 | 9.40 | 9.35 | 9.45 | 48.6 | 4.2 |
| | 2 | 9.94 | 9.89 | 9.99 | 46.6 | |

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

## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB168263BS**

**Contract:** PORT06

**Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177 **SDG NO.:** Q2177

**Lab Sample ID:** PB168263BS **Date(s) Analyzed:** 06/05/2025 06/05/2025

**Instrument ID (1):** ECD_S **Instrument ID (2):** ECD_S

**GC Column: (1):** RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| 2,4-D | 1 | 8.50 | 8.45 | 8.55 | 4.80 | 4.1 |
| | 2 | 9.03 | 8.98 | 9.08 | 5.00 | |
| 2,4,5-TP(Silvex) | 1 | 9.40 | 9.35 | 9.45 | 5.00 | 2 |
| | 2 | 9.94 | 9.89 | 9.99 | 4.90 | |

# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060425\
Data File : PS030512.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2025 02:53
Operator : AR\AJ
Sample : PB168224TB
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
PB168224TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 05:33:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.363 | 7.772 | 2275.7E6 | 520.7E6 | 602.803 | 484.121 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

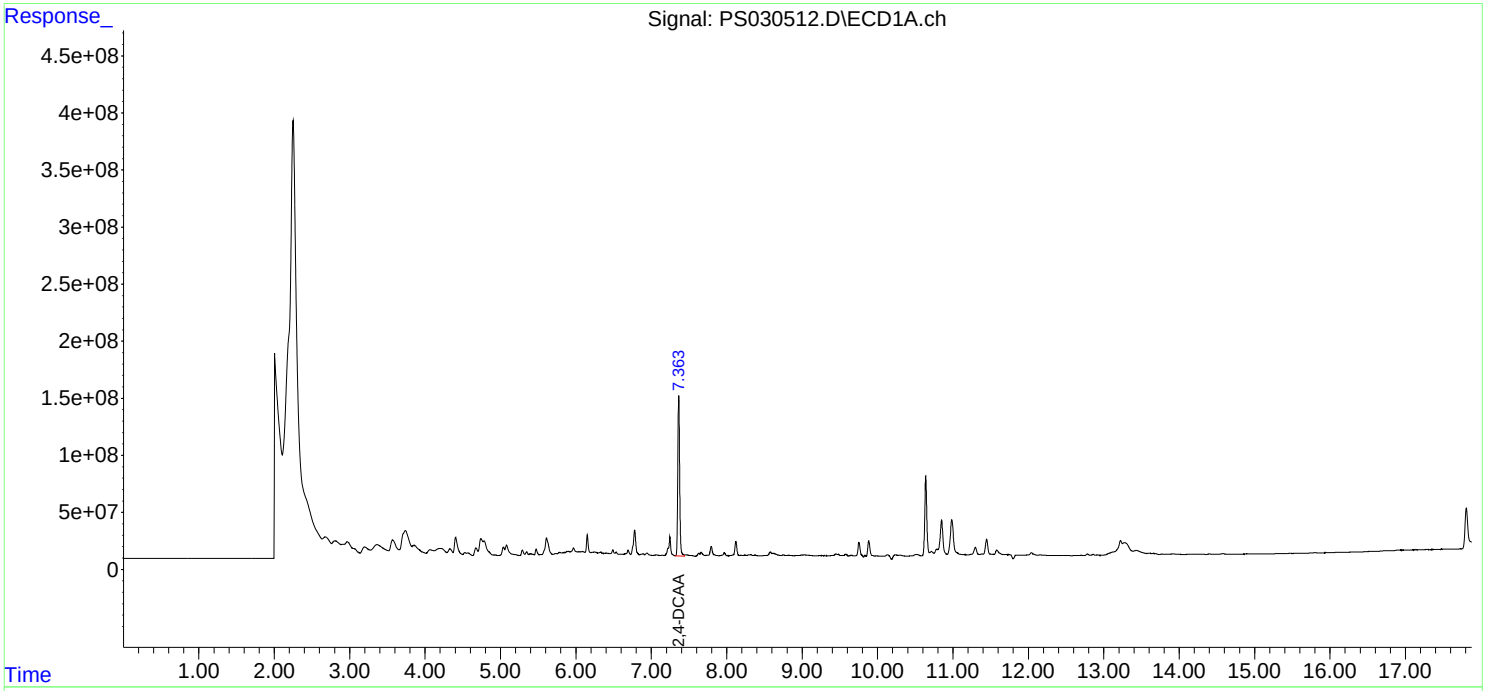
Sample Results: **PS030512.D**

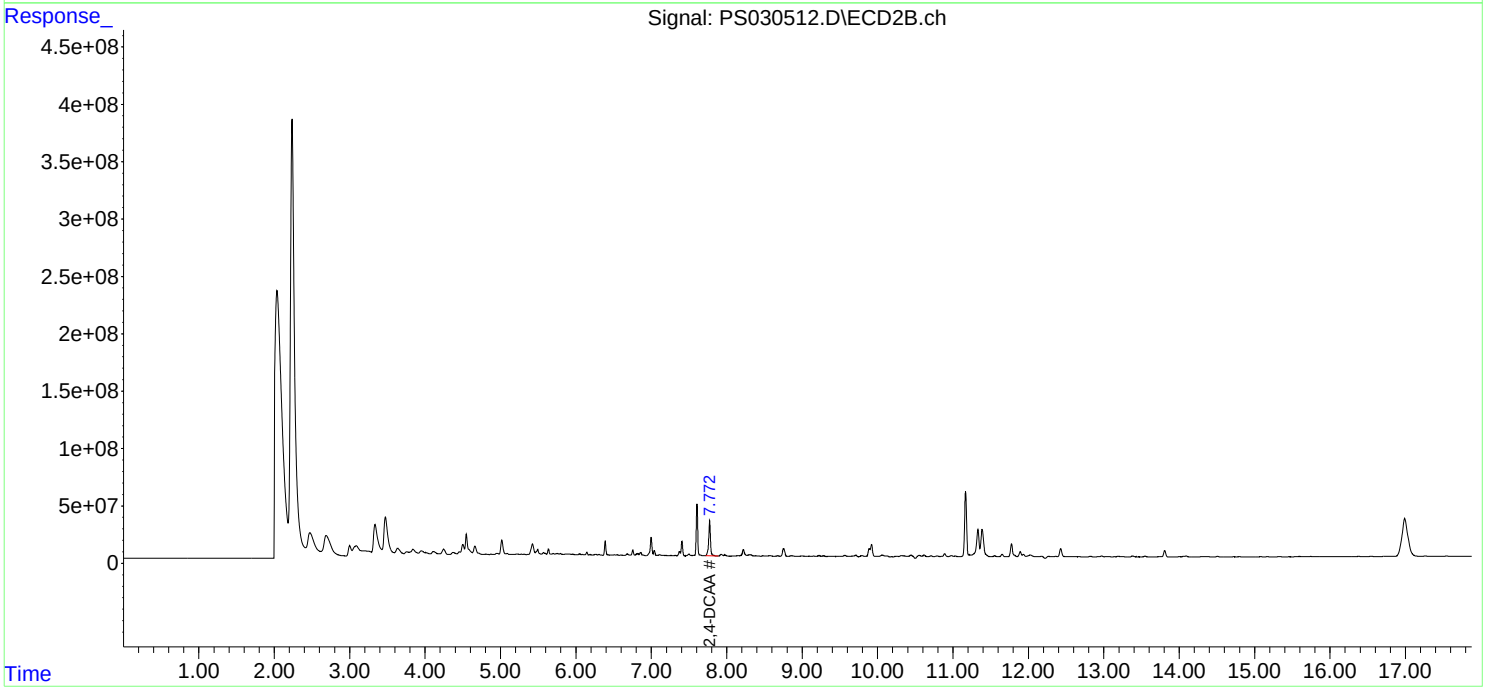
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060425\
Data File : PS030512.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2025 02:53
Operator : AR\AJ
Sample : PB168224TB
Misc :
ALS Vial : 26 Sample Multiplier: 1

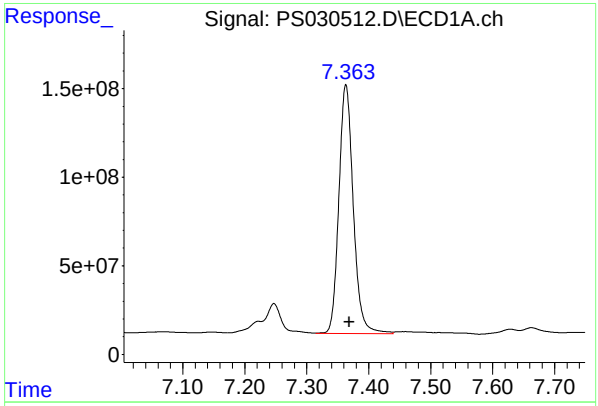
**Instrument :**
ECD_S
**ClientSampleId :**
PB168224TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 05:33:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



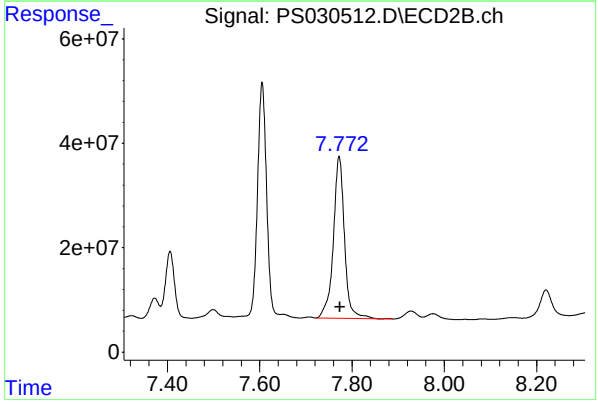






#4 2,4-DCAA

R.T.: 7.363 min
Delta R.T.: -0.006 mi
Response: 2275667047
Conc: 602.80 ng/m

**Instrument :**
ECD_S
**ClientSampleId :**
PB168224TB




#4 2,4-DCAA

R.T.: 7.772 min
Delta R.T.: -0.002 min
Response: 520725267
Conc: 484.12 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060425\
Data File : PS030507.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2025 00:52
Operator : AR\AJ
Sample : Q2177-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
B-187-SB01

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:42:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.364 | 7.772 | 1835.4E6 | 442.5E6 | 486.187 | 411.387m |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

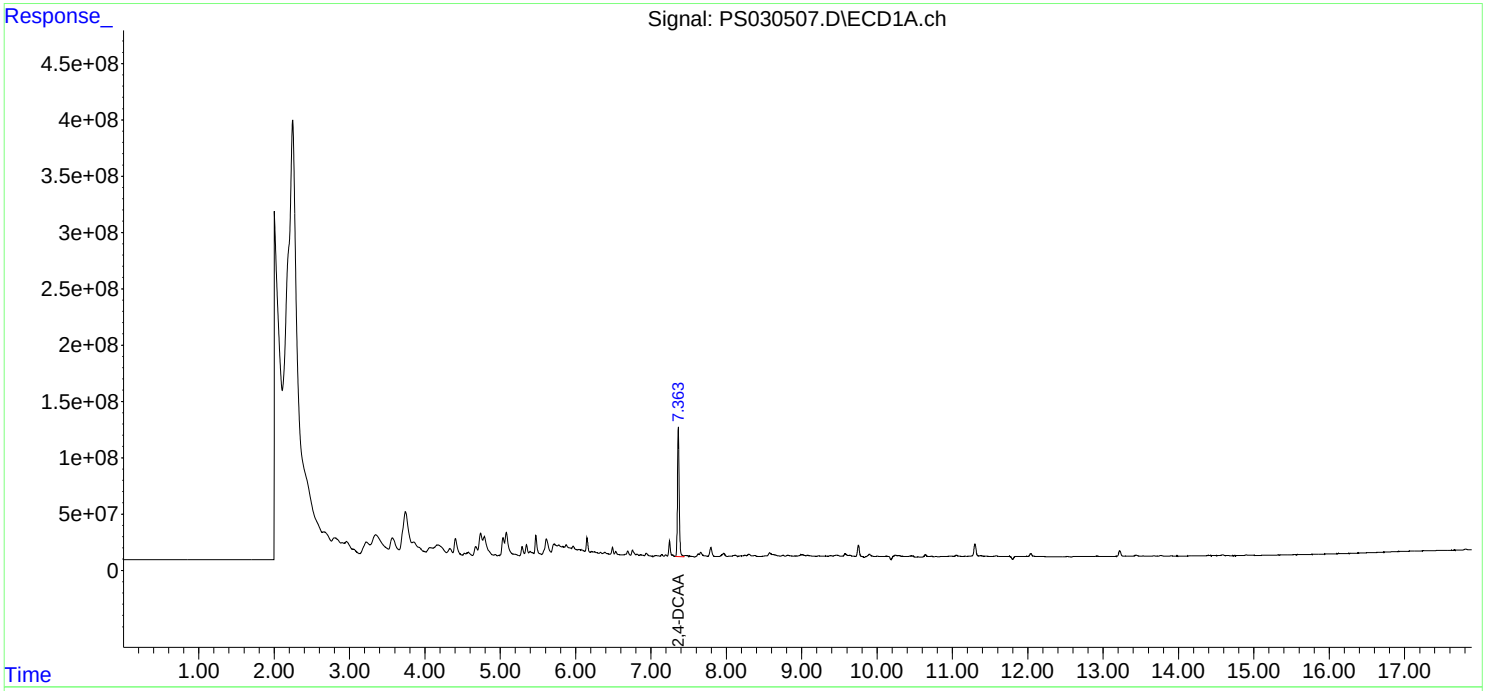
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060425\
Data File : PS030507.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2025 00:52
Operator : AR\AJ
Sample : Q2177-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

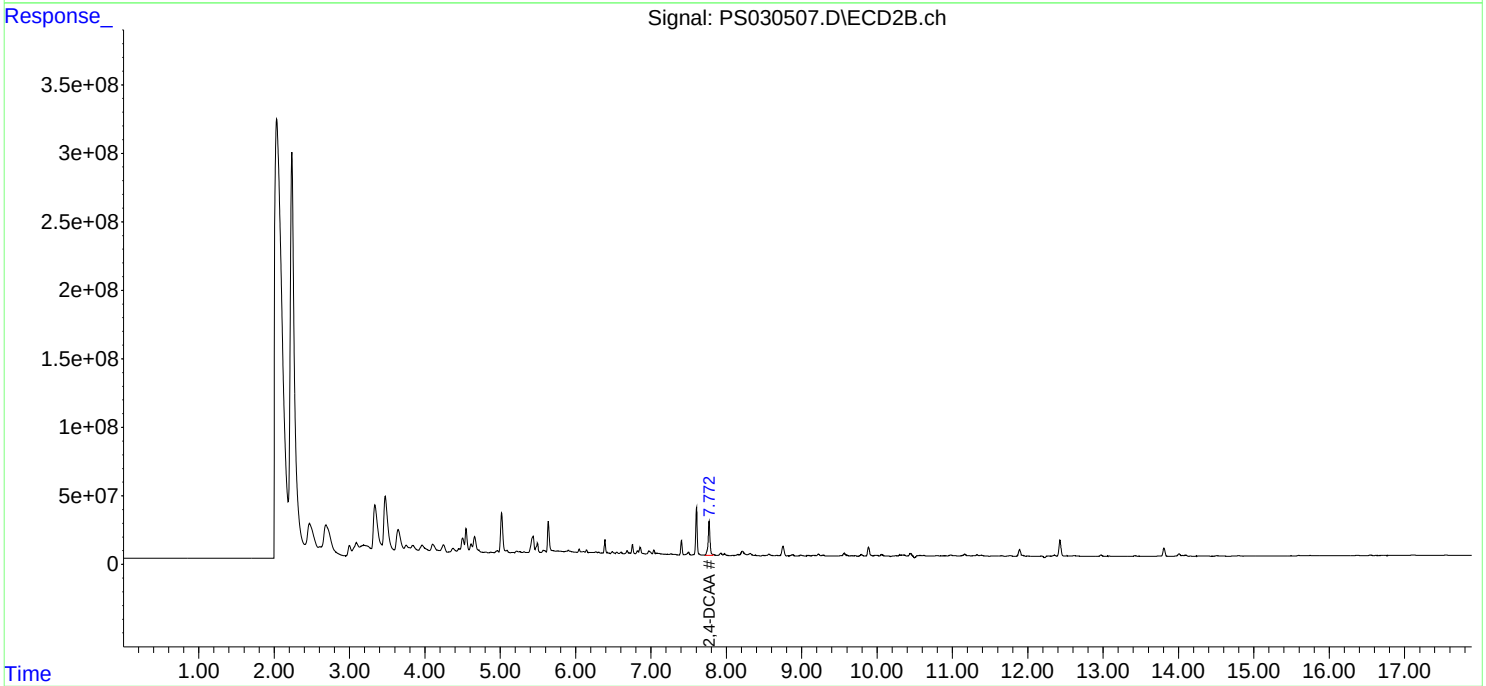
**Instrument :**
ECD_S
**ClientSampleId :**
B-187-SB01

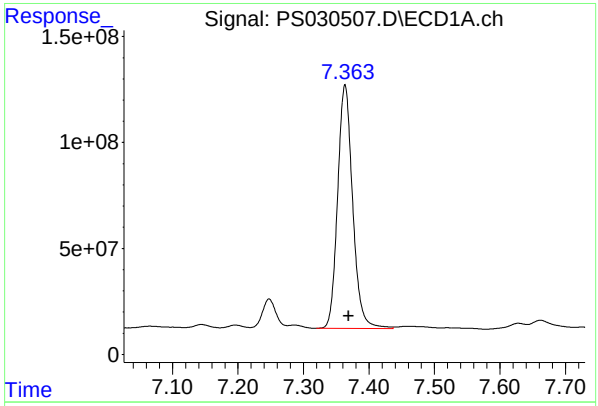
**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:42:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





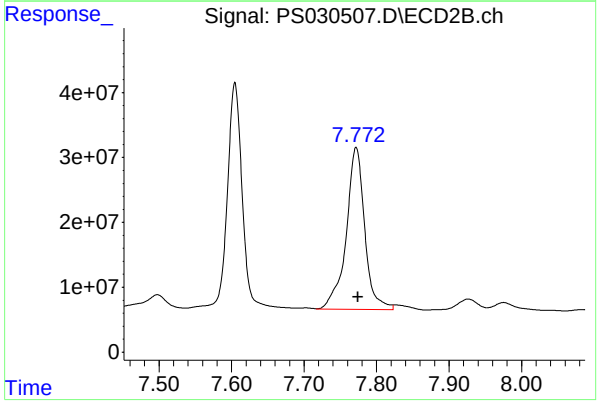

#4 2,4-DCAA

R.T.: 7.364 min
Delta R.T.: -0.005 min
Response: 1835426921
Conc: 486.19 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
B-187-SB01

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 06/05/2025
Supervised By :mohammad ahmed 06/06/2025




#4 2,4-DCAA

R.T.: 7.772 min
Delta R.T.: -0.003 min
Response: 442492542
Conc: 411.39 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060425\
Data File : PS030508.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2025 01:16
Operator : AR\AJ
Sample : Q2177-05
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
B-187-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 05:32:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.363 | 7.771 | 1653.0E6 | 440.0E6 | 437.875 | 409.047 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

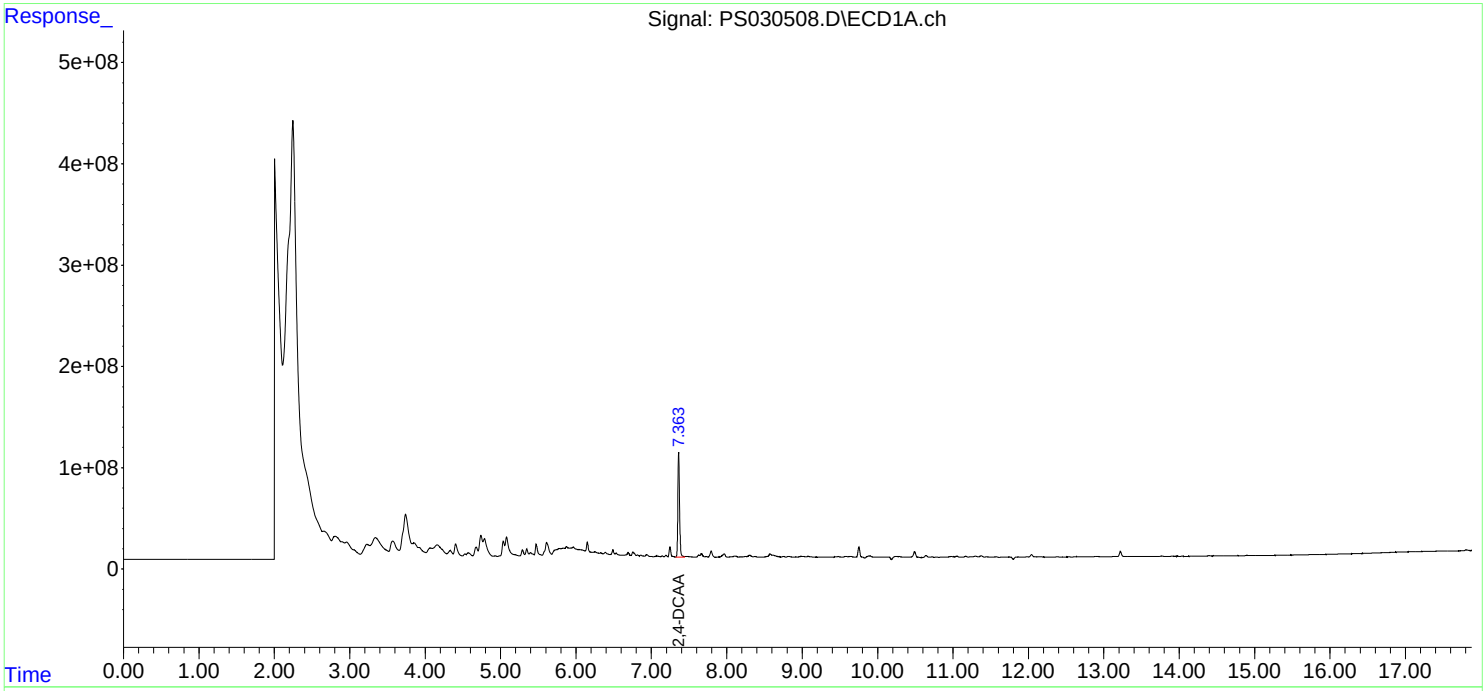
Sample Results: **PS030508.D**

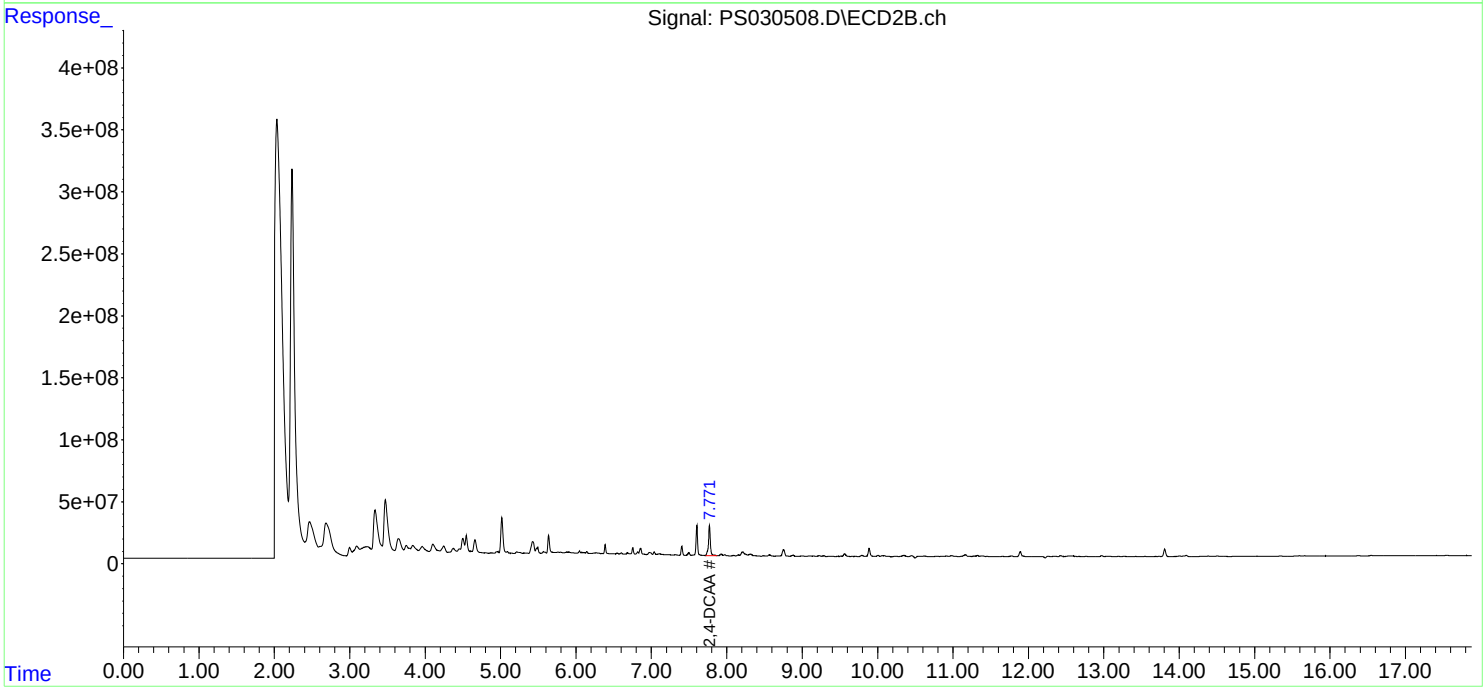
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060425\
Data File : PS030508.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2025 01:16
Operator : AR\AJ
Sample : Q2177-05
Misc :
ALS Vial : 22 Sample Multiplier: 1

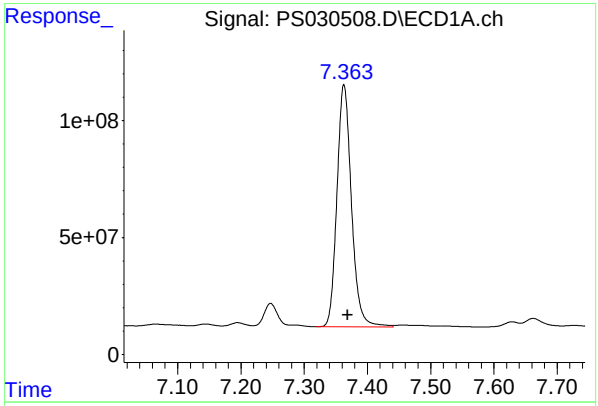
**Instrument :**
ECD_S
**ClientSampleId :**
B-187-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 05:32:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



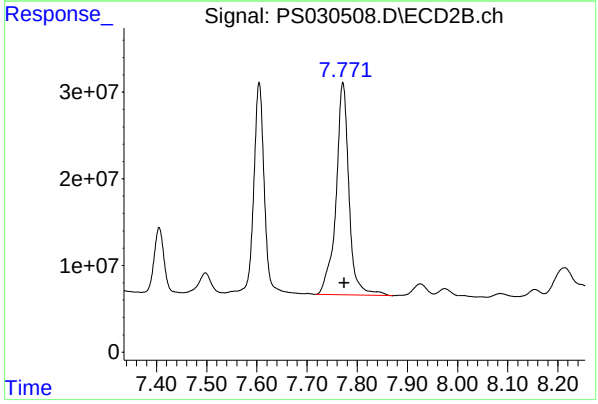






#4 2,4-DCAA

R.T.: 7.363 min
Delta R.T.: -0.006 min
Response: 1653041824
Conc: 437.88 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
B-187-SB02




#4 2,4-DCAA

R.T.: 7.771 min
Delta R.T.: -0.003 min
Response: 439975322
Conc: 409.05 ng/ml

A B C D E F G H I J K L

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060425\
Data File : PS030509.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2025 01:40
Operator : AR\AJ
Sample : Q2177-07
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
B-202-SB01

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 05:32:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.364 | 7.771 | 1750.3E6 | 457.6E6 | 463.646 | 425.454m |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

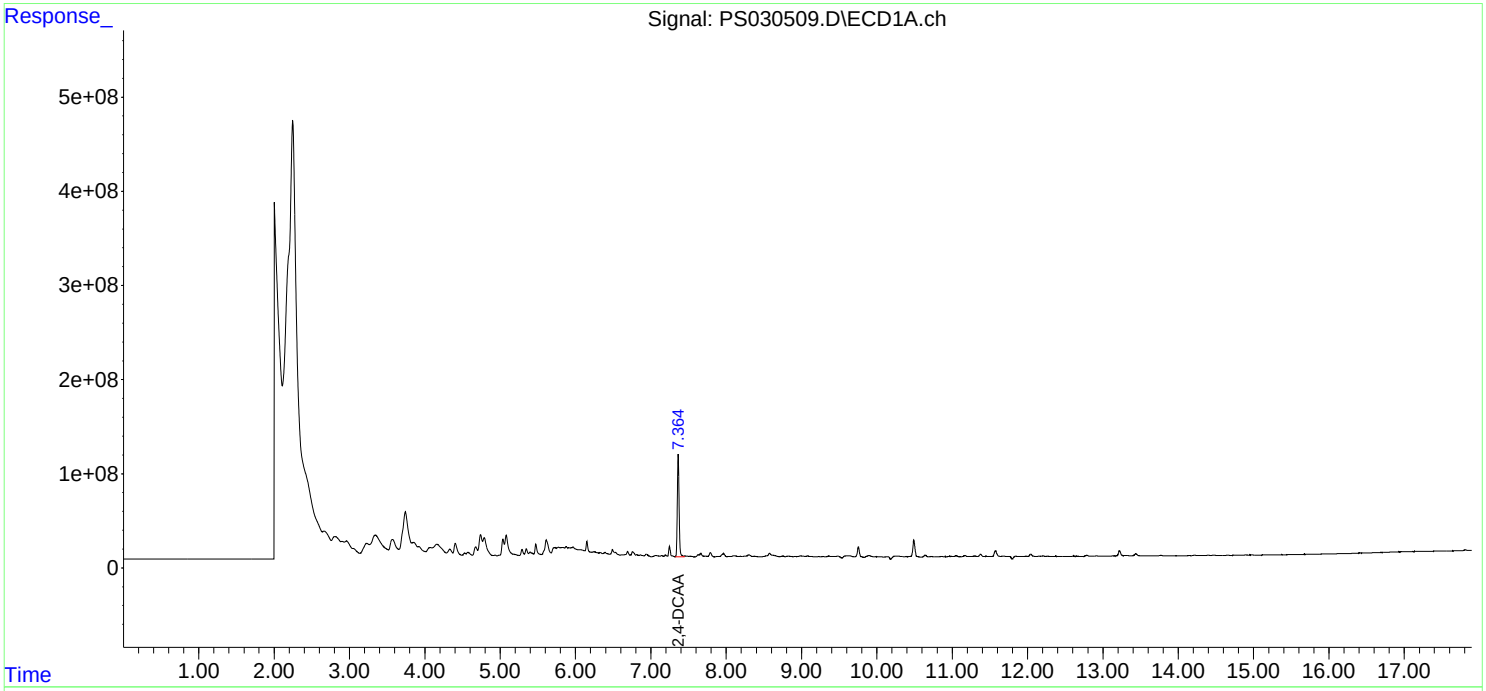
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060425\
Data File : PS030509.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2025 01:40
Operator : AR\AJ
Sample : Q2177-07
Misc :
ALS Vial : 23 Sample Multiplier: 1

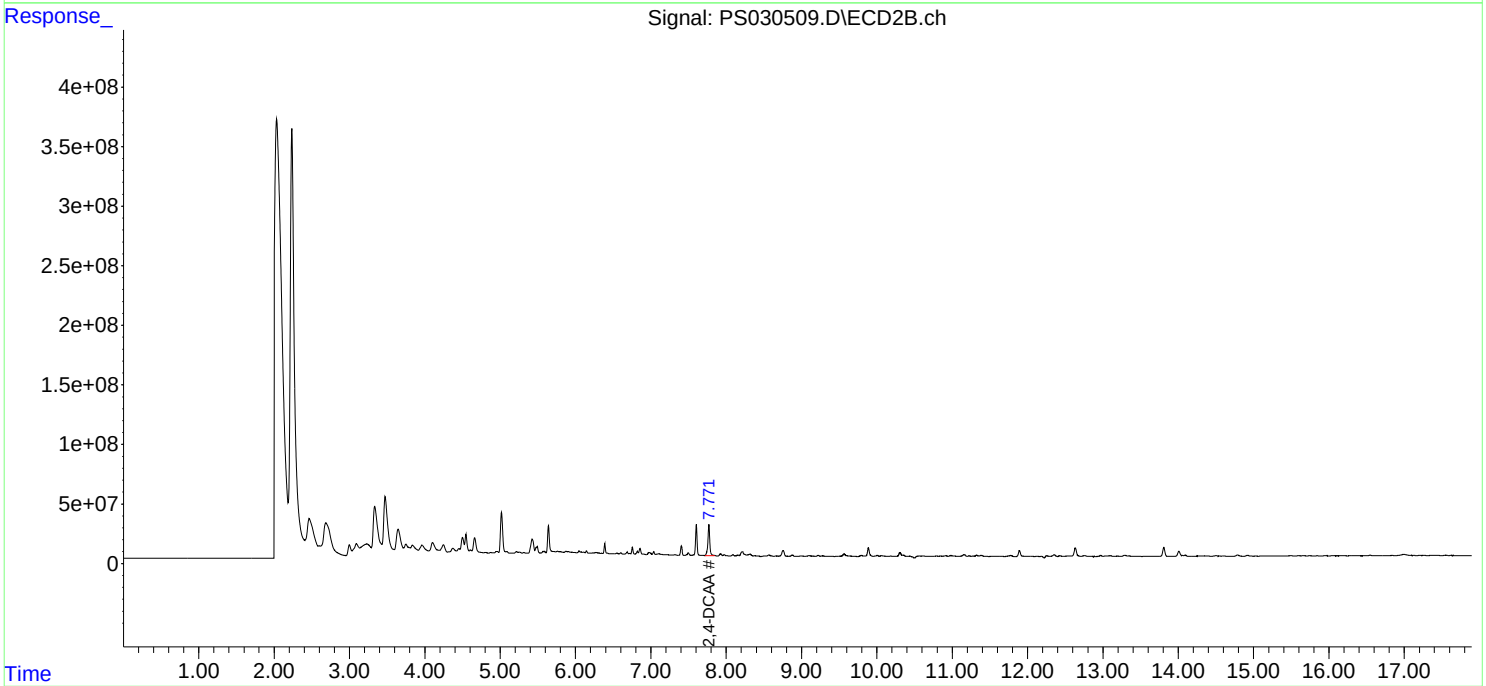
**Instrument :**
ECD_S
**ClientSampleId :**
B-202-SB01

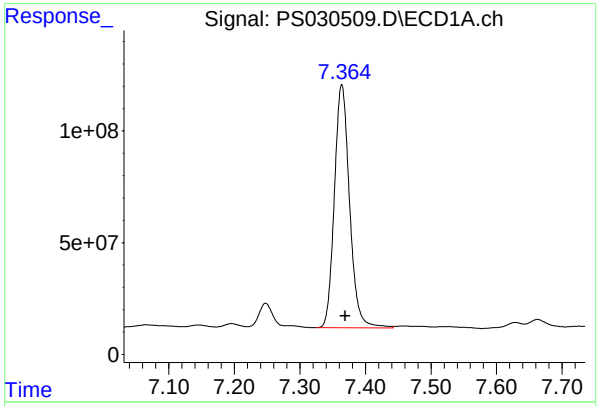
**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 05:32:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





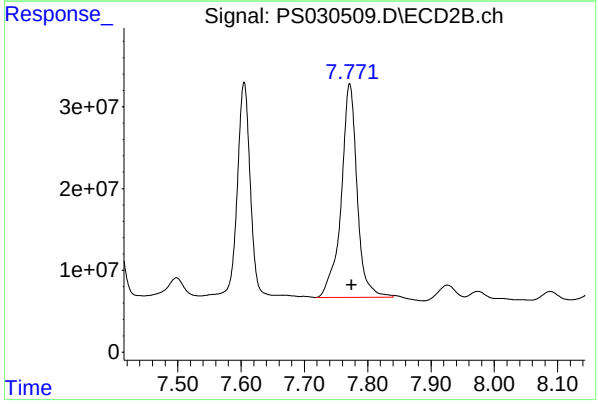

#4 2,4-DCAA

R.T.: 7.364 min
Delta R.T.: -0.005 mi
Response: 1750330467
Conc: 463.65 ng/m

**Instrument :**
ECD_S
**ClientSampleId :**
B-202-SB01

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 06/05/2025
Supervised By :mohammad ahmed 06/06/2025




#4 2,4-DCAA

R.T.: 7.771 min
Delta R.T.: -0.003 min
Response: 457623057
Conc: 425.45 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060425\
Data File : PS030510.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2025 02:04
Operator : AR\AJ
Sample : PB168263BL
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
PB168263BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 05:32:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.364 | 7.772 | 1639.8E6 | 507.5E6 | 434.369 | 471.841 |
| | Target Compounds | | | | | | |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

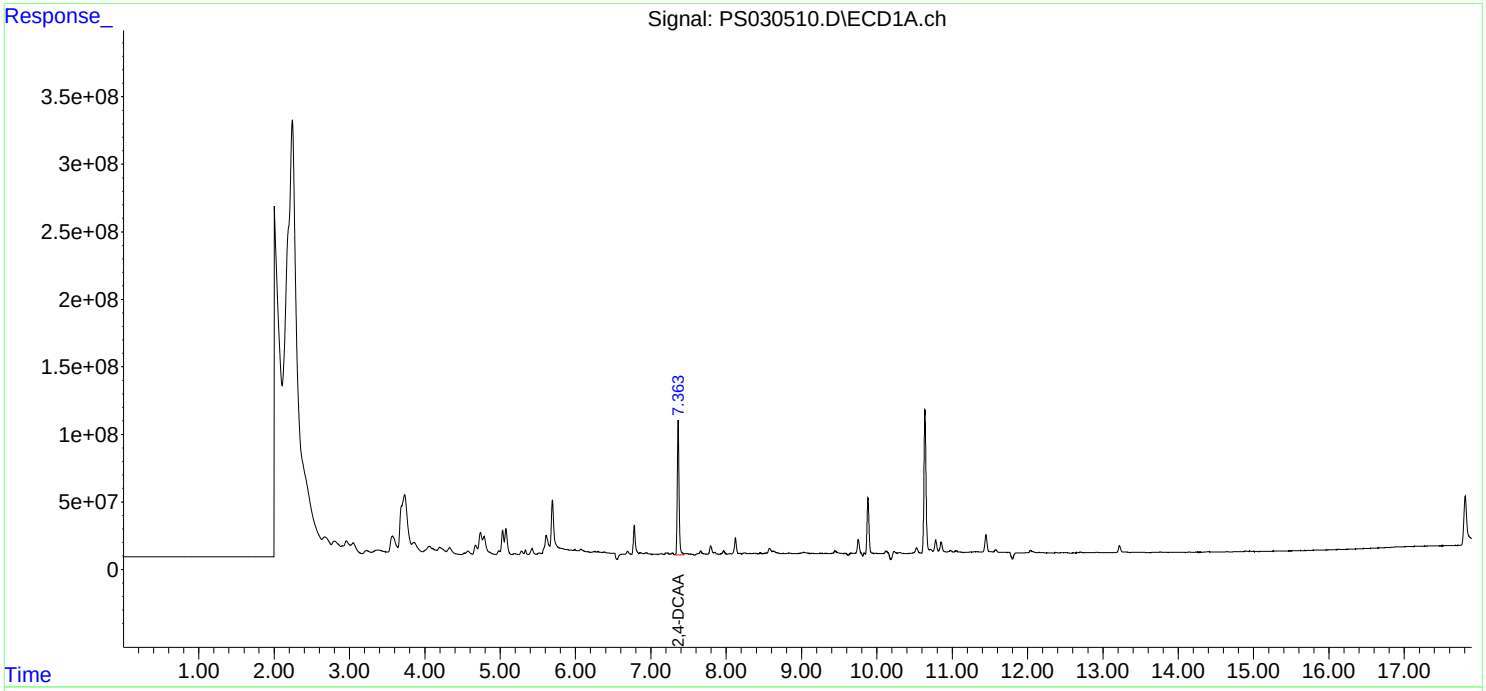
Sample Results: **PS030510.D**

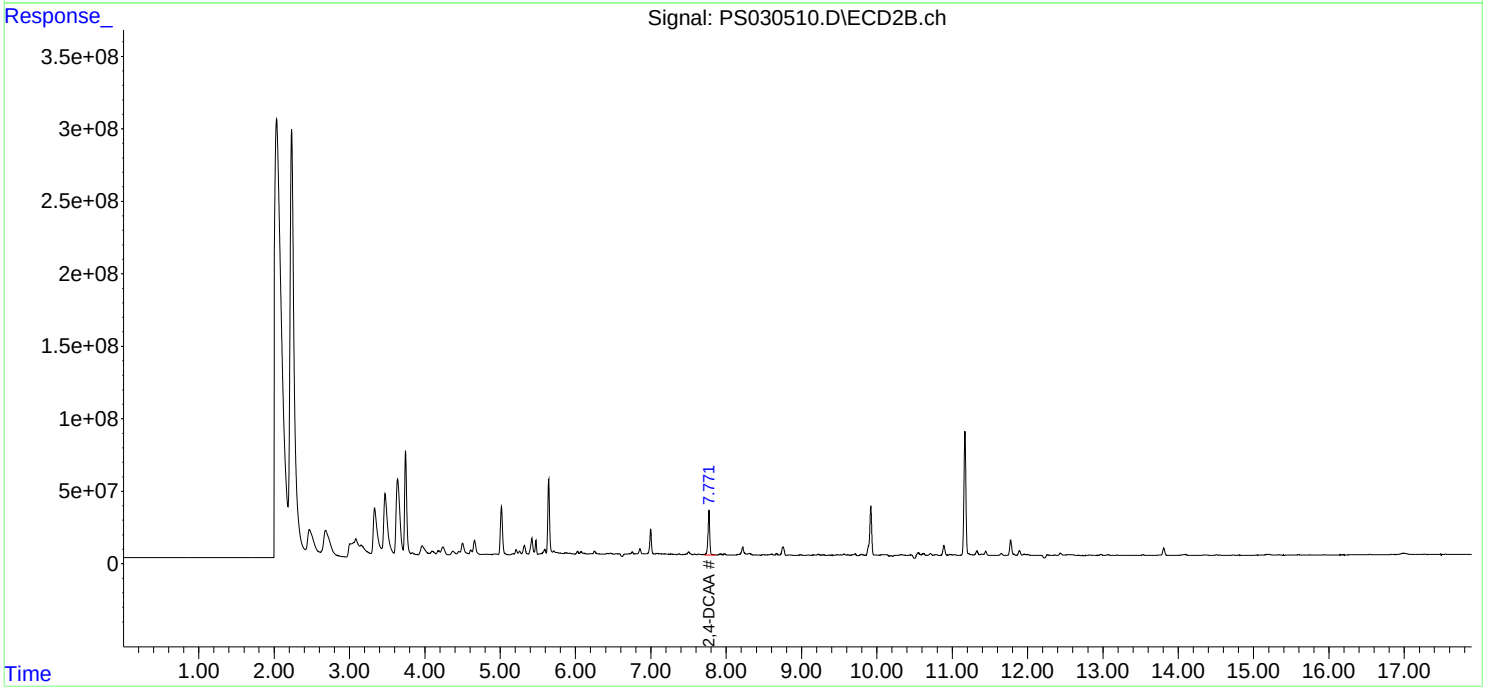
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060425\
Data File : PS030510.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2025 02:04
Operator : AR\AJ
Sample : PB168263BL
Misc :
ALS Vial : 24 Sample Multiplier: 1

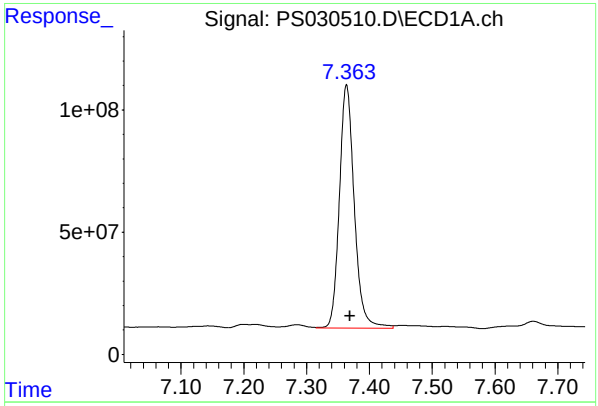
**Instrument :**
ECD_S
**ClientSampleId :**
PB168263BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 05:32:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



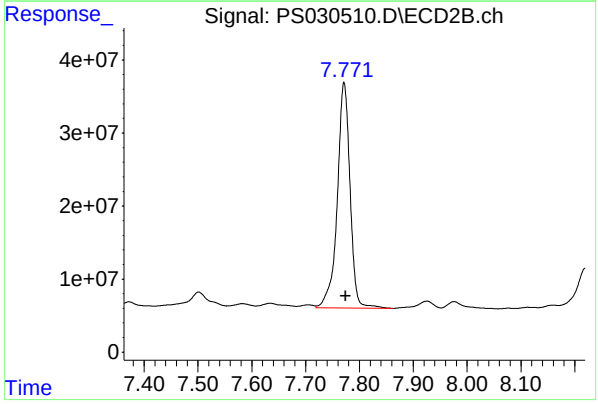






#4 2,4-DCAA

R.T.: 7.364 min
Delta R.T.: -0.005 min
Response: 1639807752
Conc: 434.37 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
PB168263BL




#4 2,4-DCAA

R.T.: 7.772 min
Delta R.T.: -0.003 min
Response: 507516852
Conc: 471.84 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060425\
Data File : PS030511.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2025 02:28
Operator : AR\AJ
Sample : PB168263BS
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
PB168263BS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 05:32:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

| | | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|---|
| | | System Monitoring Compounds | | | | | | |
| 4) | S | 2,4-DCAA | 7.364 | 7.772 | 1925.7E6 | 544.7E6 | 510.093m | 506.410 |
| | | Target Compounds | | | | | | |
| 1) | T | Dalapon | 2.712 | 2.711 | 2596.0E6 | 1220.2E6 | 459.714 | 445.328 |
| 2) | T | 3,5-DICHL... | 6.520 | 6.716 | 2659.9E6 | 742.5E6 | 490.177 | 474.690 |
| 3) | T | 4-Nitroph... | 7.163 | 7.302 | 855.6E6 | 727.5E6 | 466.562 | 464.208 |
| 5) | T | DICAMBA | 7.556 | 7.976 | 7599.7E6 | 3089.9E6 | 492.765 | 479.681 |
| 6) | T | MCPP | 7.737 | 8.074 | 433.1E6 | 109.3E6 | 43.724 | 47.290 |
| 7) | T | MCPA | 7.887 | 8.322 | 578.5E6 | 148.3E6 | 45.586 | 48.064m |
| 8) | T | DICHLORPROP | 8.272 | 8.696 | 1769.1E6 | 715.0E6 | 486.261 | 481.711 |
| 9) | T | 2,4-D | 8.504 | 9.032 | 1741.9E6 | 781.5E6 | 478.056 | 497.007 |
| 10) | T | Pentachlo... | 8.813 | 9.559 | 27535.8E6 | 18191.2E6 | 542.190 | 503.382 |
| 11) | T | 2,4,5-TP ... | 9.396 | 9.939 | 10338.3E6 | 6691.4E6 | 500.281 | 487.827 |
| 12) | T | 2,4,5-T | 9.690 | 10.365 | 8844.2E6 | 6368.0E6 | 479.855 | 487.702 |
| 13) | T | 2,4-DB | 10.271 | 10.933 | 1363.3E6 | 550.9E6 | 448.990 | 479.217 |
| 14) | T | DINOSEB | 11.493 | 11.318 | 7061.9E6 | 4795.8E6 | 491.267 | 477.191 |
| 15) | T | Picloram | 11.298 | 12.426 | 8118.5E6 | 10135.5E6 | 405.828 | 458.954m |
| 16) | T | DCPA | 11.789 | 12.362 | 13528.1E6 | 10229.0E6 | 511.651 | 499.880m |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

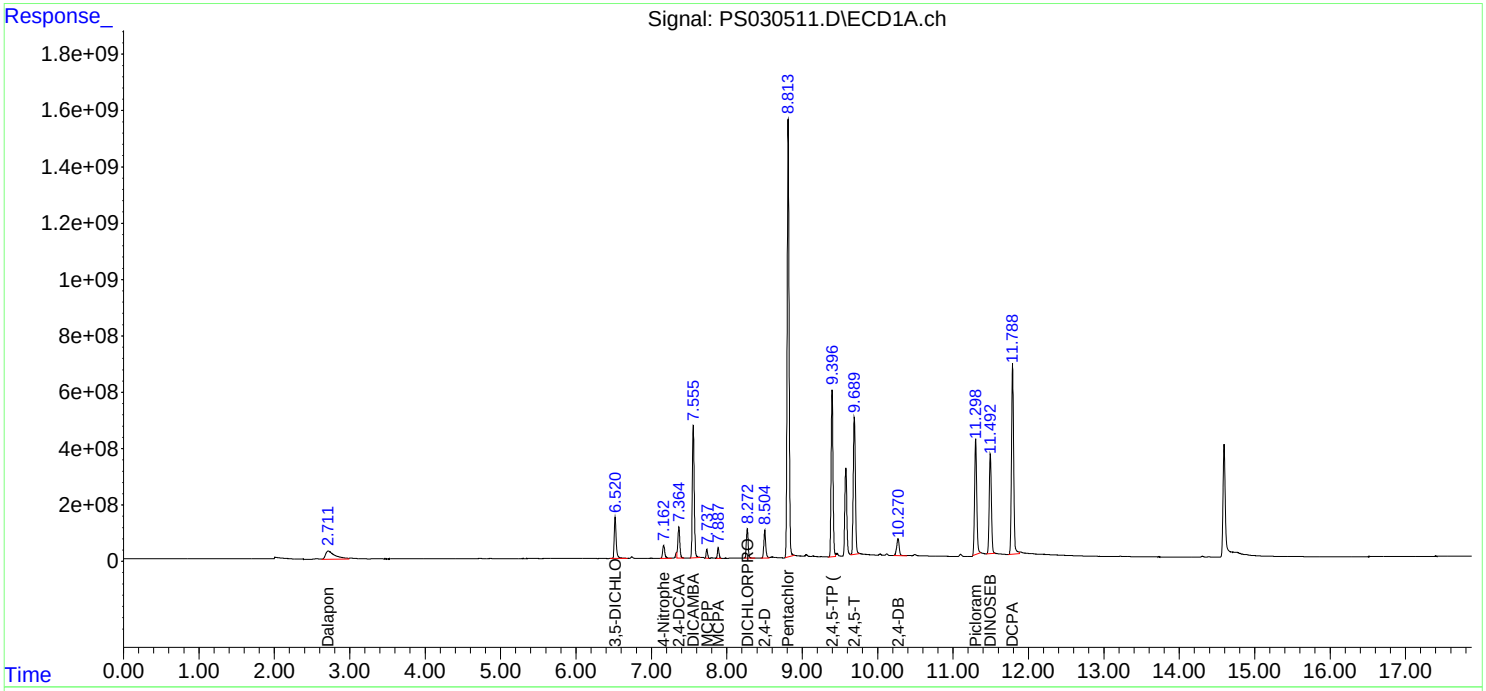
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060425\
Data File : PS030511.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2025 02:28
Operator : AR\AJ
Sample : PB168263BS
Misc :
ALS Vial : 25 Sample Multiplier: 1

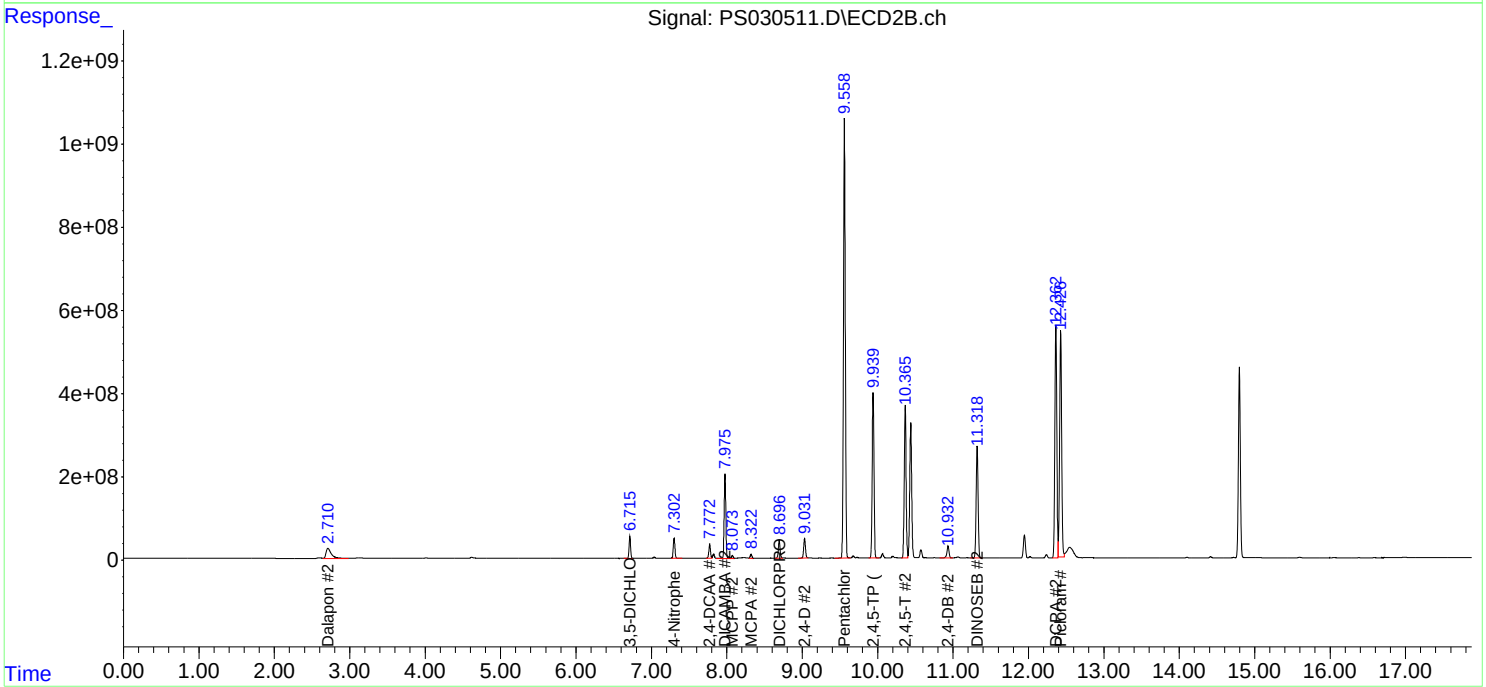
**Instrument :**
ECD_S
**ClientSampleId :**
PB168263BS

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 05:32:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060425\
Data File : PS030498.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 20:51
Operator : AR\AJ
Sample : Q2173-06MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
OR-400-CF-402B-COMP-23MS

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:40:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 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 0.25µm

| | | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|---|
| | | **System Monitoring Compounds** | | | | | | |
| 4) | S | 2,4-DCAA | 7.363 | 7.772 | 2396.9E6 | 482.8E6 | 634.903 | 448.861 # |
| | | **Target Compounds** | | | | | | |
| 1) | T | Dalapon | 2.709 | 2.707 | 594.4E6 | 3441.0E6 | 105.266m | 1255.837 # |
| 2) | T | 3,5-DICHL... | 6.520 | 6.715 | 2496.2E6 | 650.4E6 | 460.009m | 415.806m |
| 3) | T | 4-Nitroph... | 7.179 | 7.323 | 71028163 | 180.0E6 | 38.734 | 114.873 # |
| 5) | T | DICAMBA | 7.556 | 7.975 | 6210.4E6 | 2594.4E6 | 402.680 | 402.756m |
| 6) | T | MCPP | 7.738 | 8.074 | 344.3E6 | 77250197 | 34.759 | 33.419 |
| 7) | T | MCPA | 7.887 | 8.322 | 506.1E6 | 134.2E6 | 39.884m | 43.498m |
| 8) | T | DICHLORPROP | 8.272 | 8.696 | 1681.2E6 | 628.4E6 | 462.112 | 423.369 |
| 9) | T | 2,4-D | 8.506 | 9.031 | 1841.9E6 | 703.3E6 | 505.514 | 447.283 |
| 10) | T | Pentachlo... | 8.814 | 9.558 | 24488.5E6 | 15745.5E6 | 482.188 | 435.705 |
| 11) | T | 2,4,5-TP ... | 9.397 | 9.939 | 10124.5E6 | 6295.3E6 | 489.930 | 458.949 |
| 12) | T | 2,4,5-T | 9.692 | 10.365 | 8200.8E6 | 5776.6E6 | 444.945 | 442.407 |
| 13) | T | 2,4-DB | 10.273 | 10.932 | 1378.9E6 | 485.0E6 | 454.131 | 421.890 |
| 14) | T | DINOSEB | 11.495 | 11.319 | 5139.6E6 | 3354.6E6 | 357.538 | 333.791 |
| 15) | T | Picloram | 11.300 | 12.426 | 7693.0E6 | 8293.3E6 | 384.557 | 375.537 |
| 16) | T | DCPA | 11.789 | 12.362 | 10394.0E6 | 8718.7E6 | 393.114 | 426.072m |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060425\
Data File : PS030498.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 20:51
Operator : AR\AJ
Sample : Q2173-06MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

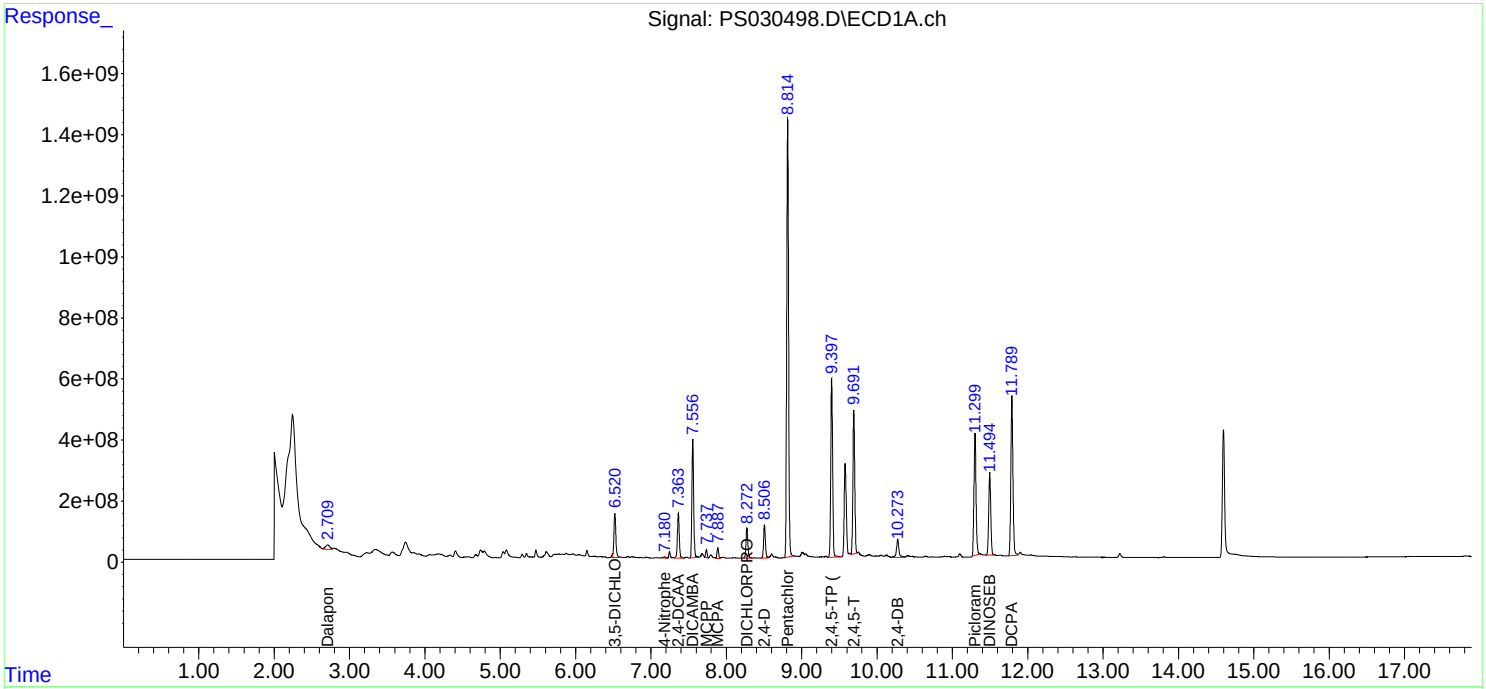
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:40:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

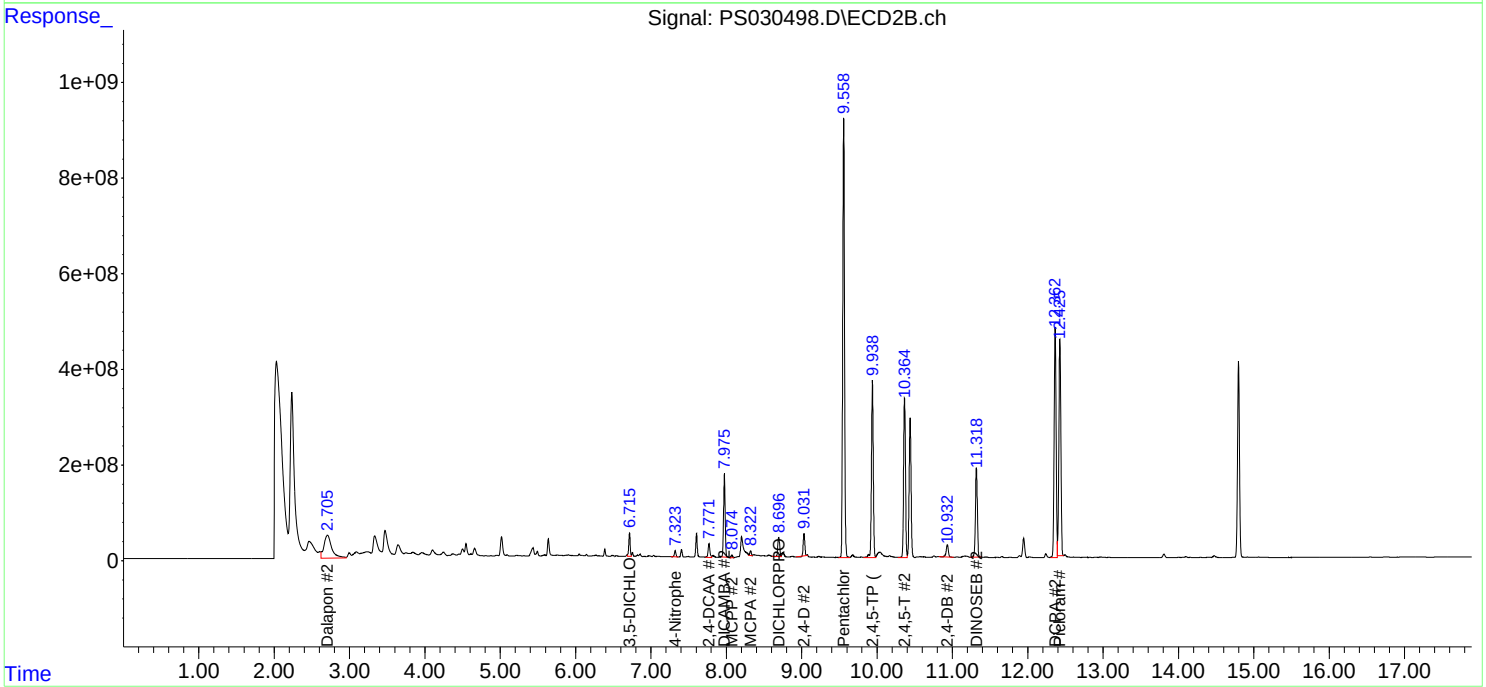
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

**Instrument :**
ECD_S
**ClientSampleId :**
OR-400-CF-402B-COMP-23MS

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 06/05/2025
Supervised By :mohammad ahmed 06/06/2025



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060425\
Data File : PS030499.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 21:15
Operator : AR\AJ
Sample : Q2173-06MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
OR-400-CF-402B-COMP-23MSD

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:40:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

| | | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|---|
| | | System Monitoring Compounds | | | | | | |
| 4) | S | 2,4-DCAA | 7.363 | 7.772 | 2327.1E6 | 477.8E6 | 616.424 | 444.210 # |
| | | Target Compounds | | | | | | |
| 1) | T | Dalapon | 2.708 | 2.708 | 502.7E6 | 3275.6E6 | 89.023m | 1195.463 # |
| 2) | T | 3,5-DICHL... | 6.521 | 6.715 | 2587.6E6 | 674.1E6 | 476.856 | 430.932m |
| 3) | T | 4-Nitroph... | 7.180 | 7.324 | 62653981 | 177.2E6 | 34.167 | 113.042 # |
| 5) | T | DICAMBA | 7.556 | 7.975 | 6141.6E6 | 2587.1E6 | 398.223 | 401.626m |
| 6) | T | MCPP | 7.738 | 8.074 | 344.4E6 | 76944842 | 34.775 | 33.287 |
| 7) | T | MCPA | 7.887 | 8.322 | 465.8E6 | 139.3E6 | 36.706m | 45.138m |
| 8) | T | DICHLORPROP | 8.272 | 8.696 | 1664.7E6 | 580.7E6 | 457.556 | 391.230 |
| 9) | T | 2,4-D | 8.505 | 9.032 | 1813.0E6 | 667.4E6 | 497.578 | 424.452 |
| 10) | T | Pentachlo... | 8.815 | 9.558 | 24170.3E6 | 15619.0E6 | 475.923 | 432.203 |
| 11) | T | 2,4,5-TP ... | 9.396 | 9.939 | 10032.9E6 | 6396.1E6 | 485.499 | 466.299 |
| 12) | T | 2,4,5-T | 9.691 | 10.365 | 8042.8E6 | 5746.4E6 | 436.370 | 440.093 |
| 13) | T | 2,4-DB | 10.273 | 10.932 | 1348.1E6 | 476.2E6 | 443.996 | 414.266 |
| 14) | T | DINOSEB | 11.495 | 11.318 | 5119.5E6 | 3367.3E6 | 356.144 | 335.047 |
| 15) | T | Picloram | 11.300 | 12.426 | 7424.9E6 | 8084.0E6 | 371.155 | 366.059 |
| 16) | T | DCPA | 11.789 | 12.362 | 10331.9E6 | 8632.3E6 | 390.768 | 421.850m |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

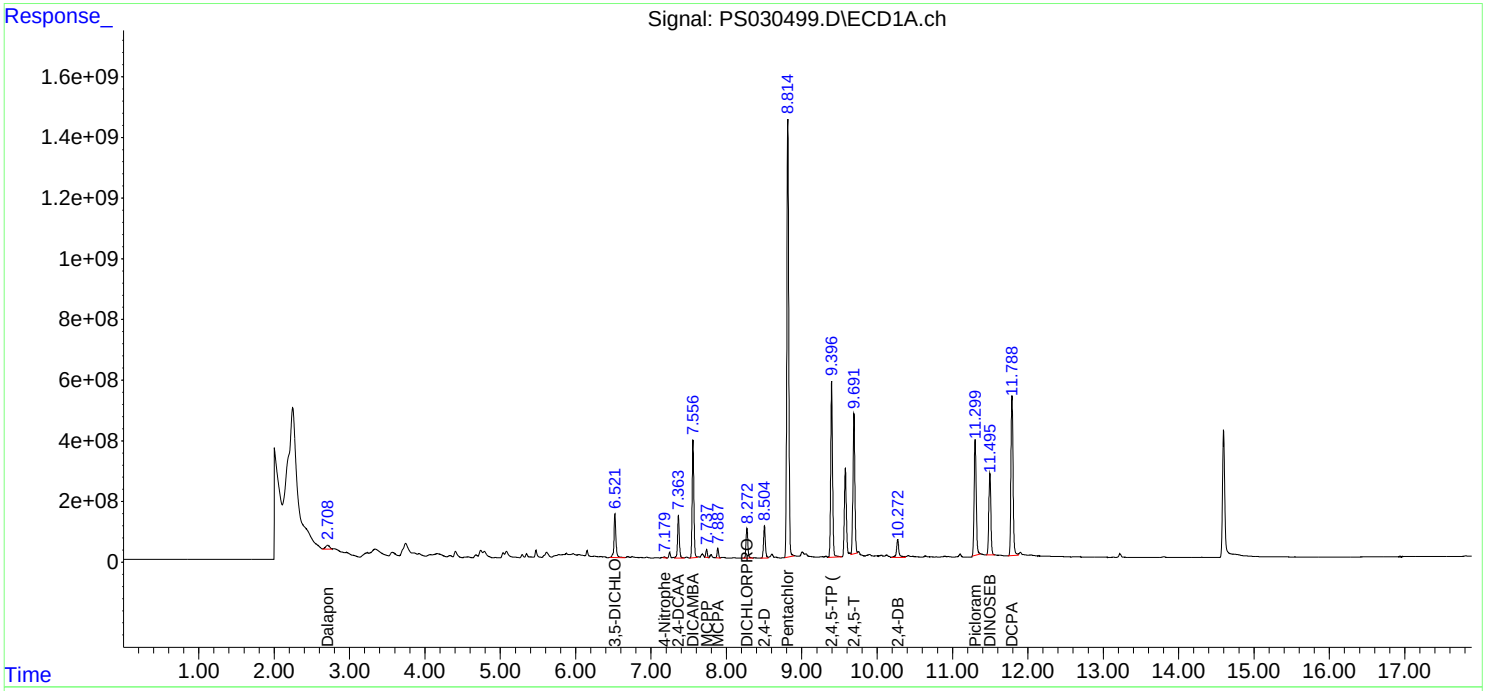
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060425\
Data File : PS030499.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 21:15
Operator : AR\AJ
Sample : Q2173-06MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

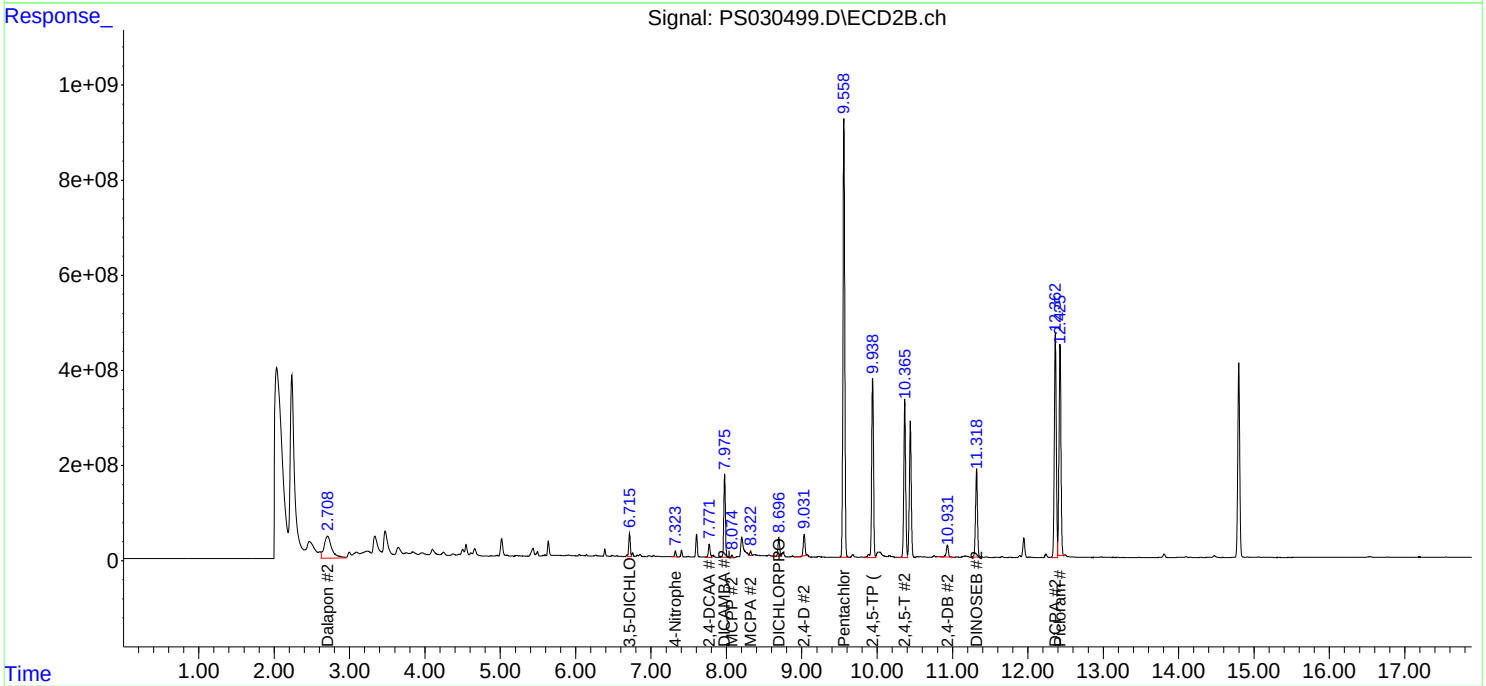
**Instrument :**
ECD_S
**ClientSampleId :**
OR-400-CF-402B-COMP-23MSD

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:40:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 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: | PS060425 | Instrument | ECD_s |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| HSTDICC200 | PS030476.D | 2,4-DCAA | Abdul | 6/5/2025 8:32:30 AM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDICC200 | PS030476.D | MCPA #2 | Abdul | 6/5/2025 8:32:30 AM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDICC500 | PS030477.D | 2,4-DCAA | Abdul | 6/5/2025 8:32:34 AM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDICC750 | PS030478.D | 2,4-DCAA | Abdul | 6/5/2025 8:32:37 AM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDICC1000 | PS030479.D | 2,4-DCAA | Abdul | 6/5/2025 8:32:40 AM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDICC1500 | PS030480.D | 2,4-DCAA | Abdul | 6/5/2025 8:32:44 AM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDICC1500 | PS030480.D | MCPA #2 | Abdul | 6/5/2025 8:32:44 AM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDICV750 | PS030481.D | 2,4-DCAA | Abdul | 6/5/2025 8:32:48 AM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDCCC750 | PS030483.D | 2,4-DCAA | Abdul | 6/5/2025 8:32:51 AM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDCCC750 | PS030483.D | MCPA #2 | Abdul | 6/5/2025 8:32:51 AM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDCCC750 | PS030489.D | 2,4-DB #2 | Abdul | 6/5/2025 8:33:07 AM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDCCC750 | PS030489.D | 2,4-DCAA | Abdul | 6/5/2025 8:33:07 AM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDCCC750 | PS030489.D | MCPA #2 | Abdul | 6/5/2025 8:33:07 AM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PS060425 | Instrument | ECD_s |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| HSTDCCC750 | PS030497.D | 2,4-DCAA | Abdul | 6/5/2025 3:53:26 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| Q2173-06MS | PS030498.D | 3,5-DICHLOROBENZOIC ACID | Abdul | 6/5/2025 3:53:35 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| Q2173-06MS | PS030498.D | 3,5-DICHLOROBENZOIC ACID #2 | Abdul | 6/5/2025 3:53:35 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| Q2173-06MS | PS030498.D | Dalapon | Abdul | 6/5/2025 3:53:35 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| Q2173-06MS | PS030498.D | DCPA #2 | Abdul | 6/5/2025 3:53:35 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| Q2173-06MS | PS030498.D | DICAMBA #2 | Abdul | 6/5/2025 3:53:35 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| Q2173-06MS | PS030498.D | MCPA | Abdul | 6/5/2025 3:53:35 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| Q2173-06MS | PS030498.D | MCPA #2 | Abdul | 6/5/2025 3:53:35 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| Q2173-06MSD | PS030499.D | 3,5-DICHLOROBENZOIC ACID #2 | Abdul | 6/5/2025 3:53:38 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| Q2173-06MSD | PS030499.D | Dalapon | Abdul | 6/5/2025 3:53:38 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| Q2173-06MSD | PS030499.D | DCPA #2 | Abdul | 6/5/2025 3:53:38 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| Q2173-06MSD | PS030499.D | DICAMBA #2 | Abdul | 6/5/2025 3:53:38 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| Q2173-06MSD | PS030499.D | MCPA | Abdul | 6/5/2025 3:53:38 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PS060425 | Instrument | ECD_s |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q2173-06MSD | PS030499.D | MCPA #2 | Abdul | 6/5/2025 3:53:38 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDCCC750 | PS030506.D | 2,4-DCAA | Abdul | 6/5/2025 11:55:40 AM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| Q2177-03 | PS030507.D | 2,4-DCAA #2 | Abdul | 6/5/2025 11:55:43 AM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| Q2177-07 | PS030509.D | 2,4-DCAA #2 | Abdul | 6/5/2025 11:55:47 AM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| PB168263BS | PS030511.D | 2,4-DCAA | Abdul | 6/5/2025 3:53:41 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| PB168263BS | PS030511.D | DCPA #2 | Abdul | 6/5/2025 3:53:41 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| PB168263BS | PS030511.D | MCPA #2 | Abdul | 6/5/2025 3:53:41 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| PB168263BS | PS030511.D | Picloram #2 | Abdul | 6/5/2025 3:53:41 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDCCC750 | PS030516.D | 2,4-D #2 | Abdul | 6/5/2025 3:54:14 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDCCC750 | PS030516.D | 2,4-DCAA | Abdul | 6/5/2025 3:54:14 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDCCC750 | PS030516.D | MCPA #2 | Abdul | 6/5/2025 3:54:14 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDCCC750 | PS030516.D | Picloram | Abdul | 6/5/2025 3:54:14 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDCCC750 | PS030526.D | 2,4-D #2 | Abdul | 6/5/2025 3:54:18 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PS060425 | Instrument | ECD_s |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| HSTDCCC750 | PS030526.D | 2,4-DCAA | Abdul | 6/5/2025 3:54:18 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDCCC750 | PS030526.D | DCPA #2 | Abdul | 6/5/2025 3:54:18 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDCCC750 | PS030526.D | MCPA #2 | Abdul | 6/5/2025 3:54:18 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |
| HSTDCCC750 | PS030526.D | Picloram | Abdul | 6/5/2025 3:54:18 PM | mohammad | 6/6/2025 2:02:33 | Peak Integrated by Software |

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**Instrument ID: ECD_S**

## Daily Analysis Runlog For Sequence/QCBatch ID # PS060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 6/5/2025 8:33:42 AM | | |
| Supervise By | mohammad | Supervise On | 6/6/2025 2:02:33 AM | | |
| SubDirectory | PS060425 | HP Acquire Method | | HP Processing Method | ps060425 8151 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560 |
| CCC | PP24559 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24562 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PS030474.D | 04 Jun 2025 10:31 | AR\AJ | Ok |
| 2 | I.BLK | PS030475.D | 04 Jun 2025 10:55 | AR\AJ | Ok |
| 3 | HSTDICC200 | PS030476.D | 04 Jun 2025 11:19 | AR\AJ | Ok,M |
| 4 | HSTDICC500 | PS030477.D | 04 Jun 2025 11:43 | AR\AJ | Ok,M |
| 5 | HSTDICC750 | PS030478.D | 04 Jun 2025 12:07 | AR\AJ | Ok,M |
| 6 | HSTDICC1000 | PS030479.D | 04 Jun 2025 12:31 | AR\AJ | Ok,M |
| 7 | HSTDICC1500 | PS030480.D | 04 Jun 2025 12:55 | AR\AJ | Ok,M |
| 8 | HSTDICV750 | PS030481.D | 04 Jun 2025 13:35 | AR\AJ | Ok,M |
| 9 | I.BLK | PS030482.D | 04 Jun 2025 13:59 | AR\AJ | Ok |
| 10 | HSTDCCC750 | PS030483.D | 04 Jun 2025 14:23 | AR\AJ | Ok,M |
| 11 | PB168207BL | PS030484.D | 04 Jun 2025 14:47 | AR\AJ | Ok |
| 12 | PB168207BS | PS030485.D | 04 Jun 2025 15:12 | AR\AJ | Ok,M |
| 13 | Q1872-17 | PS030486.D | 04 Jun 2025 15:36 | AR\AJ | Dilution |
| 14 | Q1872-17DL | PS030487.D | 04 Jun 2025 16:00 | AR\AJ | Ok,M |
| 15 | I.BLK | PS030488.D | 04 Jun 2025 16:26 | AR\AJ | Ok |
| 16 | HSTDCCC750 | PS030489.D | 04 Jun 2025 16:50 | AR\AJ | Ok,M |
| 17 | Q2159-01 | PS030490.D | 04 Jun 2025 17:14 | AR\AJ | Ok |
| 18 | Q2160-01 | PS030491.D | 04 Jun 2025 17:38 | AR\AJ | Ok |
| 19 | Q2160-05 | PS030492.D | 04 Jun 2025 18:02 | AR\AJ | Ok |
| 20 | Q2173-06 | PS030493.D | 04 Jun 2025 18:26 | AR\AJ | Ok,M |
| 21 | Q2173-12 | PS030494.D | 04 Jun 2025 18:51 | AR\AJ | Ok,M |

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**Instrument ID: ECD_S**

## Daily Analysis Runlog For Sequence/QCBatch ID # PS060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 6/5/2025 8:33:42 AM | | |
| Supervise By | mohammad | Supervise On | 6/6/2025 2:02:33 AM | | |
| SubDirectory | PS060425 | HP Acquire Method | | HP Processing Method | ps060425 8151 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560 |
| CCC | PP24559 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24562 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2173-18 | PS030495.D | 04 Jun 2025 19:15 | AR\AJ | Ok,M |
| 23 | I.BLK | PS030496.D | 04 Jun 2025 19:39 | AR\AJ | Ok |
| 24 | HSTDCCC750 | PS030497.D | 04 Jun 2025 20:03 | AR\AJ | Ok,M |
| 25 | Q2173-06MS | PS030498.D | 04 Jun 2025 20:51 | AR\AJ | Ok,M |
| 26 | Q2173-06MSD | PS030499.D | 04 Jun 2025 21:15 | AR\AJ | Ok,M |
| 27 | Q2160-05MS | PS030500.D | 04 Jun 2025 21:40 | AR\AJ | Ok,M |
| 28 | Q2160-05MSD | PS030501.D | 04 Jun 2025 22:04 | AR\AJ | Ok,M |
| 29 | Q2172-01 | PS030502.D | 04 Jun 2025 22:28 | AR\AJ | Ok |
| 30 | Q2185-01 | PS030503.D | 04 Jun 2025 22:52 | AR\AJ | Ok,M |
| 31 | Q2185-05 | PS030504.D | 04 Jun 2025 23:16 | AR\AJ | Ok |
| 32 | I.BLK | PS030505.D | 04 Jun 2025 23:40 | AR\AJ | Ok |
| 33 | HSTDCCC750 | PS030506.D | 05 Jun 2025 00:04 | AR\AJ | Ok,M |
| 34 | Q2177-03 | PS030507.D | 05 Jun 2025 00:52 | AR\AJ | Ok,M |
| 35 | Q2177-05 | PS030508.D | 05 Jun 2025 01:16 | AR\AJ | Ok |
| 36 | Q2177-07 | PS030509.D | 05 Jun 2025 01:40 | AR\AJ | Ok,M |
| 37 | PB168263BL | PS030510.D | 05 Jun 2025 02:04 | AR\AJ | Ok |
| 38 | PB168263BS | PS030511.D | 05 Jun 2025 02:28 | AR\AJ | Ok,M |
| 39 | PB168224TB | PS030512.D | 05 Jun 2025 02:53 | AR\AJ | Ok |
| 40 | PB168254BL | PS030513.D | 05 Jun 2025 03:17 | AR\AJ | Ok |
| 41 | PB168254BS | PS030514.D | 05 Jun 2025 03:41 | AR\AJ | Ok,M |
| 42 | I.BLK | PS030515.D | 05 Jun 2025 04:05 | AR\AJ | Ok |
| 43 | HSTDCCC750 | PS030516.D | 05 Jun 2025 04:29 | AR\AJ | Ok,M |
| 44 | Q2176-01 | PS030517.D | 05 Jun 2025 05:17 | AR\AJ | Ok |

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**Instrument ID: ECD_S**

## Daily Analysis Runlog For Sequence/QCBatch ID # PS060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 6/5/2025 8:33:42 AM | | |
| Supervise By | mohammad | Supervise On | 6/6/2025 2:02:33 AM | | |
| SubDirectory | PS060425 | HP Acquire Method | | HP Processing Method | ps060425 8151 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560 |
| CCC | PP24559 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24562 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 45 | Q2176-02 | PS030518.D | 05 Jun 2025 05:41 | AR\AJ | Ok,M |
| 46 | Q2176-03 | PS030519.D | 05 Jun 2025 06:05 | AR\AJ | Ok |
| 47 | Q2176-04 | PS030520.D | 05 Jun 2025 06:29 | AR\AJ | Not Ok |
| 48 | Q2176-05 | PS030521.D | 05 Jun 2025 06:53 | AR\AJ | Ok |
| 49 | Q2176-06 | PS030522.D | 05 Jun 2025 07:17 | AR\AJ | Ok,M |
| 50 | Q2176-07 | PS030523.D | 05 Jun 2025 07:41 | AR\AJ | Ok,M |
| 51 | Q2176-08 | PS030524.D | 05 Jun 2025 08:05 | AR\AJ | Ok |
| 52 | I.BLK | PS030525.D | 05 Jun 2025 08:29 | AR\AJ | Ok |
| 53 | HSTDCCC750 | PS030526.D | 05 Jun 2025 08:53 | AR\AJ | Ok,M |

M : Manual Integration

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**Instrument ID:** ECD_S

## Daily Analysis Runlog For Sequence/QCBatch ID # PS060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 6/5/2025 8:33:42 AM | | |
| Supervise By | mohammad | Supervise On | 6/6/2025 2:02:33 AM | | |
| SubDirectory | PS060425 | HP Acquire Method | | HP Processing Method | ps060425 8151 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560 |
| CCC | PP24559 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24562 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PS030474.D | 04 Jun 2025 10:31 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PS030475.D | 04 Jun 2025 10:55 | | AR\AJ | Ok |
| 3 | HSTDICC200 | HSTDICC200 | PS030476.D | 04 Jun 2025 11:19 | | AR\AJ | Ok,M |
| 4 | HSTDICC500 | HSTDICC500 | PS030477.D | 04 Jun 2025 11:43 | | AR\AJ | Ok,M |
| 5 | HSTDICC750 | HSTDICC750 | PS030478.D | 04 Jun 2025 12:07 | | AR\AJ | Ok,M |
| 6 | HSTDICC1000 | HSTDICC1000 | PS030479.D | 04 Jun 2025 12:31 | | AR\AJ | Ok,M |
| 7 | HSTDICC1500 | HSTDICC1500 | PS030480.D | 04 Jun 2025 12:55 | | AR\AJ | Ok,M |
| 8 | HSTDICV750 | ICVPS060425 | PS030481.D | 04 Jun 2025 13:35 | | AR\AJ | Ok,M |
| 9 | I.BLK | I.BLK | PS030482.D | 04 Jun 2025 13:59 | | AR\AJ | Ok |
| 10 | HSTDCCC750 | HSTDCCC750 | PS030483.D | 04 Jun 2025 14:23 | | AR\AJ | Ok,M |
| 11 | PB168207BL | PB168207BL | PS030484.D | 04 Jun 2025 14:47 | | AR\AJ | Ok |
| 12 | PB168207BS | PB168207BS | PS030485.D | 04 Jun 2025 15:12 | | AR\AJ | Ok,M |
| 13 | Q1872-17 | HW0425-PT-HERB-SO | PS030486.D | 04 Jun 2025 15:36 | Need dilution | AR\AJ | Dilution |
| 14 | Q1872-17DL | HW0425-PT-HERB-SO | PS030487.D | 04 Jun 2025 16:00 | | AR\AJ | Ok,M |
| 15 | I.BLK | I.BLK | PS030488.D | 04 Jun 2025 16:26 | | AR\AJ | Ok |
| 16 | HSTDCCC750 | HSTDCCC750 | PS030489.D | 04 Jun 2025 16:50 | | AR\AJ | Ok,M |
| 17 | Q2159-01 | TP05-MHO-WC | PS030490.D | 04 Jun 2025 17:14 | | AR\AJ | Ok |
| 18 | Q2160-01 | TP04-MHG-WC | PS030491.D | 04 Jun 2025 17:38 | | AR\AJ | Ok |

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**Instrument ID:** ECD_S

## Daily Analysis Runlog For Sequence/QCBatch ID # PS060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 6/5/2025 8:33:42 AM | | |
| Supervise By | mohammad | Supervise On | 6/6/2025 2:02:33 AM | | |
| SubDirectory | PS060425 | HP Acquire Method | | HP Processing Method | ps060425 8151 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560 |
| CCC | PP24559 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24562 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2160-05 | TP05-MHH-WC | PS030492.D | 04 Jun 2025 18:02 | | AR\AJ | Ok |
| 20 | Q2173-06 | OR-400-CF-402B-COM | PS030493.D | 04 Jun 2025 18:26 | | AR\AJ | Ok,M |
| 21 | Q2173-12 | OR-400-CF-402B-COM | PS030494.D | 04 Jun 2025 18:51 | | AR\AJ | Ok,M |
| 22 | Q2173-18 | OR-400-CF-402B-COM | PS030495.D | 04 Jun 2025 19:15 | | AR\AJ | Ok,M |
| 23 | I.BLK | I.BLK | PS030496.D | 04 Jun 2025 19:39 | | AR\AJ | Ok |
| 24 | HSTDCCC750 | HSTDCCC750 | PS030497.D | 04 Jun 2025 20:03 | | AR\AJ | Ok,M |
| 25 | Q2173-06MS | OR-400-CF-402B-COM | PS030498.D | 04 Jun 2025 20:51 | Comp#1,3 recovery fail | AR\AJ | Ok,M |
| 26 | Q2173-06MSD | OR-400-CF-402B-COM | PS030499.D | 04 Jun 2025 21:15 | Comp#1,3,14 recovery fail ,RPD Fail | AR\AJ | Ok,M |
| 27 | Q2160-05MS | TP05-MHH-WCMS | PS030500.D | 04 Jun 2025 21:40 | Comp#1,10 recovery fail | AR\AJ | Ok,M |
| 28 | Q2160-05MSD | TP05-MHH-WCMSD | PS030501.D | 04 Jun 2025 22:04 | Comp#1,10 recovery fail | AR\AJ | Ok,M |
| 29 | Q2172-01 | TP06-MHQ | PS030502.D | 04 Jun 2025 22:28 | | AR\AJ | Ok |
| 30 | Q2185-01 | TP02-MHB-WC | PS030503.D | 04 Jun 2025 22:52 | | AR\AJ | Ok,M |
| 31 | Q2185-05 | TP01-MHA-WC | PS030504.D | 04 Jun 2025 23:16 | | AR\AJ | Ok |
| 32 | I.BLK | I.BLK | PS030505.D | 04 Jun 2025 23:40 | | AR\AJ | Ok |
| 33 | HSTDCCC750 | HSTDCCC750 | PS030506.D | 05 Jun 2025 00:04 | | AR\AJ | Ok,M |
| 34 | Q2177-03 | B-187-SB01 | PS030507.D | 05 Jun 2025 00:52 | | AR\AJ | Ok,M |
| 35 | Q2177-05 | B-187-SB02 | PS030508.D | 05 Jun 2025 01:16 | | AR\AJ | Ok |
| 36 | Q2177-07 | B-202-SB01 | PS030509.D | 05 Jun 2025 01:40 | | AR\AJ | Ok,M |
| 37 | PB168263BL | PB168263BL | PS030510.D | 05 Jun 2025 02:04 | | AR\AJ | Ok |

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Fax : 908 789 8922

**Instrument ID:** ECD_S

## Daily Analysis Runlog For Sequence/QCBatch ID # PS060425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 6/5/2025 8:33:42 AM | | |
| Supervise By | mohammad | Supervise On | 6/6/2025 2:02:33 AM | | |
| SubDirectory | PS060425 | HP Acquire Method | | HP Processing Method | ps060425 8151 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560 |
| CCC | PP24559 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24562 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | PB168263BS | PB168263BS | PS030511.D | 05 Jun 2025 02:28 | | AR\AJ | Ok,M |
| 39 | PB168224TB | PB168224TB | PS030512.D | 05 Jun 2025 02:53 | | AR\AJ | Ok |
| 40 | PB168254BL | PB168254BL | PS030513.D | 05 Jun 2025 03:17 | | AR\AJ | Ok |
| 41 | PB168254BS | PB168254BS | PS030514.D | 05 Jun 2025 03:41 | | AR\AJ | Ok,M |
| 42 | I.BLK | I.BLK | PS030515.D | 05 Jun 2025 04:05 | | AR\AJ | Ok |
| 43 | HSTDCCC750 | HSTDCCC750 | PS030516.D | 05 Jun 2025 04:29 | | AR\AJ | Ok,M |
| 44 | Q2176-01 | TP-46 | PS030517.D | 05 Jun 2025 05:17 | | AR\AJ | Ok |
| 45 | Q2176-02 | TP-56 | PS030518.D | 05 Jun 2025 05:41 | | AR\AJ | Ok,M |
| 46 | Q2176-03 | TP-25 | PS030519.D | 05 Jun 2025 06:05 | | AR\AJ | Ok |
| 47 | Q2176-04 | TP-26 | PS030520.D | 05 Jun 2025 06:29 | Surrogate low in both column | AR\AJ | Not Ok |
| 48 | Q2176-05 | TP-28 | PS030521.D | 05 Jun 2025 06:53 | | AR\AJ | Ok |
| 49 | Q2176-06 | TP-27 | PS030522.D | 05 Jun 2025 07:17 | | AR\AJ | Ok,M |
| 50 | Q2176-07 | TP-31 | PS030523.D | 05 Jun 2025 07:41 | | AR\AJ | Ok,M |
| 51 | Q2176-08 | TP-65 | PS030524.D | 05 Jun 2025 08:05 | | AR\AJ | Ok |
| 52 | I.BLK | I.BLK | PS030525.D | 05 Jun 2025 08:29 | | AR\AJ | Ok |
| 53 | HSTDCCC750 | HSTDCCC750 | PS030526.D | 05 Jun 2025 08:53 | | AR\AJ | Ok,M |

M : Manual Integration

Alliance TECHNICAL GROUP

# TCLP EXTRACTION LOGPAGE

PB168224

**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 / T-2

**TCLP Filter ID :** 115525

**Start Prep Date :** 06/02/2025 **Time :** 16:00

**End Prep Date :** 06/03/2025 **Time :** 09:15

**Combination Ratio :** 20

**ZHE Cleaning Batch :** 10 N/A

**Initial Room Temperature:** 22 °C

**Final Room Temperature:** 21 °C

**TCLP Technician Signature :** JP

**Supervisor By :** SJ

| 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 | WP112795 |
| HCL-TCLP,1N | N/A | WP112797 |
| HNO3-TCLP,1N | N/A | WP112799 |
| pH Strips | N/A | W1931,W1934,W3171,W3172 |
| pH Strips | N/A | W3166,W1938,W1939, |
| 1 Liter Amber | N/A | 90924-08 |
| 120ml Plastic bottle | N/A | 2738 |
| 1:1 HNO3 | N/A | MP84041 |

**Extraction Conformance/Non-Conformance Comments:**

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. q2185-08 is used for MS-MSD.

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 06/03/25 11:00 | JP / TCLP Room | SJS. RS 1Ext |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

## TCLP EXTRACTION LOGPAGE

PB168224

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| PB168224TB | LEB224 | 17 | N/A | 2000 | N/A | N/A | N/A | 4.93 | 1.5 | T-2 |
| Q2159-04 | TP05-MHO-WC | 01 | 100.02 | 2000 | N/A | N/A | N/A | 3.0 | 1.0 | T-1 |
| Q2160-04 | TP04-MHG-WC | 02 | 100.03 | 2000 | N/A | N/A | N/A | 3.0 | 1.5 | T-1 |
| Q2160-08 | TP05-MHH-WC | 03 | 100.02 | 2000 | N/A | N/A | N/A | 3.5 | 1.0 | T-1 |
| Q2168-02 | SAN-A1-A3 | 04 | 100.03 | 2000 | N/A | N/A | N/A | 4.5 | 1.5 | T-1 |
| Q2168-06 | SAN-B1-B3 | 05 | 100.02 | 2000 | N/A | N/A | N/A | 4.5 | 1.0 | T-1 |
| Q2168-10 | SAN-C1-C2 | 06 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.5 | T-1 |
| Q2172-04 | TP06-MHQ | 07 | 100.01 | 2000 | N/A | N/A | N/A | 3.0 | 1.5 | T-1 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | 08 | 100.02 | 2000 | N/A | N/A | N/A | 7.0 | 1.0 | T-1 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | 09 | 100.03 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-1 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | 10 | 100.04 | 2000 | N/A | N/A | N/A | 6.0 | 1.0 | T-1 |
| Q2177-03 | B-187-SB01 | 11 | 100.02 | 2000 | N/A | N/A | N/A | 6.0 | 1.5 | T-2 |
| Q2177-05 | B-187-SB02 | 12 | 100.03 | 2000 | N/A | N/A | N/A | 5.6 | 1.0 | T-2 |
| Q2177-07 | B-202-SB01 | 13 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-2 |
| Q2178-02 | RT2929 | 14 | 100.03 | 2000 | N/A | N/A | N/A | 10.0 | 1.5 | T-2 |
| Q2185-04 | TP02-MHB-WC | 15 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-2 |
| Q2185-08 | TP01-MHB-WC | 16 | 100.03 | 2000 | N/A | N/A | N/A | 6.0 | 1.0 | T-2 |

| SampleID | ClientID | Sample Weight (g) | Filter Weight (g) | Filtrate (mL) | Filter + Solid (After 100°C) | % solids | % Dry Solids |
|---|---|---|---|---|---|---|---|
| PB168224TB | LEB224 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2159-04 | TP05-MHO-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2160-04 | TP04-MHG-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2160-08 | TP05-MHH-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2168-02 | SAN-A1-A3 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2168-06 | SAN-B1-B3 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2168-10 | SAN-C1-C2 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2172-04 | TP06-MHQ | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2173-06 | OR-400-CF-402B-COMP-23 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2173-12 | OR-400-CF-402B-COMP-24 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2173-18 | OR-400-CF-402B-COMP-25 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2177-03 | B-187-SB01 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2177-05 | B-187-SB02 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2177-07 | B-202-SB01 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2178-02 | RT2929 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2185-04 | TP02-MHB-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2185-08 | TP01-MHB-WC | N/A | N/A | N/A | N/A | 100 | N/A |

Alliance TECHNICAL GROUP

**TCLP Fluid Determination**

PB168224

**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 |
|---|---|---|---|---|---|---|---|
| PB168224TB | LEB224 | N/A | N/A | N/A | N/A | #1 | 4.93 |
| Q2159-04 | TP05-MHO-WC | 5.02 | 96.5 | 5.6 | 2.0 | #1 | 4.93 |
| Q2160-04 | TP04-MHG-WC | 5.01 | 96.5 | 5.5 | 2.0 | #1 | 4.93 |
| Q2160-08 | TP05-MHH-WC | 5.02 | 96.5 | 5.8 | 2.0 | #1 | 4.93 |
| Q2168-02 | SAN-A1-A3 | 5.01 | 96.5 | 6.2 | 2.5 | #1 | 4.93 |
| Q2168-06 | SAN-B1-B3 | 5.02 | 96.5 | 6.0 | 2.0 | #1 | 4.93 |
| Q2168-10 | SAN-C1-C2 | 5.03 | 96.5 | 6.0 | 2.0 | #1 | 4.93 |
| Q2172-04 | TP06-MHQ | 5.03 | 96.5 | 5.5 | 1.5 | #1 | 4.93 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | 5.02 | 96.5 | 9.0 | 3.5 | #1 | 4.93 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | 5.03 | 96.5 | 7.2 | 2.5 | #1 | 4.93 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | 5.02 | 96.5 | 8.4 | 3.0 | #1 | 4.93 |
| Q2177-03 | B-187-SB01 | 5.03 | 96.5 | 8.2 | 3.0 | #1 | 4.93 |
| Q2177-05 | B-187-SB02 | 5.02 | 96.5 | 7.2 | 2.5 | #1 | 4.93 |
| Q2177-07 | B-202-SB01 | 5.01 | 96.5 | 8.2 | 3.0 | #1 | 4.93 |
| Q2178-02 | RT2929 | 5.02 | 96.5 | 10.5 | 4.0 | #1 | 4.93 |
| Q2185-04 | TP02-MHB-WC | 5.02 | 96.5 | 8.0 | 3.0 | #1 | 4.93 |
| Q2185-08 | TP01-MHB-WC | 5.01 | 96.5 | 8.0 | 3.0 | N/A | 4.93 |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** tclp q2177 **WorkList ID :** 189871 **Department :** TCLP Extraction **Date :** 06-02-2025 12:11:06

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2159-04 | TP05-MHO-WC | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 | 1311 |
| Q2160-04 | TP04-MHG-WC | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 | 1311 |
| Q2160-08 | TP05-MHH-WC | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 | 1311 |
| Q2168-02 | SAN-A1-A3 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 | 1311 |
| Q2168-06 | SAN-B1-B3 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 1311 |
| Q2168-10 | SAN-C1-C2 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 1311 |
| Q2172-04 | TP06-MHQ | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 05/30/2025 | 1311 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 1311 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 1311 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 1311 |
| Q2177-03 | B-187-SB01 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 1311 |
| Q2177-05 | B-187-SB02 | Solid | TCLP Extraction | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 1311 |
| Q2177-07 | B-202-SB01 | Solid | TCLP Extraction | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 1311 |
| Q2178-02 | RT2929 | Solid | TCLP Extraction | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | 1311 |
| Q2185-04 | TP02-MHB-WC | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L41 | 06/02/2025 | 1311 |
| Q2185-08 | TP01-MHB-WC | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | L31 | 06/02/2025 | 1311 |

**Date/Time** 06/02/25 15:00

**Raw Sample Received by:** WC

**Raw Sample Relinquished by:** SM

**Date/Time** 06/02/25 17:30

**Raw Sample Received by:** SM

**Raw Sample Relinquished by:** WC

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB168263

| | | | | | |
|---|---|---|---|---|---|
| **SOP ID:** | M8151A-Herbicide-23 | | | | |
| **Clean Up SOP #:** | N/A | | | **Extraction Start Date :** | 06/03/2025 |
| **Matrix :** | Water | | | **Extraction Start Time :** | 11:15 |
| **Weigh By:** | N/A | **Extraction By:** | RJ | **Extraction End Date :** | 06/03/2025 |
| **Balance check:** | N/A | **Filter By:** | RS | **Extraction End Time :** | 17:30 |
| **Balance ID:** | N/A | **pH Meter ID:** | N/A | **Concentration By:** | EH |
| **pH Strip Lot#:** | E3880 | **Hood ID:** | 4,7 | **Supervisor By :** | RUPESH |

**Extraction Method:** [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 5/500 PPM | PP24595 |
| Surrogate | 1.0ML | 5000 PPB | PP24601 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Ether | N/A | E3881 |
| Acidified Na2SO4 | N/A | EP2621 |
| NAOH 6N | N/A | EP2606 |
| 12N H2SO4 | N/A | EP2605 |
| NACL | N/A | M4459 |
| ISO OCTANE | N/A | E3554 |
| Diazomethane | N/A | EP2618 |
| Hexane | N/A | E3938 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

pH Adjusted with 6N NaOH>12 prior to Hydrolysis, PH adjusted with cold 12N H2SO4<2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ml Vial Lot # 03-40BTS723.

| | | | |
|---|---|---|---|
| **KD Bath ID:** | N/A | **Envap ID:** | NEVAP-02 |
| **KD Bath Temperature:** | N/A | **Envap Temperature:** | 40 °C |

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 6/3/25 | RS (Ext-lab) | R. Patel/PCB Lab. |
| 17:35 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB168263**

**Analytical Method:** M8151A-Herbicide-23

**Concentration Date:** 06/03/2025

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB168224TB | PB168224TB | TCLP Herbicide | 100 | 6 | ritesh | RUPESH | 10 | | | SEP-1 |
| PB168263BL | HBLK263 | TCLP Herbicide | 1000 | 6 | ritesh | RUPESH | 10 | | | 2 |
| PB168263BS | HLCS263 | TCLP Herbicide | 1000 | 6 | ritesh | RUPESH | 10 | | | 3 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | TCLP Herbicide | 100 | 6 | ritesh | RUPESH | 10 | A | | 4 |
| Q2173-06MS | OR-400-CF-402B-COMP-23MS | TCLP Herbicide | 100 | 6 | ritesh | RUPESH | 10 | A | | 5 |
| Q2173-06MSD | OR-400-CF-402B-COMP-23MSD | TCLP Herbicide | 100 | 6 | ritesh | RUPESH | 10 | A | | 6 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | TCLP Herbicide | 100 | 6 | ritesh | RUPESH | 10 | A | | 7 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | TCLP Herbicide | 100 | 6 | ritesh | RUPESH | 10 | A | | 8 |
| Q2177-03 | B-187-SB01 | TCLP Herbicide | 100 | 6 | ritesh | RUPESH | 10 | A | | 9 |
| Q2177-05 | B-187-SB02 | TCLP Herbicide | 100 | 6 | ritesh | RUPESH | 10 | A | | 10 |
| Q2177-07 | B-202-SB01 | TCLP Herbicide | 100 | 6 | ritesh | RUPESH | 10 | A | | 11 |

RS
6/3

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

**TCLP EXTRACTION LOGPAGE**

PB168224

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| PB168224TB | LEB224 | 17 | N/A | 2000 | N/A | N/A | N/A | 4.93 | 1.5 | T-2 |
| Q2159-04 | TP05-MHO-WC | 01 | 100.02 | 2000 | N/A | N/A | N/A | 3.0 | 1.0 | T-1 |
| Q2160-04 | TP04-MHG-WC | 02 | 100.03 | 2000 | N/A | N/A | N/A | 3.0 | 1.5 | T-1 |
| Q2160-08 | TP05-MHH-WC | 03 | 100.02 | 2000 | N/A | N/A | N/A | 3.5 | 1.0 | T-1 |
| Q2168-02 | SAN-A1-A3 | 04 | 100.03 | 2000 | N/A | N/A | N/A | 4.5 | 1.5 | T-1 |
| Q2168-06 | SAN-B1-B3 | 05 | 100.02 | 2000 | N/A | N/A | N/A | 4.5 | 1.0 | T-1 |
| Q2168-10 | SAN-C1-C2 | 06 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.5 | T-1 |
| Q2172-04 | TP06-MHQ | 07 | 100.01 | 2000 | N/A | N/A | N/A | 3.0 | 1.5 | T-1 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | 08 | 100.02 | 2000 | N/A | N/A | N/A | 7.0 | 1.0 | T-1 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | 09 | 100.03 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-1 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | 10 | 100.04 | 2000 | N/A | N/A | N/A | 6.0 | 1.0 | T-1 |
| Q2177-03 | B-187-SB01 | 11 | 100.02 | 2000 | N/A | N/A | N/A | 6.0 | 1.5 | T-2 |
| Q2177-05 | B-187-SB02 | 12 | 100.03 | 2000 | N/A | N/A | N/A | 5.6 | 1.0 | T-2 |
| Q2177-07 | B-202-SB01 | 13 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-2 |
| Q2178-02 | RT2929 | 14 | 100.03 | 2000 | N/A | N/A | N/A | 10.0 | 1.5 | T-2 |
| Q2185-04 | TP02-MHB-WC | 15 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-2 |
| Q2185-08 | TP01-MHB-WC | 16 | 100.03 | 2000 | N/A | N/A | N/A | 6.0 | 1.0 | T-2 |

06/03/25
11:00

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

# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2177 | **OrderDate:** | 6/2/2025 11:19:00 AM |
| **Client:** | Portal Partners Tri-Venture | **Project:** | Amtrak Sawtooth Bridges 2025 |
| **Contact:** | Joseph Krupansky | **Location:** | L41,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2177-03** | **B-187-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP Herbicide | 8151A | | 06/03/25 | 06/05/25 | |
| | | | TCLP Pesticide | 8081B | | 06/03/25 | 06/03/25 | |
| **Q2177-05** | **B-187-SB02** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP Herbicide | 8151A | | 06/03/25 | 06/05/25 | |
| | | | TCLP Pesticide | 8081B | | 06/03/25 | 06/03/25 | |
| **Q2177-07** | **B-202-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP Herbicide | 8151A | | 06/03/25 | 06/05/25 | |
| | | | TCLP Pesticide | 8081B | | 06/03/25 | 06/03/25 | |

# SAMPLE DATA

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 84.2 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 06/11/25 08:45 | 06/12/25 12:59 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 1.10 | J | 1 | 0.17 | 1.19 | mg/kg | FC069184.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 3.37 | | 1 | 0.13 | 0.79 | mg/kg | FC069184.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.65 | J | 1 | 0.15 | 1.19 | mg/kg | FC069184.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 5.91 | | 1 | 0.63 | 1.58 | mg/kg | FC069184.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 6.40 | | 1 | 1.40 | 2.37 | mg/kg | FC069184.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.46 | J | 1 | 0.14 | 0.79 | mg/kg | FD049482.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.63 | J | 1 | 0.27 | 1.19 | mg/kg | FD049482.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 2.27 | | 1 | 0.47 | 1.98 | mg/kg | FD049482.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 1.89 | J | 1 | 1.41 | 3.16 | mg/kg | FD049482.D |
| Total AliphaticEPH | Total AliphaticEPH | 17.4 | | | 2.48 | 7.12 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 5.25 | J | | 2.30 | 7.12 | mg/kg | |
| Total EPH | Total EPH | 22.7 | | | 4.78 | 14.2 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: FC069184.D

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 84.2 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC069184.D | 1 | 06/11/25 | 06/12/25 | PB168408 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 1.10 | J | 0.17 | 1.19 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 3.37 | | 0.13 | 0.79 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.65 | J | 0.15 | 1.19 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 5.91 | | 0.63 | 1.58 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 6.40 | | 1.40 | 2.37 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 62.5 | | 40 - 140 | 125% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q2177-02 | Acq On: | 12 Jun 2025 12:59 |
| Client Sample ID: | B-187-SB01 | Operator: | YP/AJ |
| Data file: | FC069184.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 11 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.305 | 6.606 | 1466205 | 13.869 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.607 | 10.010 | 4348269 | 42.636 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.011 | 13.380 | 808828 | 8.265 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.381 | 17.048 | 7021300 | 74.851 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.049 | 22.036 | 7653268 | 81.039 | 600 | ug/ml |
| Aliphatic EPH | 3.305 | 22.036 | 21297870 | 220.66 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.119 | 13.119 | 5605383 | 62.48 | | ug/ml |
| Aliphatic C9-C28 | 3.305 | 17.048 | 13644602 | 139.621 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 84.2 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD049482.D | 1 | 06/11/25 | 06/13/25 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.46 | J | 0.14 | 0.79 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.63 | J | 0.27 | 1.19 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 2.27 | | 0.47 | 1.98 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 1.89 | J | 1.41 | 3.16 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 23.8 | | 40 - 140 | 48% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 21.8 | | 40 - 140 | 44% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 41.6 | | 40 - 140 | 83% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q2177-02 | Acq On: | 13 Jun 2025 08:25 |
| Client Sample ID: | B-187-SB01 | Operator: | YP/AJ |
| Data file: | FD049482.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 61 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.424 | 6.168 | 980709 | 5.86 | 200 | ug/ml |
| Aromatic C12-C16 | 6.169 | 8.796 | 1494000 | 7.967 | 300 | ug/ml |
| Aromatic C16-C21 | 8.797 | 13.086 | 5301973 | 28.7 | 500 | ug/ml |
| Aromatic C21-C36 | 13.087 | 18.508 | 3472592 | 23.939 | 800 | ug/ml |
| Aromatic EPH | 4.424 | 18.508 | 11249274 | 66.466 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.732 | 7.732 | 3952894 | 23.78 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.597 | 8.597 | 2498647 | 21.84 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.646 | 11.646 | 8349277 | 41.6 | | ug/ml |

Raw Data: FD069186.D

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-04 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 62.8 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 06/11/25 08:45 | 06/12/25 14:21 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.58 | J | 1 | 0.22 | 1.59 | mg/kg | FC069186.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.82 | J | 1 | 0.18 | 1.06 | mg/kg | FC069186.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.91 | J | 1 | 0.21 | 1.59 | mg/kg | FC069186.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 2.31 | | 1 | 0.84 | 2.12 | mg/kg | FC069186.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 2.32 | J | 1 | 1.88 | 3.18 | mg/kg | FC069186.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.74 | J | 1 | 0.19 | 1.06 | mg/kg | FD049460.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.58 | J | 1 | 0.37 | 1.59 | mg/kg | FD049460.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 7.19 | | 1 | 0.64 | 2.65 | mg/kg | FD049460.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 5.81 | | 1 | 1.89 | 4.24 | mg/kg | FD049460.D |
| Total AliphaticEPH | Total AliphaticEPH | 6.95 | J | | 3.33 | 9.54 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 14.3 | | | 3.08 | 9.54 | mg/kg | |
| Total EPH | Total EPH | 21.3 | | | 6.41 | 19.1 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: FC069186.D

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-04 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 62.8 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC069186.D | 1 | 06/11/25 | 06/12/25 | PB168408 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.58 | J | 0.22 | 1.59 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.82 | J | 0.18 | 1.06 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.91 | J | 0.21 | 1.59 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 2.31 | | 0.84 | 2.12 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 2.32 | J | 1.88 | 3.18 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 30.6 | | 40 - 140 | 61% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q2177-04 | Acq On: | 12 Jun 2025 14:21 |
| Client Sample ID: | B-187-SB02 | Operator: | YP/AJ |
| Data file: | FC069186.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 13 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.305 | 6.606 | 575906 | 5.448 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.607 | 10.010 | 791129 | 7.757 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.011 | 13.380 | 843112 | 8.615 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.381 | 17.048 | 2042466 | 21.774 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.049 | 22.036 | 2065583 | 21.872 | 600 | ug/ml |
| Aliphatic EPH | 3.305 | 22.036 | 6318196 | 65.466 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.115 | 13.115 | 2742024 | 30.56 | | ug/ml |
| Aliphatic C9-C28 | 3.305 | 17.048 | 4252613 | 43.594 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-04 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 62.8 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD049460.D | 1 | 06/11/25 | 06/12/25 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.74 | J | 0.19 | 1.06 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.58 | J | 0.37 | 1.59 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 7.19 | | 0.64 | 2.65 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 5.81 | | 1.89 | 4.24 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 36.9 | | 40 - 140 | 74% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 35.9 | | 40 - 140 | 72% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 37.2 | | 40 - 140 | 74% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q2177-04 | Acq On: | 12 Jun 2025 14:21 |
| Client Sample ID: | B-187-SB02 | Operator: | YP/AJ |
| Data file: | FD049460.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 63 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.424 | 6.168 | 1159141 | 6.927 | 200 | ug/ml |
| Aromatic C12-C16 | 6.169 | 8.797 | 1031347 | 5.5 | 300 | ug/ml |
| Aromatic C16-C21 | 8.798 | 13.088 | 12510638 | 67.72 | 500 | ug/ml |
| Aromatic C21-C36 | 13.089 | 18.510 | 7942940 | 54.757 | 800 | ug/ml |
| Aromatic EPH | 4.424 | 18.510 | 22644066 | 134.904 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.733 | 7.733 | 6129577 | 36.87 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.599 | 8.599 | 4107675 | 35.91 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.646 | 11.646 | 7466601 | 37.2 | | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-06 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 85.4 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 06/11/25 08:45 | 06/12/25 13:40 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.24 | J | 1 | 0.16 | 1.17 | mg/kg | FC069185.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.39 | J | 1 | 0.13 | 0.78 | mg/kg | FC069185.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.34 | J | 1 | 0.15 | 1.17 | mg/kg | FC069185.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.62 | U | 1 | 0.62 | 1.56 | mg/kg | FC069185.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.82 | J | 1 | 1.38 | 2.34 | mg/kg | FC069185.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.35 | J | 1 | 0.14 | 0.78 | mg/kg | FD049459.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.41 | J | 1 | 0.27 | 1.17 | mg/kg | FD049459.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 2.92 | | 1 | 0.47 | 1.95 | mg/kg | FD049459.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.05 | J | 1 | 1.39 | 3.12 | mg/kg | FD049459.D |
| Total AliphaticEPH | Total AliphaticEPH | 2.79 | J | | 2.44 | 7.02 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 5.73 | J | | 2.27 | 7.02 | mg/kg | |
| Total EPH | Total EPH | 8.52 | J | | 4.71 | 14.0 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: FC069185.D

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-06 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 85.4 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC069185.D | 1 | 06/11/25 | 06/12/25 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.24 | J | 0.16 | 1.17 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.39 | J | 0.13 | 0.78 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.34 | J | 0.15 | 1.17 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.62 | U | 0.62 | 1.56 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.82 | J | 1.38 | 2.34 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 32.4 | | 40 - 140 | 65% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q2177-06 | Acq On: | 12 Jun 2025 13:40 |
| Client Sample ID: | B-202-SB01 | Operator: | YP/AJ |
| Data file: | FC069185.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 12 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.305 | 6.606 | 328654 | 3.109 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.607 | 10.010 | 504678 | 4.949 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.011 | 13.380 | 428982 | 4.383 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.381 | 17.048 | 730151 | 7.784 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.049 | 22.036 | 2208942 | 23.39 | 600 | ug/ml |
| Aliphatic EPH | 3.305 | 22.036 | 4201407 | 43.615 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.115 | 13.115 | 2903246 | 32.36 | | ug/ml |
| Aliphatic C9-C28 | 3.305 | 17.048 | 1992465 | 20.225 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-06 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 85.4 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD049459.D | 1 | 06/11/25 | 06/12/25 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.35 | J | 0.14 | 0.78 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.41 | J | 0.27 | 1.17 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 2.92 | | 0.47 | 1.95 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 2.05 | J | 1.39 | 3.12 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 40.8 | | 40 - 140 | 82% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 40.6 | | 40 - 140 | 81% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 37.4 | | 40 - 140 | 75% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q2177-06 | Acq On: | 12 Jun 2025 13:40 |
| Client Sample ID: | B-202-SB01 | Operator: | YP/AJ |
| Data file: | FD049459.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 62 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.424 | 6.168 | 757353 | 4.526 | 200 | ug/ml |
| Aromatic C12-C16 | 6.169 | 8.797 | 978175 | 5.216 | 300 | ug/ml |
| Aromatic C16-C21 | 8.798 | 13.088 | 6923910 | 37.479 | 500 | ug/ml |
| Aromatic C21-C36 | 13.089 | 18.510 | 3805918 | 26.237 | 800 | ug/ml |
| Aromatic EPH | 4.424 | 18.510 | 12465356 | 73.458 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.646 | 11.646 | 7498843 | 37.36 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.733 | 7.733 | 6787663 | 40.83 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.599 | 8.599 | 4648646 | 40.64 | | ug/ml |

Raw Data: FD069137.D

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | EB05312025 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-08 | Matrix: | Water |
| Analytical Method: | NJEPH | % Solid: | 0 |
| Sample Wt/Vol: | 910 Units: mL | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | SW3510 | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 06/06/25 09:10 | 06/09/25 18:17 | PB168324 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 9.10 | U | 1 | 9.10 | 33.0 | ug/l | FC069137.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 14.8 | U | 1 | 14.8 | 22.0 | ug/l | FC069137.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 12.4 | J | 1 | 9.16 | 33.0 | ug/l | FC069137.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 13.7 | U | 1 | 13.7 | 44.0 | ug/l | FC069137.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 56.6 | J | 1 | 26.2 | 65.9 | ug/l | FC069137.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 7.74 | J | 1 | 2.27 | 22.0 | ug/l | FD049418.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 12.7 | J | 1 | 4.68 | 33.0 | ug/l | FD049418.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 52.9 | J | 1 | 9.09 | 54.9 | ug/l | FD049418.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 26.2 | U | 1 | 26.2 | 87.9 | ug/l | FD049418.D |
| Total AliphaticEPH | Total AliphaticEPH | 73.0 | U | | 73.0 | 198 | ug/l | |
| Total AromaticEPH | Total AromaticEPH | 73.3 | J | | 42.2 | 198 | ug/l | |
| Total EPH | Total EPH | 142 | J | | 115 | 396 | ug/l | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: FC069137.D

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | Date Collected: | 05/31/25 | |
| Project: | Amtrak Sawtooth Bridges 2025 | | Date Received: | 06/02/25 | |
| Client Sample ID: | EB05312025 | | SDG No.: | Q2177 | |
| Lab Sample ID: | Q2177-08 | | Matrix: | Water | |
| Analytical Method: | NJEPH | | % Solid: | 0 | |
| Sample Wt/Vol: | 910 | Units: mL | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | SW3510 | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC069137.D | 1 | 06/06/25 | 06/09/25 | PB168324 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 9.10 | U | 9.10 | 33.0 | ug/l |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 14.8 | U | 14.8 | 22.0 | ug/l |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 12.4 | J | 9.16 | 33.0 | ug/l |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 13.7 | U | 13.7 | 44.0 | ug/l |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 56.6 | J | 26.2 | 65.9 | ug/l |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 38.5 | | 40 - 140 | 77% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q2177-08 | Acq On: | 09 Jun 2025 18:17 |
| Client Sample ID: | EB05312025 | Operator: | YP/AJ |
| Data file: | FC069137.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 14 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.299 | 6.602 | 396914 | 3.754 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.603 | 10.008 | 653553 | 6.408 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.009 | 13.379 | 553487 | 5.656 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.380 | 17.047 | 413903 | 4.412 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.048 | 22.037 | 2432383 | 25.756 | 600 | ug/ml |
| Aliphatic EPH | 3.299 | 22.037 | 4450240 | 45.987 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.113 | 13.113 | 3449755 | 38.45 | | ug/ml |
| Aliphatic C9-C28 | 3.299 | 17.047 | 2017857 | 20.23 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | EB05312025 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-08 | Matrix: | Water |
| Analytical Method: | NJEPH | % Solid: | 0 |
| Sample Wt/Vol: | 910 Units: mL | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | SW3510 | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD049418.D | 1 | 06/06/25 | 06/09/25 | PB168324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 7.74 | J | 2.27 | 22.0 | ug/l |
| Aromatic C12-C16 | Aromatic C12-C16 | 12.7 | J | 4.68 | 33.0 | ug/l |
| Aromatic C16-C21 | Aromatic C16-C21 | 52.9 | J | 9.09 | 54.9 | ug/l |
| Aromatic C21-C36 | Aromatic C21-C36 | 26.2 | U | 26.2 | 87.9 | ug/l |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 48.8 | | 40 - 140 | 98% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 47.5 | | 40 - 140 | 95% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 44.0 | | 40 - 140 | 88% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q2177-08 | Acq On: | 09 Jun 2025 18:17 |
| Client Sample ID: | EB05312025 | Operator: | YP/AJ |
| Data file: | FD049418.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 64 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic EPH | 4.424 | 18.512 | 7697301 | 44.248 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.600 | 8.600 | 5429129 | 47.46 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.648 | 11.648 | 8823947 | 43.96 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.734 | 7.734 | 8111967 | 48.8 | | ug/ml |
| Aromatic C10-C12 | 4.424 | 6.169 | 589264 | 3.521 | 200 | ug/ml |
| Aromatic C12-C16 | 6.170 | 8.798 | 1086281 | 5.793 | 300 | ug/ml |
| Aromatic C16-C21 | 8.799 | 13.089 | 4442554 | 24.048 | 500 | ug/ml |
| Aromatic C21-C36 | 13.090 | 18.512 | 1579202 | 10.887 | 800 | ug/ml |

# QC SUMMARY

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## SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Run Number: FC060925AL

| Client SAMPLE NO. | 1-chlorooctadecane (SURR) | | | TOT OUT |
|---|---|---|---|---|
| PB168324BL | 60 | | | 0 |
| PB168324BS | 75 | | | 0 |
| PB168324BSD | 78 | | | 0 |
| EB05312025 | 77 | | | 0 |

| | QC LIMITS |
|---|---|
| 1-chlorooctadecane (SURR) | (40-140) |

# Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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## SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Run Number: FC061125AL

| Client SAMPLE NO. | 1-chlorooctadecane (SURR) | | | TOT OUT |
|---|---|---|---|---|
| PB168408BL | 60 | | | 0 |
| PB168408BS | 76 | | | 0 |
| PB168408BSD | 77 | | | 0 |
| B-187-SB01MS | 139 | | | 0 |
| B-187-SB01MSD | 136 | | | 0 |

| | QC LIMITS |
|---|---|
| 1-chlorooctadecane (SURR) | (40-140) |

# Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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# SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Run Number: FC061225AL

| Client SAMPLE NO. | 1-chlorooctadecane (SURR) | | | TOT OUT |
|---|---|---|---|---|
| B-187-SB01 | 125 | | | 0 |
| B-187-SB02 | 61 | | | 0 |
| B-202-SB01 | 65 | | | 0 |

| | QC LIMITS |
|---|---|
| 1-chlorooctadecane (SURR) | (40-140) |

# Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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## SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Run Number: FD060925AR

| Client SAMPLE NO. | 2-Bromonaphthalene (SURR) | 2-Flurobiphenyl (SURR) | ortho-Terphenyl (SURR) | TOT OUT |
|---|---|---|---|---|
| PB168324BL | 62 | 61 | 58 | 0 |
| PB168324BS | 68 | 67 | 57 | 0 |
| PB168324BSD | 63 | 62 | 53 | 0 |
| EB05312025 | 98 | 95 | 88 | 0 |

| | QC LIMITS |
|---|---|
| 2-Bromonaphthalene (SURR) | (40-140) |
| 2-Flurobiphenyl (SURR) | (40-140) |
| ortho-Terphenyl (SURR) | (40-140) |

# Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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## SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Run Number: FD061125AR

| Client SAMPLE NO. | 2-Bromonaphthalene (SURR) | 2-Flurobiphenyl (SURR) | ortho-Terphenyl (SURR) | TOT OUT |
|---|---|---|---|---|
| PB168408BL | 67 | 65 | 63 | 0 |
| PB168408BS | 73 | 72 | 62 | 0 |
| PB168408BSD | 67 | 66 | 57 | 0 |

| | QC LIMITS |
|---|---|
| 2-Bromonaphthalene (SURR) | (40-140) |
| 2-Flurobiphenyl (SURR) | (40-140) |
| ortho-Terphenyl (SURR) | (40-140) |

# Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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## SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Run Number: FD061225AR

| Client SAMPLE NO. | 2-Bromonaphthalene (SURR) | 2-Flurobiphenyl (SURR) | ortho-Terphenyl (SURR) | TOT OUT |
|---|---|---|---|---|
| B-187-SB02 | 74 | 72 | 74 | 0 |
| B-202-SB01 | 82 | 81 | 75 | 0 |

| | QC LIMITS |
|---|---|
| 2-Bromonaphthalene (SURR) | (40-140) |
| 2-Flurobiphenyl (SURR) | (40-140) |
| ortho-Terphenyl (SURR) | (40-140) |

# Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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## SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Run Number: FD061325AR

| Client SAMPLE NO. | 2-Bromonaphthalene (SURR) | 2-Flurobiphenyl (SURR) | ortho-Terphenyl (SURR) | TOT OUT |
|---|---|---|---|---|
| B-187-SB01 | 48 | 44 | 83 | 0 |
| B-187-SB01MS | 76 | 74 | 65 | 0 |
| B-187-SB01MSD | 77 | 75 | 66 | 0 |

| | QC LIMITS |
|---|---|
| 2-Bromonaphthalene (SURR) | (40-140) |
| 2-Flurobiphenyl (SURR) | (40-140) |
| ortho-Terphenyl (SURR) | (40-140) |

# Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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# SOIL EPH SURROGATE RECOVERY

| | QC LIMITS |
|---|---|
| 2-Bromonaphthalene (SURR) | (40-140) |
| 2-Flurobiphenyl (SURR) | (40-140) |
| ortho-Terphenyl (SURR) | (40-140) |

# Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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## SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Portal Partners Tri-Venture

**Lab Code:** CHEM **Cas No:** Q2177 **SAS No :** Q2177 **SDG No:** Q2177

**Sample No :** Q2177-02MS **Datafile:** FC069165.D **Client ID :** B-187-SB01MS

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 11.9 | 1.10 | 7.50 | 54 | | (40-140) |
| Aliphatic C12-C16 | 7.9 | 3.37 | 9.37 | 76 | | (40-140) |
| Aliphatic C16-C21 | 11.9 | 0.65 | 8.98 | 70 | | (40-140) |
| Aliphatic C21-C28 | 15.8 | 5.91 | 17.2 | 71 | | (40-140) |
| Aliphatic C28-C40 | 23.7 | 6.40 | 22.5 | 68 | | (40-140) |

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## SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Portal Partners Tri-Venture

**Lab Code:** CHEM **Cas No:** Q2177 **SAS No :** Q2177 **SDG No:** Q2177

**Sample No :** Q2177-02MSD **Datafile:** FC069166.D **Client ID :** B-187-SB01MSD

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | RPD \| | QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 11.9 | 1.10 | 7.51 | 54 | | 0.19 \| | (40-140) | 50 |
| Aliphatic C12-C16 | 7.9 | 3.37 | 9.32 | 75 | | 0.79 \| | (40-140) | 50 |
| Aliphatic C16-C21 | 11.9 | 0.65 | 8.85 | 69 | | 1.58 \| | (40-140) | 50 |
| Aliphatic C21-C28 | 15.8 | 5.91 | 16.7 | 68 | | 4.44 \| | (40-140) | 50 |
| Aliphatic C28-C40 | 23.7 | 6.40 | 22.3 | 67 | | 1.19 \| | (40-140) | 50 |

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## SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Portal Partners Tri-Venture

**Lab Code:** CHEM **Cas No:** Q2177 **SAS No :** Q2177 **SDG No:** Q2177

**Sample No :** Q2177-02MS **Datafile:** FD049484.D **Client ID :** B-187-SB01MS

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 7.9 | 0.46 | 2.67 | 28 | * | (40-140) |
| Aromatic C12-C16 | 11.9 | 0.63 | 4.47 | 32 | * | (40-140) |
| Aromatic C16-C21 | 19.8 | 2.27 | 10.5 | 42 | | (40-140) |
| Aromatic C21-C36 | 31.6 | 1.89 | 15.7 | 44 | | (40-140) |

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## SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Portal Partners Tri-Venture

**Lab Code:** CHEM **Cas No:** Q2177 **SAS No :** Q2177 **SDG No:** Q2177

**Sample No :** Q2177-02MSD **Datafile:** FD049485.D **Client ID :** B-187-SB01MSD

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | RPD \| | QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 7.9 | 0.46 | 2.73 | 29 | * | 2.83 \| | (40-140) | 50 |
| Aromatic C12-C16 | 11.9 | 0.63 | 4.61 | 34 | * | 3.64 \| | (40-140) | 50 |
| Aromatic C16-C21 | 19.8 | 2.27 | 10.6 | 42 | | 1.43 \| | (40-140) | 50 |
| Aromatic C21-C36 | 31.6 | 1.89 | 15.8 | 44 | | 0.91 \| | (40-140) | 50 |

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## WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Portal Partners Tri-Venture

**Lab Code:** CHEM **Cas No:** Q2177 **SAS No :** Q2177 **SDG No:** Q2177

**Sample No :** PB168324BS **Datafile:** FC069135.D **Client ID :** PB168324BS

| COMPOUND | SPIKE ADDED ug/l | LCS/LCSD CONCENTRATION ug/l | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 300 | 148 | 49 | | (40-140) |
| Aliphatic C12-C16 | 200 | 123 | 62 | | (40-140) |
| Aliphatic C16-C21 | 300 | 209 | 70 | | (40-140) |
| Aliphatic C21-C28 | 400 | 298 | 74 | | (40-140) |
| Aliphatic C28-C40 | 600 | 420 | 70 | | (40-140) |

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## WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Portal Partners Tri-Venture

**Lab Code:** CHEM **Cas No:** Q2177 **SAS No :** Q2177 **SDG No:** Q2177

**Sample No :** PB168324BSD **Datafile:** FC069136.D **Client ID :** PB168324BSD

| COMPOUND | SPIKE ADDED ug/l | LCS/LCSD CONCENTRATION ug/l | % REC | Qual | RPD \| | QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 300 | 155 | 52 | | 4.7\| | (40-140) | 25 |
| Aliphatic C12-C16 | 200 | 128 | 64 | | 4\| | (40-140) | 25 |
| Aliphatic C16-C21 | 300 | 216 | 72 | | 3.2\| | (40-140) | 25 |
| Aliphatic C21-C28 | 400 | 305 | 76 | | 2.3\| | (40-140) | 25 |
| Aliphatic C28-C40 | 600 | 443 | 74 | | 5.3\| | (40-140) | 25 |

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## SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Portal Partners Tri-Venture

**Lab Code:** CHEM **Cas No:** Q2177 **SAS No :** Q2177 **SDG No:** Q2177

**Sample No :** PB168408BS **Datafile:** FC069158.D **Client ID :** PB168408BS

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 10 | 4.97 | 50 | | (40-140) |
| Aliphatic C12-C16 | 6.7 | 4.11 | 62 | | (40-140) |
| Aliphatic C16-C21 | 10 | 7.02 | 70 | | (40-140) |
| Aliphatic C21-C28 | 13.3 | 10.0 | 75 | | (40-140) |
| Aliphatic C28-C40 | 20.0 | 14.6 | 73 | | (40-140) |

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## SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Portal Partners Tri-Venture

**Lab Code:** CHEM **Cas No:** Q2177 **SAS No :** Q2177 **SDG No:** Q2177

**Sample No :** PB168408BSD **Datafile:** FC069159.D **Client ID :** PB168408BSD

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | RPD \| | QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 10 | 5.03 | 50 | | 1.3\| | (40-140) | 25 |
| Aliphatic C12-C16 | 6.7 | 4.15 | 62 | | 0.98\| | (40-140) | 25 |
| Aliphatic C16-C21 | 10 | 7.07 | 71 | | 0.8\| | (40-140) | 25 |
| Aliphatic C21-C28 | 13.3 | 10.1 | 76 | | 1.1\| | (40-140) | 25 |
| Aliphatic C28-C40 | 20.0 | 15.0 | 75 | | 2.8\| | (40-140) | 25 |

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## WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Portal Partners Tri-Venture

**Lab Code:** CHEM **Cas No:** Q2177 **SAS No :** Q2177 **SDG No:** Q2177

**Sample No :** PB168324BS **Datafile:** FD049416.D **Client ID :** PB168324BS

| COMPOUND | SPIKE ADDED ug/l | LCS/LCSD CONCENTRATION ug/l | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 200 | 91.0 | 46 | | (40-140) |
| Aromatic C12-C16 | 300 | 143 | 48 | | (40-140) |
| Aromatic C16-C21 | 500 | 271 | 54 | | (40-140) |
| Aromatic C21-C36 | 800 | 515 | 64 | | (40-140) |

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## WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Portal Partners Tri-Venture

**Lab Code:** CHEM **Cas No:** Q2177 **SAS No :** Q2177 **SDG No:** Q2177

**Sample No :** PB168324BSD **Datafile:** FD049417.D **Client ID :** PB168324BSD

| COMPOUND | SPIKE ADDED ug/l | LCS/LCSD CONCENTRATION ug/l | % REC | Qual | RPD \| | QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 200 | 83.6 | 42 | | 8.5\| | (40-140) | 25 |
| Aromatic C12-C16 | 300 | 132 | 44 | | 8.1\| | (40-140) | 25 |
| Aromatic C16-C21 | 500 | 254 | 51 | | 6.5\| | (40-140) | 25 |
| Aromatic C21-C36 | 800 | 494 | 62 | | 4.2\| | (40-140) | 25 |

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## SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Portal Partners Tri-Venture

**Lab Code:** CHEM **Cas No:** Q2177 **SAS No :** Q2177 **SDG No:** Q2177

**Sample No :** PB168408BS **Datafile:** FD049433.D **Client ID :** PB168408BS

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 6.7 | 3.20 | 48 | | (40-140) |
| Aromatic C12-C16 | 10 | 5.11 | 51 | | (40-140) |
| Aromatic C16-C21 | 16.7 | 9.80 | 59 | | (40-140) |
| Aromatic C21-C36 | 26.6 | 18.5 | 69 | | (40-140) |

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## SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Portal Partners Tri-Venture

**Lab Code:** CHEM **Cas No:** Q2177 **SAS No :** Q2177 **SDG No:** Q2177

**Sample No :** PB168408BSD **Datafile:** FD049434.D **Client ID :** PB168408BSD

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | RPD \| | QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 6.7 | 2.95 | 44 | | 8\| | (40-140) | 25 |
| Aromatic C12-C16 | 10 | 4.68 | 47 | | 8.7\| | (40-140) | 25 |
| Aromatic C16-C21 | 16.7 | 9.01 | 54 | | 8.3\| | (40-140) | 25 |
| Aromatic C21-C36 | 26.6 | 17.5 | 66 | | 5.5\| | (40-140) | 25 |

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168324BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Instrument ID: FID_C Lab Sample ID: PB168324BL

Matrix: (soil/water) Water Date Extracted: 6/6/2025 9:10:00 AM

Level: (low/med) low

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

| EPA SAMPLE NO. | LAB SAMPLE ID |
|---|---|
| PB168324BS | PB168324BS |
| PB168324BSD | PB168324BSD |
| EB05312025 | Q2177-08 |

COMMENTS:

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168408BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Instrument ID: FID_C Lab Sample ID: PB168408BL

Matrix: (soil/water) Solid Date Extracted: 6/11/2025 8:45:00 A

Level: (low/med) low

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

| EPA SAMPLE NO. | LAB SAMPLE ID |
|---|---|
| PB168408BS | PB168408BS |
| PB168408BSD | PB168408BSD |
| B-187-SB01 | Q2177-02 |
| B-187-SB01MS | Q2177-02MS |
| B-187-SB01MSD | Q2177-02MSD |
| B-187-SB02 | Q2177-04 |
| B-202-SB01 | Q2177-06 |

COMMENTS:

# QC SAMPLE DATA

Raw Data: **FC069134.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168324BL | SDG No.: | Q2177 |
| Lab Sample ID: | PB168324BL | Matrix: | Water |
| Analytical Method: | NJEPH | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | SW3510 | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 06/06/25 09:10 | 06/09/25 16:17 | PB168324 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 8.28 | U | 1 | 8.28 | 30.0 | ug/l | FC069134.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 13.5 | U | 1 | 13.5 | 20.0 | ug/l | FC069134.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.34 | U | 1 | 8.34 | 30.0 | ug/l | FC069134.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 12.5 | U | 1 | 12.5 | 40.0 | ug/l | FC069134.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 23.8 | U | 1 | 23.8 | 60.0 | ug/l | FC069134.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 2.07 | U | 1 | 2.07 | 20.0 | ug/l | FD049415.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 4.26 | U | 1 | 4.26 | 30.0 | ug/l | FD049415.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 8.27 | U | 1 | 8.27 | 50.0 | ug/l | FD049415.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 23.8 | U | 1 | 23.8 | 80.0 | ug/l | FD049415.D |
| Total AliphaticEPH | Total AliphaticEPH | 66.4 | U | | 66.4 | 180 | ug/l | |
| Total AromaticEPH | Total AromaticEPH | 38.4 | U | | 38.4 | 180 | ug/l | |
| Total EPH | Total EPH | 105 | U | | 105 | 360 | ug/l | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC069134.D**

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | Date Collected: | | |
| Project: | Amtrak Sawtooth Bridges 2025 | | Date Received: | | |
| Client Sample ID: | PB168324BL | | SDG No.: | Q2177 | |
| Lab Sample ID: | PB168324BL | | Matrix: | Water | |
| Analytical Method: | NJEPH | | % Solid: | 0 | |
| Sample Wt/Vol: | 1000 Units: | mL | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | SW3510 | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC069134.D | 1 | 06/06/25 | 06/09/25 | PB168324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 8.28 | U | 8.28 | 30.0 | ug/l |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 13.5 | U | 13.5 | 20.0 | ug/l |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.34 | U | 8.34 | 30.0 | ug/l |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 12.5 | U | 12.5 | 40.0 | ug/l |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 23.8 | U | 23.8 | 60.0 | ug/l |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 29.9 | | 40 - 140 | 60% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB168324BL | Acq On: | 09 Jun 2025 16:17 |
| Client Sample ID: | PB168324BL | Operator: | YP/AJ |
| Data file: | FC069134.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 11 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.299 | 6.602 | 0 | 0 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.603 | 10.008 | 0 | 0 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.009 | 13.379 | 0 | 0 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.380 | 17.047 | 0 | 0 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.048 | 22.037 | 0 | 0 | 600 | ug/ml |
| Aliphatic EPH | 3.299 | 22.037 | 0 | 0 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.113 | 13.113 | 2680219 | 29.88 | | ug/ml |
| Aliphatic C9-C28 | 3.299 | 17.047 | 0 | 0 | 1200 | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | Date Collected: | | |
| Project: | Amtrak Sawtooth Bridges 2025 | | Date Received: | | |
| Client Sample ID: | PB168324BL | | SDG No.: | Q2177 | |
| Lab Sample ID: | PB168324BL | | Matrix: | Water | |
| Analytical Method: | NJEPH | | % Solid: | 0 | |
| Sample Wt/Vol: | 1000 Units: | mL | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | SW3510 | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD049415.D | 1 | 06/06/25 | 06/09/25 | PB168324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 2.07 | U | 2.07 | 20.0 | ug/l |
| Aromatic C12-C16 | Aromatic C12-C16 | 4.26 | U | 4.26 | 30.0 | ug/l |
| Aromatic C16-C21 | Aromatic C16-C21 | 8.27 | U | 8.27 | 50.0 | ug/l |
| Aromatic C21-C36 | Aromatic C21-C36 | 23.8 | U | 23.8 | 80.0 | ug/l |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 31.2 | | 40 - 140 | 62% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 30.3 | | 40 - 140 | 61% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 29.2 | | 40 - 140 | 58% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB168324BL | Acq On: | 09 Jun 2025 16:17 |
| Client Sample ID: | PB168324BL | Operator: | YP/AJ |
| Data file: | FD049415.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 61 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic EPH | 4.424 | 18.512 | 0 | 0 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.733 | 7.733 | 5192860 | 31.24 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.598 | 8.598 | 3467147 | 30.31 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.645 | 11.645 | 5861022 | 29.2 | | ug/ml |
| Aromatic C10-C12 | 4.424 | 6.169 | 0 | 0 | 200 | ug/ml |
| Aromatic C12-C16 | 6.170 | 8.798 | 0 | 0 | 300 | ug/ml |
| Aromatic C16-C21 | 8.799 | 13.089 | 0 | 0 | 500 | ug/ml |
| Aromatic C21-C36 | 13.090 | 18.512 | 0 | 0 | 800 | ug/ml |

Raw Data: **FC069157.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168408BL | SDG No.: | Q2177 |
| Lab Sample ID: | PB168408BL | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 06/11/25 08:45 | 06/11/25 16:33 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.14 | U | 1 | 0.14 | 1.00 | mg/kg | FC069157.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 0.11 | U | 1 | 0.11 | 0.67 | mg/kg | FC069157.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 0.13 | U | 1 | 0.13 | 1.00 | mg/kg | FC069157.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.53 | U | 1 | 0.53 | 1.33 | mg/kg | FC069157.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.18 | U | 1 | 1.18 | 2.00 | mg/kg | FC069157.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.12 | U | 1 | 0.12 | 0.67 | mg/kg | FD049432.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.23 | U | 1 | 0.23 | 1.00 | mg/kg | FD049432.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 0.40 | U | 1 | 0.40 | 1.67 | mg/kg | FD049432.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 1.19 | U | 1 | 1.19 | 2.67 | mg/kg | FD049432.D |
| Total AliphaticEPH | Total AliphaticEPH | 2.09 | U | | 2.09 | 6.00 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 1.94 | U | | 1.94 | 6.01 | mg/kg | |
| Total EPH | Total EPH | 4.03 | U | | 4.03 | 12.0 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC069157.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168408BL | SDG No.: | Q2177 |
| Lab Sample ID: | PB168408BL | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC069157.D | 1 | 06/11/25 | 06/11/25 | PB168408 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | | 0.14 | U | 0.14 | 1.00 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | | 0.11 | U | 0.11 | 0.67 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | | 0.13 | U | 0.13 | 1.00 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | | 0.53 | U | 0.53 | 1.33 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 1.18 | U | 1.18 | 2.00 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 30.1 | | 40 - 140 | 60% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB168408BL | Acq On: | 11 Jun 2025 16:33 |
| Client Sample ID: | PB168408BL | Operator: | YP/AJ |
| Data file: | FC069157.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 11 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.303 | 6.605 | 0 | 0 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.606 | 10.010 | 0 | 0 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.011 | 13.380 | 0 | 0 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.381 | 17.048 | 0 | 0 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.049 | 22.033 | 0 | 0 | 600 | ug/ml |
| Aliphatic EPH | 3.303 | 22.033 | 0 | 0 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.115 | 13.115 | 2699214 | 30.09 | | ug/ml |
| Aliphatic C9-C28 | 3.303 | 17.048 | 0 | 0 | 1200 | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | Date Collected: | | |
| Project: | Amtrak Sawtooth Bridges 2025 | | Date Received: | | |
| Client Sample ID: | PB168408BL | | SDG No.: | Q2177 | |
| Lab Sample ID: | PB168408BL | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 100 | |
| Sample Wt/Vol: | 30.01 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD049432.D | 1 | 06/11/25 | 06/11/25 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.12 | U | 0.12 | 0.67 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.23 | U | 0.23 | 1.00 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 0.40 | U | 0.40 | 1.67 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 1.19 | U | 1.19 | 2.67 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 33.6 | | 40 - 140 | 67% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 32.5 | | 40 - 140 | 65% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 31.4 | | 40 - 140 | 63% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB168408BL | Acq On: | 11 Jun 2025 16:33 |
| Client Sample ID: | PB168408BL | Operator: | YP/AJ |
| Data file: | FD049432.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 61 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.424 | 6.168 | 0 | 0 | 200 | ug/ml |
| Aromatic C12-C16 | 6.169 | 8.797 | 0 | 0 | 300 | ug/ml |
| Aromatic C16-C21 | 8.798 | 13.088 | 0 | 0 | 500 | ug/ml |
| Aromatic C21-C36 | 13.089 | 18.509 | 0 | 0 | 800 | ug/ml |
| Aromatic EPH | 4.424 | 18.509 | 0 | 0 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.733 | 7.733 | 5580932 | 33.57 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.598 | 8.598 | 3722980 | 32.54 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.645 | 11.645 | 6306403 | 31.42 | | ug/ml |

Raw Data: **FC069135.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168324BS | SDG No.: | Q2177 |
| Lab Sample ID: | PB168324BS | Matrix: | Water |
| Analytical Method: | NJEPH | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | SW3510 | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 06/06/25 09:10 | 06/09/25 16:57 | PB168324 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 148 | | 1 | 8.28 | 30.0 | ug/l | FC069135.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 123 | | 1 | 13.5 | 20.0 | ug/l | FC069135.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 209 | | 1 | 8.34 | 30.0 | ug/l | FC069135.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 298 | | 1 | 12.5 | 40.0 | ug/l | FC069135.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 420 | | 1 | 23.8 | 60.0 | ug/l | FC069135.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 91.0 | | 1 | 2.07 | 20.0 | ug/l | FD049416.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 143 | | 1 | 4.26 | 30.0 | ug/l | FD049416.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 271 | | 1 | 8.27 | 50.0 | ug/l | FD049416.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 515 | | 1 | 23.8 | 80.0 | ug/l | FD049416.D |
| Total AliphaticEPH | Total AliphaticEPH | 1200 | | | 66.4 | 180 | ug/l | |
| Total AromaticEPH | Total AromaticEPH | 1020 | | | 38.4 | 180 | ug/l | |
| Total EPH | Total EPH | 2220 | | | 105 | 360 | ug/l | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC069135.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | Date Collected: | | |
| Project: | Amtrak Sawtooth Bridges 2025 | | Date Received: | | |
| Client Sample ID: | PB168324BS | | SDG No.: | Q2177 | |
| Lab Sample ID: | PB168324BS | | Matrix: | Water | |
| Analytical Method: | NJEPH | | % Solid: | 0 | |
| Sample Wt/Vol: | 1000 Units: | mL | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | SW3510 | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC069135.D | 1 | 06/06/25 | 06/09/25 | PB168324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 148 | | 8.28 | 30.0 | ug/l |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 123 | | 13.5 | 20.0 | ug/l |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 209 | | 8.34 | 30.0 | ug/l |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 298 | | 12.5 | 40.0 | ug/l |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 420 | | 23.8 | 60.0 | ug/l |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 37.5 | | 40 - 140 | 75% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB168324BS | Acq On: | 09 Jun 2025 16:57 |
| Client Sample ID: | PB168324BS | Operator: | YP/AJ |
| Data file: | FC069135.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 12 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.299 | 6.602 | 7850856 | 74.263 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.603 | 10.008 | 6291363 | 61.689 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.009 | 13.379 | 10246363 | 104.699 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.380 | 17.047 | 14009671 | 149.351 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.048 | 22.037 | 19850508 | 210.194 | 600 | ug/ml |
| Aliphatic EPH | 3.299 | 22.037 | 58248761 | 600.195 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.113 | 13.113 | 3366566 | 37.53 | | ug/ml |
| Aliphatic C9-C28 | 3.299 | 17.047 | 38398253 | 390.002 | 1200 | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | Date Collected: | | |
| Project: | Amtrak Sawtooth Bridges 2025 | | Date Received: | | |
| Client Sample ID: | PB168324BS | | SDG No.: | Q2177 | |
| Lab Sample ID: | PB168324BS | | Matrix: | Water | |
| Analytical Method: | NJEPH | | % Solid: | 0 | |
| Sample Wt/Vol: | 1000 | Units: mL | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | SW3510 | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD049416.D | 1 | 06/06/25 | 06/09/25 | PB168324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 91.0 | | 2.07 | 20.0 | ug/l |
| Aromatic C12-C16 | Aromatic C12-C16 | 143 | | 4.26 | 30.0 | ug/l |
| Aromatic C16-C21 | Aromatic C16-C21 | 271 | | 8.27 | 50.0 | ug/l |
| Aromatic C21-C36 | Aromatic C21-C36 | 515 | | 23.8 | 80.0 | ug/l |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 34.1 | | 40 - 140 | 68% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 33.4 | | 40 - 140 | 67% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 28.7 | | 40 - 140 | 57% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB168324BS | Acq On: | 09 Jun 2025 16:57 |
| Client Sample ID: | PB168324BS | Operator: | YP/AJ |
| Data file: | FD049416.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 62 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic EPH | 4.424 | 18.512 | 83543638 | 510.779 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.733 | 7.733 | 5669143 | 34.1 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.599 | 8.599 | 3820043 | 33.39 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.645 | 11.645 | 5766961 | 28.73 | | ug/ml |
| Aromatic C10-C12 | 4.424 | 6.169 | 7612744 | 45.491 | 200 | ug/ml |
| Aromatic C12-C16 | 6.170 | 8.798 | 13453369 | 71.742 | 300 | ug/ml |
| Aromatic C16-C21 | 8.799 | 13.089 | 25095627 | 135.843 | 500 | ug/ml |
| Aromatic C21-C36 | 13.090 | 18.512 | 37381898 | 257.703 | 800 | ug/ml |

Raw Data: **FC069158.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168408BS | SDG No.: | Q2177 |
| Lab Sample ID: | PB168408BS | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 06/11/25 08:45 | 06/11/25 17:15 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 4.97 | | 1 | 0.14 | 1.00 | mg/kg | FC069158.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 4.11 | | 1 | 0.11 | 0.67 | mg/kg | FC069158.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 7.02 | | 1 | 0.13 | 1.00 | mg/kg | FC069158.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 10.0 | | 1 | 0.53 | 1.33 | mg/kg | FC069158.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 14.6 | | 1 | 1.18 | 2.00 | mg/kg | FC069158.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 3.20 | | 1 | 0.12 | 0.67 | mg/kg | FD049433.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 5.11 | | 1 | 0.23 | 1.00 | mg/kg | FD049433.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 9.80 | | 1 | 0.40 | 1.67 | mg/kg | FD049433.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 18.5 | | 1 | 1.19 | 2.66 | mg/kg | FD049433.D |
| Total AliphaticEPH | Total AliphaticEPH | 40.7 | | | 2.09 | 5.99 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 36.6 | | | 1.94 | 6.00 | mg/kg | |
| Total EPH | Total EPH | 77.3 | | | 4.03 | 12.0 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC069158.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168408BS | SDG No.: | Q2177 |
| Lab Sample ID: | PB168408BS | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC069158.D | 1 | 06/11/25 | 06/11/25 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 4.97 | | 0.14 | 1.00 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 4.11 | | 0.11 | 0.67 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 7.02 | | 0.13 | 1.00 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 10.0 | | 0.53 | 1.33 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 14.6 | | 1.18 | 2.00 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 38.0 | | 40 - 140 | 76% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB168408BS | Acq On: | 11 Jun 2025 17:15 |
| Client Sample ID: | PB168408BS | Operator: | YP/AJ |
| Data file: | FC069158.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 12 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.303 | 6.605 | 7878783 | 74.527 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.606 | 10.010 | 6284249 | 61.619 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.011 | 13.380 | 10319394 | 105.445 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.381 | 17.048 | 14134902 | 150.686 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.049 | 22.033 | 20659158 | 218.757 | 600 | ug/ml |
| Aliphatic EPH | 3.303 | 22.033 | 59276486 | 611.033 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.116 | 13.116 | 3406395 | 37.97 | | ug/ml |
| Aliphatic C9-C28 | 3.303 | 17.048 | 38617328 | 392.277 | 1200 | ug/ml |

Raw Data: **FD049433.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168408BS | SDG No.: | Q2177 |
| Lab Sample ID: | PB168408BS | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD049433.D | 1 | 06/11/25 | 06/11/25 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 3.20 | | 0.12 | 0.67 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 5.11 | | 0.23 | 1.00 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 9.80 | | 0.40 | 1.67 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 18.5 | | 1.19 | 2.66 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 36.6 | | 40 - 140 | 73% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 36.1 | | 40 - 140 | 72% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 31.0 | | 40 - 140 | 62% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB168408BS | Acq On: | 11 Jun 2025 17:15 |
| Client Sample ID: | PB168408BS | Operator: | YP/AJ |
| Data file: | FD049433.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 62 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.424 | 6.168 | 8036884 | 48.026 | 200 | ug/ml |
| Aromatic C12-C16 | 6.169 | 8.797 | 14391225 | 76.743 | 300 | ug/ml |
| Aromatic C16-C21 | 8.798 | 13.088 | 27187051 | 147.164 | 500 | ug/ml |
| Aromatic C21-C36 | 13.089 | 18.509 | 40239912 | 277.406 | 800 | ug/ml |
| Aromatic EPH | 4.424 | 18.509 | 89855072 | 549.338 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.733 | 7.733 | 6082670 | 36.59 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.599 | 8.599 | 4126519 | 36.07 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.645 | 11.645 | 6218341 | 30.98 | | ug/ml |

Raw Data: **FC069136.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168324BSD | SDG No.: | Q2177 |
| Lab Sample ID: | PB168324BSD | Matrix: | Water |
| Analytical Method: | NJEPH | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | SW3510 | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 06/06/25 09:10 | 06/09/25 17:37 | PB168324 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 155 | | 1 | 8.28 | 30.0 | ug/l | FC069136.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 128 | | 1 | 13.5 | 20.0 | ug/l | FC069136.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 216 | | 1 | 8.34 | 30.0 | ug/l | FC069136.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 305 | | 1 | 12.5 | 40.0 | ug/l | FC069136.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 443 | | 1 | 23.8 | 60.0 | ug/l | FC069136.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 83.6 | | 1 | 2.07 | 20.0 | ug/l | FD049417.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 132 | | 1 | 4.26 | 30.0 | ug/l | FD049417.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 254 | | 1 | 8.27 | 50.0 | ug/l | FD049417.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 494 | | 1 | 23.8 | 80.0 | ug/l | FD049417.D |
| Total AliphaticEPH | Total AliphaticEPH | 1250 | | | 66.4 | 180 | ug/l | |
| Total AromaticEPH | Total AromaticEPH | 964 | | | 38.4 | 180 | ug/l | |
| Total EPH | Total EPH | 2210 | | | 105 | 360 | ug/l | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | Date Collected: | | |
| Project: | Amtrak Sawtooth Bridges 2025 | | Date Received: | | |
| Client Sample ID: | PB168324BSD | | SDG No.: | Q2177 | |
| Lab Sample ID: | PB168324BSD | | Matrix: | Water | |
| Analytical Method: | NJEPH | | % Solid: | 0 | |
| Sample Wt/Vol: | 1000 | Units: mL | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | SW3510 | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC069136.D | 1 | 06/06/25 | 06/09/25 | PB168324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 155 | | 8.28 | 30.0 | ug/l |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 128 | | 13.5 | 20.0 | ug/l |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 216 | | 8.34 | 30.0 | ug/l |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 305 | | 12.5 | 40.0 | ug/l |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 443 | | 23.8 | 60.0 | ug/l |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 38.9 | | 40 - 140 | 78% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB168324BSD | Acq On: | 09 Jun 2025 17:37 |
| Client Sample ID: | PB168324BSD | Operator: | YP/AJ |
| Data file: | FC069136.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 13 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.299 | 6.602 | 8233812 | 77.885 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.603 | 10.008 | 6547841 | 64.204 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.009 | 13.379 | 10596367 | 108.275 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.380 | 17.047 | 14345368 | 152.929 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.048 | 22.037 | 20933938 | 221.666 | 600 | ug/ml |
| Aliphatic EPH | 3.299 | 22.037 | 60657326 | 624.959 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.114 | 13.114 | 3493029 | 38.94 | | ug/ml |
| Aliphatic C9-C28 | 3.299 | 17.047 | 39723388 | 403.293 | 1200 | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | Date Collected: | | |
| Project: | Amtrak Sawtooth Bridges 2025 | | Date Received: | | |
| Client Sample ID: | PB168324BSD | | SDG No.: | Q2177 | |
| Lab Sample ID: | PB168324BSD | | Matrix: | Water | |
| Analytical Method: | NJEPH | | % Solid: | 0 | |
| Sample Wt/Vol: | 1000 Units: | mL | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | SW3510 | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD049417.D | 1 | 06/06/25 | 06/09/25 | PB168324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 83.6 | | 2.07 | 20.0 | ug/l |
| Aromatic C12-C16 | Aromatic C12-C16 | 132 | | 4.26 | 30.0 | ug/l |
| Aromatic C16-C21 | Aromatic C16-C21 | 254 | | 8.27 | 50.0 | ug/l |
| Aromatic C21-C36 | Aromatic C21-C36 | 494 | | 23.8 | 80.0 | ug/l |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 31.5 | | 40 - 140 | 63% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 31.0 | | 40 - 140 | 62% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 26.7 | | 40 - 140 | 53% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB168324BSD | Acq On: | 09 Jun 2025 17:37 |
| Client Sample ID: | PB168324BSD | Operator: | YP/AJ |
| Data file: | FD049417.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 63 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic EPH | 4.424 | 18.512 | 78760873 | 482.341 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.733 | 7.733 | 5235013 | 31.49 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.598 | 8.598 | 3547472 | 31.01 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.644 | 11.644 | 5354384 | 26.68 | | ug/ml |
| Aromatic C10-C12 | 4.424 | 6.169 | 6996325 | 41.808 | 200 | ug/ml |
| Aromatic C12-C16 | 6.170 | 8.798 | 12430561 | 66.287 | 300 | ug/ml |
| Aromatic C16-C21 | 8.799 | 13.089 | 23494396 | 127.175 | 500 | ug/ml |
| Aromatic C21-C36 | 13.090 | 18.512 | 35839591 | 247.071 | 800 | ug/ml |

Raw Data: **FC069159.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168408BSD | SDG No.: | Q2177 |
| Lab Sample ID: | PB168408BSD | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 06/11/25 08:45 | 06/11/25 17:57 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 5.03 | | 1 | 0.14 | 1.00 | mg/kg | FC069159.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 4.15 | | 1 | 0.11 | 0.67 | mg/kg | FC069159.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 7.07 | | 1 | 0.13 | 1.00 | mg/kg | FC069159.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 10.1 | | 1 | 0.53 | 1.33 | mg/kg | FC069159.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 15.0 | | 1 | 1.18 | 2.00 | mg/kg | FC069159.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 2.95 | | 1 | 0.12 | 0.67 | mg/kg | FD049434.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 4.68 | | 1 | 0.23 | 1.00 | mg/kg | FD049434.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 9.01 | | 1 | 0.40 | 1.67 | mg/kg | FD049434.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 17.5 | | 1 | 1.19 | 2.66 | mg/kg | FD049434.D |
| Total AliphaticEPH | Total AliphaticEPH | 41.4 | | | 2.09 | 5.99 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 34.1 | | | 1.94 | 6.00 | mg/kg | |
| Total EPH | Total EPH | 75.5 | | | 4.03 | 12.0 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC069159.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | PB168408BSD | SDG No.: | Q2177 |
| Lab Sample ID: | PB168408BSD | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC069159.D | 1 | 06/11/25 | 06/11/25 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 5.03 | | 0.14 | 1.00 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 4.15 | | 0.11 | 0.67 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 7.07 | | 0.13 | 1.00 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 10.1 | | 0.53 | 1.33 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 15.0 | | 1.18 | 2.00 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 38.6 | | 40 - 140 | 77% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB168408BSD | Acq On: | 11 Jun 2025 17:57 |
| Client Sample ID: | PB168408BSD | Operator: | YP/AJ |
| Data file: | FC069159.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 13 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.303 | 6.605 | 7987311 | 75.553 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.606 | 10.010 | 6351024 | 62.274 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.011 | 13.380 | 10389514 | 106.162 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.381 | 17.048 | 14283947 | 152.275 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.049 | 22.033 | 21300229 | 225.545 | 600 | ug/ml |
| Aliphatic EPH | 3.303 | 22.033 | 60312025 | 621.808 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.115 | 13.115 | 3465185 | 38.62 | | ug/ml |
| Aliphatic C9-C28 | 3.303 | 17.048 | 39011796 | 396.264 | 1200 | ug/ml |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | Date Collected: | | |
| Project: | Amtrak Sawtooth Bridges 2025 | | Date Received: | | |
| Client Sample ID: | PB168408BSD | | SDG No.: | Q2177 | |
| Lab Sample ID: | PB168408BSD | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 100 | |
| Sample Wt/Vol: | 30.03 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD049434.D | 1 | 06/11/25 | 06/11/25 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 2.95 | | 0.12 | 0.67 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 4.68 | | 0.23 | 1.00 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 9.01 | | 0.40 | 1.67 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 17.5 | | 1.19 | 2.66 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 33.5 | | 40 - 140 | 67% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 33.1 | | 40 - 140 | 66% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 28.3 | | 40 - 140 | 57% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB168408BSD | Acq On: | 11 Jun 2025 17:57 |
| Client Sample ID: | PB168408BSD | Operator: | YP/AJ |
| Data file: | FD049434.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 63 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.424 | 6.168 | 7419926 | 44.339 | 200 | ug/ml |
| Aromatic C12-C16 | 6.169 | 8.797 | 13190807 | 70.341 | 300 | ug/ml |
| Aromatic C16-C21 | 8.798 | 13.088 | 25003970 | 135.346 | 500 | ug/ml |
| Aromatic C21-C36 | 13.089 | 18.509 | 38067969 | 262.433 | 800 | ug/ml |
| Aromatic EPH | 4.424 | 18.509 | 83682672 | 512.46 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.732 | 7.732 | 5575880 | 33.54 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.598 | 8.598 | 3792496 | 33.15 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.643 | 11.643 | 5678306 | 28.29 | | ug/ml |

Raw Data: **FC069165.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | B-187-SB01MS | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02MS | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 84.2 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 06/11/25 08:45 | 06/11/25 22:09 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 7.50 | | 1 | 0.17 | 1.19 | mg/kg | FC069165.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 9.37 | | 1 | 0.13 | 0.79 | mg/kg | FC069165.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.98 | | 1 | 0.15 | 1.19 | mg/kg | FC069165.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 17.2 | | 1 | 0.63 | 1.58 | mg/kg | FC069165.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 22.5 | | 1 | 1.40 | 2.37 | mg/kg | FC069165.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 2.67 | | 1 | 0.14 | 0.79 | mg/kg | FD049484.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 4.47 | | 1 | 0.27 | 1.19 | mg/kg | FD049484.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 10.5 | | 1 | 0.48 | 1.98 | mg/kg | FD049484.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 15.7 | | 1 | 1.41 | 3.16 | mg/kg | FD049484.D |
| Total AliphaticEPH | Total AliphaticEPH | 65.5 | | | 2.48 | 7.12 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 33.3 | | | 2.30 | 7.12 | mg/kg | |
| Total EPH | Total EPH | 98.9 | | | 4.78 | 14.2 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC069165.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | B-187-SB01MS | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02MS | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 84.2 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC069165.D | 1 | 06/11/25 | 06/11/25 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 7.50 | | 0.17 | 1.19 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 9.37 | | 0.13 | 0.79 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.98 | | 0.15 | 1.19 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 17.2 | | 0.63 | 1.58 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 22.5 | | 1.40 | 2.37 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 69.3 | | 40 - 140 | 139% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q2177-02MS | Acq On: | 11 Jun 2025 22:09 |
| Client Sample ID: | B-187-SB01MS | Operator: | YP/AJ |
| Data file: | FC069165.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 19 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.303 | 6.605 | 10028434 | 94.861 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.606 | 10.010 | 12078324 | 118.432 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.011 | 13.380 | 11106710 | 113.49 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.381 | 17.048 | 20368594 | 217.14 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.049 | 22.033 | 26847943 | 284.289 | 600 | ug/ml |
| Aliphatic EPH | 3.303 | 22.033 | 80430005 | 828.211 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.118 | 13.118 | 6218026 | 69.31 | | ug/ml |
| Aliphatic C9-C28 | 3.303 | 17.048 | 53582062 | 543.923 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | B-187-SB01MS | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02MS | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 84.2 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD049484.D | 1 | 06/11/25 | 06/13/25 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 2.67 | | 0.14 | 0.79 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 4.47 | | 0.27 | 1.19 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 10.5 | | 0.48 | 1.98 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 15.7 | | 1.41 | 3.16 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 37.8 | | 40 - 140 | 76% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 37.0 | | 40 - 140 | 74% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 32.5 | | 40 - 140 | 65% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q2177-02MS | Acq On: | 13 Jun 2025 09:48 |
| Client Sample ID: | B-187-SB01MS | Operator: | YP/AJ |
| Data file: | FD049484.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 63 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.424 | 6.168 | 5645060 | 33.733 | 200 | ug/ml |
| Aromatic C12-C16 | 6.169 | 8.796 | 10587299 | 56.458 | 300 | ug/ml |
| Aromatic C16-C21 | 8.797 | 13.086 | 24624254 | 133.291 | 500 | ug/ml |
| Aromatic C21-C36 | 13.087 | 18.508 | 28854300 | 198.916 | 800 | ug/ml |
| Aromatic EPH | 4.424 | 18.508 | 69710913 | 422.398 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.733 | 7.733 | 6278432 | 37.77 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.598 | 8.598 | 4233429 | 37.01 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.644 | 11.644 | 6518438 | 32.48 | | ug/ml |

Raw Data: **FC069166.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | B-187-SB01MSD | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02MSD | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 84.2 |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 06/11/25 08:45 | 06/11/25 22:50 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 7.51 | | 1 | 0.17 | 1.19 | mg/kg | FC069166.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 9.32 | | 1 | 0.13 | 0.79 | mg/kg | FC069166.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.85 | | 1 | 0.15 | 1.19 | mg/kg | FC069166.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 16.7 | | 1 | 0.63 | 1.58 | mg/kg | FC069166.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 22.3 | | 1 | 1.40 | 2.37 | mg/kg | FC069166.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 2.73 | | 1 | 0.14 | 0.79 | mg/kg | FD049485.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 4.61 | | 1 | 0.27 | 1.19 | mg/kg | FD049485.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 10.6 | | 1 | 0.47 | 1.98 | mg/kg | FD049485.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 15.8 | | 1 | 1.41 | 3.16 | mg/kg | FD049485.D |
| Total AliphaticEPH | Total AliphaticEPH | 64.7 | | | 2.48 | 7.12 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 33.7 | | | 2.30 | 7.12 | mg/kg | |
| Total EPH | Total EPH | 98.4 | | | 4.78 | 14.2 | mg/kg | |

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC069166.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Portal Partners Tri-Venture | | Date Collected: | | |
| Project: | Amtrak Sawtooth Bridges 2025 | | Date Received: | | |
| Client Sample ID: | B-187-SB01MSD | | SDG No.: | Q2177 | |
| Lab Sample ID: | Q2177-02MSD | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 84.2 | |
| Sample Wt/Vol: | 30.04 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH | |
| Prep Method : | | | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC069166.D | 1 | 06/11/25 | 06/11/25 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 7.51 | | 0.17 | 1.19 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 9.32 | | 0.13 | 0.79 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 8.85 | | 0.15 | 1.19 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 16.7 | | 0.63 | 1.58 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 22.3 | | 1.40 | 2.37 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 68.0 | | 40 - 140 | 136% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q2177-02MSD | Acq On: | 11 Jun 2025 22:50 |
| Client Sample ID: | B-187-SB01MSD | Operator: | YP/AJ |
| Data file: | FC069166.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 20 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.303 | 6.605 | 10039489 | 94.965 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.606 | 10.010 | 12019786 | 117.858 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.011 | 13.380 | 10951250 | 111.902 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.381 | 17.048 | 19867548 | 211.799 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.049 | 22.033 | 26623937 | 281.917 | 600 | ug/ml |
| Aliphatic EPH | 3.303 | 22.033 | 79502010 | 818.44 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.118 | 13.118 | 6098846 | 67.98 | | ug/ml |
| Aliphatic C9-C28 | 3.303 | 17.048 | 52878073 | 536.524 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | |
| Client Sample ID: | B-187-SB01MSD | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02MSD | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 84.2 |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FD049485.D | 1 | 06/11/25 | 06/13/25 | PB168408 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aromatic C10-C12 | Aromatic C10-C12 | 2.73 | | 0.14 | 0.79 | mg/kg |
| Aromatic C12-C16 | Aromatic C12-C16 | 4.61 | | 0.27 | 1.19 | mg/kg |
| Aromatic C16-C21 | Aromatic C16-C21 | 10.6 | | 0.47 | 1.98 | mg/kg |
| Aromatic C21-C36 | Aromatic C21-C36 | 15.8 | | 1.41 | 3.16 | mg/kg |
| **SURROGATES** | | | | | | |
| 580-13-2 | 2-Bromonaphthalene (SURR) | 38.6 | | 40 - 140 | 77% | SPK: 50 |
| 321-60-8 | 2-Flurobiphenyl (SURR) | 37.7 | | 40 - 140 | 75% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 32.9 | | 40 - 140 | 66% | SPK: 50 |

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# Quantitation Report For Aromatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q2177-02MSD | Acq On: | 13 Jun 2025 10:28 |
| Client Sample ID: | B-187-SB01MSD | Operator: | YP/AJ |
| Data file: | FD049485.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 64 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.424 | 6.168 | 5780149 | 34.54 | 200 | ug/ml |
| Aromatic C12-C16 | 6.169 | 8.796 | 10942801 | 58.354 | 300 | ug/ml |
| Aromatic C16-C21 | 8.797 | 13.086 | 24851315 | 134.52 | 500 | ug/ml |
| Aromatic C21-C36 | 13.087 | 18.508 | 28939612 | 199.504 | 800 | ug/ml |
| Aromatic EPH | 4.424 | 18.508 | 70513877 | 426.918 | | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.733 | 7.733 | 6422490 | 38.64 | | ug/ml |
| 2-Flurobiphenyl (SURR) | 8.599 | 8.599 | 4310794 | 37.68 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.644 | 11.644 | 6612603 | 32.94 | | ug/ml |

# CALIBRATION SUMMARY

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# Inital Calibration Report for SequenceID : FC052425AL

**AreaCount**

| Parameter Range | FC068998.D | FC068999.D | FC069000.D | FC069001.D | FC069002.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 30972986.000 | 14697820.000 | 6552580.000 | 3389981.000 | 1577245.000 | |
| Aliphatic C12-C16 | 19730095.000 | 9409770.000 | 4233296.000 | 2174844.000 | 1026044.000 | |
| Aliphatic C16-C21 | 27989044.000 | 13592271.000 | 6091143.000 | 3134146.000 | 1491343.000 | |
| Aliphatic C21-C28 | 35203824.000 | 17414178.000 | 7749092.000 | 4002009.000 | 1940505.000 | |
| Aliphatic C28-C40 | 51848700.000 | 25927287.000 | 11552782.000 | 6038750.000 | 3073121.000 | |
| Aliphatic EPH | 165744649.000 | 81041326.000 | 36178893.000 | 18739730.000 | 9108258.000 | |

**AVG Response Factor**

| Parameter Range | AVG RF | % RSD | | | | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 105717.490666 | 5.423 | | | | |
| Aliphatic C12-C16 | 101985.435 | 5.679 | | | | |
| Aliphatic C16-C21 | 97865.0806664 | 5.889 | | | | |
| Aliphatic C21-C28 | 93803.915 | 6.254 | | | | |
| Aliphatic C28-C40 | 94439.0346664 | 8.107 | | | | |
| Aliphatic EPH | 97587.1362218 | 6.302 | | | | |

**Concentration**

| Parameter Range | FC068998.D | FC068999.D | FC069000.D | FC069001.D | FC069002.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 | FC068998.D | FC068999.D | FC069000.D | FC069001.D | FC069002.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 103243.286666 | 97985.466666 | 109209.666666 | 112999.366666 | 105149.666666 | |
| Aliphatic C12-C16 | 98650.475000 | 94097.700000 | 105832.400000 | 108742.200000 | 102604.400000 | |
| Aliphatic C16-C21 | 93296.813333 | 90615.140000 | 101519.050000 | 104471.533333 | 99422.866666 | |

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# Inital Calibration Report for SequenceID : FC052425AL

| | | | | | | |
|---|---|---|---|---|---|---|
| Aliphatic C21-C28 | 88009.560000 | 87070.890000 | 96863.650000 | 100050.225000 | 97025.250000 | |
| Aliphatic C28-C40 | 86414.500000 | 86424.290000 | 96273.183333 | 100645.833333 | 102437.366666 | |
| Aliphatic EPH | 92080.360555 | 90045.917777 | 100496.925000 | 104109.611111 | 101202.866666 | |

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# Inital Calibration Report for SequenceID : FD052425AR

**AreaCount**

| Parameter Range | FD049394.D | FD049395.D | FD049396.D | FD049397.D | FD049398.D | |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 33764721.000 | 17376581.000 | 6841824.000 | 3407467.000 | 1527158.000 | |
| Aromatic C12-C16 | 56774252.000 | 29126947.000 | 11503062.000 | 5758553.000 | 2557965.000 | |
| Aromatic C16-C21 | 74538707.000 | 38370069.000 | 15220909.000 | 7574275.000 | 3317737.000 | |
| Aromatic C21-C36 | 130351882.000 | 67018652.000 | 26858131.000 | 13411159.000 | 5998437.000 | |
| Aromatic EPH | 295429562.000 | 151892249.000 | 60423926.000 | 30151454.000 | 13401297.000 | |

**AVG Response Factor**

| Parameter Range | AVG RF | % RSD | | | | |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 167344.833 | 5.002 | | | | |
| Aromatic C12-C16 | 187525.5239996 | 5.151 | | | | |
| Aromatic C16-C21 | 184740.44 | 5.807 | | | | |
| Aromatic C21-C36 | 145057.8157772 | 4.704 | | | | |
| Aromatic EPH | 163430.4633328 | 5.084 | | | | |

**Concentration**

| Parameter Range | FD049394.D | FD049395.D | FD049396.D | FD049397.D | FD049398.D | |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 200.000 | 100.000 | 40.000 | 20.000 | 10.000 | |
| Aromatic C12-C16 | 300.000 | 150.000 | 60.000 | 30.000 | 15.000 | |
| Aromatic C16-C21 | 400.000 | 200.000 | 80.000 | 40.000 | 20.000 | |
| Aromatic C21-C36 | 900.000 | 450.000 | 180.000 | 90.000 | 45.000 | |
| Aromatic EPH | 1800.000 | 900.000 | 360.000 | 180.000 | 90.000 | |

**Response Factor**

| Parameter Range | FD049394.D | FD049395.D | FD049396.D | FD049397.D | FD049398.D | |
|---|---|---|---|---|---|---|
| Aromatic C10-C12 | 168823.605000 | 173765.810000 | 171045.600000 | 170373.350000 | 152715.800000 | |
| Aromatic C12-C16 | 189247.506666 | 194179.646666 | 191717.700000 | 191951.766666 | 170531.000000 | |
| Aromatic C16-C21 | 186346.767500 | 191850.345000 | 190261.362500 | 189356.875000 | 165886.850000 | |
| Aromatic C21-C36 | 144835.424444 | 148930.337777 | 149211.838888 | 149012.877777 | 133298.600000 | |
| Aromatic EPH | 164127.534444 | 168769.165555 | 167844.238888 | 167508.077777 | 148903.300000 | |

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# Continuing Calibration Report for SequenceID : FC060925AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FC069133.D** | | | | | | |
| Aliphatic C9-C12 | 6438999.000 | 60.000 | 3.299 | 6.602 | 107316.650 | 105717.491 | -1.513 |
| Aliphatic C12-C16 | 4050508.000 | 40.000 | 6.603 | 10.008 | 101262.700 | 101985.435 | 0.709 |
| Aliphatic C16-C21 | 5664814.000 | 60.000 | 10.009 | 13.379 | 94413.567 | 97865.081 | 3.527 |
| Aliphatic C21-C28 | 7292919.000 | 80.000 | 13.380 | 17.047 | 91161.488 | 93803.915 | 2.817 |
| Aliphatic C28-C40 | 11227163.000 | 120.000 | 17.048 | 22.037 | 93559.692 | 94439.035 | 0.931 |
| Aliphatic EPH | 34674403.000 | 360.000 | 3.299 | 22.037 | 96317.786 | 97587.136 | 1.301 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 09 Jun 2025 12:17 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FC069133.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 2 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.299 | 6.602 | 6438999.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.603 | 10.008 | 4050508.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 10.009 | 13.379 | 5664814.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.380 | 17.047 | 7292919.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 17.048 | 22.037 | 11227163.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.299 | 22.037 | 34674403.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FC060925AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FC069140.D** | | | | | | |
| Aliphatic C9-C12 | 6898571.000 | 60.000 | 3.299 | 6.602 | 114976.183 | 105717.491 | -8.758 |
| Aliphatic C12-C16 | 4221397.000 | 40.000 | 6.603 | 10.008 | 105534.925 | 101985.435 | -3.480 |
| Aliphatic C16-C21 | 5932054.000 | 60.000 | 10.009 | 13.379 | 98867.567 | 97865.081 | -1.024 |
| Aliphatic C21-C28 | 8098980.000 | 80.000 | 13.380 | 17.047 | 101237.250 | 93803.915 | -7.924 |
| Aliphatic C28-C40 | 12168142.000 | 120.000 | 17.048 | 22.037 | 101401.183 | 94439.035 | -7.372 |
| Aliphatic EPH | 37319144.000 | 360.000 | 3.299 | 22.037 | 103664.289 | 97587.136 | -6.227 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 09 Jun 2025 21:41 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FC069140.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 3 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.299 | 6.602 | 6898571.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.603 | 10.008 | 4221397.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 10.009 | 13.379 | 5932054.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.380 | 17.047 | 8098980.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 17.048 | 22.037 | 12168142.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.299 | 22.037 | 37319144.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FC061125AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FC069156.D** | | | | | | |
| Aliphatic C9-C12 | 6783670.000 | 60.000 | 3.303 | 6.605 | 113061.167 | 105717.491 | -6.947 |
| Aliphatic C12-C16 | 4187470.000 | 40.000 | 6.606 | 10.010 | 104686.750 | 101985.435 | -2.649 |
| Aliphatic C16-C21 | 5888827.000 | 60.000 | 10.011 | 13.380 | 98147.117 | 97865.081 | -0.288 |
| Aliphatic C21-C28 | 8136653.000 | 80.000 | 13.381 | 17.048 | 101708.163 | 93803.915 | -8.426 |
| Aliphatic C28-C40 | 12161407.000 | 120.000 | 17.049 | 22.033 | 101345.058 | 94439.035 | -7.313 |
| Aliphatic EPH | 37158027.000 | 360.000 | 3.303 | 22.033 | 103216.742 | 97587.136 | -5.769 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 11 Jun 2025 12:12 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FC069156.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 2 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.303 | 6.605 | 6783670.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.606 | 10.010 | 4187470.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 10.011 | 13.380 | 5888827.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.381 | 17.048 | 8136653.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 17.049 | 22.033 | 12161407.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.303 | 22.033 | 37158027.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FC061125AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FC069168.D** | | | | | | |
| Aliphatic C9-C12 | 6110551.000 | 60.000 | 3.303 | 6.605 | 101842.517 | 105717.491 | 3.665 |
| Aliphatic C12-C16 | 3798337.000 | 40.000 | 6.606 | 10.010 | 94958.425 | 101985.435 | 6.890 |
| Aliphatic C16-C21 | 5309111.000 | 60.000 | 10.011 | 13.380 | 88485.183 | 97865.081 | 9.585 |
| Aliphatic C21-C28 | 7214648.000 | 80.000 | 13.381 | 17.048 | 90183.100 | 93803.915 | 3.860 |
| Aliphatic C28-C40 | 10985455.000 | 120.000 | 17.049 | 22.033 | 91545.458 | 94439.035 | 3.064 |
| Aliphatic EPH | 33418102.000 | 360.000 | 3.303 | 22.033 | 92828.061 | 97587.136 | 4.877 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 12 Jun 2025 00:09 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FC069168.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 2 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.303 | 6.605 | 6110551.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.606 | 10.010 | 3798337.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 10.011 | 13.380 | 5309111.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.381 | 17.048 | 7214648.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 17.049 | 22.033 | 10985455.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.303 | 22.033 | 33418102.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FC061225AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FC069183.D** | | | | | | |
| Aliphatic C9-C12 | 6128822.000 | 60.000 | 3.305 | 6.606 | 102147.033 | 105717.491 | 3.377 |
| Aliphatic C12-C16 | 3810297.000 | 40.000 | 6.607 | 10.010 | 95257.425 | 101985.435 | 6.597 |
| Aliphatic C16-C21 | 5336149.000 | 60.000 | 10.011 | 13.380 | 88935.817 | 97865.081 | 9.124 |
| Aliphatic C21-C28 | 7227579.000 | 80.000 | 13.381 | 17.048 | 90344.738 | 93803.915 | 3.688 |
| Aliphatic C28-C40 | 10825792.000 | 120.000 | 17.049 | 22.036 | 90214.933 | 94439.035 | 4.473 |
| Aliphatic EPH | 33328639.000 | 360.000 | 3.305 | 22.036 | 92579.553 | 97587.136 | 5.131 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 12 Jun 2025 12:02 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FC069183.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 2 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.305 | 6.606 | 6128822.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.607 | 10.010 | 3810297.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 10.011 | 13.380 | 5336149.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.381 | 17.048 | 7227579.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 17.049 | 22.036 | 10825792.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.305 | 22.036 | 33328639.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FC061225AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FC069191.D** | | | | | | |
| Aliphatic C9-C12 | 5712750.000 | 60.000 | 3.305 | 6.606 | 95212.500 | 105717.491 | 9.937 |
| Aliphatic C12-C16 | 3536714.000 | 40.000 | 6.607 | 10.010 | 88417.850 | 101985.435 | 13.303 |
| Aliphatic C16-C21 | 4997704.000 | 60.000 | 10.011 | 13.380 | 83295.067 | 97865.081 | 14.888 |
| Aliphatic C21-C28 | 7067909.000 | 80.000 | 13.381 | 17.048 | 88348.863 | 93803.915 | 5.815 |
| Aliphatic C28-C40 | 11269620.000 | 120.000 | 17.049 | 22.036 | 93913.500 | 94439.035 | 0.556 |
| Aliphatic EPH | 32584697.000 | 360.000 | 3.305 | 22.036 | 90513.047 | 97587.136 | 7.249 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 12 Jun 2025 19:18 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FC069191.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 2 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.305 | 6.606 | 5712750.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.607 | 10.010 | 3536714.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 10.011 | 13.380 | 4997704.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.381 | 17.048 | 7067909.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 17.049 | 22.036 | 11269620.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.305 | 22.036 | 32584697.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FD060925AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FD049414.D** | | | | | | |
| Aromatic C10-C12 | 6066366.000 | 40.000 | 4.424 | 6.169 | 151659.150 | 167344.833 | 9.373 |
| Aromatic C12-C16 | 9855692.000 | 60.000 | 6.170 | 8.798 | 164261.533 | 187525.524 | 12.406 |
| Aromatic C16-C21 | 12307850.000 | 80.000 | 8.799 | 13.089 | 153848.125 | 184740.440 | 16.722 |
| Aromatic C21-C36 | 25693832.000 | 180.000 | 13.090 | 18.512 | 142743.511 | 145057.816 | 1.595 |
| Aromatic EPH | 53923740.000 | 360.000 | 4.424 | 18.512 | 149788.167 | 163430.463 | 8.347 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 09 Jun 2025 12:17 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FD049414.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 53 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.424 | 6.169 | 6066366.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 6.170 | 8.798 | 9855692.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 8.799 | 13.089 | 12307850.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 13.090 | 18.512 | 25693832.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.424 | 18.512 | 53923740.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FD060925AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FD049421.D** | | | | | | |
| Aromatic C10-C12 | 6920053.000 | 40.000 | 4.424 | 6.169 | 173001.325 | 167344.833 | -3.380 |
| Aromatic C12-C16 | 11045426.000 | 60.000 | 6.170 | 8.798 | 184090.433 | 187525.524 | 1.832 |
| Aromatic C16-C21 | 13902265.000 | 80.000 | 8.799 | 13.089 | 173778.313 | 184740.440 | 5.934 |
| Aromatic C21-C36 | 28417137.000 | 180.000 | 13.090 | 18.512 | 157872.983 | 145057.816 | -8.835 |
| Aromatic EPH | 60284881.000 | 360.000 | 4.424 | 18.512 | 167458.003 | 163430.463 | -2.464 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 09 Jun 2025 21:01 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FD049421.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 52 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.424 | 6.169 | 6920053.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 6.170 | 8.798 | 11045426.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 8.799 | 13.089 | 13902265.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 13.090 | 18.512 | 28417137.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.424 | 18.512 | 60284881.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FD061125AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FD049430.D** | | | | | | |
| Aromatic C10-C12 | 6205695.000 | 40.000 | 4.424 | 6.168 | 155142.375 | 167344.833 | 7.292 |
| Aromatic C12-C16 | 9970470.000 | 60.000 | 6.169 | 8.797 | 166174.500 | 187525.524 | 11.386 |
| Aromatic C16-C21 | 12701998.000 | 80.000 | 8.798 | 13.088 | 158774.975 | 184740.440 | 14.055 |
| Aromatic C21-C36 | 25903906.000 | 180.000 | 13.089 | 18.509 | 143910.589 | 145057.816 | 0.791 |
| Aromatic EPH | 54782069.000 | 360.000 | 4.424 | 18.509 | 152172.414 | 163430.463 | 6.889 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 11 Jun 2025 12:12 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FD049430.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 52 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.424 | 6.168 | 6205695.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 6.169 | 8.797 | 9970470.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 8.798 | 13.088 | 12701998.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 13.089 | 18.509 | 25903906.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.424 | 18.509 | 54782069.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FD061125AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FD049443.D** | | | | | | |
| Aromatic C10-C12 | 6392686.000 | 40.000 | 4.424 | 6.168 | 159817.150 | 167344.833 | 4.498 |
| Aromatic C12-C16 | 10225061.000 | 60.000 | 6.169 | 8.797 | 170417.683 | 187525.524 | 9.123 |
| Aromatic C16-C21 | 13364565.000 | 80.000 | 8.798 | 13.088 | 167057.063 | 184740.440 | 9.572 |
| Aromatic C21-C36 | 27341316.000 | 180.000 | 13.089 | 18.509 | 151896.200 | 145057.816 | -4.714 |
| Aromatic EPH | 57323628.000 | 360.000 | 4.424 | 18.509 | 159232.300 | 163430.463 | 2.569 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 12 Jun 2025 00:09 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FD049443.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 52 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.424 | 6.168 | 6392686.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 6.169 | 8.797 | 10225061.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 8.798 | 13.088 | 13364565.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 13.089 | 18.509 | 27341316.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.424 | 18.509 | 57323628.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FD061225AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FD049458.D** | | | | | | |
| Aromatic C10-C12 | 6695899.000 | 40.000 | 4.424 | 6.168 | 167397.475 | 167344.833 | -0.031 |
| Aromatic C12-C16 | 10638865.000 | 60.000 | 6.169 | 8.797 | 177314.417 | 187525.524 | 5.445 |
| Aromatic C16-C21 | 13638806.000 | 80.000 | 8.798 | 13.088 | 170485.075 | 184740.440 | 7.716 |
| Aromatic C21-C36 | 27741823.000 | 180.000 | 13.089 | 18.510 | 154121.239 | 145057.816 | -6.248 |
| Aromatic EPH | 58715393.000 | 360.000 | 4.424 | 18.510 | 163098.314 | 163430.463 | 0.203 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 12 Jun 2025 12:02 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FD049458.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 52 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.424 | 6.168 | 6695899.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 6.169 | 8.797 | 10638865.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 8.798 | 13.088 | 13638806.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 13.089 | 18.510 | 27741823.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.424 | 18.510 | 58715393.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FD061225AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FD049462.D** | | | | | | |
| Aromatic C10-C12 | 6448171.000 | 40.000 | 4.424 | 6.168 | 161204.275 | 167344.833 | 3.669 |
| Aromatic C12-C16 | 10337061.000 | 60.000 | 6.169 | 8.797 | 172284.350 | 187525.524 | 8.128 |
| Aromatic C16-C21 | 13644805.000 | 80.000 | 8.798 | 13.088 | 170560.063 | 184740.440 | 7.676 |
| Aromatic C21-C36 | 28370633.000 | 180.000 | 13.089 | 18.510 | 157614.628 | 145057.816 | -8.656 |
| Aromatic EPH | 58800670.000 | 360.000 | 4.424 | 18.510 | 163335.194 | 163430.463 | 0.058 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 12 Jun 2025 15:44 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FD049462.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 52 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.424 | 6.168 | 6448171.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 6.169 | 8.797 | 10337061.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 8.798 | 13.088 | 13644805.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 13.089 | 18.510 | 28370633.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.424 | 18.510 | 58800670.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FD061325AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FD049481.D** | | | | | | |
| Aromatic C10-C12 | 6695791.000 | 40.000 | 4.424 | 6.168 | 167394.775 | 167344.833 | -0.030 |
| Aromatic C12-C16 | 10586658.000 | 60.000 | 6.169 | 8.796 | 176444.300 | 187525.524 | 5.909 |
| Aromatic C16-C21 | 13509794.000 | 80.000 | 8.797 | 13.086 | 168872.425 | 184740.440 | 8.589 |
| Aromatic C21-C36 | 27183534.000 | 180.000 | 13.087 | 18.508 | 151019.633 | 145057.816 | -4.110 |
| Aromatic EPH | 57975777.000 | 360.000 | 4.424 | 18.508 | 161043.825 | 163430.463 | 1.460 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 13 Jun 2025 07:46 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FD049481.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 52 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.424 | 6.168 | 6695791.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 6.169 | 8.796 | 10586658.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 8.797 | 13.086 | 13509794.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 13.087 | 18.508 | 27183534.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.424 | 18.508 | 57975777.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FD061325AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FD049489.D** | | | | | | |
| Aromatic C10-C12 | 6667078.000 | 40.000 | 4.424 | 6.168 | 166676.950 | 167344.833 | 0.399 |
| Aromatic C12-C16 | 10603581.000 | 60.000 | 6.169 | 8.796 | 176726.350 | 187525.524 | 5.759 |
| Aromatic C16-C21 | 13634458.000 | 80.000 | 8.797 | 13.086 | 170430.725 | 184740.440 | 7.746 |
| Aromatic C21-C36 | 27639906.000 | 180.000 | 13.087 | 18.508 | 153555.033 | 145057.816 | -5.858 |
| Aromatic EPH | 58545023.000 | 360.000 | 4.424 | 18.508 | 162625.064 | 163430.463 | 0.493 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM AROMATIC HC S | Acq On: | 13 Jun 2025 13:06 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FD049489.D | Misc: | |
| Instrument: | FID_D | ALS Vial: | 52 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aromatic C10-C12 | 4.424 | 6.168 | 6667078.000 | 40.000 | ug/ml |
| Aromatic C12-C16 | 6.169 | 8.796 | 10603581.000 | 60.000 | ug/ml |
| Aromatic C16-C21 | 8.797 | 13.086 | 13634458.000 | 80.000 | ug/ml |
| Aromatic C21-C36 | 13.087 | 18.508 | 27639906.000 | 180.000 | ug/ml |
| Aromatic EPH | 4.424 | 18.508 | 58545023.000 | 360.000 | ug/ml |

# SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061225AL\
Data File : FC069184.D
Signal(s) : FID1A.ch
Acq On : 12 Jun 2025 12:59
Operator : YP/AJ
Sample : Q2177-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01

Integration File: autoint1.e
Quant Time: Jun 13 02:16:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 13.119 | 5605383 | 62.481 ug/ml |
| Spiked Amount 50.000 | | Recovery = 124.96% | |
| Target Compounds | | | |

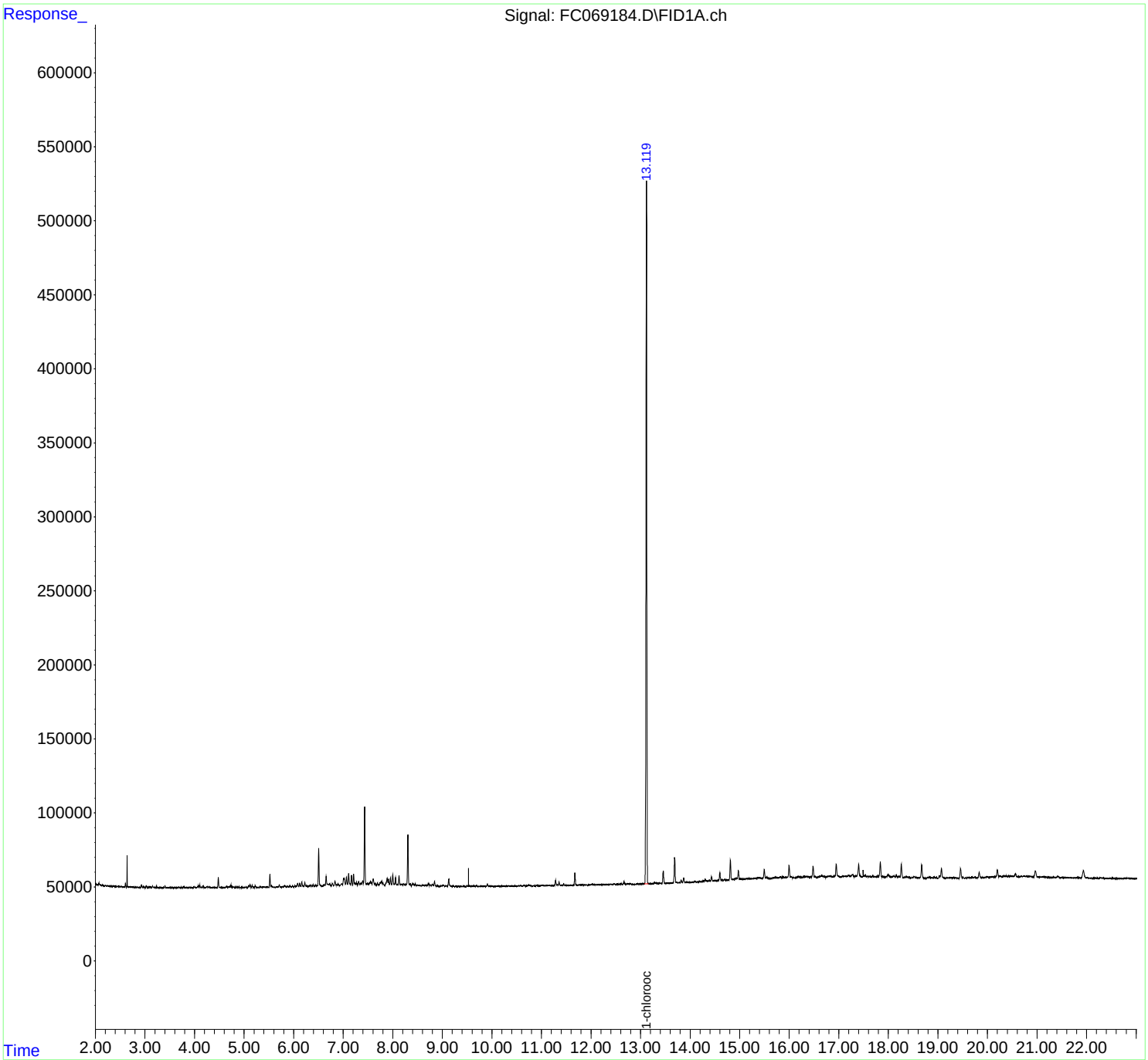
(f)=RT Delta > 1/2 Window (m)=manual int.

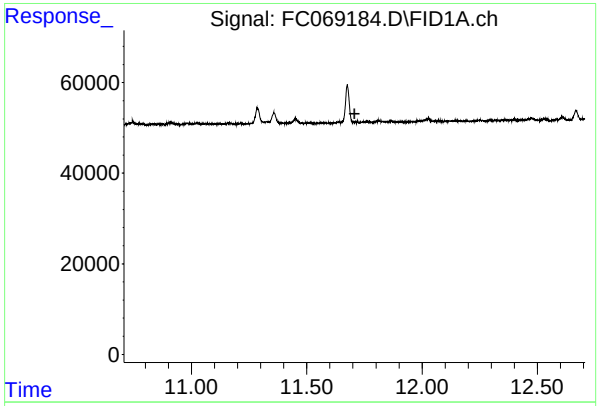
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061225AL\
Data File : FC069184.D
Signal(s) : FID1A.ch
Acq On : 12 Jun 2025 12:59
Operator : YP/AJ
Sample : Q2177-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01

Integration File: autoint1.e
Quant Time: Jun 13 02:16:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

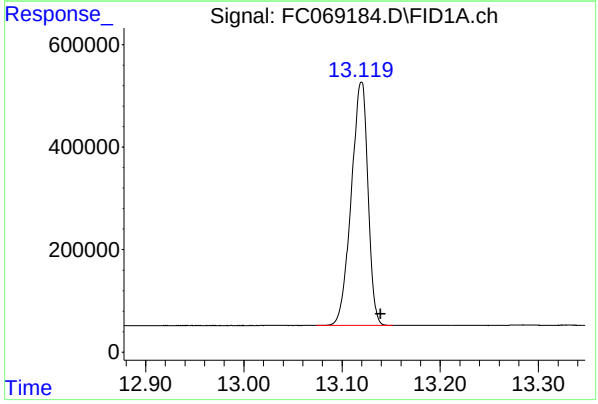





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.707 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01




#12 1-chlorooctadecane (SURR)

R.T.: 13.119 min
Delta R.T.: -0.020 min
Response: 5605383
Conc: 62.48 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061225AL\
Data File : FC069184.D
Signal(s) : FID1A.ch
Acq On : 12 Jun 2025 12:59
Sample : Q2177-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.231 | 3.204 | 3.384 | BV | 262 | 661 | 0.01% | 0.002% |
| 2 | 3.405 | 3.384 | 3.438 | PV | 1398 | 14226 | 0.25% | 0.053% |
| 3 | 3.449 | 3.438 | 3.488 | VV | 147 | 2515 | 0.04% | 0.009% |
| 4 | 3.559 | 3.488 | 3.588 | PV | 151 | 5427 | 0.10% | 0.020% |
| 5 | 3.607 | 3.588 | 3.644 | VV | 301 | 4945 | 0.09% | 0.018% |
| 6 | 3.677 | 3.644 | 3.718 | VV | 399 | 8959 | 0.16% | 0.033% |
| 7 | 3.732 | 3.718 | 3.764 | VV | 419 | 5211 | 0.09% | 0.019% |
| 8 | 3.781 | 3.764 | 3.808 | VV | 788 | 10198 | 0.18% | 0.038% |
| 9 | 3.842 | 3.808 | 3.883 | VV | 315 | 7998 | 0.14% | 0.030% |
| 10 | 3.904 | 3.883 | 3.937 | VV | 473 | 7716 | 0.14% | 0.029% |
| 11 | 3.949 | 3.937 | 3.971 | VV | 126 | 1837 | 0.03% | 0.007% |
| 12 | 3.992 | 3.971 | 4.043 | VV | 515 | 12974 | 0.23% | 0.048% |
| 13 | 4.077 | 4.043 | 4.091 | VV | 1414 | 17766 | 0.31% | 0.066% |
| 14 | 4.106 | 4.091 | 4.127 | VV | 1923 | 18918 | 0.33% | 0.070% |
| 15 | 4.141 | 4.127 | 4.155 | VV | 420 | 4566 | 0.08% | 0.017% |
| 16 | 4.174 | 4.155 | 4.197 | VV | 1510 | 15498 | 0.27% | 0.057% |
| 17 | 4.209 | 4.197 | 4.215 | VV | 162 | 1327 | 0.02% | 0.005% |
| 18 | 4.257 | 4.215 | 4.273 | VV | 862 | 16958 | 0.30% | 0.063% |
| 19 | 4.288 | 4.273 | 4.316 | VV | 571 | 9274 | 0.16% | 0.034% |
| 20 | 4.326 | 4.316 | 4.368 | VV | 240 | 4867 | 0.09% | 0.018% |
| 21 | 4.396 | 4.368 | 4.418 | VV | 336 | 5965 | 0.11% | 0.022% |
| 22 | 4.437 | 4.418 | 4.453 | VV | 389 | 4926 | 0.09% | 0.018% |
| 23 | 4.480 | 4.453 | 4.514 | VV | 6985 | 70164 | 1.24% | 0.260% |
| 24 | 4.524 | 4.514 | 4.541 | VV | 368 | 4540 | 0.08% | 0.017% |
| 25 | 4.586 | 4.541 | 4.612 | VV | 352 | 10118 | 0.18% | 0.037% |
| 26 | 4.648 | 4.612 | 4.668 | VV | 953 | 15452 | 0.27% | 0.057% |
| 27 | 4.683 | 4.668 | 4.693 | VV | 588 | 6641 | 0.12% | 0.025% |
| 28 | 4.706 | 4.693 | 4.720 | VV | 889 | 9219 | 0.16% | 0.034% |
| 29 | 4.735 | 4.720 | 4.753 | VV | 1908 | 18855 | 0.33% | 0.070% |
| 30 | 4.766 | 4.753 | 4.779 | VV | 733 | 7723 | 0.14% | 0.029% |
| 31 | 4.790 | 4.779 | 4.804 | VV | 617 | 7210 | 0.13% | 0.027% |
| 32 | 4.814 | 4.804 | 4.828 | VV | 415 | 4652 | 0.08% | 0.017% |
| 33 | 4.855 | 4.828 | 4.875 | VV | 734 | 10627 | 0.19% | 0.039% |
| 34 | 4.896 | 4.875 | 4.915 | VV | 615 | 8538 | 0.15% | 0.032% |
| 35 | 4.930 | 4.915 | 4.944 | VV | 246 | 3529 | 0.06% | 0.013% |
| 36 | 4.960 | 4.944 | 4.980 | VV | 624 | 6644 | 0.12% | 0.025% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.005 | 4.980 | 5.020 | VV | 336 | 4924 | 0.09% | 0.018% |
| 38 | 5.035 | 5.020 | 5.064 | VV | 425 | 6687 | 0.12% | 0.025% |
| 39 | 5.092 | 5.064 | 5.104 | PV | 1459 | 14590 | 0.26% | 0.054% |
| 40 | 5.120 | 5.104 | 5.144 | VV | 2354 | 28491 | 0.50% | 0.105% |
| 41 | 5.162 | 5.144 | 5.194 | VV | 1761 | 24036 | 0.43% | 0.089% |
| 42 | 5.225 | 5.194 | 5.266 | VV | 1569 | 23588 | 0.42% | 0.087% |
| 43 | 5.279 | 5.266 | 5.304 | VV | 294 | 4458 | 0.08% | 0.017% |
| 44 | 5.324 | 5.304 | 5.368 | VV | 669 | 14811 | 0.26% | 0.055% |
| 45 | 5.385 | 5.368 | 5.406 | VV | 436 | 8517 | 0.15% | 0.032% |
| 46 | 5.417 | 5.406 | 5.431 | VV | 457 | 5457 | 0.10% | 0.020% |
| 47 | 5.446 | 5.431 | 5.458 | VV | 449 | 5502 | 0.10% | 0.020% |
| 48 | 5.473 | 5.458 | 5.496 | VV | 446 | 6805 | 0.12% | 0.025% |
| 49 | 5.521 | 5.496 | 5.541 | VV | 9035 | 91208 | 1.61% | 0.338% |
| 50 | 5.552 | 5.541 | 5.578 | VV | 1348 | 19119 | 0.34% | 0.071% |
| 51 | 5.590 | 5.578 | 5.606 | VV | 458 | 5980 | 0.11% | 0.022% |
| 52 | 5.620 | 5.606 | 5.631 | VV | 347 | 4394 | 0.08% | 0.016% |
| 53 | 5.710 | 5.631 | 5.746 | VV | 1832 | 38915 | 0.69% | 0.144% |
| 54 | 5.770 | 5.746 | 5.788 | VV | 708 | 11726 | 0.21% | 0.043% |
| 55 | 5.823 | 5.788 | 5.851 | VV | 1404 | 30387 | 0.54% | 0.112% |
| 56 | 5.872 | 5.851 | 5.903 | VV | 956 | 17936 | 0.32% | 0.066% |
| 57 | 5.922 | 5.903 | 5.955 | VV | 1063 | 20312 | 0.36% | 0.075% |
| 58 | 5.977 | 5.955 | 6.004 | VV | 1090 | 17980 | 0.32% | 0.067% |
| 59 | 6.026 | 6.004 | 6.043 | VV | 1068 | 17281 | 0.31% | 0.064% |
| 60 | 6.080 | 6.043 | 6.102 | VV | 2797 | 51784 | 0.92% | 0.192% |
| 61 | 6.122 | 6.102 | 6.141 | VV | 2833 | 37011 | 0.65% | 0.137% |
| 62 | 6.165 | 6.141 | 6.197 | VV | 3810 | 58644 | 1.04% | 0.217% |
| 63 | 6.226 | 6.197 | 6.244 | VV | 3398 | 47250 | 0.84% | 0.175% |
| 64 | 6.266 | 6.244 | 6.288 | VV | 1242 | 24475 | 0.43% | 0.091% |
| 65 | 6.319 | 6.288 | 6.328 | VV | 1070 | 22157 | 0.39% | 0.082% |
| 66 | 6.346 | 6.328 | 6.370 | VV | 1752 | 31609 | 0.56% | 0.117% |
| 67 | 6.389 | 6.370 | 6.417 | VV | 1927 | 35415 | 0.63% | 0.131% |
| 68 | 6.443 | 6.417 | 6.458 | VV | 1524 | 28731 | 0.51% | 0.106% |
| 69 | 6.468 | 6.458 | 6.476 | VV | 1307 | 13013 | 0.23% | 0.048% |
| 70 | 6.506 | 6.476 | 6.555 | VV | 26170 | 309111 | 5.47% | 1.144% |
| 71 | 6.570 | 6.555 | 6.584 | VV | 1224 | 17918 | 0.32% | 0.066% |
| 72 | 6.623 | 6.584 | 6.638 | VV | 1676 | 43478 | 0.77% | 0.161% |
| 73 | 6.656 | 6.638 | 6.679 | VV | 7346 | 97319 | 1.72% | 0.360% |
| 74 | 6.689 | 6.679 | 6.713 | VV | 2200 | 40663 | 0.72% | 0.151% |
| 75 | 6.728 | 6.713 | 6.758 | VV | 2682 | 46462 | 0.82% | 0.172% |
| 76 | 6.782 | 6.758 | 6.809 | VV | 2540 | 50207 | 0.89% | 0.186% |
| 77 | 6.835 | 6.809 | 6.859 | VV | 4157 | 75687 | 1.34% | 0.280% |
| 78 | 6.868 | 6.859 | 6.880 | VV | 1842 | 20948 | 0.37% | 0.078% |
| 79 | 6.900 | 6.880 | 6.930 | VV | 2121 | 50079 | 0.89% | 0.185% |
| 80 | 6.967 | 6.930 | 6.987 | VV | 2364 | 60572 | 1.07% | 0.224% |
| 81 | 7.009 | 6.987 | 7.047 | VV | 6209 | 148799 | 2.63% | 0.551% |
| 82 | 7.067 | 7.047 | 7.090 | VV | 6860 | 98542 | 1.74% | 0.365% |
| 83 | 7.111 | 7.090 | 7.146 | VV | 9203 | 141573 | 2.51% | 0.524% |
| 84 | 7.169 | 7.146 | 7.190 | VV | 7996 | 105721 | 1.87% | 0.391% |
| 85 | 7.211 | 7.190 | 7.252 | VV | 8913 | 141889 | 2.51% | 0.525% |
| 86 | 7.268 | 7.252 | 7.284 | VV | 3072 | 46565 | 0.82% | 0.172% |
| 87 | 7.313 | 7.284 | 7.331 | VV | 3879 | 74415 | 1.32% | 0.275% |
| 88 | 7.358 | 7.331 | 7.374 | VV | 2693 | 59402 | 1.05% | 0.220% |
| 89 | 7.394 | 7.374 | 7.409 | VV | 4206 | 65834 | 1.16% | 0.244% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.433 | 7.409 | 7.466 | VV | 54211 | 604340 | 10.69% | 2.237% |
| 91 | 7.484 | 7.466 | 7.511 | VV | 2424 | 56996 | 1.01% | 0.211% |
| 92 | 7.555 | 7.511 | 7.581 | VV | 3548 | 116870 | 2.07% | 0.433% |
| 93 | 7.606 | 7.581 | 7.633 | VV | 5620 | 112017 | 1.98% | 0.415% |
| 94 | 7.646 | 7.633 | 7.664 | VV | 2485 | 37345 | 0.66% | 0.138% |
| 95 | 7.694 | 7.664 | 7.717 | VV | 2783 | 60075 | 1.06% | 0.222% |
| 96 | 7.747 | 7.717 | 7.758 | VV | 3003 | 55429 | 0.98% | 0.205% |
| 97 | 7.777 | 7.758 | 7.793 | VV | 4110 | 64833 | 1.15% | 0.240% |
| 98 | 7.800 | 7.793 | 7.836 | VV | 2763 | 51713 | 0.92% | 0.191% |
| 99 | 7.888 | 7.836 | 7.902 | VV | 6045 | 127610 | 2.26% | 0.472% |
| 100 | 7.914 | 7.902 | 7.934 | VV | 5298 | 67733 | 1.20% | 0.251% |
| 101 | 7.955 | 7.934 | 7.978 | VV | 6247 | 87591 | 1.55% | 0.324% |
| 102 | 8.001 | 7.978 | 8.029 | VV | 8319 | 123421 | 2.18% | 0.457% |
| 103 | 8.057 | 8.029 | 8.081 | VV | 6480 | 96683 | 1.71% | 0.358% |
| 104 | 8.128 | 8.081 | 8.152 | VV | 7686 | 126944 | 2.25% | 0.470% |
| 105 | 8.164 | 8.152 | 8.198 | VV | 1776 | 44724 | 0.79% | 0.166% |
| 106 | 8.217 | 8.198 | 8.237 | VV | 2281 | 40245 | 0.71% | 0.149% |
| 107 | 8.255 | 8.237 | 8.277 | VV | 1694 | 37341 | 0.66% | 0.138% |
| 108 | 8.306 | 8.277 | 8.341 | VV | 35289 | 407839 | 7.22% | 1.510% |
| 109 | 8.355 | 8.341 | 8.377 | VV | 2397 | 36422 | 0.64% | 0.135% |
| 110 | 8.402 | 8.377 | 8.435 | VV | 2152 | 57416 | 1.02% | 0.213% |
| 111 | 8.451 | 8.435 | 8.483 | VV | 1831 | 40131 | 0.71% | 0.149% |
| 112 | 8.500 | 8.483 | 8.531 | VV | 1250 | 28278 | 0.50% | 0.105% |
| 113 | 8.545 | 8.531 | 8.571 | VV | 941 | 18452 | 0.33% | 0.068% |
| 114 | 8.596 | 8.571 | 8.607 | VV | 1050 | 18358 | 0.32% | 0.068% |
| 115 | 8.620 | 8.607 | 8.651 | VV | 1208 | 24686 | 0.44% | 0.091% |
| 116 | 8.667 | 8.651 | 8.693 | VV | 1265 | 24452 | 0.43% | 0.091% |
| 117 | 8.720 | 8.693 | 8.741 | VV | 1737 | 36866 | 0.65% | 0.136% |
| 118 | 8.756 | 8.741 | 8.781 | VV | 1419 | 25478 | 0.45% | 0.094% |
| 119 | 8.799 | 8.781 | 8.822 | VV | 1815 | 30612 | 0.54% | 0.113% |
| 120 | 8.844 | 8.822 | 8.873 | VV | 3532 | 51293 | 0.91% | 0.190% |
| 121 | 8.896 | 8.873 | 8.938 | VV | 1205 | 21850 | 0.39% | 0.081% |
| 122 | 8.995 | 8.938 | 9.010 | VV | 888 | 22360 | 0.40% | 0.083% |
| 123 | 9.027 | 9.010 | 9.049 | VV | 1129 | 17833 | 0.32% | 0.066% |
| 124 | 9.066 | 9.049 | 9.100 | VV | 540 | 13826 | 0.24% | 0.051% |
| 125 | 9.131 | 9.100 | 9.200 | VV | 5203 | 75432 | 1.33% | 0.279% |
| 126 | 9.217 | 9.200 | 9.244 | VV | 433 | 6573 | 0.12% | 0.024% |
| 127 | 9.271 | 9.244 | 9.292 | VV | 239 | 4886 | 0.09% | 0.018% |
| 128 | 9.317 | 9.292 | 9.338 | VV | 312 | 5094 | 0.09% | 0.019% |
| 129 | 9.373 | 9.338 | 9.384 | VV | 188 | 3790 | 0.07% | 0.014% |
| 130 | 9.432 | 9.384 | 9.481 | VV | 286 | 7790 | 0.14% | 0.029% |
| 131 | 9.503 | 9.481 | 9.538 | VV | 552 | 18433 | 0.33% | 0.068% |
| 132 | 9.549 | 9.538 | 9.568 | VV | 325 | 3908 | 0.07% | 0.014% |
| 133 | 9.588 | 9.568 | 9.620 | VV | 213 | 5158 | 0.09% | 0.019% |
| 134 | 9.643 | 9.620 | 9.667 | VV | 360 | 7070 | 0.13% | 0.026% |
| 135 | 9.690 | 9.667 | 9.727 | VV | 1043 | 13280 | 0.24% | 0.049% |
| 136 | 9.781 | 9.727 | 9.808 | PV | 254 | 5644 | 0.10% | 0.021% |
| 137 | 9.829 | 9.808 | 9.868 | VV | 437 | 6592 | 0.12% | 0.024% |
| 138 | 9.875 | 9.868 | 9.882 | VV | 145 | 619 | 0.01% | 0.002% |
| 139 | 9.910 | 9.882 | 9.964 | VV | 1744 | 23295 | 0.41% | 0.086% |
| 140 | 9.978 | 9.964 | 10.045 | PV | 144 | 4488 | 0.08% | 0.017% |
| 141 | 10.081 | 10.045 | 10.106 | VV | 113 | 2712 | 0.05% | 0.010% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.134 | 10.106 | 10.167 | PV | 296 | 4322 | 0.08% | 0.016% |
| 143 | 10.176 | 10.167 | 10.217 | VV | 106 | 2099 | 0.04% | 0.008% |
| 144 | 10.237 | 10.217 | 10.281 | VV | 131 | 4288 | 0.08% | 0.016% |
| 145 | 10.300 | 10.281 | 10.327 | VV | 310 | 5542 | 0.10% | 0.021% |
| 146 | 10.348 | 10.327 | 10.364 | VV | 291 | 3880 | 0.07% | 0.014% |
| 147 | 10.388 | 10.364 | 10.431 | VV | 287 | 6952 | 0.12% | 0.026% |
| 148 | 10.467 | 10.431 | 10.493 | VV | 268 | 4916 | 0.09% | 0.018% |
| 149 | 10.575 | 10.493 | 10.614 | VV | 328 | 15875 | 0.28% | 0.059% |
| 150 | 10.649 | 10.614 | 10.689 | VV | 752 | 15260 | 0.27% | 0.056% |
| 151 | 10.745 | 10.689 | 10.806 | VV | 853 | 20716 | 0.37% | 0.077% |
| 152 | 10.835 | 10.806 | 10.849 | PV | 246 | 4191 | 0.07% | 0.016% |
| 153 | 10.863 | 10.849 | 10.884 | VV | 221 | 3756 | 0.07% | 0.014% |
| 154 | 10.910 | 10.884 | 10.951 | VV | 625 | 11868 | 0.21% | 0.044% |
| 155 | 10.985 | 10.951 | 11.004 | VV | 306 | 6309 | 0.11% | 0.023% |
| 156 | 11.023 | 11.004 | 11.052 | VV | 338 | 6784 | 0.12% | 0.025% |
| 157 | 11.084 | 11.052 | 11.104 | VV | 240 | 5999 | 0.11% | 0.022% |
| 158 | 11.110 | 11.104 | 11.141 | VV | 234 | 3034 | 0.05% | 0.011% |
| 159 | 11.162 | 11.141 | 11.194 | VV | 287 | 6058 | 0.11% | 0.022% |
| 160 | 11.213 | 11.194 | 11.226 | VV | 228 | 2786 | 0.05% | 0.010% |
| 161 | 11.242 | 11.226 | 11.251 | PV | 162 | 1707 | 0.03% | 0.006% |
| 162 | 11.286 | 11.251 | 11.315 | VV | 3556 | 49812 | 0.88% | 0.184% |
| 163 | 11.325 | 11.315 | 11.338 | VV | 543 | 6682 | 0.12% | 0.025% |
| 164 | 11.358 | 11.338 | 11.405 | VV | 2500 | 36102 | 0.64% | 0.134% |
| 165 | 11.412 | 11.405 | 11.417 | VV | 244 | 1427 | 0.03% | 0.005% |
| 166 | 11.451 | 11.417 | 11.499 | VV | 1126 | 20821 | 0.37% | 0.077% |
| 167 | 11.508 | 11.499 | 11.537 | VV | 270 | 3754 | 0.07% | 0.014% |
| 168 | 11.546 | 11.537 | 11.561 | VV | 196 | 2319 | 0.04% | 0.009% |
| 169 | 11.578 | 11.561 | 11.604 | VV | 218 | 4367 | 0.08% | 0.016% |
| 170 | 11.637 | 11.604 | 11.651 | VV | 331 | 6011 | 0.11% | 0.022% |
| 171 | 11.676 | 11.651 | 11.731 | VV | 8452 | 100535 | 1.78% | 0.372% |
| 172 | 11.769 | 11.731 | 11.787 | VV | 407 | 10395 | 0.18% | 0.038% |
| 173 | 11.811 | 11.787 | 11.842 | VV | 604 | 12304 | 0.22% | 0.046% |
| 174 | 11.867 | 11.842 | 11.898 | VV | 472 | 10285 | 0.18% | 0.038% |
| 175 | 11.908 | 11.898 | 11.926 | VV | 309 | 4064 | 0.07% | 0.015% |
| 176 | 11.982 | 11.926 | 11.998 | VV | 411 | 12790 | 0.23% | 0.047% |
| 177 | 12.025 | 11.998 | 12.062 | VV | 855 | 20626 | 0.36% | 0.076% |
| 178 | 12.072 | 12.062 | 12.104 | VV | 429 | 8127 | 0.14% | 0.030% |
| 179 | 12.130 | 12.104 | 12.178 | VV | 437 | 15177 | 0.27% | 0.056% |
| 180 | 12.189 | 12.178 | 12.218 | VV | 411 | 7600 | 0.13% | 0.028% |
| 181 | 12.250 | 12.218 | 12.274 | VV | 470 | 12145 | 0.21% | 0.045% |
| 182 | 12.293 | 12.274 | 12.311 | VV | 491 | 8738 | 0.15% | 0.032% |
| 183 | 12.321 | 12.311 | 12.337 | VV | 470 | 6464 | 0.11% | 0.024% |
| 184 | 12.358 | 12.337 | 12.378 | VV | 515 | 10380 | 0.18% | 0.038% |
| 185 | 12.400 | 12.378 | 12.418 | VV | 671 | 11130 | 0.20% | 0.041% |
| 186 | 12.474 | 12.418 | 12.503 | VV | 822 | 27584 | 0.49% | 0.102% |
| 187 | 12.533 | 12.503 | 12.558 | VV | 566 | 14461 | 0.26% | 0.054% |
| 188 | 12.582 | 12.558 | 12.590 | VV | 488 | 7266 | 0.13% | 0.027% |
| 189 | 12.608 | 12.590 | 12.638 | VV | 984 | 17449 | 0.31% | 0.065% |
| 190 | 12.668 | 12.638 | 12.691 | VV | 2431 | 35833 | 0.63% | 0.133% |
| 191 | 12.704 | 12.691 | 12.714 | VV | 581 | 7490 | 0.13% | 0.028% |
| 192 | 12.731 | 12.714 | 12.764 | VV | 919 | 18079 | 0.32% | 0.067% |
| 193 | 12.787 | 12.764 | 12.867 | VV | 925 | 29055 | 0.51% | 0.108% |
| 194 | 12.885 | 12.867 | 12.903 | VV | 397 | 6837 | 0.12% | 0.025% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 12.949 | 12.903 | 12.991 | VV | 467 | 21441 | 0.38% | 0.079% |
| 196 | 13.030 | 12.991 | 13.058 | VV | 880 | 21547 | 0.38% | 0.080% |
| 197 | 13.119 | 13.058 | 13.188 | VV | 475064 | 5651077 | 100.00% | 20.918% |
| 198 | 13.223 | 13.188 | 13.248 | VV | 668 | 20462 | 0.36% | 0.076% |
| 199 | 13.283 | 13.248 | 13.311 | VV | 1471 | 35099 | 0.62% | 0.130% |
| 200 | 13.330 | 13.311 | 13.364 | VV | 1067 | 25116 | 0.44% | 0.093% |
| 201 | 13.387 | 13.364 | 13.426 | VV | 800 | 24447 | 0.43% | 0.090% |
| 202 | 13.458 | 13.426 | 13.495 | VV | 9201 | 126797 | 2.24% | 0.469% |
| 203 | 13.509 | 13.495 | 13.534 | VV | 827 | 17264 | 0.31% | 0.064% |
| 204 | 13.559 | 13.534 | 13.584 | VV | 893 | 23777 | 0.42% | 0.088% |
| 205 | 13.625 | 13.584 | 13.643 | VV | 839 | 26922 | 0.48% | 0.100% |
| 206 | 13.688 | 13.643 | 13.758 | VV | 18080 | 269266 | 4.76% | 0.997% |
| 207 | 13.820 | 13.758 | 13.843 | VV | 2754 | 69203 | 1.22% | 0.256% |
| 208 | 13.868 | 13.843 | 13.911 | VV | 4373 | 83036 | 1.47% | 0.307% |
| 209 | 13.926 | 13.911 | 13.951 | VV | 1431 | 29115 | 0.52% | 0.108% |
| 210 | 13.961 | 13.951 | 14.014 | VV | 1249 | 43966 | 0.78% | 0.163% |
| 211 | 14.041 | 14.014 | 14.054 | VV | 1244 | 27926 | 0.49% | 0.103% |
| 212 | 14.098 | 14.054 | 14.134 | VV | 1817 | 68990 | 1.22% | 0.255% |
| 213 | 14.144 | 14.134 | 14.168 | VV | 1477 | 27765 | 0.49% | 0.103% |
| 214 | 14.200 | 14.168 | 14.215 | VV | 1582 | 40899 | 0.72% | 0.151% |
| 215 | 14.261 | 14.215 | 14.271 | VV | 1775 | 51668 | 0.91% | 0.191% |
| 216 | 14.306 | 14.271 | 14.327 | VV | 3006 | 74571 | 1.32% | 0.276% |
| 217 | 14.337 | 14.327 | 14.355 | VV | 1987 | 31585 | 0.56% | 0.117% |
| 218 | 14.387 | 14.355 | 14.406 | VV | 2406 | 60755 | 1.08% | 0.225% |
| 219 | 14.432 | 14.406 | 14.470 | VV | 4709 | 103856 | 1.84% | 0.384% |
| 220 | 14.505 | 14.470 | 14.520 | VV | 2181 | 60841 | 1.08% | 0.225% |
| 221 | 14.531 | 14.520 | 14.541 | VV | 2132 | 26235 | 0.46% | 0.097% |
| 222 | 14.599 | 14.541 | 14.624 | VV | 7266 | 168138 | 2.98% | 0.622% |
| 223 | 14.636 | 14.624 | 14.652 | VV | 2472 | 38019 | 0.67% | 0.141% |
| 224 | 14.662 | 14.652 | 14.674 | VV | 2318 | 29954 | 0.53% | 0.111% |
| 225 | 14.697 | 14.674 | 14.745 | VV | 2969 | 104749 | 1.85% | 0.388% |
| 226 | 14.758 | 14.745 | 14.766 | VV | 2398 | 29543 | 0.52% | 0.109% |
| 227 | 14.811 | 14.766 | 14.853 | VV | 15767 | 293014 | 5.19% | 1.085% |
| 228 | 14.931 | 14.853 | 14.947 | VV | 3737 | 168590 | 2.98% | 0.624% |
| 229 | 14.973 | 14.947 | 15.001 | VV | 8720 | 166998 | 2.96% | 0.618% |
| 230 | 15.030 | 15.001 | 15.061 | VV | 3240 | 104975 | 1.86% | 0.389% |
| 231 | 15.070 | 15.061 | 15.097 | VV | 2871 | 59846 | 1.06% | 0.222% |
| 232 | 15.119 | 15.097 | 15.135 | VV | 3150 | 67704 | 1.20% | 0.251% |
| 233 | 15.170 | 15.135 | 15.206 | VV | 3320 | 133605 | 2.36% | 0.495% |
| 234 | 15.224 | 15.206 | 15.251 | VV | 3162 | 80840 | 1.43% | 0.299% |
| 235 | 15.258 | 15.251 | 15.268 | VV | 3036 | 30168 | 0.53% | 0.112% |
| 236 | 15.296 | 15.268 | 15.323 | VV | 3411 | 106628 | 1.89% | 0.395% |
| 237 | 15.327 | 15.323 | 15.336 | VV | 3176 | 25739 | 0.46% | 0.095% |
| 238 | 15.359 | 15.336 | 15.374 | VV | 3404 | 73562 | 1.30% | 0.272% |
| 239 | 15.401 | 15.374 | 15.449 | VV | 3695 | 155409 | 2.75% | 0.575% |
| 240 | 15.495 | 15.449 | 15.527 | VV | 9189 | 227157 | 4.02% | 0.841% |
| 241 | 15.543 | 15.527 | 15.614 | VV | 3760 | 173513 | 3.07% | 0.642% |
| 242 | 15.650 | 15.614 | 15.661 | VV | 3314 | 87780 | 1.55% | 0.325% |
| 243 | 15.678 | 15.661 | 15.698 | VV | 3638 | 75568 | 1.34% | 0.280% |
| 244 | 15.720 | 15.698 | 15.738 | VV | 3663 | 84465 | 1.49% | 0.313% |
| 245 | 15.759 | 15.738 | 15.775 | VV | 3696 | 77984 | 1.38% | 0.289% |
| 246 | 15.819 | 15.775 | 15.841 | VV | 3947 | 145979 | 2.58% | 0.540% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 15.860 | 15.841 | 15.875 | VV | 3848 | 77254 | 1.37% | 0.286% |
| 248 | 15.890 | 15.875 | 15.903 | VV | 3784 | 60258 | 1.07% | 0.223% |
| 249 | 15.920 | 15.903 | 15.943 | VV | 3958 | 87756 | 1.55% | 0.325% |
| 250 | 15.996 | 15.943 | 16.021 | VV | 11592 | 270401 | 4.78% | 1.001% |
| 251 | 16.038 | 16.021 | 16.075 | VV | 3945 | 119187 | 2.11% | 0.441% |
| 252 | 16.094 | 16.075 | 16.118 | VV | 3509 | 83938 | 1.49% | 0.311% |
| 253 | 16.168 | 16.118 | 16.184 | VV | 3928 | 143143 | 2.53% | 0.530% |
| 254 | 16.214 | 16.184 | 16.253 | VV | 3867 | 152479 | 2.70% | 0.564% |
| 255 | 16.309 | 16.253 | 16.325 | VV | 4136 | 161902 | 2.86% | 0.599% |
| 256 | 16.357 | 16.325 | 16.421 | VV | 4006 | 215898 | 3.82% | 0.799% |
| 257 | 16.480 | 16.421 | 16.549 | VV | 10908 | 377304 | 6.68% | 1.397% |
| 258 | 16.604 | 16.549 | 16.624 | VV | 3752 | 161732 | 2.86% | 0.599% |
| 259 | 16.643 | 16.624 | 16.673 | VV | 4358 | 120987 | 2.14% | 0.448% |
| 260 | 16.687 | 16.673 | 16.740 | VV | 4127 | 153917 | 2.72% | 0.570% |
| 261 | 16.752 | 16.740 | 16.760 | VV | 3838 | 42291 | 0.75% | 0.157% |
| 262 | 16.775 | 16.760 | 16.799 | VV | 4073 | 93406 | 1.65% | 0.346% |
| 263 | 16.815 | 16.799 | 16.828 | VV | 4137 | 68531 | 1.21% | 0.254% |
| 264 | 16.838 | 16.828 | 16.892 | VV | 4227 | 146230 | 2.59% | 0.541% |
| 265 | 16.948 | 16.892 | 17.036 | VV | 12220 | 446640 | 7.90% | 1.653% |
| 266 | 17.046 | 17.036 | 17.054 | VV | 3649 | 39235 | 0.69% | 0.145% |
| 267 | 17.101 | 17.054 | 17.138 | VV | 3878 | 185315 | 3.28% | 0.686% |
| 268 | 17.152 | 17.138 | 17.163 | VV | 3977 | 58099 | 1.03% | 0.215% |
| 269 | 17.203 | 17.163 | 17.247 | VV | 4406 | 203455 | 3.60% | 0.753% |
| 270 | 17.280 | 17.247 | 17.322 | VV | 4931 | 187649 | 3.32% | 0.695% |
| 271 | 17.339 | 17.322 | 17.354 | VV | 4113 | 73672 | 1.30% | 0.273% |
| 272 | 17.400 | 17.354 | 17.474 | VV | 11586 | 378823 | 6.70% | 1.402% |
| 273 | 17.491 | 17.474 | 17.551 | VV | 5056 | 177244 | 3.14% | 0.656% |
| 274 | 17.577 | 17.551 | 17.598 | VV | 3639 | 97512 | 1.73% | 0.361% |
| 275 | 17.620 | 17.598 | 17.644 | VV | 3484 | 94363 | 1.67% | 0.349% |
| 276 | 17.686 | 17.644 | 17.716 | VV | 4090 | 150771 | 2.67% | 0.558% |
| 277 | 17.730 | 17.716 | 17.751 | VV | 3428 | 70248 | 1.24% | 0.260% |
| 278 | 17.761 | 17.751 | 17.770 | VV | 3240 | 37408 | 0.66% | 0.138% |
| 279 | 17.788 | 17.770 | 17.808 | VV | 3705 | 78504 | 1.39% | 0.291% |
| 280 | 17.837 | 17.808 | 17.869 | VV | 13220 | 251819 | 4.46% | 0.932% |
| 281 | 17.890 | 17.869 | 17.933 | VV | 3324 | 118939 | 2.10% | 0.440% |
| 282 | 17.994 | 17.933 | 18.061 | VV | 4374 | 266480 | 4.72% | 0.986% |
| 283 | 18.072 | 18.061 | 18.085 | VV | 3012 | 43606 | 0.77% | 0.161% |
| 284 | 18.113 | 18.085 | 18.135 | VV | 3605 | 96158 | 1.70% | 0.356% |
| 285 | 18.162 | 18.135 | 18.181 | VV | 3870 | 92567 | 1.64% | 0.343% |
| 286 | 18.219 | 18.181 | 18.235 | VV | 3405 | 100950 | 1.79% | 0.374% |
| 287 | 18.261 | 18.235 | 18.301 | VV | 11353 | 217837 | 3.85% | 0.806% |
| 288 | 18.362 | 18.301 | 18.380 | VV | 3222 | 129031 | 2.28% | 0.478% |
| 289 | 18.392 | 18.380 | 18.462 | VV | 2791 | 121677 | 2.15% | 0.450% |
| 290 | 18.478 | 18.462 | 18.488 | VV | 2449 | 36076 | 0.64% | 0.134% |
| 291 | 18.526 | 18.488 | 18.556 | VV | 3139 | 108339 | 1.92% | 0.401% |
| 292 | 18.568 | 18.556 | 18.594 | VV | 2496 | 54119 | 0.96% | 0.200% |
| 293 | 18.603 | 18.594 | 18.621 | VV | 2226 | 34496 | 0.61% | 0.128% |
| 294 | 18.672 | 18.621 | 18.724 | VV | 10949 | 256297 | 4.54% | 0.949% |
| 295 | 18.736 | 18.724 | 18.754 | VV | 1880 | 32372 | 0.57% | 0.120% |
| 296 | 18.790 | 18.754 | 18.811 | VV | 2533 | 71396 | 1.26% | 0.264% |
| 297 | 18.826 | 18.811 | 18.851 | VV | 2328 | 54789 | 0.97% | 0.203% |
| 298 | 18.861 | 18.851 | 18.899 | VV | 2243 | 59206 | 1.05% | 0.219% |
| 299 | 18.926 | 18.899 | 18.950 | VV | 2463 | 65156 | 1.15% | 0.241% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 18.974 | 18.950 | 18.995 | VV | 2168 | 51854 | 0.92% | 0.192% |
| 301 | 19.027 | 18.995 | 19.043 | VV | 3403 | 71349 | 1.26% | 0.264% |
| 302 | 19.071 | 19.043 | 19.141 | VV | 8194 | 207761 | 3.68% | 0.769% |
| 303 | 19.155 | 19.141 | 19.164 | VV | 1675 | 22223 | 0.39% | 0.082% |
| 304 | 19.184 | 19.164 | 19.204 | VV | 2131 | 45505 | 0.81% | 0.168% |
| 305 | 19.215 | 19.204 | 19.227 | VV | 2025 | 26306 | 0.47% | 0.097% |
| 306 | 19.248 | 19.227 | 19.288 | VV | 2133 | 70347 | 1.24% | 0.260% |
| 307 | 19.312 | 19.288 | 19.341 | VV | 2063 | 59756 | 1.06% | 0.221% |
| 308 | 19.362 | 19.341 | 19.413 | VV | 1953 | 73055 | 1.29% | 0.270% |
| 309 | 19.457 | 19.413 | 19.491 | VV | 7890 | 167697 | 2.97% | 0.621% |
| 310 | 19.500 | 19.491 | 19.535 | VV | 1938 | 45940 | 0.81% | 0.170% |
| 311 | 19.554 | 19.535 | 19.567 | VV | 1728 | 29850 | 0.53% | 0.110% |
| 312 | 19.598 | 19.567 | 19.622 | VV | 1893 | 57727 | 1.02% | 0.214% |
| 313 | 19.643 | 19.622 | 19.671 | VV | 1882 | 50339 | 0.89% | 0.186% |
| 314 | 19.697 | 19.671 | 19.714 | VV | 1988 | 48096 | 0.85% | 0.178% |
| 315 | 19.743 | 19.714 | 19.798 | VV | 2189 | 91399 | 1.62% | 0.338% |
| 316 | 19.832 | 19.798 | 19.871 | VV | 5205 | 127007 | 2.25% | 0.470% |
| 317 | 19.886 | 19.871 | 19.915 | VV | 1923 | 47315 | 0.84% | 0.175% |
| 318 | 19.986 | 19.915 | 19.995 | VV | 2132 | 89176 | 1.58% | 0.330% |
| 319 | 20.004 | 19.995 | 20.038 | VV | 2153 | 51022 | 0.90% | 0.189% |
| 320 | 20.072 | 20.038 | 20.091 | VV | 2189 | 64263 | 1.14% | 0.238% |
| 321 | 20.112 | 20.091 | 20.168 | VV | 2329 | 93799 | 1.66% | 0.347% |
| 322 | 20.200 | 20.168 | 20.229 | VV | 6902 | 148979 | 2.64% | 0.551% |
| 323 | 20.260 | 20.229 | 20.293 | VV | 2659 | 90599 | 1.60% | 0.335% |
| 324 | 20.334 | 20.293 | 20.354 | VV | 2656 | 89691 | 1.59% | 0.332% |
| 325 | 20.361 | 20.354 | 20.399 | VV | 2540 | 64387 | 1.14% | 0.238% |
| 326 | 20.434 | 20.399 | 20.448 | VV | 2494 | 70502 | 1.25% | 0.261% |
| 327 | 20.468 | 20.448 | 20.524 | VV | 2651 | 111090 | 1.97% | 0.411% |
| 328 | 20.564 | 20.524 | 20.620 | VV | 3952 | 153712 | 2.72% | 0.569% |
| 329 | 20.646 | 20.620 | 20.664 | VV | 2197 | 54662 | 0.97% | 0.202% |
| 330 | 20.748 | 20.664 | 20.802 | VV | 2409 | 183287 | 3.24% | 0.678% |
| 331 | 20.816 | 20.802 | 20.836 | VV | 2189 | 42455 | 0.75% | 0.157% |
| 332 | 20.874 | 20.836 | 20.924 | VV | 2133 | 102853 | 1.82% | 0.381% |
| 333 | 20.968 | 20.924 | 21.057 | VV | 5620 | 209554 | 3.71% | 0.776% |
| 334 | 21.066 | 21.057 | 21.079 | VV | 1626 | 20014 | 0.35% | 0.074% |
| 335 | 21.117 | 21.079 | 21.161 | VV | 1640 | 76688 | 1.36% | 0.284% |
| 336 | 21.174 | 21.161 | 21.204 | VV | 1601 | 36985 | 0.65% | 0.137% |
| 337 | 21.243 | 21.204 | 21.258 | VV | 1364 | 42493 | 0.75% | 0.157% |
| 338 | 21.266 | 21.258 | 21.280 | VV | 1256 | 16187 | 0.29% | 0.060% |
| 339 | 21.324 | 21.280 | 21.384 | VV | 1490 | 78806 | 1.39% | 0.292% |
| 340 | 21.420 | 21.384 | 21.468 | VV | 1775 | 68852 | 1.22% | 0.255% |
| 341 | 21.481 | 21.468 | 21.490 | VV | 1117 | 14237 | 0.25% | 0.053% |
| 342 | 21.521 | 21.490 | 21.568 | VV | 1176 | 50168 | 0.89% | 0.186% |
| 343 | 21.575 | 21.568 | 21.605 | VV | 998 | 21392 | 0.38% | 0.079% |
| 344 | 21.618 | 21.605 | 21.658 | VV | 976 | 28769 | 0.51% | 0.106% |
| 345 | 21.670 | 21.658 | 21.734 | VV | 938 | 35445 | 0.63% | 0.131% |
| 346 | 21.741 | 21.734 | 21.784 | VV | 770 | 21631 | 0.38% | 0.080% |
| 347 | 21.814 | 21.784 | 21.844 | VV | 960 | 29614 | 0.52% | 0.110% |
| 348 | 21.856 | 21.844 | 21.869 | VV | 692 | 9396 | 0.17% | 0.035% |
| 349 | 21.937 | 21.869 | 22.001 | VV | 5767 | 164136 | 2.90% | 0.608% |
| 350 | 22.013 | 22.001 | 22.061 | VV | 737 | 20525 | 0.36% | 0.076% |
| 351 | 22.076 | 22.061 | 22.088 | VV | 489 | 7008 | 0.12% | 0.026% |

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|---|---|---|---|---|---|---|---|---|
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| 352 | 22.092 | 22.088 | 22.124 | VV | 487 | 8283 | 0.15% | 0.031% |
| 353 | 22.137 | 22.124 | 22.157 | VV | 486 | 7098 | 0.13% | 0.026% |
| 354 | 22.168 | 22.157 | 22.248 | VV | 398 | 17533 | 0.31% | 0.065% |
| 355 | 22.259 | 22.248 | 22.263 | VV | 345 | 2900 | 0.05% | 0.011% |
| 356 | 22.294 | 22.263 | 22.418 | VV | 483 | 22855 | 0.40% | 0.085% |

Sum of corrected areas: 27015288

Aliphatic EPH 052425.M Fri Jun 13 03:35:43 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061325AR\
Data File : FD049482.D
Signal(s) : FID2B.ch
Acq On : 13 Jun 2025 08:25
Operator : YP/AJ
Sample : Q2177-02
Misc :
ALS Vial : 61 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
B-187-SB01

Integration File: autoint1.e
Quant Time: Jun 13 21:19:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| **System Monitoring Compounds** | | | |
| 4) S 2-Bromonaphthalene (S... | 7.732 | 3952894 | 23.779 ug/ml |
| Spiked Amount 50.000 | | Recovery = 47.56% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.597 | 2498647 | 21.842 ug/ml |
| Spiked Amount 50.000 | Range 0 - 131 | Recovery = 43.68% | |
| 11) S ortho-Terphenyl (SURR) | 11.646 | 8349277 | 41.596 ug/ml |
| Spiked Amount 50.000 | | Recovery = 83.19% | |
| **Target Compounds** | | | |

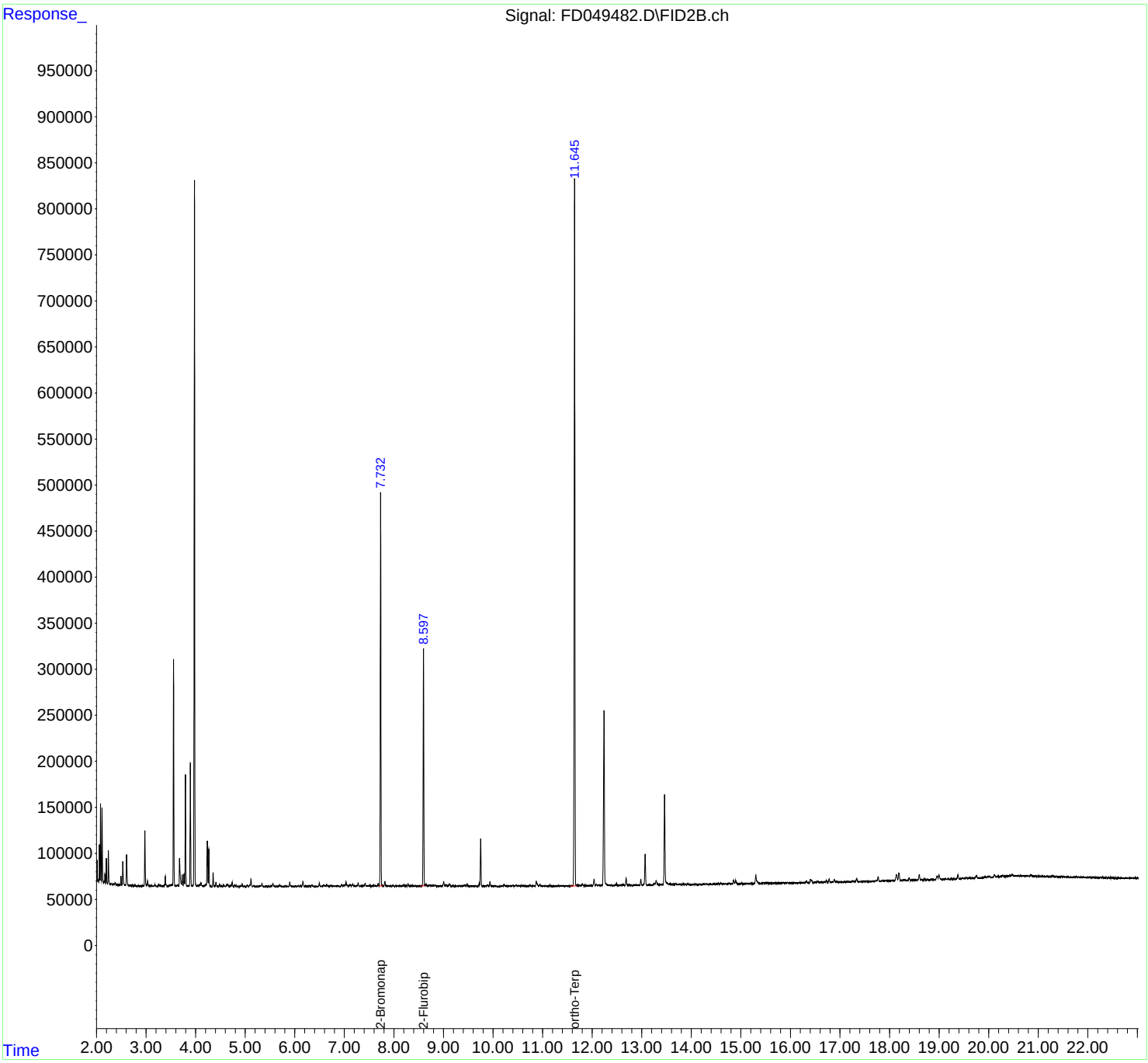
(f)=RT Delta > 1/2 Window (m)=manual int.

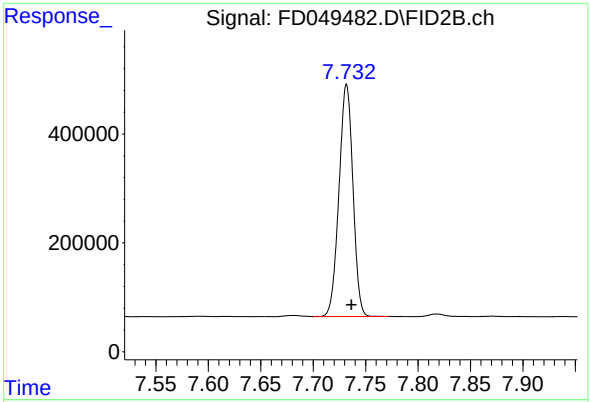
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061325AR\
Data File : FD049482.D
Signal(s) : FID2B.ch
Acq On : 13 Jun 2025 08:25
Operator : YP/AJ
Sample : Q2177-02
Misc :
ALS Vial : 61 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
B-187-SB01

Integration File: autoint1.e
Quant Time: Jun 13 21:19:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

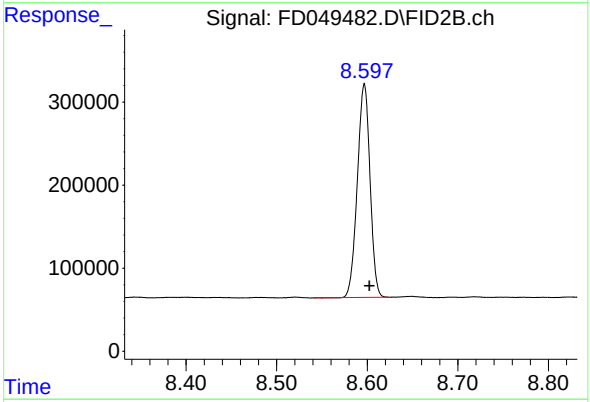





#4 2-Bromonaphthalene (SURR)

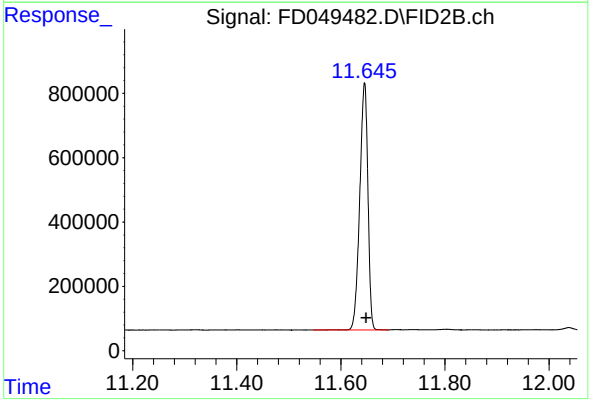
R.T.: 7.732 min
Delta R.T.: -0.004 min
Response: 3952894
Conc: 23.78 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
B-187-SB01




#6 2-Flurobiphenyl (SURR)

R.T.: 8.597 min
Delta R.T.: -0.005 min
Response: 2498647
Conc: 21.84 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.646 min
Delta R.T.: -0.003 min
Response: 8349277
Conc: 41.60 ug/ml

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061325AR\
Data File : FD049482.D
Signal(s) : FID2B.ch
Acq On : 13 Jun 2025 08:25
Sample : Q2177-02
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.266 | 4.252 | 4.328 | PH | 40797 | 347734 | 4.16% | 1.294% |
| 2 | 4.353 | 4.328 | 4.394 | PV | 14659 | 128960 | 1.54% | 0.480% |
| 3 | 4.409 | 4.394 | 4.451 | VV | 4750 | 48031 | 0.57% | 0.179% |
| 4 | 4.482 | 4.461 | 4.500 | VV | 3140 | 30910 | 0.37% | 0.115% |
| 5 | 4.518 | 4.500 | 4.544 | VV | 1478 | 18745 | 0.22% | 0.070% |
| 6 | 4.560 | 4.544 | 4.588 | VV | 2128 | 24476 | 0.29% | 0.091% |
| 7 | 4.597 | 4.588 | 4.610 | VV | 605 | 5771 | 0.07% | 0.021% |
| 8 | 4.626 | 4.610 | 4.638 | VV | 2569 | 23718 | 0.28% | 0.088% |
| 9 | 4.650 | 4.638 | 4.674 | VV | 2890 | 31488 | 0.38% | 0.117% |
| 10 | 4.686 | 4.674 | 4.690 | VV | 623 | 4414 | 0.05% | 0.016% |
| 11 | 4.706 | 4.690 | 4.719 | VV | 2202 | 23636 | 0.28% | 0.088% |
| 12 | 4.736 | 4.719 | 4.759 | VV | 4863 | 48593 | 0.58% | 0.181% |
| 13 | 4.763 | 4.759 | 4.769 | VV | 360 | 1799 | 0.02% | 0.007% |
| 14 | 4.788 | 4.769 | 4.805 | VV | 2294 | 25410 | 0.30% | 0.095% |
| 15 | 4.816 | 4.805 | 4.829 | VV | 1262 | 12119 | 0.14% | 0.045% |
| 16 | 4.833 | 4.829 | 4.840 | VV | 486 | 2186 | 0.03% | 0.008% |
| 17 | 4.858 | 4.840 | 4.873 | VV | 629 | 6493 | 0.08% | 0.024% |
| 18 | 4.898 | 4.873 | 4.913 | PV | 881 | 10209 | 0.12% | 0.038% |
| 19 | 4.940 | 4.913 | 4.968 | VV | 2497 | 35437 | 0.42% | 0.132% |
| 20 | 4.979 | 4.968 | 5.003 | VV | 854 | 11444 | 0.14% | 0.043% |
| 21 | 5.012 | 5.003 | 5.020 | VV | 422 | 3090 | 0.04% | 0.011% |
| 22 | 5.040 | 5.020 | 5.074 | VV | 2339 | 34250 | 0.41% | 0.127% |
| 23 | 5.090 | 5.074 | 5.100 | VV | 2051 | 22054 | 0.26% | 0.082% |
| 24 | 5.116 | 5.100 | 5.150 | VV | 8553 | 96687 | 1.16% | 0.360% |
| 25 | 5.172 | 5.150 | 5.199 | VV | 1655 | 22330 | 0.27% | 0.083% |
| 26 | 5.225 | 5.199 | 5.255 | VV | 725 | 13225 | 0.16% | 0.049% |
| 27 | 5.282 | 5.255 | 5.289 | VV | 707 | 10286 | 0.12% | 0.038% |
| 28 | 5.293 | 5.289 | 5.300 | VV | 697 | 3710 | 0.04% | 0.014% |
| 29 | 5.310 | 5.300 | 5.322 | VV | 727 | 8303 | 0.10% | 0.031% |
| 30 | 5.337 | 5.322 | 5.372 | VV | 3862 | 42224 | 0.51% | 0.157% |
| 31 | 5.389 | 5.372 | 5.407 | VV | 548 | 8635 | 0.10% | 0.032% |
| 32 | 5.430 | 5.407 | 5.455 | VV | 624 | 11665 | 0.14% | 0.043% |
| 33 | 5.461 | 5.455 | 5.472 | VV | 438 | 3187 | 0.04% | 0.012% |
| 34 | 5.482 | 5.472 | 5.497 | VV | 515 | 6471 | 0.08% | 0.024% |
| 35 | 5.517 | 5.497 | 5.532 | VV | 1844 | 20695 | 0.25% | 0.077% |
| 36 | 5.560 | 5.532 | 5.581 | VV | 3295 | 51486 | 0.62% | 0.192% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.585 | 5.581 | 5.604 | VV | 739 | 6880 | 0.08% | 0.026% |
| 38 | 5.619 | 5.604 | 5.639 | VV | 827 | 11513 | 0.14% | 0.043% |
| 39 | 5.649 | 5.639 | 5.659 | VV | 583 | 4909 | 0.06% | 0.018% |
| 40 | 5.696 | 5.659 | 5.744 | VV | 2294 | 40153 | 0.48% | 0.149% |
| 41 | 5.767 | 5.744 | 5.784 | VV | 555 | 10004 | 0.12% | 0.037% |
| 42 | 5.814 | 5.784 | 5.844 | VV | 820 | 18272 | 0.22% | 0.068% |
| 43 | 5.845 | 5.844 | 5.849 | VV | 385 | 1124 | 0.01% | 0.004% |
| 44 | 5.872 | 5.849 | 5.883 | VV | 660 | 10353 | 0.12% | 0.039% |
| 45 | 5.898 | 5.883 | 5.945 | VV | 5018 | 57684 | 0.69% | 0.215% |
| 46 | 5.949 | 5.945 | 5.963 | VV | 444 | 4276 | 0.05% | 0.016% |
| 47 | 5.970 | 5.963 | 5.988 | VV | 565 | 5951 | 0.07% | 0.022% |
| 48 | 6.010 | 5.988 | 6.024 | VV | 832 | 12272 | 0.15% | 0.046% |
| 49 | 6.026 | 6.024 | 6.035 | VV | 576 | 3295 | 0.04% | 0.012% |
| 50 | 6.069 | 6.035 | 6.092 | VV | 1573 | 27504 | 0.33% | 0.102% |
| 51 | 6.115 | 6.092 | 6.136 | VV | 1292 | 19516 | 0.23% | 0.073% |
| 52 | 6.166 | 6.136 | 6.188 | VV | 5608 | 71857 | 0.86% | 0.267% |
| 53 | 6.218 | 6.188 | 6.244 | VV | 1092 | 20650 | 0.25% | 0.077% |
| 54 | 6.259 | 6.244 | 6.267 | VV | 464 | 5462 | 0.07% | 0.020% |
| 55 | 6.291 | 6.267 | 6.323 | VV | 876 | 19222 | 0.23% | 0.072% |
| 56 | 6.343 | 6.323 | 6.365 | VV | 1900 | 27290 | 0.33% | 0.102% |
| 57 | 6.371 | 6.365 | 6.392 | VV | 790 | 8893 | 0.11% | 0.033% |
| 58 | 6.395 | 6.392 | 6.402 | VV | 462 | 2391 | 0.03% | 0.009% |
| 59 | 6.411 | 6.402 | 6.425 | VV | 409 | 4826 | 0.06% | 0.018% |
| 60 | 6.430 | 6.425 | 6.437 | VV | 476 | 2685 | 0.03% | 0.010% |
| 61 | 6.450 | 6.437 | 6.474 | VV | 439 | 8345 | 0.10% | 0.031% |
| 62 | 6.496 | 6.474 | 6.525 | VV | 4369 | 49129 | 0.59% | 0.183% |
| 63 | 6.533 | 6.525 | 6.539 | VV | 502 | 3981 | 0.05% | 0.015% |
| 64 | 6.542 | 6.539 | 6.545 | VV | 481 | 1698 | 0.02% | 0.006% |
| 65 | 6.549 | 6.545 | 6.560 | VV | 584 | 4162 | 0.05% | 0.015% |
| 66 | 6.586 | 6.560 | 6.603 | VV | 2189 | 34236 | 0.41% | 0.127% |
| 67 | 6.616 | 6.603 | 6.627 | VV | 1033 | 11649 | 0.14% | 0.043% |
| 68 | 6.646 | 6.627 | 6.668 | VV | 2926 | 34966 | 0.42% | 0.130% |
| 69 | 6.679 | 6.668 | 6.699 | VV | 828 | 10578 | 0.13% | 0.039% |
| 70 | 6.718 | 6.699 | 6.736 | VV | 1610 | 18946 | 0.23% | 0.071% |
| 71 | 6.751 | 6.736 | 6.784 | VV | 1146 | 19113 | 0.23% | 0.071% |
| 72 | 6.825 | 6.784 | 6.841 | VV | 980 | 22178 | 0.27% | 0.083% |
| 73 | 6.864 | 6.841 | 6.915 | VV | 942 | 28834 | 0.34% | 0.107% |
| 74 | 6.940 | 6.915 | 6.945 | VV | 1485 | 14935 | 0.18% | 0.056% |
| 75 | 6.955 | 6.945 | 6.974 | VV | 1484 | 21265 | 0.25% | 0.079% |
| 76 | 6.993 | 6.974 | 7.006 | VV | 2054 | 28781 | 0.34% | 0.107% |
| 77 | 7.034 | 7.006 | 7.085 | VV | 5085 | 98044 | 1.17% | 0.365% |
| 78 | 7.118 | 7.085 | 7.138 | VV | 2766 | 48042 | 0.57% | 0.179% |
| 79 | 7.170 | 7.138 | 7.185 | VV | 3042 | 48508 | 0.58% | 0.181% |
| 80 | 7.197 | 7.185 | 7.212 | VV | 1436 | 16349 | 0.20% | 0.061% |
| 81 | 7.221 | 7.212 | 7.242 | VV | 920 | 12746 | 0.15% | 0.047% |
| 82 | 7.279 | 7.242 | 7.312 | VV | 4229 | 68259 | 0.82% | 0.254% |
| 83 | 7.317 | 7.312 | 7.324 | VV | 526 | 3263 | 0.04% | 0.012% |
| 84 | 7.334 | 7.324 | 7.368 | VV | 1194 | 22282 | 0.27% | 0.083% |
| 85 | 7.384 | 7.368 | 7.397 | VV | 1228 | 14616 | 0.17% | 0.054% |
| 86 | 7.418 | 7.397 | 7.444 | VV | 3590 | 51830 | 0.62% | 0.193% |
| 87 | 7.454 | 7.444 | 7.464 | VV | 909 | 9857 | 0.12% | 0.037% |
| 88 | 7.481 | 7.464 | 7.487 | VV | 1170 | 13132 | 0.16% | 0.049% |
| 89 | 7.490 | 7.487 | 7.495 | VV | 1053 | 4171 | 0.05% | 0.016% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.509 | 7.495 | 7.529 | VV | 1413 | 21507 | 0.26% | 0.080% |
| 91 | 7.538 | 7.529 | 7.559 | VV | 758 | 11759 | 0.14% | 0.044% |
| 92 | 7.592 | 7.559 | 7.606 | VV | 1440 | 27391 | 0.33% | 0.102% |
| 93 | 7.620 | 7.606 | 7.628 | VV | 1059 | 12298 | 0.15% | 0.046% |
| 94 | 7.633 | 7.628 | 7.643 | VV | 896 | 7104 | 0.08% | 0.026% |
| 95 | 7.649 | 7.643 | 7.654 | VV | 786 | 4294 | 0.05% | 0.016% |
| 96 | 7.655 | 7.654 | 7.664 | VV | 767 | 4132 | 0.05% | 0.015% |
| 97 | 7.681 | 7.664 | 7.700 | VV | 2894 | 39723 | 0.48% | 0.148% |
| 98 | 7.732 | 7.700 | 7.779 | VV | 427622 | 3997153 | 47.82% | 14.878% |
| 99 | 7.783 | 7.779 | 7.797 | VV | 955 | 8092 | 0.10% | 0.030% |
| 100 | 7.818 | 7.797 | 7.856 | VV | 5606 | 79088 | 0.95% | 0.294% |
| 101 | 7.871 | 7.856 | 7.891 | VV | 1577 | 21846 | 0.26% | 0.081% |
| 102 | 7.896 | 7.891 | 7.921 | VV | 912 | 12068 | 0.14% | 0.045% |
| 103 | 7.939 | 7.921 | 7.962 | VV | 955 | 14455 | 0.17% | 0.054% |
| 104 | 7.983 | 7.962 | 8.011 | VV | 1673 | 22602 | 0.27% | 0.084% |
| 105 | 8.040 | 8.011 | 8.055 | VV | 1351 | 18182 | 0.22% | 0.068% |
| 106 | 8.075 | 8.055 | 8.092 | VV | 900 | 14923 | 0.18% | 0.056% |
| 107 | 8.112 | 8.092 | 8.133 | VV | 1063 | 18062 | 0.22% | 0.067% |
| 108 | 8.136 | 8.133 | 8.150 | VV | 554 | 5436 | 0.07% | 0.020% |
| 109 | 8.154 | 8.150 | 8.158 | VV | 571 | 2485 | 0.03% | 0.009% |
| 110 | 8.197 | 8.158 | 8.234 | VV | 1562 | 48532 | 0.58% | 0.181% |
| 111 | 8.245 | 8.234 | 8.268 | VV | 956 | 14108 | 0.17% | 0.053% |
| 112 | 8.286 | 8.268 | 8.307 | VV | 3315 | 39754 | 0.48% | 0.148% |
| 113 | 8.314 | 8.307 | 8.319 | VV | 580 | 3860 | 0.05% | 0.014% |
| 114 | 8.344 | 8.319 | 8.365 | VV | 1331 | 22323 | 0.27% | 0.083% |
| 115 | 8.384 | 8.365 | 8.393 | VV | 1005 | 14017 | 0.17% | 0.052% |
| 116 | 8.399 | 8.393 | 8.424 | VV | 1142 | 16616 | 0.20% | 0.062% |
| 117 | 8.435 | 8.424 | 8.464 | VV | 894 | 15304 | 0.18% | 0.057% |
| 118 | 8.483 | 8.464 | 8.502 | VV | 925 | 15198 | 0.18% | 0.057% |
| 119 | 8.521 | 8.502 | 8.537 | VV | 1259 | 16417 | 0.20% | 0.061% |
| 120 | 8.597 | 8.537 | 8.625 | VV | 258318 | 2539556 | 30.38% | 9.452% |
| 121 | 8.649 | 8.625 | 8.676 | VV | 2154 | 43923 | 0.53% | 0.163% |
| 122 | 8.694 | 8.676 | 8.705 | VV | 1276 | 17213 | 0.21% | 0.064% |
| 123 | 8.719 | 8.705 | 8.739 | VV | 1712 | 25706 | 0.31% | 0.096% |
| 124 | 8.747 | 8.739 | 8.764 | VV | 1215 | 16781 | 0.20% | 0.062% |
| 125 | 8.773 | 8.764 | 8.784 | VV | 1174 | 11948 | 0.14% | 0.044% |
| 126 | 8.796 | 8.784 | 8.805 | VV | 1020 | 11539 | 0.14% | 0.043% |
| 127 | 8.824 | 8.805 | 8.836 | VV | 1394 | 20850 | 0.25% | 0.078% |
| 128 | 8.840 | 8.836 | 8.872 | VV | 1295 | 16890 | 0.20% | 0.063% |
| 129 | 8.893 | 8.872 | 8.909 | VV | 794 | 13291 | 0.16% | 0.049% |
| 130 | 8.915 | 8.909 | 8.928 | VV | 568 | 5980 | 0.07% | 0.022% |
| 131 | 8.938 | 8.928 | 8.953 | VV | 799 | 9798 | 0.12% | 0.036% |
| 132 | 8.970 | 8.953 | 8.976 | VV | 811 | 8932 | 0.11% | 0.033% |
| 133 | 9.005 | 8.976 | 9.030 | VV | 5376 | 78731 | 0.94% | 0.293% |
| 134 | 9.043 | 9.030 | 9.056 | VV | 1515 | 19505 | 0.23% | 0.073% |
| 135 | 9.064 | 9.056 | 9.083 | VV | 1241 | 16109 | 0.19% | 0.060% |
| 136 | 9.124 | 9.083 | 9.160 | VV | 2924 | 63996 | 0.77% | 0.238% |
| 137 | 9.168 | 9.160 | 9.178 | VV | 733 | 6532 | 0.08% | 0.024% |
| 138 | 9.191 | 9.178 | 9.222 | VV | 1059 | 18407 | 0.22% | 0.069% |
| 139 | 9.246 | 9.222 | 9.267 | VV | 923 | 14522 | 0.17% | 0.054% |
| 140 | 9.290 | 9.267 | 9.314 | VV | 890 | 17317 | 0.21% | 0.064% |
| 141 | 9.330 | 9.314 | 9.370 | VV | 895 | 20198 | 0.24% | 0.075% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.394 | 9.370 | 9.400 | VV | 948 | 12768 | 0.15% | 0.048% |
| 143 | 9.408 | 9.400 | 9.415 | VV | 894 | 7739 | 0.09% | 0.029% |
| 144 | 9.430 | 9.415 | 9.455 | VV | 1427 | 25151 | 0.30% | 0.094% |
| 145 | 9.474 | 9.455 | 9.497 | VV | 2007 | 33154 | 0.40% | 0.123% |
| 146 | 9.502 | 9.497 | 9.517 | VV | 589 | 5899 | 0.07% | 0.022% |
| 147 | 9.521 | 9.517 | 9.538 | VV | 549 | 5973 | 0.07% | 0.022% |
| 148 | 9.572 | 9.538 | 9.597 | VV | 870 | 19543 | 0.23% | 0.073% |
| 149 | 9.612 | 9.597 | 9.622 | VV | 757 | 9428 | 0.11% | 0.035% |
| 150 | 9.626 | 9.622 | 9.650 | VV | 707 | 9785 | 0.12% | 0.036% |
| 151 | 9.655 | 9.650 | 9.675 | VV | 536 | 7054 | 0.08% | 0.026% |
| 152 | 9.681 | 9.675 | 9.693 | VV | 566 | 5059 | 0.06% | 0.019% |
| 153 | 9.720 | 9.693 | 9.732 | VV | 3594 | 40897 | 0.49% | 0.152% |
| 154 | 9.751 | 9.732 | 9.783 | VV | 52028 | 527561 | 6.31% | 1.964% |
| 155 | 9.798 | 9.783 | 9.829 | VV | 664 | 15424 | 0.18% | 0.057% |
| 156 | 9.834 | 9.829 | 9.860 | VV | 523 | 6342 | 0.08% | 0.024% |
| 157 | 9.897 | 9.860 | 9.916 | VV | 1422 | 30274 | 0.36% | 0.113% |
| 158 | 9.938 | 9.916 | 9.961 | VV | 5204 | 58581 | 0.70% | 0.218% |
| 159 | 9.966 | 9.961 | 9.977 | VV | 721 | 5736 | 0.07% | 0.021% |
| 160 | 9.984 | 9.977 | 10.012 | VV | 611 | 8396 | 0.10% | 0.031% |
| 161 | 10.022 | 10.012 | 10.027 | VV | 417 | 2818 | 0.03% | 0.010% |
| 162 | 10.031 | 10.027 | 10.034 | VV | 361 | 1106 | 0.01% | 0.004% |
| 163 | 10.042 | 10.034 | 10.047 | VV | 334 | 2622 | 0.03% | 0.010% |
| 164 | 10.056 | 10.047 | 10.092 | VV | 458 | 7010 | 0.08% | 0.026% |
| 165 | 10.106 | 10.092 | 10.118 | PV | 329 | 2345 | 0.03% | 0.009% |
| 166 | 10.133 | 10.118 | 10.150 | VV | 422 | 5385 | 0.06% | 0.020% |
| 167 | 10.159 | 10.150 | 10.165 | VV | 437 | 2812 | 0.03% | 0.010% |
| 168 | 10.224 | 10.165 | 10.246 | VV | 2800 | 46189 | 0.55% | 0.172% |
| 169 | 10.250 | 10.246 | 10.258 | VV | 604 | 3622 | 0.04% | 0.013% |
| 170 | 10.271 | 10.258 | 10.292 | VV | 730 | 11618 | 0.14% | 0.043% |
| 171 | 10.310 | 10.292 | 10.327 | VV | 718 | 10846 | 0.13% | 0.040% |
| 172 | 10.331 | 10.327 | 10.339 | VV | 521 | 3400 | 0.04% | 0.013% |
| 173 | 10.354 | 10.339 | 10.382 | VV | 776 | 17454 | 0.21% | 0.065% |
| 174 | 10.402 | 10.382 | 10.421 | VV | 1360 | 20197 | 0.24% | 0.075% |
| 175 | 10.466 | 10.421 | 10.495 | VV | 1682 | 38628 | 0.46% | 0.144% |
| 176 | 10.521 | 10.495 | 10.537 | VV | 921 | 18288 | 0.22% | 0.068% |
| 177 | 10.569 | 10.537 | 10.587 | VV | 787 | 18605 | 0.22% | 0.069% |
| 178 | 10.605 | 10.587 | 10.632 | VV | 1059 | 21306 | 0.25% | 0.079% |
| 179 | 10.642 | 10.632 | 10.655 | VV | 623 | 6715 | 0.08% | 0.025% |
| 180 | 10.675 | 10.655 | 10.695 | VV | 858 | 13715 | 0.16% | 0.051% |
| 181 | 10.713 | 10.695 | 10.727 | VV | 874 | 12634 | 0.15% | 0.047% |
| 182 | 10.753 | 10.727 | 10.775 | VV | 1377 | 25929 | 0.31% | 0.097% |
| 183 | 10.778 | 10.775 | 10.794 | VV | 562 | 5107 | 0.06% | 0.019% |
| 184 | 10.814 | 10.794 | 10.834 | VV | 702 | 13129 | 0.16% | 0.049% |
| 185 | 10.872 | 10.834 | 10.921 | VV | 5955 | 112971 | 1.35% | 0.420% |
| 186 | 10.947 | 10.921 | 10.978 | VV | 2220 | 39681 | 0.47% | 0.148% |
| 187 | 10.990 | 10.978 | 11.004 | VV | 640 | 8947 | 0.11% | 0.033% |
| 188 | 11.008 | 11.004 | 11.013 | VV | 472 | 2249 | 0.03% | 0.008% |
| 189 | 11.031 | 11.013 | 11.042 | VV | 713 | 10355 | 0.12% | 0.039% |
| 190 | 11.045 | 11.042 | 11.061 | VV | 674 | 6618 | 0.08% | 0.025% |
| 191 | 11.068 | 11.061 | 11.099 | VV | 549 | 8984 | 0.11% | 0.033% |
| 192 | 11.105 | 11.099 | 11.110 | VV | 409 | 2180 | 0.03% | 0.008% |
| 193 | 11.125 | 11.110 | 11.143 | VV | 588 | 9113 | 0.11% | 0.034% |
| 194 | 11.156 | 11.143 | 11.181 | VV | 1138 | 14976 | 0.18% | 0.056% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 11.187 | 11.181 | 11.193 | VV | 407 | 1804 | 0.02% | 0.007% |
| 196 | 11.199 | 11.193 | 11.208 | VV | 300 | 1483 | 0.02% | 0.006% |
| 197 | 11.220 | 11.208 | 11.226 | VV | 309 | 1945 | 0.02% | 0.007% |
| 198 | 11.238 | 11.226 | 11.241 | VV | 405 | 2173 | 0.03% | 0.008% |
| 199 | 11.251 | 11.241 | 11.278 | VV | 563 | 7752 | 0.09% | 0.029% |
| 200 | 11.292 | 11.278 | 11.304 | VV | 490 | 5042 | 0.06% | 0.019% |
| 201 | 11.319 | 11.304 | 11.343 | VV | 1057 | 13368 | 0.16% | 0.050% |
| 202 | 11.377 | 11.343 | 11.387 | PV | 617 | 10422 | 0.12% | 0.039% |
| 203 | 11.402 | 11.387 | 11.427 | VV | 713 | 12726 | 0.15% | 0.047% |
| 204 | 11.431 | 11.427 | 11.436 | VV | 439 | 1918 | 0.02% | 0.007% |
| 205 | 11.439 | 11.436 | 11.451 | VV | 374 | 2612 | 0.03% | 0.010% |
| 206 | 11.478 | 11.451 | 11.507 | VV | 634 | 11266 | 0.13% | 0.042% |
| 207 | 11.524 | 11.507 | 11.534 | VV | 374 | 3721 | 0.04% | 0.014% |
| 208 | 11.560 | 11.534 | 11.565 | VV | 378 | 4848 | 0.06% | 0.018% |
| 209 | 11.579 | 11.565 | 11.609 | VV | 733 | 15102 | 0.18% | 0.056% |
| 210 | 11.646 | 11.609 | 11.692 | VV | 768969 | 8359387 | 100.00% | 31.114% |
| 211 | 11.707 | 11.692 | 11.720 | VV | 1224 | 15239 | 0.18% | 0.057% |
| 212 | 11.739 | 11.720 | 11.764 | VV | 1123 | 21865 | 0.26% | 0.081% |
| 213 | 11.804 | 11.764 | 11.837 | VV | 2352 | 46942 | 0.56% | 0.175% |
| 214 | 11.852 | 11.837 | 11.878 | VV | 812 | 11239 | 0.13% | 0.042% |
| 215 | 11.901 | 11.878 | 11.905 | VV | 345 | 3522 | 0.04% | 0.013% |
| 216 | 11.913 | 11.905 | 11.930 | VV | 503 | 5201 | 0.06% | 0.019% |
| 217 | 11.937 | 11.930 | 11.942 | VV | 330 | 2245 | 0.03% | 0.008% |
| 218 | 11.977 | 11.942 | 12.008 | VV | 889 | 20678 | 0.25% | 0.077% |
| 219 | 12.038 | 12.008 | 12.062 | VV | 7271 | 94762 | 1.13% | 0.353% |
| 220 | 12.083 | 12.062 | 12.113 | VV | 1825 | 28706 | 0.34% | 0.107% |
| 221 | 12.142 | 12.113 | 12.177 | VV | 962 | 20327 | 0.24% | 0.076% |
| 222 | 12.240 | 12.177 | 12.317 | VV | 190636 | 2482838 | 29.70% | 9.241% |
| 223 | 12.322 | 12.317 | 12.342 | VV | 821 | 9917 | 0.12% | 0.037% |
| 224 | 12.356 | 12.342 | 12.373 | VV | 758 | 11545 | 0.14% | 0.043% |
| 225 | 12.393 | 12.373 | 12.412 | VV | 771 | 12342 | 0.15% | 0.046% |
| 226 | 12.421 | 12.412 | 12.443 | VV | 570 | 7427 | 0.09% | 0.028% |
| 227 | 12.489 | 12.443 | 12.509 | VV | 2143 | 35934 | 0.43% | 0.134% |
| 228 | 12.517 | 12.509 | 12.539 | VV | 687 | 6448 | 0.08% | 0.024% |
| 229 | 12.569 | 12.539 | 12.589 | VV | 1083 | 17846 | 0.21% | 0.066% |
| 230 | 12.626 | 12.589 | 12.649 | VV | 1174 | 21250 | 0.25% | 0.079% |
| 231 | 12.686 | 12.649 | 12.712 | VV | 8208 | 102552 | 1.23% | 0.382% |
| 232 | 12.717 | 12.712 | 12.735 | VV | 593 | 5257 | 0.06% | 0.020% |
| 233 | 12.747 | 12.735 | 12.810 | VV | 715 | 11672 | 0.14% | 0.043% |
| 234 | 12.881 | 12.824 | 12.902 | VV | 967 | 21659 | 0.26% | 0.081% |
| 235 | 12.908 | 12.902 | 12.925 | VV | 678 | 7689 | 0.09% | 0.029% |
| 236 | 12.930 | 12.925 | 12.936 | VV | 419 | 2447 | 0.03% | 0.009% |
| 237 | 12.945 | 12.936 | 12.961 | VV | 379 | 4750 | 0.06% | 0.018% |
| 238 | 12.983 | 12.961 | 13.008 | VV | 6497 | 73019 | 0.87% | 0.272% |
| 239 | 13.037 | 13.008 | 13.042 | VV | 980 | 11220 | 0.13% | 0.042% |
| 240 | 13.069 | 13.042 | 13.107 | VV | 33911 | 395877 | 4.74% | 1.473% |
| 241 | 13.118 | 13.107 | 13.127 | VV | 287 | 2804 | 0.03% | 0.010% |
| 242 | 13.158 | 13.127 | 13.180 | VV | 620 | 11875 | 0.14% | 0.044% |
| 243 | 13.183 | 13.180 | 13.201 | VV | 424 | 3281 | 0.04% | 0.012% |
| 244 | 13.254 | 13.201 | 13.267 | VV | 2285 | 36760 | 0.44% | 0.137% |
| 245 | 13.290 | 13.267 | 13.333 | VV | 5053 | 98875 | 1.18% | 0.368% |
| 246 | 13.337 | 13.333 | 13.341 | VV | 927 | 3919 | 0.05% | 0.015% |

rteres

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|---|---|---|---|---|---|---|---|---|
| 247 | 13.353 | 13.341 | 13.367 | VV | 1025 | 12730 | 0.15% | 0.047% |
| 248 | 13.370 | 13.367 | 13.398 | VV | 781 | 10815 | 0.13% | 0.040% |
| 249 | 13.416 | 13.398 | 13.424 | VV | 740 | 8970 | 0.11% | 0.033% |
| 250 | 13.461 | 13.424 | 13.506 | VV | 98432 | 1218042 | 14.57% | 4.534% |
| 251 | 13.511 | 13.506 | 13.554 | VV | 2080 | 41763 | 0.50% | 0.155% |
| 252 | 13.569 | 13.554 | 13.603 | VV | 1585 | 29382 | 0.35% | 0.109% |
| 253 | 13.639 | 13.603 | 13.658 | VV | 1053 | 22228 | 0.27% | 0.083% |
| 254 | 13.676 | 13.658 | 13.680 | VV | 1172 | 10266 | 0.12% | 0.038% |
| 255 | 13.685 | 13.680 | 13.728 | VV | 1246 | 18651 | 0.22% | 0.069% |
| 256 | 13.733 | 13.728 | 13.740 | VV | 404 | 2384 | 0.03% | 0.009% |
| 257 | 13.770 | 13.740 | 13.797 | VV | 1366 | 23300 | 0.28% | 0.087% |
| 258 | 13.823 | 13.797 | 13.840 | VV | 1124 | 18432 | 0.22% | 0.069% |
| 259 | 13.849 | 13.840 | 13.862 | VV | 703 | 7527 | 0.09% | 0.028% |
| 260 | 13.890 | 13.862 | 13.900 | VV | 742 | 12216 | 0.15% | 0.045% |
| 261 | 13.929 | 13.900 | 13.947 | VV | 1483 | 22771 | 0.27% | 0.085% |
| 262 | 13.954 | 13.947 | 13.978 | VV | 502 | 6165 | 0.07% | 0.023% |
| 263 | 13.990 | 13.985 | 14.007 | VV | 332 | 2260 | 0.03% | 0.008% |
| 264 | 14.019 | 14.007 | 14.024 | VV | 244 | 1693 | 0.02% | 0.006% |
| 265 | 14.031 | 14.024 | 14.039 | VV | 303 | 1983 | 0.02% | 0.007% |
| 266 | 14.043 | 14.039 | 14.055 | VV | 371 | 3048 | 0.04% | 0.011% |
| 267 | 14.060 | 14.055 | 14.081 | VV | 485 | 5605 | 0.07% | 0.021% |
| 268 | 14.084 | 14.081 | 14.107 | VV | 352 | 3942 | 0.05% | 0.015% |
| 269 | 14.110 | 14.107 | 14.128 | VV | 300 | 1710 | 0.02% | 0.006% |
| 270 | 14.154 | 14.128 | 14.174 | PV | 303 | 3757 | 0.04% | 0.014% |
| 271 | 14.181 | 14.174 | 14.195 | VV | 314 | 2343 | 0.03% | 0.009% |
| 272 | 14.214 | 14.195 | 14.237 | VV | 705 | 9466 | 0.11% | 0.035% |
| 273 | 14.255 | 14.237 | 14.280 | VV | 928 | 15358 | 0.18% | 0.057% |
| 274 | 14.298 | 14.280 | 14.327 | VV | 969 | 16100 | 0.19% | 0.060% |
| 275 | 14.342 | 14.327 | 14.365 | VV | 427 | 5359 | 0.06% | 0.020% |
| 276 | 14.384 | 14.365 | 14.389 | VV | 569 | 5417 | 0.06% | 0.020% |
| 277 | 14.393 | 14.389 | 14.419 | VV | 567 | 6458 | 0.08% | 0.024% |
| 278 | 14.438 | 14.419 | 14.462 | VV | 1066 | 15393 | 0.18% | 0.057% |
| 279 | 14.472 | 14.462 | 14.498 | VV | 695 | 10890 | 0.13% | 0.041% |
| 280 | 14.511 | 14.498 | 14.523 | VV | 496 | 5852 | 0.07% | 0.022% |
| 281 | 14.544 | 14.523 | 14.572 | VV | 1362 | 21144 | 0.25% | 0.079% |
| 282 | 14.603 | 14.572 | 14.632 | VV | 1495 | 30762 | 0.37% | 0.114% |
| 283 | 14.644 | 14.632 | 14.652 | VV | 465 | 4570 | 0.05% | 0.017% |
| 284 | 14.680 | 14.652 | 14.692 | VV | 479 | 8841 | 0.11% | 0.033% |
| 285 | 14.698 | 14.692 | 14.704 | VV | 496 | 2903 | 0.03% | 0.011% |
| 286 | 14.708 | 14.704 | 14.717 | VV | 418 | 2697 | 0.03% | 0.010% |
| 287 | 14.729 | 14.717 | 14.740 | VV | 571 | 6772 | 0.08% | 0.025% |
| 288 | 14.758 | 14.740 | 14.796 | VV | 1347 | 20936 | 0.25% | 0.078% |
| 289 | 14.800 | 14.796 | 14.819 | VV | 347 | 3048 | 0.04% | 0.011% |
| 290 | 14.851 | 14.819 | 14.871 | VV | 4339 | 58456 | 0.70% | 0.218% |
| 291 | 14.894 | 14.871 | 14.914 | VV | 4083 | 58341 | 0.70% | 0.217% |
| 292 | 14.919 | 14.914 | 14.940 | VV | 1092 | 10536 | 0.13% | 0.039% |
| 293 | 14.946 | 14.940 | 14.949 | VV | 416 | 1746 | 0.02% | 0.006% |
| 294 | 14.952 | 14.949 | 14.956 | VV | 463 | 1530 | 0.02% | 0.006% |
| 295 | 14.965 | 14.956 | 14.984 | VV | 513 | 5741 | 0.07% | 0.021% |
| 296 | 15.017 | 14.984 | 15.046 | VV | 709 | 13349 | 0.16% | 0.050% |
| 297 | 15.060 | 15.046 | 15.073 | VV | 190 | 2287 | 0.03% | 0.009% |
| 298 | 15.092 | 15.073 | 15.125 | VV | 567 | 8017 | 0.10% | 0.030% |
| 299 | 15.151 | 15.137 | 15.168 | VV | 548 | 5812 | 0.07% | 0.022% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 15.180 | 15.168 | 15.188 | VV | 328 | 3059 | 0.04% | 0.011% |
| 301 | 15.194 | 15.188 | 15.201 | VV | 337 | 2009 | 0.02% | 0.007% |
| 302 | 15.213 | 15.201 | 15.231 | VV | 399 | 4867 | 0.06% | 0.018% |
| 303 | 15.244 | 15.231 | 15.257 | VV | 221 | 2335 | 0.03% | 0.009% |
| 304 | 15.301 | 15.257 | 15.379 | VV | 8492 | 176405 | 2.11% | 0.657% |
| 305 | 15.453 | 15.379 | 15.474 | VV | 990 | 30288 | 0.36% | 0.113% |
| 306 | 15.484 | 15.474 | 15.493 | VV | 338 | 3712 | 0.04% | 0.014% |
| 307 | 15.499 | 15.493 | 15.507 | VV | 588 | 3742 | 0.04% | 0.014% |
| 308 | 15.523 | 15.507 | 15.552 | VV | 920 | 16590 | 0.20% | 0.062% |
| 309 | 15.557 | 15.552 | 15.590 | VV | 602 | 8506 | 0.10% | 0.032% |
| 310 | 15.606 | 15.590 | 15.625 | VV | 503 | 6587 | 0.08% | 0.025% |
| 311 | 15.644 | 15.625 | 15.650 | VV | 435 | 4734 | 0.06% | 0.018% |
| 312 | 15.670 | 15.650 | 15.677 | VV | 962 | 8723 | 0.10% | 0.032% |
| 313 | 15.683 | 15.677 | 15.709 | VV | 745 | 9770 | 0.12% | 0.036% |
| 314 | 15.712 | 15.709 | 15.722 | VV | 388 | 2619 | 0.03% | 0.010% |
| 315 | 15.760 | 15.722 | 15.781 | VV | 559 | 14071 | 0.17% | 0.052% |
| 316 | 15.786 | 15.781 | 15.789 | VV | 481 | 2040 | 0.02% | 0.008% |
| 317 | 15.798 | 15.789 | 15.837 | VV | 482 | 11310 | 0.14% | 0.042% |
| 318 | 15.845 | 15.837 | 15.856 | VV | 422 | 3985 | 0.05% | 0.015% |
| 319 | 15.873 | 15.856 | 15.887 | VV | 660 | 8089 | 0.10% | 0.030% |
| 320 | 15.900 | 15.887 | 15.912 | VV | 463 | 5117 | 0.06% | 0.019% |
| 321 | 15.939 | 15.912 | 15.964 | VV | 1117 | 17469 | 0.21% | 0.065% |
| 322 | 15.968 | 15.964 | 15.975 | VV | 180 | 1280 | 0.02% | 0.005% |
| 323 | 15.986 | 15.975 | 15.993 | VV | 372 | 2459 | 0.03% | 0.009% |
| 324 | 15.997 | 15.993 | 16.001 | VV | 325 | 1230 | 0.01% | 0.005% |
| 325 | 16.004 | 16.001 | 16.008 | VV | 276 | 1285 | 0.02% | 0.005% |
| 326 | 16.015 | 16.008 | 16.020 | VV | 319 | 1918 | 0.02% | 0.007% |
| 327 | 16.024 | 16.020 | 16.047 | VV | 309 | 2015 | 0.02% | 0.008% |
| 328 | 16.081 | 16.047 | 16.109 | PV | 387 | 8197 | 0.10% | 0.031% |
| 329 | 16.124 | 16.109 | 16.146 | VV | 463 | 6107 | 0.07% | 0.023% |
| 330 | 16.157 | 16.146 | 16.175 | VV | 237 | 2189 | 0.03% | 0.008% |
| 331 | 16.187 | 16.175 | 16.208 | VV | 572 | 5070 | 0.06% | 0.019% |
| 332 | 16.219 | 16.208 | 16.224 | VV | 267 | 1624 | 0.02% | 0.006% |
| 333 | 16.242 | 16.224 | 16.254 | VV | 378 | 4633 | 0.06% | 0.017% |
| 334 | 16.321 | 16.254 | 16.354 | VV | 1392 | 36215 | 0.43% | 0.135% |
| 335 | 16.374 | 16.354 | 16.378 | VV | 539 | 5101 | 0.06% | 0.019% |
| 336 | 16.404 | 16.378 | 16.421 | VV | 3765 | 58510 | 0.70% | 0.218% |
| 337 | 16.429 | 16.421 | 16.463 | VV | 2557 | 32681 | 0.39% | 0.122% |
| 338 | 16.499 | 16.463 | 16.519 | VV | 997 | 18159 | 0.22% | 0.068% |
| 339 | 16.546 | 16.519 | 16.580 | VV | 1166 | 28821 | 0.34% | 0.107% |
| 340 | 16.597 | 16.580 | 16.610 | VV | 496 | 8112 | 0.10% | 0.030% |
| 341 | 16.620 | 16.610 | 16.657 | VV | 680 | 12032 | 0.14% | 0.045% |
| 342 | 16.726 | 16.657 | 16.752 | VV | 2278 | 44187 | 0.53% | 0.164% |
| 343 | 16.781 | 16.752 | 16.808 | VV | 3820 | 49625 | 0.59% | 0.185% |
| 344 | 16.814 | 16.808 | 16.830 | VV | 372 | 3573 | 0.04% | 0.013% |
| 345 | 16.854 | 16.830 | 16.859 | VV | 434 | 5593 | 0.07% | 0.021% |
| 346 | 16.884 | 16.859 | 16.914 | VV | 3271 | 44594 | 0.53% | 0.166% |
| 347 | 16.936 | 16.914 | 16.967 | VV | 1268 | 20078 | 0.24% | 0.075% |
| 348 | 16.998 | 16.967 | 17.011 | VV | 368 | 6641 | 0.08% | 0.025% |
| 349 | 17.017 | 17.011 | 17.049 | VV | 445 | 6159 | 0.07% | 0.023% |
| 350 | 17.076 | 17.063 | 17.085 | PV | 182 | 1339 | 0.02% | 0.005% |
| 351 | 17.109 | 17.085 | 17.116 | VV | 286 | 2963 | 0.04% | 0.011% |

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|---|---|---|---|---|---|---|---|---|
| 352 | 17.146 | 17.116 | 17.169 | VV | 573 | 12977 | 0.16% | 0.048% |
| 353 | 17.174 | 17.169 | 17.182 | VV | 473 | 3520 | 0.04% | 0.013% |
| 354 | 17.205 | 17.182 | 17.220 | VV | 429 | 8028 | 0.10% | 0.030% |
| 355 | 17.222 | 17.220 | 17.234 | VV | 376 | 1967 | 0.02% | 0.007% |
| 356 | 17.258 | 17.234 | 17.267 | VV | 730 | 10350 | 0.12% | 0.039% |
| 357 | 17.274 | 17.267 | 17.293 | VV | 617 | 8263 | 0.10% | 0.031% |
| 358 | 17.334 | 17.293 | 17.382 | VV | 3545 | 60065 | 0.72% | 0.224% |
| 359 | 17.394 | 17.382 | 17.409 | VV | 292 | 3301 | 0.04% | 0.012% |
| 360 | 17.442 | 17.409 | 17.460 | VV | 579 | 11028 | 0.13% | 0.041% |
| 361 | 17.467 | 17.460 | 17.474 | VV | 260 | 1277 | 0.02% | 0.005% |
| 362 | 17.485 | 17.474 | 17.495 | VV | 406 | 3544 | 0.04% | 0.013% |
| 363 | 17.515 | 17.495 | 17.541 | VV | 454 | 8103 | 0.10% | 0.030% |
| 364 | 17.556 | 17.541 | 17.587 | VV | 414 | 7447 | 0.09% | 0.028% |
| 365 | 17.599 | 17.587 | 17.605 | VV | 330 | 2665 | 0.03% | 0.010% |
| 366 | 17.620 | 17.605 | 17.639 | VV | 268 | 3157 | 0.04% | 0.012% |
| 367 | 17.668 | 17.639 | 17.685 | VV | 384 | 3924 | 0.05% | 0.015% |
| 368 | 17.723 | 17.685 | 17.745 | PV | 964 | 19726 | 0.24% | 0.073% |
| 369 | 17.769 | 17.745 | 17.802 | VV | 5208 | 73156 | 0.88% | 0.272% |
| 370 | 17.856 | 17.802 | 17.891 | PV | 878 | 23828 | 0.29% | 0.089% |
| 371 | 17.911 | 17.891 | 17.921 | VV | 649 | 8606 | 0.10% | 0.032% |
| 372 | 17.930 | 17.921 | 17.938 | VV | 648 | 5451 | 0.07% | 0.020% |
| 373 | 17.943 | 17.938 | 17.951 | VV | 637 | 4085 | 0.05% | 0.015% |
| 374 | 17.955 | 17.951 | 17.963 | VV | 470 | 3024 | 0.04% | 0.011% |
| 375 | 17.980 | 17.963 | 17.985 | VV | 380 | 4596 | 0.05% | 0.017% |
| 376 | 17.992 | 17.985 | 18.022 | VV | 464 | 6082 | 0.07% | 0.023% |
| 377 | 18.056 | 18.022 | 18.075 | VV | 1000 | 16688 | 0.20% | 0.062% |
| 378 | 18.082 | 18.075 | 18.097 | VV | 432 | 3978 | 0.05% | 0.015% |
| 379 | 18.138 | 18.097 | 18.165 | VV | 6713 | 136425 | 1.63% | 0.508% |
| 380 | 18.188 | 18.165 | 18.224 | VV | 8220 | 133884 | 1.60% | 0.498% |
| 381 | 18.230 | 18.224 | 18.252 | VV | 507 | 6151 | 0.07% | 0.023% |
| 382 | 18.278 | 18.252 | 18.293 | VV | 1079 | 16507 | 0.20% | 0.061% |
| 383 | 18.307 | 18.293 | 18.334 | VV | 991 | 16160 | 0.19% | 0.060% |
| 384 | 18.341 | 18.334 | 18.357 | VV | 426 | 4430 | 0.05% | 0.016% |
| 385 | 18.361 | 18.357 | 18.370 | VV | 370 | 2248 | 0.03% | 0.008% |
| 386 | 18.396 | 18.370 | 18.424 | VV | 3154 | 42910 | 0.51% | 0.160% |
| 387 | 18.431 | 18.424 | 18.437 | VV | 243 | 1253 | 0.01% | 0.005% |
| 388 | 18.464 | 18.437 | 18.470 | VV | 508 | 8326 | 0.10% | 0.031% |
| 389 | 18.473 | 18.470 | 18.478 | VV | 464 | 2056 | 0.02% | 0.008% |
| 390 | 18.489 | 18.478 | 18.510 | VV | 515 | 7711 | 0.09% | 0.029% |
| 391 | 18.531 | 18.510 | 18.549 | VV | 861 | 12393 | 0.15% | 0.046% |
| 392 | 18.557 | 18.549 | 18.565 | VV | 555 | 4203 | 0.05% | 0.016% |
| 393 | 18.600 | 18.565 | 18.664 | VV | 6180 | 101698 | 1.22% | 0.379% |
| 394 | 18.696 | 18.664 | 18.710 | PV | 712 | 10230 | 0.12% | 0.038% |
| 395 | 18.715 | 18.710 | 18.769 | VV | 732 | 16828 | 0.20% | 0.063% |
| 396 | 18.774 | 18.769 | 18.787 | VV | 395 | 2008 | 0.02% | 0.007% |
| 397 | 18.800 | 18.795 | 18.814 | VV | 196 | 1197 | 0.01% | 0.004% |
| 398 | 18.858 | 18.814 | 18.884 | PV | 500 | 11505 | 0.14% | 0.043% |
| 399 | 18.894 | 18.884 | 18.914 | VV | 265 | 2413 | 0.03% | 0.009% |
| 400 | 18.956 | 18.922 | 18.979 | PV | 2734 | 33985 | 0.41% | 0.126% |

Sum of corrected areas: 26866553

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061225AL\
Data File : FC069186.D
Signal(s) : FID1A.ch
Acq On : 12 Jun 2025 14:21
Operator : YP/AJ
Sample : Q2177-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB02

Integration File: autoint1.e
Quant Time: Jun 13 02:16:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 13.115 | 2742024 | 30.564 ug/ml |
| Spiked Amount 50.000 | | Recovery = 61.13% | |
| Target Compounds | | | |

(f)=RT Delta > 1/2 Window (m)=manual int.

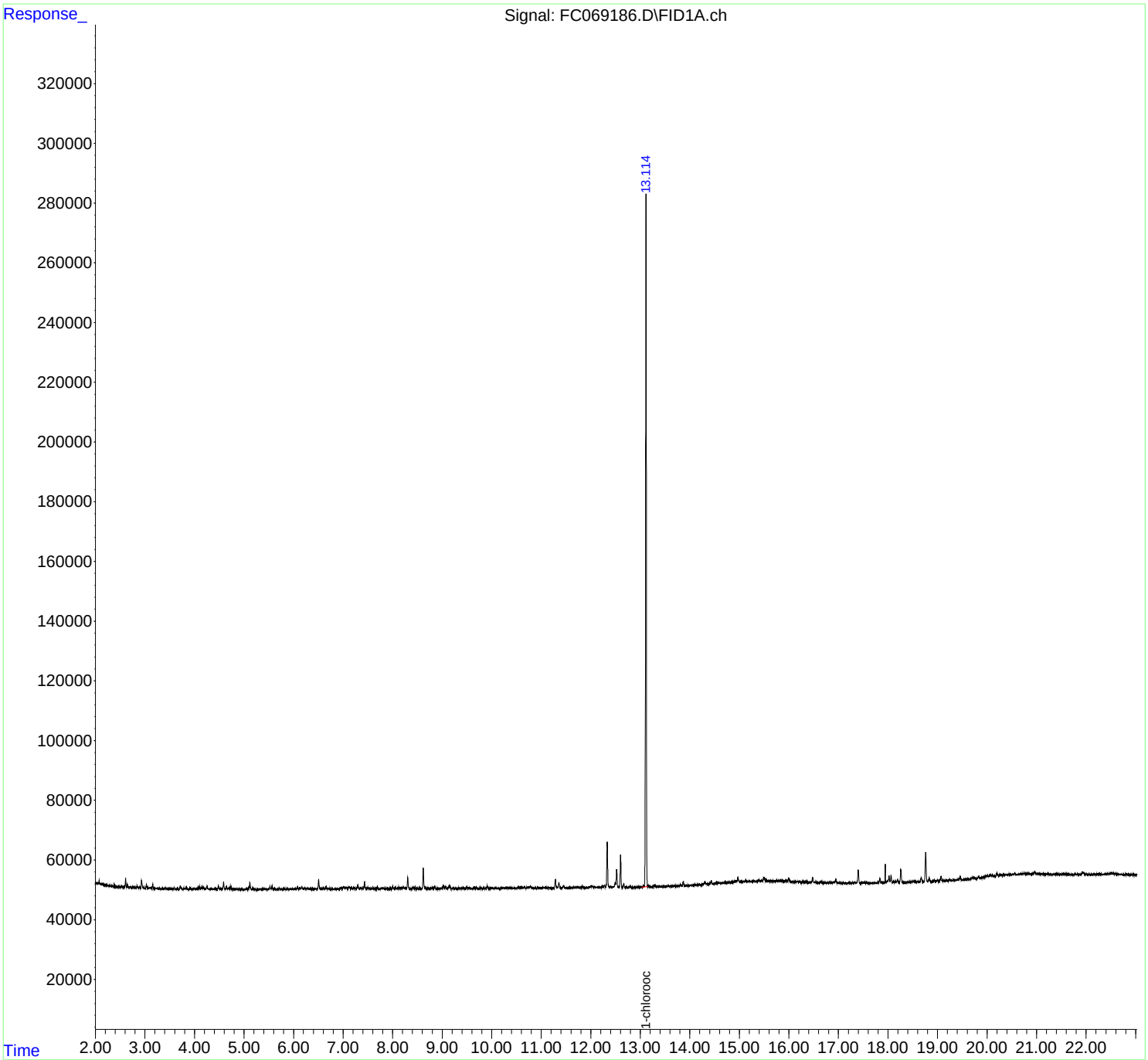
Sample Results: **FC069186.D**

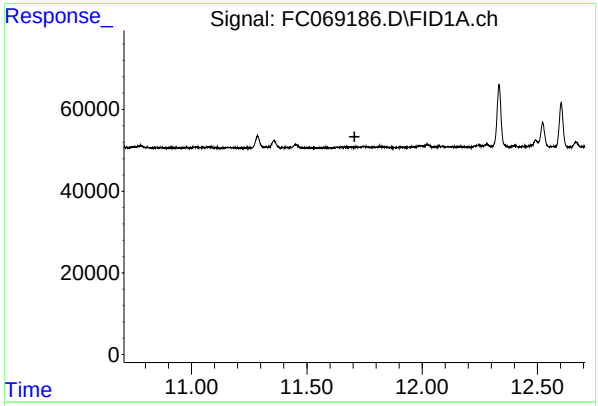
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061225AL\
Data File : FC069186.D
Signal(s) : FID1A.ch
Acq On : 12 Jun 2025 14:21
Operator : YP/AJ
Sample : Q2177-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB02

Integration File: autoint1.e
Quant Time: Jun 13 02:16:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

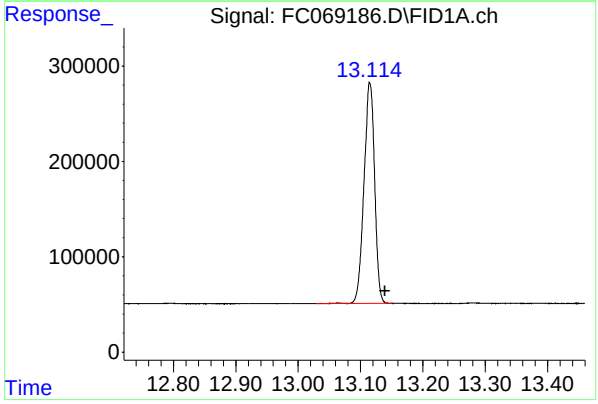





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.707 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB02




#12 1-chlorooctadecane (SURR)

R.T.: 13.115 min
Delta R.T.: -0.024 min
Response: 2742024
Conc: 30.56 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061225AL\
Data File : FC069186.D
Signal(s) : FID1A.ch
Acq On : 12 Jun 2025 14:21
Sample : Q2177-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.224 | 3.204 | 3.247 | BV | 114 | 847 | 0.03% | 0.009% |
| 2 | 3.262 | 3.247 | 3.341 | PV | 67 | 2789 | 0.10% | 0.031% |
| 3 | 3.358 | 3.341 | 3.389 | VV | 67 | 1002 | 0.04% | 0.011% |
| 4 | 3.407 | 3.389 | 3.480 | VV | 517 | 6358 | 0.23% | 0.070% |
| 5 | 3.512 | 3.480 | 3.564 | PV | 141 | 3307 | 0.12% | 0.036% |
| 6 | 3.591 | 3.564 | 3.605 | VV | 389 | 3611 | 0.13% | 0.040% |
| 7 | 3.631 | 3.605 | 3.644 | VV | 150 | 1946 | 0.07% | 0.021% |
| 8 | 3.652 | 3.644 | 3.671 | VV | 90 | 1304 | 0.05% | 0.014% |
| 9 | 3.712 | 3.671 | 3.764 | VV | 1195 | 15717 | 0.57% | 0.172% |
| 10 | 3.782 | 3.764 | 3.810 | VV | 347 | 3947 | 0.14% | 0.043% |
| 11 | 3.844 | 3.810 | 3.874 | VV | 547 | 10326 | 0.37% | 0.113% |
| 12 | 3.906 | 3.874 | 3.937 | VV | 380 | 6835 | 0.25% | 0.075% |
| 13 | 3.952 | 3.937 | 3.965 | VV | 184 | 1580 | 0.06% | 0.017% |
| 14 | 3.989 | 3.965 | 4.051 | PV | 299 | 7572 | 0.27% | 0.083% |
| 15 | 4.081 | 4.051 | 4.093 | VV | 557 | 7910 | 0.29% | 0.087% |
| 16 | 4.108 | 4.093 | 4.122 | VV | 896 | 8868 | 0.32% | 0.097% |
| 17 | 4.152 | 4.122 | 4.164 | VV | 760 | 11886 | 0.43% | 0.130% |
| 18 | 4.178 | 4.164 | 4.218 | VV | 931 | 12276 | 0.44% | 0.135% |
| 19 | 4.251 | 4.218 | 4.364 | VV | 931 | 21960 | 0.79% | 0.241% |
| 20 | 4.399 | 4.364 | 4.428 | VV | 171 | 4791 | 0.17% | 0.053% |
| 21 | 4.436 | 4.428 | 4.459 | VV | 165 | 2505 | 0.09% | 0.027% |
| 22 | 4.482 | 4.459 | 4.502 | VV | 1282 | 14188 | 0.51% | 0.156% |
| 23 | 4.510 | 4.502 | 4.548 | VV | 336 | 6864 | 0.25% | 0.075% |
| 24 | 4.588 | 4.548 | 4.617 | VV | 2594 | 32001 | 1.15% | 0.351% |
| 25 | 4.650 | 4.617 | 4.694 | VV | 1010 | 21493 | 0.78% | 0.236% |
| 26 | 4.707 | 4.694 | 4.722 | VV | 777 | 8837 | 0.32% | 0.097% |
| 27 | 4.737 | 4.722 | 4.756 | VV | 1226 | 12877 | 0.46% | 0.141% |
| 28 | 4.768 | 4.756 | 4.780 | VV | 257 | 2939 | 0.11% | 0.032% |
| 29 | 4.791 | 4.780 | 4.828 | VV | 246 | 4558 | 0.16% | 0.050% |
| 30 | 4.860 | 4.828 | 4.882 | VV | 250 | 5267 | 0.19% | 0.058% |
| 31 | 4.906 | 4.882 | 4.919 | VV | 183 | 3212 | 0.12% | 0.035% |
| 32 | 4.935 | 4.919 | 4.949 | VV | 215 | 2425 | 0.09% | 0.027% |
| 33 | 4.958 | 4.949 | 4.988 | VV | 226 | 2682 | 0.10% | 0.029% |
| 34 | 5.016 | 4.988 | 5.023 | VV | 165 | 2290 | 0.08% | 0.025% |
| 35 | 5.043 | 5.023 | 5.073 | VV | 280 | 4666 | 0.17% | 0.051% |
| 36 | 5.118 | 5.073 | 5.154 | VV | 2484 | 35153 | 1.27% | 0.386% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.175 | 5.154 | 5.218 | VV | 589 | 12107 | 0.44% | 0.133% |
| 38 | 5.226 | 5.218 | 5.266 | VV | 308 | 4037 | 0.15% | 0.044% |
| 39 | 5.289 | 5.266 | 5.300 | PV | 134 | 1706 | 0.06% | 0.019% |
| 40 | 5.310 | 5.300 | 5.334 | VV | 203 | 3271 | 0.12% | 0.036% |
| 41 | 5.347 | 5.334 | 5.375 | VV | 267 | 5488 | 0.20% | 0.060% |
| 42 | 5.414 | 5.375 | 5.455 | VV | 267 | 9595 | 0.35% | 0.105% |
| 43 | 5.490 | 5.455 | 5.502 | VV | 276 | 5257 | 0.19% | 0.058% |
| 44 | 5.523 | 5.502 | 5.544 | VV | 1079 | 13889 | 0.50% | 0.152% |
| 45 | 5.564 | 5.544 | 5.606 | VV | 1053 | 16924 | 0.61% | 0.186% |
| 46 | 5.620 | 5.606 | 5.635 | VV | 333 | 4291 | 0.15% | 0.047% |
| 47 | 5.659 | 5.635 | 5.686 | VV | 264 | 6183 | 0.22% | 0.068% |
| 48 | 5.710 | 5.686 | 5.733 | VV | 495 | 8516 | 0.31% | 0.093% |
| 49 | 5.767 | 5.733 | 5.794 | VV | 217 | 7061 | 0.25% | 0.077% |
| 50 | 5.811 | 5.794 | 5.854 | VV | 346 | 9023 | 0.33% | 0.099% |
| 51 | 5.869 | 5.854 | 5.912 | VV | 328 | 6890 | 0.25% | 0.076% |
| 52 | 5.927 | 5.912 | 5.961 | VV | 315 | 6185 | 0.22% | 0.068% |
| 53 | 5.983 | 5.961 | 6.003 | VV | 337 | 6353 | 0.23% | 0.070% |
| 54 | 6.027 | 6.003 | 6.045 | VV | 349 | 6733 | 0.24% | 0.074% |
| 55 | 6.053 | 6.045 | 6.060 | VV | 235 | 2509 | 0.09% | 0.028% |
| 56 | 6.080 | 6.060 | 6.108 | VV | 712 | 12789 | 0.46% | 0.140% |
| 57 | 6.123 | 6.108 | 6.143 | VV | 671 | 9346 | 0.34% | 0.102% |
| 58 | 6.166 | 6.143 | 6.201 | VV | 1006 | 16510 | 0.60% | 0.181% |
| 59 | 6.227 | 6.201 | 6.254 | VV | 762 | 12834 | 0.46% | 0.141% |
| 60 | 6.300 | 6.254 | 6.371 | VV | 411 | 18889 | 0.68% | 0.207% |
| 61 | 6.392 | 6.371 | 6.418 | VV | 236 | 6069 | 0.22% | 0.067% |
| 62 | 6.507 | 6.418 | 6.568 | VV | 3410 | 57390 | 2.07% | 0.629% |
| 63 | 6.592 | 6.568 | 6.635 | VV | 531 | 12908 | 0.47% | 0.142% |
| 64 | 6.657 | 6.635 | 6.714 | VV | 1058 | 21060 | 0.76% | 0.231% |
| 65 | 6.730 | 6.714 | 6.757 | VV | 538 | 7630 | 0.28% | 0.084% |
| 66 | 6.786 | 6.757 | 6.808 | VV | 260 | 5586 | 0.20% | 0.061% |
| 67 | 6.837 | 6.808 | 6.865 | VV | 298 | 7893 | 0.28% | 0.087% |
| 68 | 6.905 | 6.865 | 6.931 | VV | 303 | 8443 | 0.30% | 0.093% |
| 69 | 6.953 | 6.931 | 6.981 | VV | 456 | 10059 | 0.36% | 0.110% |
| 70 | 7.007 | 6.981 | 7.041 | VV | 808 | 20624 | 0.74% | 0.226% |
| 71 | 7.065 | 7.041 | 7.094 | VV | 823 | 17583 | 0.63% | 0.193% |
| 72 | 7.128 | 7.094 | 7.191 | VV | 890 | 29351 | 1.06% | 0.322% |
| 73 | 7.211 | 7.191 | 7.255 | VV | 698 | 13807 | 0.50% | 0.151% |
| 74 | 7.294 | 7.255 | 7.334 | VV | 1595 | 26440 | 0.95% | 0.290% |
| 75 | 7.353 | 7.334 | 7.376 | VV | 441 | 8368 | 0.30% | 0.092% |
| 76 | 7.434 | 7.376 | 7.482 | VV | 2583 | 47575 | 1.72% | 0.522% |
| 77 | 7.525 | 7.482 | 7.546 | VV | 505 | 13553 | 0.49% | 0.149% |
| 78 | 7.558 | 7.546 | 7.578 | VV | 327 | 5129 | 0.18% | 0.056% |
| 79 | 7.604 | 7.578 | 7.670 | VV | 449 | 13819 | 0.50% | 0.152% |
| 80 | 7.695 | 7.670 | 7.734 | VV | 723 | 11114 | 0.40% | 0.122% |
| 81 | 7.779 | 7.734 | 7.828 | VV | 374 | 14353 | 0.52% | 0.157% |
| 82 | 7.886 | 7.828 | 7.902 | VV | 398 | 13645 | 0.49% | 0.150% |
| 83 | 7.914 | 7.902 | 7.941 | VV | 347 | 5930 | 0.21% | 0.065% |
| 84 | 7.957 | 7.941 | 7.981 | VV | 410 | 6130 | 0.22% | 0.067% |
| 85 | 8.002 | 7.981 | 8.030 | VV | 885 | 12682 | 0.46% | 0.139% |
| 86 | 8.058 | 8.030 | 8.096 | VV | 829 | 14227 | 0.51% | 0.156% |
| 87 | 8.128 | 8.096 | 8.179 | VV | 698 | 17970 | 0.65% | 0.197% |
| 88 | 8.213 | 8.179 | 8.277 | VV | 732 | 23112 | 0.83% | 0.253% |
| 89 | 8.306 | 8.277 | 8.373 | VV | 3926 | 56212 | 2.03% | 0.616% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 8.419 | 8.373 | 8.481 | VV | 468 | 20091 | 0.72% | 0.220% |
| 91 | 8.500 | 8.481 | 8.520 | VV | 229 | 4693 | 0.17% | 0.051% |
| 92 | 8.541 | 8.520 | 8.575 | VV | 406 | 6290 | 0.23% | 0.069% |
| 93 | 8.620 | 8.575 | 8.701 | PV | 7030 | 94205 | 3.40% | 1.033% |
| 94 | 8.799 | 8.701 | 8.831 | VV | 483 | 24321 | 0.88% | 0.267% |
| 95 | 8.847 | 8.831 | 8.891 | VV | 700 | 14681 | 0.53% | 0.161% |
| 96 | 8.910 | 8.891 | 8.940 | VV | 353 | 5098 | 0.18% | 0.056% |
| 97 | 8.965 | 8.940 | 8.981 | PV | 244 | 4247 | 0.15% | 0.047% |
| 98 | 9.025 | 8.981 | 9.048 | VV | 1293 | 23866 | 0.86% | 0.262% |
| 99 | 9.065 | 9.048 | 9.104 | VV | 657 | 14933 | 0.54% | 0.164% |
| 100 | 9.148 | 9.104 | 9.197 | VV | 1284 | 30200 | 1.09% | 0.331% |
| 101 | 9.220 | 9.197 | 9.245 | VV | 448 | 7617 | 0.27% | 0.084% |
| 102 | 9.267 | 9.245 | 9.290 | VV | 299 | 5459 | 0.20% | 0.060% |
| 103 | 9.317 | 9.290 | 9.335 | VV | 215 | 4990 | 0.18% | 0.055% |
| 104 | 9.379 | 9.335 | 9.397 | VV | 247 | 7209 | 0.26% | 0.079% |
| 105 | 9.429 | 9.397 | 9.474 | VV | 428 | 10734 | 0.39% | 0.118% |
| 106 | 9.499 | 9.474 | 9.533 | VV | 720 | 11936 | 0.43% | 0.131% |
| 107 | 9.555 | 9.533 | 9.618 | VV | 271 | 7575 | 0.27% | 0.083% |
| 108 | 9.639 | 9.618 | 9.667 | VV | 422 | 7691 | 0.28% | 0.084% |
| 109 | 9.690 | 9.667 | 9.727 | VV | 752 | 10358 | 0.37% | 0.114% |
| 110 | 9.770 | 9.727 | 9.804 | VV | 175 | 6008 | 0.22% | 0.066% |
| 111 | 9.830 | 9.804 | 9.891 | VV | 352 | 7632 | 0.28% | 0.084% |
| 112 | 9.912 | 9.891 | 9.964 | VV | 1028 | 15184 | 0.55% | 0.167% |
| 113 | 9.998 | 9.964 | 10.108 | VV | 244 | 13816 | 0.50% | 0.152% |
| 114 | 10.131 | 10.108 | 10.152 | PV | 157 | 2573 | 0.09% | 0.028% |
| 115 | 10.191 | 10.152 | 10.208 | VV | 196 | 3801 | 0.14% | 0.042% |
| 116 | 10.236 | 10.208 | 10.268 | VV | 257 | 6837 | 0.25% | 0.075% |
| 117 | 10.304 | 10.268 | 10.326 | VV | 445 | 9420 | 0.34% | 0.103% |
| 118 | 10.344 | 10.326 | 10.367 | VV | 303 | 5522 | 0.20% | 0.061% |
| 119 | 10.394 | 10.367 | 10.488 | VV | 303 | 11384 | 0.41% | 0.125% |
| 120 | 10.546 | 10.488 | 10.564 | VV | 349 | 10122 | 0.37% | 0.111% |
| 121 | 10.589 | 10.564 | 10.614 | VV | 386 | 8995 | 0.32% | 0.099% |
| 122 | 10.651 | 10.614 | 10.688 | VV | 469 | 13837 | 0.50% | 0.152% |
| 123 | 10.780 | 10.688 | 10.898 | VV | 685 | 33552 | 1.21% | 0.368% |
| 124 | 10.930 | 10.898 | 10.958 | VV | 195 | 5145 | 0.19% | 0.056% |
| 125 | 11.021 | 10.958 | 11.054 | VV | 288 | 10859 | 0.39% | 0.119% |
| 126 | 11.077 | 11.054 | 11.128 | VV | 354 | 8667 | 0.31% | 0.095% |
| 127 | 11.160 | 11.128 | 11.228 | VV | 169 | 6593 | 0.24% | 0.072% |
| 128 | 11.286 | 11.228 | 11.326 | VV | 2990 | 43169 | 1.56% | 0.473% |
| 129 | 11.358 | 11.326 | 11.388 | VV | 1909 | 27968 | 1.01% | 0.307% |
| 130 | 11.452 | 11.388 | 11.491 | VV | 864 | 17620 | 0.64% | 0.193% |
| 131 | 11.504 | 11.491 | 11.524 | VV | 112 | 1442 | 0.05% | 0.016% |
| 132 | 11.583 | 11.524 | 11.608 | PV | 112 | 3400 | 0.12% | 0.037% |
| 133 | 11.683 | 11.608 | 11.699 | VV | 222 | 9260 | 0.33% | 0.102% |
| 134 | 11.713 | 11.699 | 11.728 | VV | 227 | 3687 | 0.13% | 0.040% |
| 135 | 11.749 | 11.728 | 11.788 | VV | 348 | 8050 | 0.29% | 0.088% |
| 136 | 11.834 | 11.788 | 11.915 | VV | 380 | 13362 | 0.48% | 0.147% |
| 137 | 12.023 | 11.915 | 12.061 | VV | 834 | 28971 | 1.04% | 0.318% |
| 138 | 12.083 | 12.061 | 12.114 | VV | 328 | 9088 | 0.33% | 0.100% |
| 139 | 12.130 | 12.114 | 12.146 | VV | 318 | 4457 | 0.16% | 0.049% |
| 140 | 12.162 | 12.146 | 12.211 | VV | 277 | 7956 | 0.29% | 0.087% |
| 141 | 12.245 | 12.211 | 12.264 | VV | 605 | 13115 | 0.47% | 0.144% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 12.279 | 12.264 | 12.298 | VV | 857 | 11710 | 0.42% | 0.128% |
| 143 | 12.334 | 12.298 | 12.381 | VV | 15459 | 191705 | 6.91% | 2.102% |
| 144 | 12.401 | 12.381 | 12.421 | VV | 431 | 6857 | 0.25% | 0.075% |
| 145 | 12.523 | 12.421 | 12.554 | VV | 6180 | 107767 | 3.89% | 1.182% |
| 146 | 12.603 | 12.554 | 12.640 | VV | 11011 | 130674 | 4.71% | 1.433% |
| 147 | 12.667 | 12.640 | 12.764 | VV | 1375 | 23878 | 0.86% | 0.262% |
| 148 | 12.794 | 12.764 | 12.838 | VV | 473 | 8597 | 0.31% | 0.094% |
| 149 | 12.855 | 12.838 | 12.894 | VV | 89 | 2111 | 0.08% | 0.023% |
| 150 | 12.946 | 12.894 | 12.962 | PV | 195 | 4929 | 0.18% | 0.054% |
| 151 | 12.978 | 12.962 | 13.004 | VV | 163 | 3159 | 0.11% | 0.035% |
| 152 | 13.115 | 13.004 | 13.250 | VV | 233629 | 2773153 | 100.00% | 30.413% |
| 153 | 13.281 | 13.250 | 13.318 | VV | 729 | 15878 | 0.57% | 0.174% |
| 154 | 13.339 | 13.318 | 13.364 | VV | 303 | 6995 | 0.25% | 0.077% |
| 155 | 13.385 | 13.364 | 13.421 | VV | 331 | 7858 | 0.28% | 0.086% |
| 156 | 13.558 | 13.421 | 13.624 | VV | 431 | 29016 | 1.05% | 0.318% |
| 157 | 13.666 | 13.624 | 13.697 | VV | 413 | 12112 | 0.44% | 0.133% |
| 158 | 13.726 | 13.697 | 13.764 | VV | 429 | 13294 | 0.48% | 0.146% |
| 159 | 13.815 | 13.764 | 13.839 | VV | 821 | 19881 | 0.72% | 0.218% |
| 160 | 13.868 | 13.839 | 13.911 | VV | 1711 | 29825 | 1.08% | 0.327% |
| 161 | 13.926 | 13.911 | 13.941 | VV | 364 | 6263 | 0.23% | 0.069% |
| 162 | 13.961 | 13.941 | 14.004 | VV | 375 | 13588 | 0.49% | 0.149% |
| 163 | 14.099 | 14.004 | 14.131 | VV | 687 | 35931 | 1.30% | 0.394% |
| 164 | 14.202 | 14.131 | 14.220 | VV | 689 | 30561 | 1.10% | 0.335% |
| 165 | 14.304 | 14.220 | 14.356 | VV | 1534 | 66603 | 2.40% | 0.730% |
| 166 | 14.431 | 14.356 | 14.478 | VV | 1937 | 70380 | 2.54% | 0.772% |
| 167 | 14.562 | 14.478 | 14.618 | VV | 1206 | 84119 | 3.03% | 0.923% |
| 168 | 14.689 | 14.618 | 14.714 | VV | 1165 | 61878 | 2.23% | 0.679% |
| 169 | 14.748 | 14.714 | 14.766 | VV | 1224 | 36208 | 1.31% | 0.397% |
| 170 | 14.788 | 14.766 | 14.833 | VV | 1265 | 47502 | 1.71% | 0.521% |
| 171 | 14.971 | 14.833 | 15.040 | VV | 2981 | 188222 | 6.79% | 2.064% |
| 172 | 15.060 | 15.040 | 15.091 | VV | 1383 | 41070 | 1.48% | 0.450% |
| 173 | 15.126 | 15.091 | 15.194 | VV | 1573 | 88804 | 3.20% | 0.974% |
| 174 | 15.218 | 15.194 | 15.338 | VV | 1463 | 118480 | 4.27% | 1.299% |
| 175 | 15.400 | 15.338 | 15.425 | VV | 1734 | 76813 | 2.77% | 0.842% |
| 176 | 15.496 | 15.425 | 15.620 | VV | 2654 | 189607 | 6.84% | 2.079% |
| 177 | 15.660 | 15.620 | 15.704 | VV | 1431 | 67253 | 2.43% | 0.738% |
| 178 | 15.726 | 15.704 | 15.751 | VV | 1407 | 36945 | 1.33% | 0.405% |
| 179 | 15.767 | 15.751 | 15.794 | VV | 1485 | 35871 | 1.29% | 0.393% |
| 180 | 15.816 | 15.794 | 15.874 | VV | 1462 | 65182 | 2.35% | 0.715% |
| 181 | 15.889 | 15.874 | 15.901 | VV | 1302 | 19502 | 0.70% | 0.214% |
| 182 | 15.995 | 15.901 | 16.120 | VV | 2302 | 167125 | 6.03% | 1.833% |
| 183 | 16.169 | 16.120 | 16.258 | VV | 1053 | 76616 | 2.76% | 0.840% |
| 184 | 16.292 | 16.258 | 16.414 | VV | 867 | 71627 | 2.58% | 0.786% |
| 185 | 16.479 | 16.414 | 16.571 | VV | 2407 | 85469 | 3.08% | 0.937% |
| 186 | 16.596 | 16.571 | 16.618 | VV | 583 | 15092 | 0.54% | 0.166% |
| 187 | 16.650 | 16.618 | 16.742 | VV | 855 | 42847 | 1.55% | 0.470% |
| 188 | 16.757 | 16.742 | 16.791 | VV | 489 | 13314 | 0.48% | 0.146% |
| 189 | 16.946 | 16.791 | 17.034 | VV | 1644 | 77608 | 2.80% | 0.851% |
| 190 | 17.051 | 17.034 | 17.151 | VV | 376 | 16540 | 0.60% | 0.181% |
| 191 | 17.217 | 17.151 | 17.248 | VV | 340 | 13069 | 0.47% | 0.143% |
| 192 | 17.284 | 17.248 | 17.305 | VV | 380 | 7960 | 0.29% | 0.087% |
| 193 | 17.333 | 17.305 | 17.360 | VV | 404 | 10718 | 0.39% | 0.118% |
| 194 | 17.399 | 17.360 | 17.461 | VV | 4551 | 67613 | 2.44% | 0.742% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 17.517 | 17.461 | 17.554 | VV | 330 | 11651 | 0.42% | 0.128% |
| 196 | 17.571 | 17.554 | 17.596 | VV | 240 | 3716 | 0.13% | 0.041% |
| 197 | 17.619 | 17.596 | 17.648 | VV | 198 | 3448 | 0.12% | 0.038% |
| 198 | 17.697 | 17.648 | 17.718 | VV | 119 | 3388 | 0.12% | 0.037% |
| 199 | 17.738 | 17.718 | 17.782 | VV | 111 | 2322 | 0.08% | 0.025% |
| 200 | 17.836 | 17.782 | 17.864 | PV | 1595 | 23572 | 0.85% | 0.259% |
| 201 | 17.892 | 17.864 | 17.924 | VV | 213 | 4223 | 0.15% | 0.046% |
| 202 | 18.021 | 17.924 | 18.041 | VV | 2408 | 52196 | 1.88% | 0.572% |
| 203 | 18.062 | 18.041 | 18.091 | VV | 2398 | 30995 | 1.12% | 0.340% |
| 204 | 18.152 | 18.091 | 18.170 | VV | 574 | 15217 | 0.55% | 0.167% |
| 205 | 18.192 | 18.170 | 18.228 | VV | 834 | 15564 | 0.56% | 0.171% |
| 206 | 18.259 | 18.228 | 18.315 | VV | 4428 | 62211 | 2.24% | 0.682% |
| 207 | 18.367 | 18.315 | 18.431 | PV | 166 | 5886 | 0.21% | 0.065% |
| 208 | 18.529 | 18.431 | 18.583 | PV | 398 | 17133 | 0.62% | 0.188% |
| 209 | 18.602 | 18.583 | 18.624 | VV | 230 | 3221 | 0.12% | 0.035% |
| 210 | 18.671 | 18.624 | 18.722 | VV | 1589 | 27496 | 0.99% | 0.302% |
| 211 | 18.760 | 18.722 | 18.801 | PV | 9942 | 139897 | 5.04% | 1.534% |
| 212 | 18.831 | 18.801 | 18.887 | VV | 1166 | 21667 | 0.78% | 0.238% |
| 213 | 18.929 | 18.887 | 18.970 | PV | 394 | 9734 | 0.35% | 0.107% |
| 214 | 18.999 | 18.970 | 19.021 | VV | 449 | 7611 | 0.27% | 0.083% |
| 215 | 19.069 | 19.021 | 19.118 | VV | 1548 | 29587 | 1.07% | 0.324% |
| 216 | 19.186 | 19.118 | 19.224 | VV | 312 | 13097 | 0.47% | 0.144% |
| 217 | 19.242 | 19.224 | 19.298 | VV | 401 | 12332 | 0.44% | 0.135% |
| 218 | 19.457 | 19.298 | 19.505 | VV | 1354 | 48506 | 1.75% | 0.532% |
| 219 | 19.711 | 19.505 | 19.788 | VV | 768 | 76076 | 2.74% | 0.834% |
| 220 | 19.833 | 19.788 | 19.881 | VV | 1170 | 39105 | 1.41% | 0.429% |
| 221 | 20.017 | 19.881 | 20.038 | VV | 1213 | 85841 | 3.10% | 0.941% |
| 222 | 20.104 | 20.038 | 20.160 | VV | 1357 | 88492 | 3.19% | 0.970% |
| 223 | 20.198 | 20.160 | 20.224 | VV | 1926 | 53757 | 1.94% | 0.590% |
| 224 | 20.255 | 20.224 | 20.291 | VV | 1384 | 51095 | 1.84% | 0.560% |
| 225 | 20.445 | 20.291 | 20.531 | VV | 1382 | 185190 | 6.68% | 2.031% |
| 226 | 20.562 | 20.531 | 20.608 | VV | 1531 | 61907 | 2.23% | 0.679% |
| 227 | 20.752 | 20.608 | 20.804 | VV | 1547 | 156371 | 5.64% | 1.715% |
| 228 | 20.826 | 20.804 | 20.844 | VV | 1341 | 31361 | 1.13% | 0.344% |
| 229 | 20.866 | 20.844 | 20.914 | VV | 1275 | 50917 | 1.84% | 0.558% |
| 230 | 20.966 | 20.914 | 21.128 | VV | 1758 | 153784 | 5.55% | 1.687% |
| 231 | 21.136 | 21.128 | 21.214 | VV | 1172 | 51176 | 1.85% | 0.561% |
| 232 | 21.227 | 21.214 | 21.298 | VV | 892 | 42111 | 1.52% | 0.462% |
| 233 | 21.333 | 21.298 | 21.361 | VV | 857 | 30738 | 1.11% | 0.337% |
| 234 | 21.414 | 21.361 | 21.457 | VV | 816 | 44078 | 1.59% | 0.483% |
| 235 | 21.517 | 21.457 | 21.650 | VV | 821 | 73504 | 2.65% | 0.806% |
| 236 | 21.667 | 21.650 | 21.744 | VV | 554 | 26781 | 0.97% | 0.294% |
| 237 | 21.831 | 21.744 | 21.858 | VV | 458 | 27719 | 1.00% | 0.304% |
| 238 | 21.936 | 21.858 | 22.091 | VV | 903 | 55010 | 1.98% | 0.603% |
| 239 | 22.122 | 22.091 | 22.151 | VV | 231 | 6218 | 0.22% | 0.068% |
| 240 | 22.297 | 22.151 | 22.331 | VV | 189 | 14581 | 0.53% | 0.160% |
| 241 | 22.464 | 22.331 | 22.483 | PV | 72 | 2584 | 0.09% | 0.028% |
| | | | Sum of corrected areas: | | | 9118368 | | |

Aliphatic EPH 052425.M Fri Jun 13 03:34:43 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061225AR\
Data File : FD049460.D
Signal(s) : FID2B.ch
Acq On : 12 Jun 2025 14:21
Operator : YP/AJ
Sample : Q2177-04
Misc :
ALS Vial : 63 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
B-187-SB02

Integration File: autoint1.e
Quant Time: Jun 13 04:14:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| **System Monitoring Compounds** | | | |
| 4) S 2-Bromonaphthalene (S... | 7.733 | 6129577 | 36.873 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 73.75% |
| 6) S 2-Flurobiphenyl (SURR) | 8.599 | 4107675 | 35.907 ug/ml |
| Spiked Amount 50.000 | Range 0 - 131 | Recovery = | 71.81% |
| 11) S ortho-Terphenyl (SURR) | 11.646 | 7466601 | 37.199 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 74.40% |
| **Target Compounds** | | | |

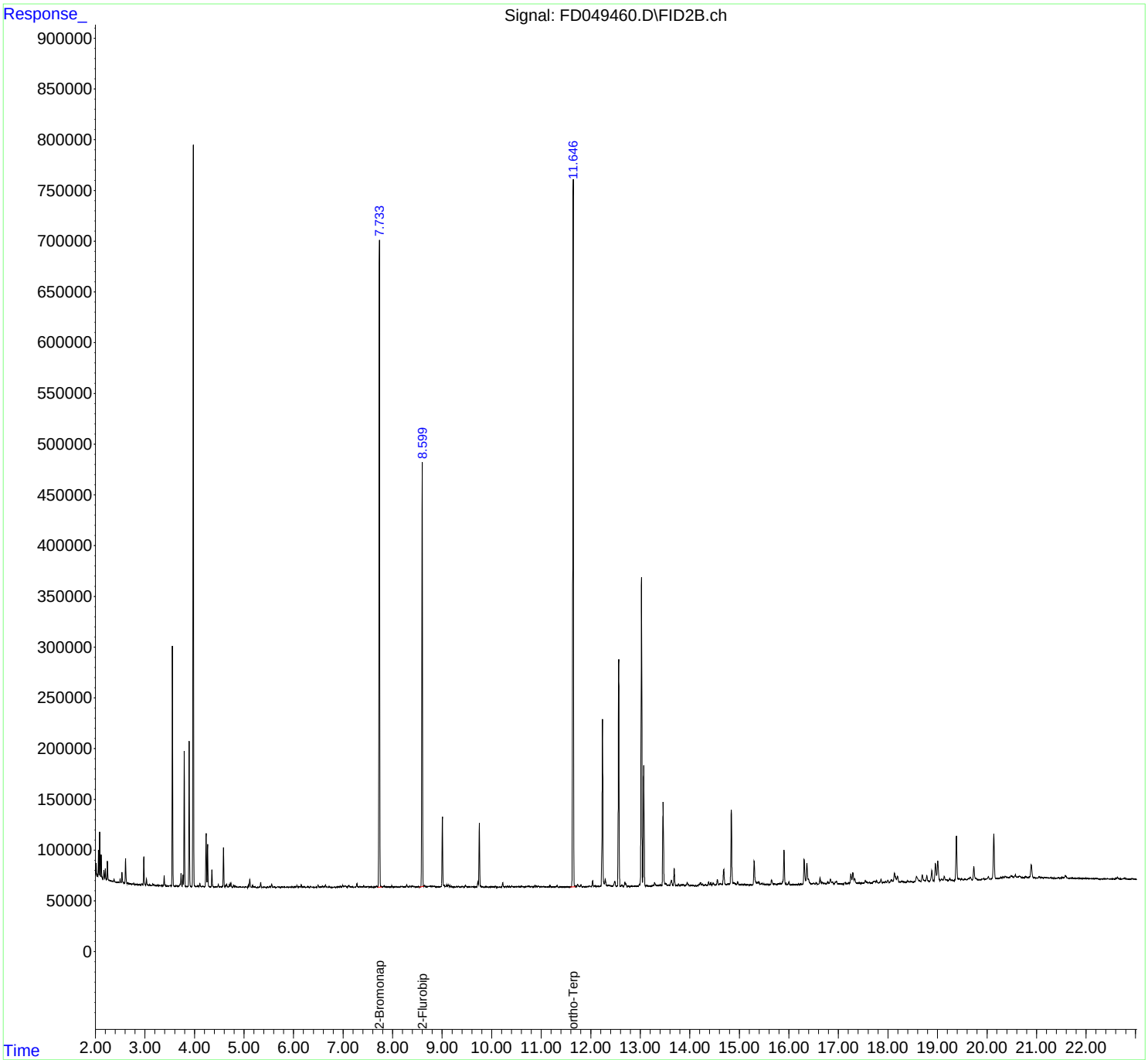
(f)=RT Delta > 1/2 Window (m)=manual int.

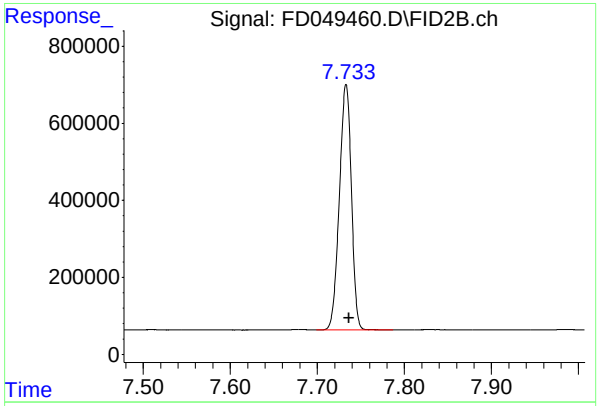
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061225AR\
Data File : FD049460.D
Signal(s) : FID2B.ch
Acq On : 12 Jun 2025 14:21
Operator : YP/AJ
Sample : Q2177-04
Misc :
ALS Vial : 63 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
B-187-SB02

Integration File: autoint1.e
Quant Time: Jun 13 04:14:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

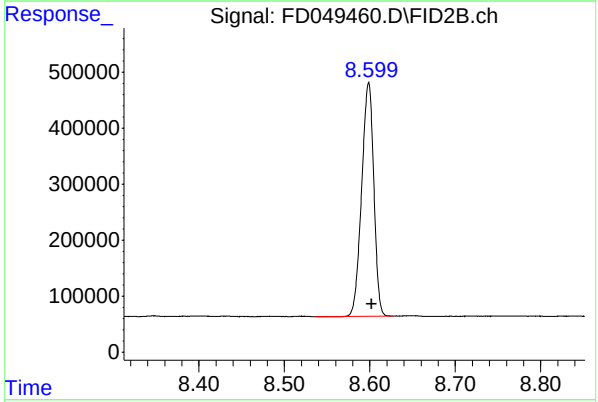





#4 2-Bromonaphthalene (SURR)

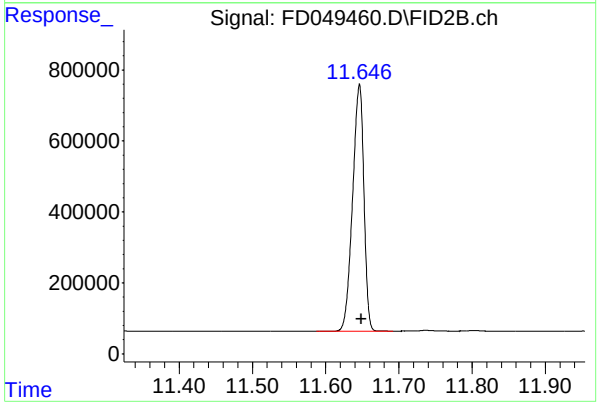
R.T.: 7.733 min
Delta R.T.: -0.003 min
Response: 6129577
Conc: 36.87 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
B-187-SB02




#6 2-Flurobiphenyl (SURR)

R.T.: 8.599 min
Delta R.T.: -0.004 min
Response: 4107675
Conc: 35.91 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.646 min
Delta R.T.: -0.002 min
Response: 7466601
Conc: 37.20 ug/ml

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061225AR\
Data File : FD049460.D
Signal(s) : FID2B.ch
Acq On : 12 Jun 2025 14:21
Sample : Q2177-04
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.265 | 4.252 | 4.294 | PH | 41639 | 350165 | 4.68% | 0.840% |
| 2 | 4.297 | 4.294 | 4.329 | PV | 144 | 1047 | 0.01% | 0.003% |
| 3 | 4.352 | 4.329 | 4.402 | PV | 17034 | 143784 | 1.92% | 0.345% |
| 4 | 4.437 | 4.412 | 4.460 | VV | 647 | 9458 | 0.13% | 0.023% |
| 5 | 4.481 | 4.460 | 4.513 | VV | 2801 | 32536 | 0.43% | 0.078% |
| 6 | 4.526 | 4.513 | 4.544 | VV | 597 | 7924 | 0.11% | 0.019% |
| 7 | 4.586 | 4.544 | 4.611 | VV | 39281 | 362007 | 4.84% | 0.869% |
| 8 | 4.628 | 4.611 | 4.637 | VV | 2186 | 20372 | 0.27% | 0.049% |
| 9 | 4.650 | 4.637 | 4.672 | VV | 3090 | 33831 | 0.45% | 0.081% |
| 10 | 4.706 | 4.672 | 4.718 | VV | 2870 | 33043 | 0.44% | 0.079% |
| 11 | 4.735 | 4.718 | 4.768 | VV | 4538 | 48197 | 0.64% | 0.116% |
| 12 | 4.788 | 4.768 | 4.804 | VV | 2299 | 22466 | 0.30% | 0.054% |
| 13 | 4.816 | 4.804 | 4.844 | VV | 1646 | 20896 | 0.28% | 0.050% |
| 14 | 4.852 | 4.844 | 4.876 | VV | 810 | 8699 | 0.12% | 0.021% |
| 15 | 4.887 | 4.876 | 4.892 | VV | 307 | 2346 | 0.03% | 0.006% |
| 16 | 4.902 | 4.892 | 4.908 | VV | 380 | 2868 | 0.04% | 0.007% |
| 17 | 4.927 | 4.908 | 4.948 | VV | 877 | 11340 | 0.15% | 0.027% |
| 18 | 4.954 | 4.948 | 4.962 | VV | 279 | 1754 | 0.02% | 0.004% |
| 19 | 4.967 | 4.962 | 4.972 | VV | 409 | 1898 | 0.03% | 0.005% |
| 20 | 4.976 | 4.972 | 4.979 | VV | 379 | 1212 | 0.02% | 0.003% |
| 21 | 4.996 | 4.979 | 5.012 | VV | 645 | 9348 | 0.12% | 0.022% |
| 22 | 5.041 | 5.012 | 5.062 | VV | 968 | 15782 | 0.21% | 0.038% |
| 23 | 5.090 | 5.062 | 5.102 | VV | 2089 | 25432 | 0.34% | 0.061% |
| 24 | 5.116 | 5.102 | 5.149 | VV | 7837 | 89041 | 1.19% | 0.214% |
| 25 | 5.174 | 5.149 | 5.209 | VV | 1929 | 29885 | 0.40% | 0.072% |
| 26 | 5.222 | 5.209 | 5.260 | VV | 788 | 10273 | 0.14% | 0.025% |
| 27 | 5.307 | 5.260 | 5.319 | PV | 822 | 12408 | 0.17% | 0.030% |
| 28 | 5.336 | 5.319 | 5.362 | VV | 5025 | 52014 | 0.70% | 0.125% |
| 29 | 5.366 | 5.362 | 5.386 | VV | 560 | 5750 | 0.08% | 0.014% |
| 30 | 5.398 | 5.386 | 5.431 | VV | 535 | 10120 | 0.14% | 0.024% |
| 31 | 5.436 | 5.431 | 5.451 | VV | 400 | 2640 | 0.04% | 0.006% |
| 32 | 5.476 | 5.451 | 5.500 | VV | 436 | 9705 | 0.13% | 0.023% |
| 33 | 5.518 | 5.500 | 5.535 | VV | 1586 | 18472 | 0.25% | 0.044% |
| 34 | 5.559 | 5.535 | 5.604 | VV | 3438 | 48627 | 0.65% | 0.117% |
| 35 | 5.614 | 5.604 | 5.639 | VV | 986 | 12651 | 0.17% | 0.030% |
| 36 | 5.649 | 5.639 | 5.664 | VV | 390 | 4982 | 0.07% | 0.012% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.683 | 5.664 | 5.732 | VV | 1226 | 21698 | 0.29% | 0.052% |
| 38 | 5.759 | 5.740 | 5.783 | VV | 607 | 10118 | 0.14% | 0.024% |
| 39 | 5.808 | 5.783 | 5.825 | VV | 795 | 12623 | 0.17% | 0.030% |
| 40 | 5.838 | 5.825 | 5.845 | VV | 419 | 4046 | 0.05% | 0.010% |
| 41 | 5.868 | 5.845 | 5.902 | VV | 547 | 12240 | 0.16% | 0.029% |
| 42 | 5.914 | 5.902 | 5.924 | VV | 441 | 4810 | 0.06% | 0.012% |
| 43 | 5.927 | 5.924 | 5.946 | VV | 525 | 5425 | 0.07% | 0.013% |
| 44 | 5.949 | 5.946 | 5.954 | VV | 388 | 1601 | 0.02% | 0.004% |
| 45 | 5.970 | 5.954 | 5.992 | VV | 968 | 13198 | 0.18% | 0.032% |
| 46 | 6.007 | 5.992 | 6.025 | VV | 762 | 11522 | 0.15% | 0.028% |
| 47 | 6.028 | 6.025 | 6.033 | VV | 679 | 2481 | 0.03% | 0.006% |
| 48 | 6.036 | 6.033 | 6.041 | VV | 557 | 2441 | 0.03% | 0.006% |
| 49 | 6.046 | 6.041 | 6.050 | VV | 586 | 2753 | 0.04% | 0.007% |
| 50 | 6.069 | 6.050 | 6.096 | VV | 2164 | 30707 | 0.41% | 0.074% |
| 51 | 6.115 | 6.096 | 6.139 | VV | 1089 | 17236 | 0.23% | 0.041% |
| 52 | 6.156 | 6.139 | 6.181 | VV | 2392 | 28265 | 0.38% | 0.068% |
| 53 | 6.217 | 6.181 | 6.253 | VV | 1116 | 22697 | 0.30% | 0.054% |
| 54 | 6.286 | 6.253 | 6.316 | VV | 834 | 19456 | 0.26% | 0.047% |
| 55 | 6.323 | 6.316 | 6.325 | VV | 264 | 1306 | 0.02% | 0.003% |
| 56 | 6.345 | 6.325 | 6.373 | VV | 1123 | 18760 | 0.25% | 0.045% |
| 57 | 6.384 | 6.373 | 6.401 | VV | 468 | 5256 | 0.07% | 0.013% |
| 58 | 6.405 | 6.401 | 6.430 | VV | 328 | 3622 | 0.05% | 0.009% |
| 59 | 6.439 | 6.430 | 6.447 | VV | 347 | 2717 | 0.04% | 0.007% |
| 60 | 6.458 | 6.447 | 6.469 | VV | 415 | 4434 | 0.06% | 0.011% |
| 61 | 6.496 | 6.469 | 6.527 | VV | 2747 | 36187 | 0.48% | 0.087% |
| 62 | 6.580 | 6.527 | 6.602 | VV | 1278 | 26610 | 0.36% | 0.064% |
| 63 | 6.615 | 6.602 | 6.630 | VV | 1275 | 13812 | 0.18% | 0.033% |
| 64 | 6.645 | 6.630 | 6.666 | VV | 2691 | 29455 | 0.39% | 0.071% |
| 65 | 6.679 | 6.666 | 6.698 | VV | 856 | 10115 | 0.14% | 0.024% |
| 66 | 6.717 | 6.698 | 6.739 | VV | 1477 | 16453 | 0.22% | 0.039% |
| 67 | 6.759 | 6.739 | 6.793 | VV | 423 | 7933 | 0.11% | 0.019% |
| 68 | 6.799 | 6.793 | 6.803 | VV | 269 | 1037 | 0.01% | 0.002% |
| 69 | 6.821 | 6.803 | 6.843 | VV | 550 | 7852 | 0.10% | 0.019% |
| 70 | 6.869 | 6.855 | 6.875 | VV | 579 | 5141 | 0.07% | 0.012% |
| 71 | 6.877 | 6.875 | 6.882 | VV | 662 | 1899 | 0.03% | 0.005% |
| 72 | 6.887 | 6.882 | 6.909 | VV | 636 | 7171 | 0.10% | 0.017% |
| 73 | 6.914 | 6.909 | 6.922 | VV | 364 | 2520 | 0.03% | 0.006% |
| 74 | 6.940 | 6.922 | 6.960 | VV | 1203 | 17070 | 0.23% | 0.041% |
| 75 | 6.965 | 6.960 | 6.970 | VV | 469 | 2493 | 0.03% | 0.006% |
| 76 | 6.993 | 6.970 | 7.023 | VV | 2183 | 41220 | 0.55% | 0.099% |
| 77 | 7.038 | 7.023 | 7.045 | VV | 1620 | 17645 | 0.24% | 0.042% |
| 78 | 7.052 | 7.045 | 7.082 | VV | 1514 | 20664 | 0.28% | 0.050% |
| 79 | 7.118 | 7.082 | 7.148 | VV | 2265 | 42924 | 0.57% | 0.103% |
| 80 | 7.155 | 7.148 | 7.160 | VV | 614 | 3889 | 0.05% | 0.009% |
| 81 | 7.166 | 7.160 | 7.184 | VV | 665 | 7738 | 0.10% | 0.019% |
| 82 | 7.197 | 7.184 | 7.211 | VV | 564 | 7366 | 0.10% | 0.018% |
| 83 | 7.226 | 7.211 | 7.237 | VV | 582 | 6898 | 0.09% | 0.017% |
| 84 | 7.243 | 7.237 | 7.246 | VV | 335 | 1807 | 0.02% | 0.004% |
| 85 | 7.279 | 7.246 | 7.311 | VV | 3753 | 51626 | 0.69% | 0.124% |
| 86 | 7.337 | 7.311 | 7.352 | VV | 1166 | 17439 | 0.23% | 0.042% |
| 87 | 7.359 | 7.352 | 7.369 | VV | 843 | 6326 | 0.08% | 0.015% |
| 88 | 7.384 | 7.369 | 7.399 | VV | 1056 | 12998 | 0.17% | 0.031% |
| 89 | 7.418 | 7.399 | 7.440 | VV | 1789 | 24377 | 0.33% | 0.059% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.454 | 7.440 | 7.467 | VV | 757 | 8081 | 0.11% | 0.019% |
| 91 | 7.482 | 7.467 | 7.496 | VV | 821 | 11125 | 0.15% | 0.027% |
| 92 | 7.509 | 7.496 | 7.528 | VV | 1308 | 14637 | 0.20% | 0.035% |
| 93 | 7.537 | 7.528 | 7.542 | VV | 489 | 3069 | 0.04% | 0.007% |
| 94 | 7.567 | 7.542 | 7.575 | VV | 630 | 8891 | 0.12% | 0.021% |
| 95 | 7.579 | 7.575 | 7.614 | VV | 653 | 8865 | 0.12% | 0.021% |
| 96 | 7.631 | 7.614 | 7.637 | VV | 585 | 5097 | 0.07% | 0.012% |
| 97 | 7.648 | 7.637 | 7.660 | VV | 914 | 9732 | 0.13% | 0.023% |
| 98 | 7.680 | 7.660 | 7.698 | VV | 1673 | 22440 | 0.30% | 0.054% |
| 99 | 7.733 | 7.698 | 7.800 | VV | 638529 | 6153631 | 82.23% | 14.769% |
| 100 | 7.826 | 7.800 | 7.858 | VV | 1283 | 28539 | 0.38% | 0.068% |
| 101 | 7.873 | 7.858 | 7.887 | VV | 819 | 9492 | 0.13% | 0.023% |
| 102 | 7.898 | 7.887 | 7.919 | VV | 607 | 8687 | 0.12% | 0.021% |
| 103 | 7.938 | 7.919 | 7.958 | VV | 668 | 12356 | 0.17% | 0.030% |
| 104 | 7.986 | 7.958 | 8.010 | VV | 1610 | 26654 | 0.36% | 0.064% |
| 105 | 8.012 | 8.010 | 8.018 | VV | 609 | 2512 | 0.03% | 0.006% |
| 106 | 8.025 | 8.018 | 8.052 | VV | 675 | 9932 | 0.13% | 0.024% |
| 107 | 8.075 | 8.052 | 8.108 | VV | 773 | 18545 | 0.25% | 0.045% |
| 108 | 8.114 | 8.108 | 8.117 | VV | 614 | 2951 | 0.04% | 0.007% |
| 109 | 8.120 | 8.117 | 8.132 | VV | 625 | 4141 | 0.06% | 0.010% |
| 110 | 8.162 | 8.132 | 8.179 | VV | 816 | 17970 | 0.24% | 0.043% |
| 111 | 8.189 | 8.179 | 8.218 | VV | 1096 | 19007 | 0.25% | 0.046% |
| 112 | 8.224 | 8.218 | 8.228 | VV | 560 | 2887 | 0.04% | 0.007% |
| 113 | 8.238 | 8.228 | 8.261 | VV | 605 | 10551 | 0.14% | 0.025% |
| 114 | 8.287 | 8.261 | 8.309 | VV | 2791 | 37820 | 0.51% | 0.091% |
| 115 | 8.315 | 8.309 | 8.321 | VV | 553 | 3415 | 0.05% | 0.008% |
| 116 | 8.325 | 8.321 | 8.330 | VV | 544 | 2519 | 0.03% | 0.006% |
| 117 | 8.347 | 8.330 | 8.364 | VV | 1523 | 18045 | 0.24% | 0.043% |
| 118 | 8.382 | 8.364 | 8.389 | VV | 1006 | 11568 | 0.15% | 0.028% |
| 119 | 8.402 | 8.389 | 8.419 | VV | 1343 | 18024 | 0.24% | 0.043% |
| 120 | 8.434 | 8.419 | 8.467 | VV | 1041 | 17381 | 0.23% | 0.042% |
| 121 | 8.481 | 8.467 | 8.509 | VV | 798 | 13150 | 0.18% | 0.032% |
| 122 | 8.519 | 8.509 | 8.545 | VV | 917 | 11371 | 0.15% | 0.027% |
| 123 | 8.549 | 8.545 | 8.562 | VV | 374 | 2157 | 0.03% | 0.005% |
| 124 | 8.599 | 8.562 | 8.627 | VV | 418680 | 4145107 | 55.39% | 9.948% |
| 125 | 8.650 | 8.627 | 8.680 | VV | 1808 | 37326 | 0.50% | 0.090% |
| 126 | 8.695 | 8.680 | 8.705 | VV | 951 | 12224 | 0.16% | 0.029% |
| 127 | 8.719 | 8.705 | 8.732 | VV | 1154 | 15689 | 0.21% | 0.038% |
| 128 | 8.755 | 8.732 | 8.768 | VV | 1306 | 24020 | 0.32% | 0.058% |
| 129 | 8.773 | 8.768 | 8.789 | VV | 1328 | 13564 | 0.18% | 0.033% |
| 130 | 8.800 | 8.789 | 8.810 | VV | 1038 | 11344 | 0.15% | 0.027% |
| 131 | 8.824 | 8.810 | 8.832 | VV | 1077 | 11205 | 0.15% | 0.027% |
| 132 | 8.838 | 8.832 | 8.845 | VV | 1056 | 8246 | 0.11% | 0.020% |
| 133 | 8.847 | 8.845 | 8.872 | VV | 1116 | 9641 | 0.13% | 0.023% |
| 134 | 8.882 | 8.872 | 8.905 | VV | 790 | 11162 | 0.15% | 0.027% |
| 135 | 8.911 | 8.905 | 8.923 | VV | 583 | 4649 | 0.06% | 0.011% |
| 136 | 8.936 | 8.923 | 8.955 | VV | 742 | 9858 | 0.13% | 0.024% |
| 137 | 9.006 | 8.955 | 9.028 | VV | 69635 | 691970 | 9.25% | 1.661% |
| 138 | 9.034 | 9.028 | 9.038 | VV | 2152 | 11890 | 0.16% | 0.029% |
| 139 | 9.040 | 9.038 | 9.054 | VV | 2158 | 16301 | 0.22% | 0.039% |
| 140 | 9.061 | 9.054 | 9.074 | VV | 1064 | 11601 | 0.16% | 0.028% |
| 141 | 9.088 | 9.074 | 9.109 | VV | 2400 | 32811 | 0.44% | 0.079% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.125 | 9.109 | 9.143 | VV | 2564 | 37667 | 0.50% | 0.090% |
| 143 | 9.161 | 9.143 | 9.178 | VV | 1977 | 24222 | 0.32% | 0.058% |
| 144 | 9.194 | 9.178 | 9.224 | VV | 998 | 14135 | 0.19% | 0.034% |
| 145 | 9.241 | 9.224 | 9.261 | VV | 506 | 8247 | 0.11% | 0.020% |
| 146 | 9.265 | 9.261 | 9.273 | VV | 278 | 1576 | 0.02% | 0.004% |
| 147 | 9.296 | 9.273 | 9.310 | VV | 843 | 12593 | 0.17% | 0.030% |
| 148 | 9.330 | 9.310 | 9.358 | VV | 1099 | 18697 | 0.25% | 0.045% |
| 149 | 9.363 | 9.358 | 9.370 | VV | 338 | 1714 | 0.02% | 0.004% |
| 150 | 9.392 | 9.370 | 9.406 | VV | 838 | 12938 | 0.17% | 0.031% |
| 151 | 9.410 | 9.406 | 9.443 | VV | 759 | 11763 | 0.16% | 0.028% |
| 152 | 9.475 | 9.443 | 9.515 | VV | 1688 | 34610 | 0.46% | 0.083% |
| 153 | 9.527 | 9.515 | 9.560 | VV | 671 | 13255 | 0.18% | 0.032% |
| 154 | 9.565 | 9.560 | 9.597 | VV | 593 | 9314 | 0.12% | 0.022% |
| 155 | 9.613 | 9.597 | 9.640 | VV | 860 | 15440 | 0.21% | 0.037% |
| 156 | 9.643 | 9.640 | 9.650 | VV | 401 | 2246 | 0.03% | 0.005% |
| 157 | 9.665 | 9.650 | 9.694 | VV | 593 | 11845 | 0.16% | 0.028% |
| 158 | 9.722 | 9.694 | 9.734 | VV | 5543 | 62796 | 0.84% | 0.151% |
| 159 | 9.752 | 9.734 | 9.800 | VV | 63518 | 638579 | 8.53% | 1.533% |
| 160 | 9.806 | 9.800 | 9.809 | VV | 574 | 3019 | 0.04% | 0.007% |
| 161 | 9.822 | 9.809 | 9.856 | VV | 778 | 11233 | 0.15% | 0.027% |
| 162 | 9.883 | 9.856 | 9.932 | VV | 1371 | 22579 | 0.30% | 0.054% |
| 163 | 9.959 | 9.932 | 10.015 | VV | 662 | 20098 | 0.27% | 0.048% |
| 164 | 10.020 | 10.015 | 10.031 | VV | 470 | 3686 | 0.05% | 0.009% |
| 165 | 10.044 | 10.031 | 10.059 | VV | 574 | 6975 | 0.09% | 0.017% |
| 166 | 10.079 | 10.059 | 10.104 | VV | 1110 | 14483 | 0.19% | 0.035% |
| 167 | 10.107 | 10.104 | 10.117 | PV | 356 | 1707 | 0.02% | 0.004% |
| 168 | 10.128 | 10.124 | 10.150 | VV | 273 | 2506 | 0.03% | 0.006% |
| 169 | 10.159 | 10.150 | 10.178 | VV | 287 | 3039 | 0.04% | 0.007% |
| 170 | 10.224 | 10.178 | 10.246 | VV | 4734 | 60203 | 0.80% | 0.144% |
| 171 | 10.250 | 10.246 | 10.259 | VV | 599 | 4240 | 0.06% | 0.010% |
| 172 | 10.277 | 10.259 | 10.295 | VV | 865 | 12721 | 0.17% | 0.031% |
| 173 | 10.314 | 10.295 | 10.332 | VV | 1057 | 16639 | 0.22% | 0.040% |
| 174 | 10.342 | 10.332 | 10.352 | VV | 722 | 7870 | 0.11% | 0.019% |
| 175 | 10.353 | 10.352 | 10.383 | VV | 808 | 9732 | 0.13% | 0.023% |
| 176 | 10.405 | 10.383 | 10.442 | VV | 1411 | 24618 | 0.33% | 0.059% |
| 177 | 10.445 | 10.442 | 10.453 | VV | 467 | 2750 | 0.04% | 0.007% |
| 178 | 10.483 | 10.453 | 10.495 | VV | 696 | 12659 | 0.17% | 0.030% |
| 179 | 10.506 | 10.495 | 10.515 | VV | 653 | 7036 | 0.09% | 0.017% |
| 180 | 10.524 | 10.515 | 10.539 | VV | 723 | 8373 | 0.11% | 0.020% |
| 181 | 10.552 | 10.539 | 10.570 | VV | 729 | 12247 | 0.16% | 0.029% |
| 182 | 10.574 | 10.570 | 10.585 | VV | 821 | 5994 | 0.08% | 0.014% |
| 183 | 10.601 | 10.585 | 10.657 | VV | 1119 | 29709 | 0.40% | 0.071% |
| 184 | 10.672 | 10.657 | 10.691 | VV | 753 | 10080 | 0.13% | 0.024% |
| 185 | 10.712 | 10.691 | 10.729 | VV | 902 | 16061 | 0.21% | 0.039% |
| 186 | 10.752 | 10.729 | 10.789 | VV | 1438 | 30529 | 0.41% | 0.073% |
| 187 | 10.803 | 10.789 | 10.825 | VV | 787 | 13630 | 0.18% | 0.033% |
| 188 | 10.839 | 10.825 | 10.856 | VV | 800 | 10860 | 0.15% | 0.026% |
| 189 | 10.873 | 10.856 | 10.889 | VV | 2007 | 22597 | 0.30% | 0.054% |
| 190 | 10.900 | 10.889 | 10.922 | VV | 1081 | 17281 | 0.23% | 0.041% |
| 191 | 10.928 | 10.922 | 10.931 | VV | 778 | 3961 | 0.05% | 0.010% |
| 192 | 10.945 | 10.931 | 10.975 | VV | 1166 | 21071 | 0.28% | 0.051% |
| 193 | 10.991 | 10.975 | 11.003 | VV | 875 | 11536 | 0.15% | 0.028% |
| 194 | 11.008 | 11.003 | 11.025 | VV | 692 | 7006 | 0.09% | 0.017% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 11.048 | 11.025 | 11.069 | VV | 897 | 16439 | 0.22% | 0.039% |
| 196 | 11.077 | 11.069 | 11.084 | VV | 581 | 4268 | 0.06% | 0.010% |
| 197 | 11.087 | 11.084 | 11.104 | VV | 517 | 4435 | 0.06% | 0.011% |
| 198 | 11.121 | 11.104 | 11.130 | VV | 402 | 5361 | 0.07% | 0.013% |
| 199 | 11.142 | 11.130 | 11.153 | VV | 469 | 4325 | 0.06% | 0.010% |
| 200 | 11.177 | 11.153 | 11.202 | VV | 2213 | 27486 | 0.37% | 0.066% |
| 201 | 11.210 | 11.202 | 11.226 | VV | 253 | 2060 | 0.03% | 0.005% |
| 202 | 11.250 | 11.226 | 11.272 | PV | 748 | 10409 | 0.14% | 0.025% |
| 203 | 11.295 | 11.272 | 11.306 | VV | 624 | 7630 | 0.10% | 0.018% |
| 204 | 11.321 | 11.306 | 11.353 | VV | 1407 | 16755 | 0.22% | 0.040% |
| 205 | 11.394 | 11.353 | 11.447 | VV | 730 | 17920 | 0.24% | 0.043% |
| 206 | 11.478 | 11.447 | 11.484 | VV | 624 | 7652 | 0.10% | 0.018% |
| 207 | 11.487 | 11.484 | 11.500 | VV | 534 | 2735 | 0.04% | 0.007% |
| 208 | 11.512 | 11.500 | 11.526 | VV | 454 | 5064 | 0.07% | 0.012% |
| 209 | 11.530 | 11.526 | 11.551 | VV | 280 | 2935 | 0.04% | 0.007% |
| 210 | 11.562 | 11.551 | 11.571 | VV | 307 | 2604 | 0.03% | 0.006% |
| 211 | 11.646 | 11.584 | 11.692 | PV | 698661 | 7483179 | 100.00% | 17.960% |
| 212 | 11.706 | 11.692 | 11.717 | VV | 1020 | 10841 | 0.14% | 0.026% |
| 213 | 11.737 | 11.717 | 11.775 | VV | 2812 | 49437 | 0.66% | 0.119% |
| 214 | 11.803 | 11.775 | 11.828 | VV | 2390 | 35080 | 0.47% | 0.084% |
| 215 | 11.852 | 11.828 | 11.862 | VV | 490 | 6047 | 0.08% | 0.015% |
| 216 | 11.866 | 11.862 | 11.884 | VV | 436 | 3648 | 0.05% | 0.009% |
| 217 | 11.891 | 11.884 | 11.901 | VV | 297 | 2193 | 0.03% | 0.005% |
| 218 | 11.916 | 11.901 | 11.938 | VV | 497 | 7831 | 0.10% | 0.019% |
| 219 | 11.981 | 11.938 | 12.007 | VV | 1077 | 27615 | 0.37% | 0.066% |
| 220 | 12.040 | 12.007 | 12.063 | VV | 6169 | 76936 | 1.03% | 0.185% |
| 221 | 12.081 | 12.063 | 12.107 | VV | 1331 | 19994 | 0.27% | 0.048% |
| 222 | 12.112 | 12.107 | 12.117 | VV | 570 | 2754 | 0.04% | 0.007% |
| 223 | 12.121 | 12.117 | 12.125 | VV | 512 | 2421 | 0.03% | 0.006% |
| 224 | 12.144 | 12.125 | 12.175 | VV | 753 | 15710 | 0.21% | 0.038% |
| 225 | 12.239 | 12.175 | 12.275 | VV | 165491 | 1972924 | 26.36% | 4.735% |
| 226 | 12.295 | 12.275 | 12.338 | VV | 7622 | 130491 | 1.74% | 0.313% |
| 227 | 12.347 | 12.338 | 12.360 | VV | 1257 | 16067 | 0.21% | 0.039% |
| 228 | 12.370 | 12.360 | 12.404 | VV | 1455 | 30388 | 0.41% | 0.073% |
| 229 | 12.408 | 12.404 | 12.428 | VV | 981 | 11914 | 0.16% | 0.029% |
| 230 | 12.485 | 12.428 | 12.524 | VV | 5480 | 115027 | 1.54% | 0.276% |
| 231 | 12.526 | 12.524 | 12.533 | VV | 405 | 2048 | 0.03% | 0.005% |
| 232 | 12.565 | 12.533 | 12.602 | VV | 224235 | 2535407 | 33.88% | 6.085% |
| 233 | 12.627 | 12.602 | 12.667 | VV | 1985 | 31795 | 0.42% | 0.076% |
| 234 | 12.689 | 12.667 | 12.737 | VV | 4497 | 84294 | 1.13% | 0.202% |
| 235 | 12.755 | 12.737 | 12.784 | PV | 884 | 12777 | 0.17% | 0.031% |
| 236 | 12.807 | 12.799 | 12.825 | VV | 301 | 3564 | 0.05% | 0.009% |
| 237 | 12.838 | 12.825 | 12.858 | VV | 470 | 4651 | 0.06% | 0.011% |
| 238 | 12.874 | 12.858 | 12.889 | VV | 618 | 7401 | 0.10% | 0.018% |
| 239 | 12.894 | 12.889 | 12.900 | VV | 599 | 3708 | 0.05% | 0.009% |
| 240 | 12.903 | 12.900 | 12.914 | VV | 651 | 3976 | 0.05% | 0.010% |
| 241 | 12.915 | 12.914 | 12.931 | VV | 457 | 3095 | 0.04% | 0.007% |
| 242 | 12.938 | 12.931 | 12.945 | VV | 229 | 1863 | 0.02% | 0.004% |
| 243 | 12.984 | 12.945 | 12.995 | VV | 2736 | 36574 | 0.49% | 0.088% |
| 244 | 13.025 | 12.995 | 13.048 | VV | 305176 | 3511629 | 46.93% | 8.428% |
| 245 | 13.071 | 13.048 | 13.102 | VV | 119256 | 1361417 | 18.19% | 3.267% |
| 246 | 13.119 | 13.102 | 13.126 | VV | 997 | 10000 | 0.13% | 0.024% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 13.130 | 13.126 | 13.165 | VV | 763 | 13682 | 0.18% | 0.033% |
| 248 | 13.171 | 13.165 | 13.174 | VV | 463 | 2016 | 0.03% | 0.005% |
| 249 | 13.193 | 13.174 | 13.209 | VV | 618 | 9020 | 0.12% | 0.022% |
| 250 | 13.249 | 13.209 | 13.257 | VV | 791 | 14159 | 0.19% | 0.034% |
| 251 | 13.290 | 13.257 | 13.342 | VV | 3766 | 80421 | 1.07% | 0.193% |
| 252 | 13.358 | 13.342 | 13.372 | VV | 973 | 15257 | 0.20% | 0.037% |
| 253 | 13.398 | 13.372 | 13.428 | VV | 1627 | 34931 | 0.47% | 0.084% |
| 254 | 13.462 | 13.428 | 13.505 | VV | 83043 | 1005678 | 13.44% | 2.414% |
| 255 | 13.517 | 13.505 | 13.553 | VV | 2738 | 54729 | 0.73% | 0.131% |
| 256 | 13.573 | 13.553 | 13.586 | VV | 1376 | 21155 | 0.28% | 0.051% |
| 257 | 13.630 | 13.586 | 13.658 | VV | 5671 | 117933 | 1.58% | 0.283% |
| 258 | 13.685 | 13.658 | 13.739 | VV | 17149 | 217432 | 2.91% | 0.522% |
| 259 | 13.743 | 13.739 | 13.750 | VV | 509 | 3160 | 0.04% | 0.008% |
| 260 | 13.772 | 13.750 | 13.796 | VV | 2160 | 32599 | 0.44% | 0.078% |
| 261 | 13.800 | 13.796 | 13.804 | VV | 327 | 1395 | 0.02% | 0.003% |
| 262 | 13.821 | 13.804 | 13.835 | VV | 1457 | 19295 | 0.26% | 0.046% |
| 263 | 13.847 | 13.835 | 13.856 | VV | 1329 | 13694 | 0.18% | 0.033% |
| 264 | 13.870 | 13.856 | 13.910 | VV | 1513 | 25195 | 0.34% | 0.060% |
| 265 | 13.946 | 13.910 | 13.969 | VV | 3634 | 61929 | 0.83% | 0.149% |
| 266 | 13.970 | 13.969 | 13.991 | VV | 1588 | 11513 | 0.15% | 0.028% |
| 267 | 13.996 | 13.991 | 14.000 | VV | 370 | 1681 | 0.02% | 0.004% |
| 268 | 14.006 | 14.000 | 14.011 | VV | 410 | 2309 | 0.03% | 0.006% |
| 269 | 14.034 | 14.011 | 14.056 | VV | 837 | 16389 | 0.22% | 0.039% |
| 270 | 14.060 | 14.056 | 14.096 | VV | 579 | 6630 | 0.09% | 0.016% |
| 271 | 14.117 | 14.096 | 14.122 | PV | 353 | 2942 | 0.04% | 0.007% |
| 272 | 14.131 | 14.122 | 14.134 | VV | 235 | 1158 | 0.02% | 0.003% |
| 273 | 14.153 | 14.134 | 14.161 | VV | 417 | 4575 | 0.06% | 0.011% |
| 274 | 14.187 | 14.161 | 14.197 | VV | 1524 | 19901 | 0.27% | 0.048% |
| 275 | 14.216 | 14.197 | 14.240 | VV | 3317 | 56086 | 0.75% | 0.135% |
| 276 | 14.257 | 14.240 | 14.287 | VV | 1718 | 31424 | 0.42% | 0.075% |
| 277 | 14.317 | 14.287 | 14.339 | VV | 1459 | 25665 | 0.34% | 0.062% |
| 278 | 14.378 | 14.339 | 14.403 | VV | 3891 | 62710 | 0.84% | 0.151% |
| 279 | 14.423 | 14.403 | 14.442 | VV | 3064 | 43857 | 0.59% | 0.105% |
| 280 | 14.469 | 14.442 | 14.514 | VV | 2814 | 63181 | 0.84% | 0.152% |
| 281 | 14.557 | 14.514 | 14.586 | VV | 5902 | 97779 | 1.31% | 0.235% |
| 282 | 14.606 | 14.586 | 14.620 | VV | 2015 | 31551 | 0.42% | 0.076% |
| 283 | 14.627 | 14.620 | 14.652 | VV | 1692 | 26130 | 0.35% | 0.063% |
| 284 | 14.685 | 14.652 | 14.720 | VV | 15969 | 265087 | 3.54% | 0.636% |
| 285 | 14.732 | 14.720 | 14.745 | VV | 1418 | 19077 | 0.25% | 0.046% |
| 286 | 14.757 | 14.745 | 14.764 | VV | 1559 | 16136 | 0.22% | 0.039% |
| 287 | 14.772 | 14.764 | 14.779 | VV | 1580 | 12693 | 0.17% | 0.030% |
| 288 | 14.783 | 14.779 | 14.803 | VV | 1644 | 21970 | 0.29% | 0.053% |
| 289 | 14.838 | 14.803 | 14.876 | VV | 74755 | 918955 | 12.28% | 2.205% |
| 290 | 14.895 | 14.876 | 14.914 | VV | 2851 | 56310 | 0.75% | 0.135% |
| 291 | 14.920 | 14.914 | 14.943 | VV | 1937 | 25184 | 0.34% | 0.060% |
| 292 | 14.965 | 14.943 | 15.000 | VV | 3760 | 58844 | 0.79% | 0.141% |
| 293 | 15.013 | 15.000 | 15.037 | VV | 874 | 15747 | 0.21% | 0.038% |
| 294 | 15.051 | 15.037 | 15.075 | VV | 1296 | 19340 | 0.26% | 0.046% |
| 295 | 15.108 | 15.075 | 15.128 | VV | 1211 | 24748 | 0.33% | 0.059% |
| 296 | 15.135 | 15.128 | 15.182 | VV | 689 | 16763 | 0.22% | 0.040% |
| 297 | 15.187 | 15.182 | 15.198 | VV | 500 | 3672 | 0.05% | 0.009% |
| 298 | 15.204 | 15.198 | 15.209 | VV | 461 | 2405 | 0.03% | 0.006% |
| 299 | 15.220 | 15.209 | 15.230 | VV | 554 | 5723 | 0.08% | 0.014% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 15.243 | 15.230 | 15.262 | VV | 614 | 8390 | 0.11% | 0.020% |
| 301 | 15.298 | 15.262 | 15.349 | VV | 23794 | 394694 | 5.27% | 0.947% |
| 302 | 15.365 | 15.349 | 15.379 | VV | 2906 | 46074 | 0.62% | 0.111% |
| 303 | 15.395 | 15.379 | 15.420 | VV | 3617 | 58642 | 0.78% | 0.141% |
| 304 | 15.456 | 15.420 | 15.477 | VV | 2088 | 45891 | 0.61% | 0.110% |
| 305 | 15.492 | 15.477 | 15.507 | VV | 1198 | 16576 | 0.22% | 0.040% |
| 306 | 15.525 | 15.507 | 15.544 | VV | 930 | 14945 | 0.20% | 0.036% |
| 307 | 15.567 | 15.544 | 15.597 | VV | 1051 | 21764 | 0.29% | 0.052% |
| 308 | 15.607 | 15.597 | 15.615 | VV | 454 | 4586 | 0.06% | 0.011% |
| 309 | 15.650 | 15.615 | 15.716 | VV | 5261 | 112313 | 1.50% | 0.270% |
| 310 | 15.722 | 15.716 | 15.736 | VV | 1081 | 10370 | 0.14% | 0.025% |
| 311 | 15.746 | 15.736 | 15.768 | VV | 832 | 14076 | 0.19% | 0.034% |
| 312 | 15.788 | 15.768 | 15.802 | VV | 1415 | 20618 | 0.28% | 0.049% |
| 313 | 15.819 | 15.802 | 15.850 | VV | 1640 | 34409 | 0.46% | 0.083% |
| 314 | 15.901 | 15.850 | 15.928 | VV | 34727 | 461151 | 6.16% | 1.107% |
| 315 | 15.940 | 15.928 | 15.967 | VV | 1521 | 21012 | 0.28% | 0.050% |
| 316 | 15.999 | 15.967 | 16.025 | VV | 3176 | 47755 | 0.64% | 0.115% |
| 317 | 16.030 | 16.025 | 16.060 | VV | 274 | 2653 | 0.04% | 0.006% |
| 318 | 16.091 | 16.060 | 16.102 | PV | 521 | 7053 | 0.09% | 0.017% |
| 319 | 16.127 | 16.102 | 16.137 | VV | 297 | 4685 | 0.06% | 0.011% |
| 320 | 16.139 | 16.137 | 16.149 | VV | 306 | 1396 | 0.02% | 0.003% |
| 321 | 16.193 | 16.165 | 16.214 | VV | 791 | 11449 | 0.15% | 0.027% |
| 322 | 16.225 | 16.214 | 16.230 | VV | 513 | 3348 | 0.04% | 0.008% |
| 323 | 16.244 | 16.230 | 16.257 | VV | 704 | 9245 | 0.12% | 0.022% |
| 324 | 16.274 | 16.257 | 16.280 | VV | 706 | 7245 | 0.10% | 0.017% |
| 325 | 16.307 | 16.280 | 16.339 | VV | 24953 | 375549 | 5.02% | 0.901% |
| 326 | 16.362 | 16.339 | 16.390 | VV | 21122 | 341731 | 4.57% | 0.820% |
| 327 | 16.394 | 16.390 | 16.459 | VV | 5490 | 97940 | 1.31% | 0.235% |
| 328 | 16.501 | 16.459 | 16.523 | VV | 1534 | 33810 | 0.45% | 0.081% |
| 329 | 16.551 | 16.523 | 16.575 | VV | 2000 | 31965 | 0.43% | 0.077% |
| 330 | 16.582 | 16.575 | 16.590 | VV | 579 | 4829 | 0.06% | 0.012% |
| 331 | 16.627 | 16.590 | 16.659 | VV | 6753 | 108111 | 1.44% | 0.259% |
| 332 | 16.671 | 16.659 | 16.707 | VV | 2447 | 48432 | 0.65% | 0.116% |
| 333 | 16.723 | 16.707 | 16.752 | VV | 1395 | 26475 | 0.35% | 0.064% |
| 334 | 16.786 | 16.752 | 16.812 | VV | 2264 | 49860 | 0.67% | 0.120% |
| 335 | 16.837 | 16.812 | 16.865 | VV | 5138 | 95853 | 1.28% | 0.230% |
| 336 | 16.882 | 16.865 | 16.915 | VV | 2529 | 43176 | 0.58% | 0.104% |
| 337 | 16.936 | 16.915 | 16.948 | VV | 2426 | 31780 | 0.42% | 0.076% |
| 338 | 16.961 | 16.948 | 16.997 | VV | 3318 | 47190 | 0.63% | 0.113% |
| 339 | 17.010 | 16.997 | 17.028 | VV | 473 | 6813 | 0.09% | 0.016% |
| 340 | 17.036 | 17.028 | 17.068 | VV | 451 | 5852 | 0.08% | 0.014% |
| 341 | 17.084 | 17.068 | 17.104 | PV | 308 | 3891 | 0.05% | 0.009% |
| 342 | 17.134 | 17.104 | 17.159 | VV | 1642 | 31985 | 0.43% | 0.077% |
| 343 | 17.165 | 17.159 | 17.171 | VV | 660 | 4234 | 0.06% | 0.010% |
| 344 | 17.185 | 17.171 | 17.192 | VV | 794 | 8138 | 0.11% | 0.020% |
| 345 | 17.211 | 17.192 | 17.224 | VV | 1282 | 17811 | 0.24% | 0.043% |
| 346 | 17.249 | 17.224 | 17.270 | VV | 9757 | 152925 | 2.04% | 0.367% |
| 347 | 17.291 | 17.270 | 17.317 | VV | 11142 | 199792 | 2.67% | 0.480% |
| 348 | 17.328 | 17.317 | 17.370 | VV | 5055 | 84484 | 1.13% | 0.203% |
| 349 | 17.384 | 17.370 | 17.395 | VV | 806 | 9625 | 0.13% | 0.023% |
| 350 | 17.416 | 17.395 | 17.463 | VV | 1206 | 28797 | 0.38% | 0.069% |
| 351 | 17.467 | 17.463 | 17.476 | VV | 555 | 3821 | 0.05% | 0.009% |

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| 352 | 17.488 | 17.476 | 17.493 | VV | 520 | 4617 | 0.06% | 0.011% |
| 353 | 17.498 | 17.493 | 17.504 | VV | 467 | 2759 | 0.04% | 0.007% |
| 354 | 17.541 | 17.504 | 17.603 | VV | 3232 | 84410 | 1.13% | 0.203% |
| 355 | 17.626 | 17.603 | 17.632 | VV | 925 | 12326 | 0.16% | 0.030% |
| 356 | 17.633 | 17.632 | 17.673 | VV | 915 | 13211 | 0.18% | 0.032% |
| 357 | 17.732 | 17.673 | 17.751 | VV | 2370 | 63763 | 0.85% | 0.153% |
| 358 | 17.772 | 17.751 | 17.824 | VV | 2828 | 52360 | 0.70% | 0.126% |
| 359 | 17.859 | 17.824 | 17.886 | VV | 3977 | 61728 | 0.82% | 0.148% |
| 360 | 17.902 | 17.886 | 17.907 | VV | 803 | 7971 | 0.11% | 0.019% |
| 361 | 17.912 | 17.907 | 17.919 | VV | 726 | 4726 | 0.06% | 0.011% |
| 362 | 17.956 | 17.919 | 17.973 | VV | 1376 | 28285 | 0.38% | 0.068% |
| 363 | 17.997 | 17.973 | 18.023 | VV | 2864 | 46434 | 0.62% | 0.111% |
| 364 | 18.067 | 18.023 | 18.086 | VV | 3197 | 62510 | 0.84% | 0.150% |
| 365 | 18.093 | 18.086 | 18.105 | VV | 1878 | 20640 | 0.28% | 0.050% |
| 366 | 18.131 | 18.105 | 18.173 | VV | 9780 | 235580 | 3.15% | 0.565% |
| 367 | 18.193 | 18.173 | 18.246 | VV | 6503 | 126851 | 1.70% | 0.304% |
| 368 | 18.284 | 18.246 | 18.305 | VV | 1513 | 33552 | 0.45% | 0.081% |
| 369 | 18.312 | 18.305 | 18.318 | VV | 902 | 6170 | 0.08% | 0.015% |
| 370 | 18.320 | 18.318 | 18.350 | VV | 795 | 7304 | 0.10% | 0.018% |
| 371 | 18.397 | 18.350 | 18.417 | VV | 1556 | 24722 | 0.33% | 0.059% |
| 372 | 18.420 | 18.417 | 18.427 | VV | 488 | 2306 | 0.03% | 0.006% |
| 373 | 18.455 | 18.427 | 18.480 | VV | 785 | 17756 | 0.24% | 0.043% |
| 374 | 18.486 | 18.480 | 18.504 | VV | 610 | 5935 | 0.08% | 0.014% |
| 375 | 18.514 | 18.504 | 18.518 | PV | 217 | 1213 | 0.02% | 0.003% |
| 376 | 18.577 | 18.518 | 18.663 | VV | 5600 | 173350 | 2.32% | 0.416% |
| 377 | 18.693 | 18.663 | 18.751 | VV | 6717 | 131011 | 1.75% | 0.314% |
| 378 | 18.785 | 18.751 | 18.829 | VV | 5836 | 90829 | 1.21% | 0.218% |
| 379 | 18.885 | 18.844 | 18.920 | PV | 10468 | 165484 | 2.21% | 0.397% |
| 380 | 18.958 | 18.920 | 18.980 | PV | 13703 | 183747 | 2.46% | 0.441% |

Sum of corrected areas: 41666613

Aromatic EPH 052425.M Fri Jun 13 05:28:10 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061225AL\
Data File : FC069185.D
Signal(s) : FID1A.ch
Acq On : 12 Jun 2025 13:40
Operator : YP/AJ
Sample : Q2177-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
B-202-SB01

Integration File: autoint1.e
Quant Time: Jun 13 02:16:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 13.115 | 2903246 | 32.361 ug/ml |
| Spiked Amount 50.000 | | Recovery = 64.72% | |
| Target Compounds | | | |

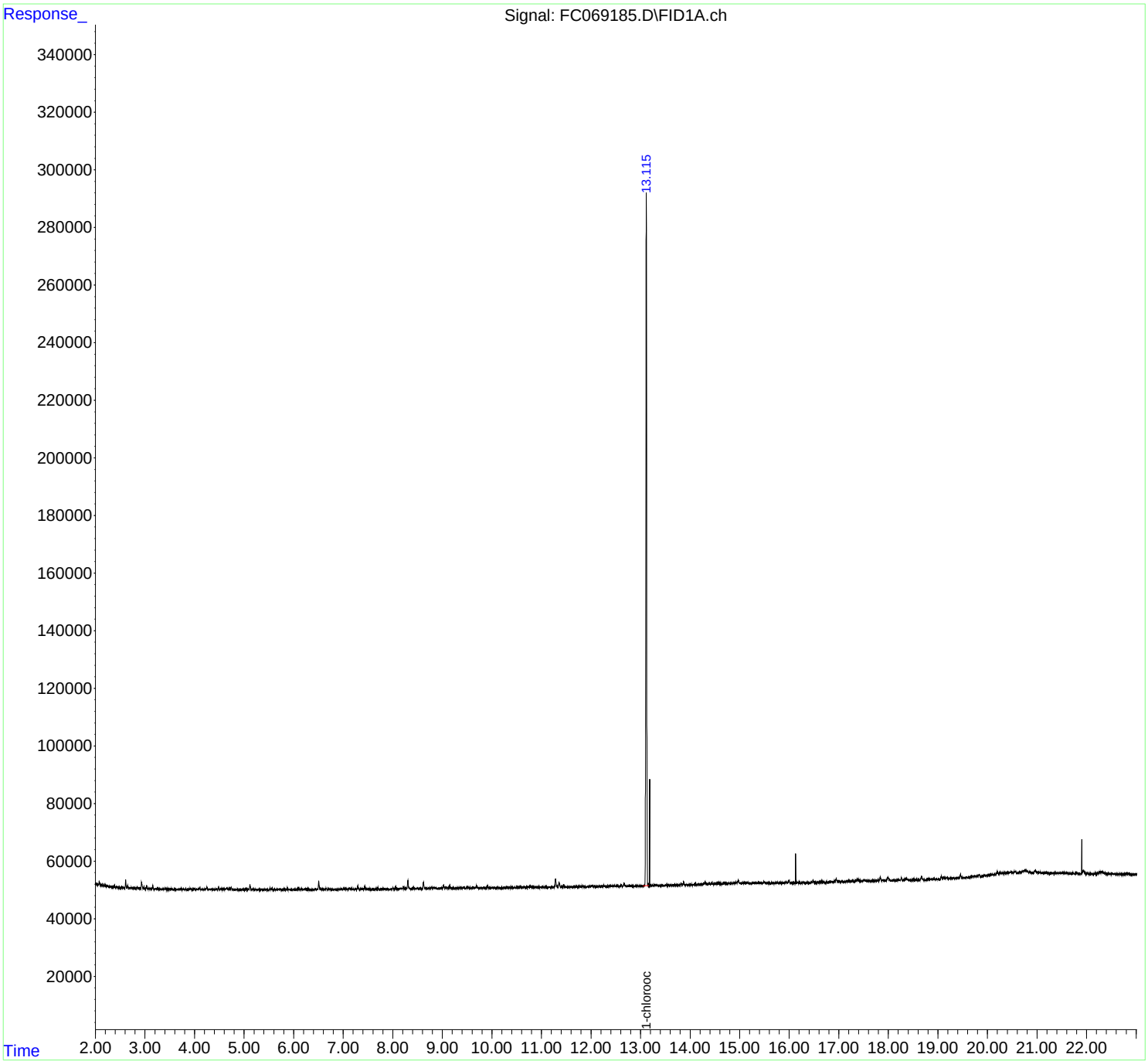
(f)=RT Delta > 1/2 Window (m)=manual int.

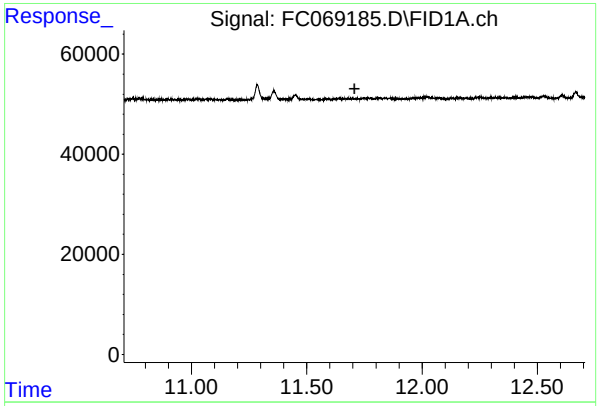
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061225AL\
Data File : FC069185.D
Signal(s) : FID1A.ch
Acq On : 12 Jun 2025 13:40
Operator : YP/AJ
Sample : Q2177-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
B-202-SB01

Integration File: autoint1.e
Quant Time: Jun 13 02:16:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

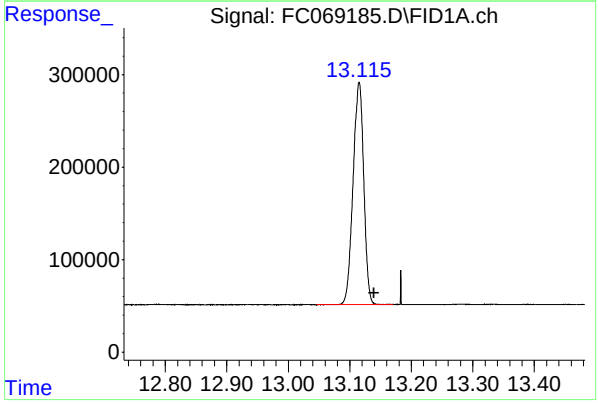





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.707 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
B-202-SB01




#12 1-chlorooctadecane (SURR)

R.T.: 13.115 min
Delta R.T.: -0.024 min
Response: 2903246
Conc: 32.36 ug/ml

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061225AL\
Data File : FC069185.D
Signal(s) : FID1A.ch
Acq On : 12 Jun 2025 13:40
Sample : Q2177-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.238 | 3.204 | 3.341 | BV | 67 | 2330 | 0.08% | 0.032% |
| 2 | 3.343 | 3.341 | 3.386 | VV | 104 | 799 | 0.03% | 0.011% |
| 3 | 3.409 | 3.386 | 3.454 | PV | 438 | 4916 | 0.17% | 0.068% |
| 4 | 3.461 | 3.454 | 3.477 | VV | 99 | 420 | 0.01% | 0.006% |
| 5 | 3.488 | 3.477 | 3.494 | PV | 79 | 419 | 0.01% | 0.006% |
| 6 | 3.507 | 3.494 | 3.526 | VV | 73 | 1272 | 0.04% | 0.018% |
| 7 | 3.557 | 3.526 | 3.571 | VV | 113 | 1522 | 0.05% | 0.021% |
| 8 | 3.583 | 3.571 | 3.601 | VV | 110 | 1031 | 0.04% | 0.014% |
| 9 | 3.611 | 3.601 | 3.641 | PV | 130 | 1314 | 0.05% | 0.018% |
| 10 | 3.687 | 3.641 | 3.698 | VV | 121 | 2087 | 0.07% | 0.029% |
| 11 | 3.714 | 3.698 | 3.725 | VV | 229 | 2450 | 0.08% | 0.034% |
| 12 | 3.736 | 3.725 | 3.764 | VV | 248 | 2906 | 0.10% | 0.040% |
| 13 | 3.798 | 3.764 | 3.811 | PV | 200 | 3598 | 0.12% | 0.050% |
| 14 | 3.825 | 3.811 | 3.848 | VV | 193 | 2327 | 0.08% | 0.032% |
| 15 | 3.855 | 3.848 | 3.887 | VV | 95 | 1464 | 0.05% | 0.020% |
| 16 | 3.907 | 3.887 | 3.951 | VV | 379 | 7066 | 0.24% | 0.098% |
| 17 | 3.954 | 3.951 | 3.978 | VV | 129 | 1355 | 0.05% | 0.019% |
| 18 | 3.989 | 3.978 | 4.034 | VV | 354 | 4846 | 0.17% | 0.067% |
| 19 | 4.081 | 4.034 | 4.094 | VV | 523 | 7562 | 0.26% | 0.105% |
| 20 | 4.108 | 4.094 | 4.129 | VV | 756 | 7860 | 0.27% | 0.109% |
| 21 | 4.144 | 4.129 | 4.154 | VV | 213 | 1892 | 0.06% | 0.026% |
| 22 | 4.178 | 4.154 | 4.211 | VV | 263 | 4856 | 0.17% | 0.067% |
| 23 | 4.248 | 4.211 | 4.324 | VV | 803 | 16226 | 0.56% | 0.225% |
| 24 | 4.352 | 4.324 | 4.369 | VV | 168 | 2775 | 0.10% | 0.038% |
| 25 | 4.388 | 4.369 | 4.400 | VV | 188 | 2341 | 0.08% | 0.032% |
| 26 | 4.411 | 4.400 | 4.432 | VV | 169 | 3076 | 0.11% | 0.043% |
| 27 | 4.441 | 4.432 | 4.464 | VV | 151 | 2384 | 0.08% | 0.033% |
| 28 | 4.482 | 4.464 | 4.516 | VV | 893 | 12264 | 0.42% | 0.170% |
| 29 | 4.527 | 4.516 | 4.567 | VV | 324 | 6537 | 0.22% | 0.091% |
| 30 | 4.588 | 4.567 | 4.618 | VV | 303 | 6528 | 0.22% | 0.091% |
| 31 | 4.650 | 4.618 | 4.687 | VV | 698 | 13473 | 0.46% | 0.187% |
| 32 | 4.706 | 4.687 | 4.721 | VV | 505 | 6303 | 0.22% | 0.087% |
| 33 | 4.737 | 4.721 | 4.758 | VV | 931 | 9757 | 0.33% | 0.135% |
| 34 | 4.769 | 4.758 | 4.822 | VV | 151 | 3274 | 0.11% | 0.045% |
| 35 | 4.859 | 4.822 | 4.886 | VV | 179 | 3451 | 0.12% | 0.048% |
| 36 | 4.940 | 4.886 | 4.985 | VV | 157 | 4760 | 0.16% | 0.066% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 4.996 | 4.985 | 5.001 | PV | 72 | 472 | 0.02% | 0.007% |
| 38 | 5.008 | 5.001 | 5.031 | VV | 100 | 1118 | 0.04% | 0.015% |
| 39 | 5.039 | 5.031 | 5.078 | VV | 161 | 2277 | 0.08% | 0.032% |
| 40 | 5.118 | 5.078 | 5.151 | VV | 1823 | 24842 | 0.85% | 0.344% |
| 41 | 5.175 | 5.151 | 5.194 | VV | 361 | 5580 | 0.19% | 0.077% |
| 42 | 5.205 | 5.194 | 5.229 | VV | 237 | 2659 | 0.09% | 0.037% |
| 43 | 5.237 | 5.229 | 5.273 | VV | 117 | 2310 | 0.08% | 0.032% |
| 44 | 5.304 | 5.273 | 5.334 | VV | 126 | 2656 | 0.09% | 0.037% |
| 45 | 5.348 | 5.334 | 5.388 | VV | 169 | 2266 | 0.08% | 0.031% |
| 46 | 5.401 | 5.388 | 5.412 | VV | 208 | 1390 | 0.05% | 0.019% |
| 47 | 5.472 | 5.430 | 5.497 | PV | 194 | 3421 | 0.12% | 0.047% |
| 48 | 5.523 | 5.497 | 5.545 | VV | 638 | 8217 | 0.28% | 0.114% |
| 49 | 5.563 | 5.545 | 5.588 | VV | 654 | 8386 | 0.29% | 0.116% |
| 50 | 5.619 | 5.588 | 5.674 | VV | 219 | 5302 | 0.18% | 0.073% |
| 51 | 5.711 | 5.674 | 5.734 | VV | 272 | 5617 | 0.19% | 0.078% |
| 52 | 5.743 | 5.734 | 5.764 | VV | 193 | 1359 | 0.05% | 0.019% |
| 53 | 5.814 | 5.764 | 5.848 | VV | 282 | 5432 | 0.19% | 0.075% |
| 54 | 5.873 | 5.848 | 5.973 | VV | 368 | 6563 | 0.23% | 0.091% |
| 55 | 5.985 | 5.973 | 6.018 | VV | 112 | 2259 | 0.08% | 0.031% |
| 56 | 6.026 | 6.018 | 6.058 | VV | 142 | 2832 | 0.10% | 0.039% |
| 57 | 6.080 | 6.058 | 6.104 | VV | 316 | 6140 | 0.21% | 0.085% |
| 58 | 6.122 | 6.104 | 6.148 | VV | 266 | 5158 | 0.18% | 0.072% |
| 59 | 6.166 | 6.148 | 6.198 | VV | 381 | 6437 | 0.22% | 0.089% |
| 60 | 6.223 | 6.198 | 6.274 | VV | 294 | 7818 | 0.27% | 0.108% |
| 61 | 6.283 | 6.274 | 6.332 | VV | 165 | 3788 | 0.13% | 0.053% |
| 62 | 6.393 | 6.332 | 6.411 | VV | 145 | 4170 | 0.14% | 0.058% |
| 63 | 6.427 | 6.411 | 6.461 | VV | 136 | 3031 | 0.10% | 0.042% |
| 64 | 6.507 | 6.461 | 6.570 | VV | 3013 | 38401 | 1.32% | 0.532% |
| 65 | 6.590 | 6.570 | 6.609 | VV | 324 | 3642 | 0.13% | 0.050% |
| 66 | 6.628 | 6.609 | 6.638 | VV | 199 | 2337 | 0.08% | 0.032% |
| 67 | 6.656 | 6.638 | 6.677 | VV | 475 | 6000 | 0.21% | 0.083% |
| 68 | 6.690 | 6.677 | 6.714 | VV | 188 | 2826 | 0.10% | 0.039% |
| 69 | 6.728 | 6.714 | 6.781 | VV | 255 | 3409 | 0.12% | 0.047% |
| 70 | 6.792 | 6.781 | 6.804 | VV | 51 | 317 | 0.01% | 0.004% |
| 71 | 6.827 | 6.804 | 6.854 | PV | 130 | 1446 | 0.05% | 0.020% |
| 72 | 6.878 | 6.854 | 6.898 | VV | 112 | 1694 | 0.06% | 0.023% |
| 73 | 6.909 | 6.898 | 6.937 | VV | 87 | 1622 | 0.06% | 0.022% |
| 74 | 6.950 | 6.937 | 6.966 | VV | 270 | 2971 | 0.10% | 0.041% |
| 75 | 6.976 | 6.966 | 6.985 | VV | 132 | 1268 | 0.04% | 0.018% |
| 76 | 7.005 | 6.985 | 7.038 | VV | 361 | 7841 | 0.27% | 0.109% |
| 77 | 7.052 | 7.038 | 7.094 | VV | 362 | 7476 | 0.26% | 0.104% |
| 78 | 7.131 | 7.094 | 7.158 | VV | 544 | 9714 | 0.33% | 0.135% |
| 79 | 7.166 | 7.158 | 7.201 | VV | 194 | 3953 | 0.14% | 0.055% |
| 80 | 7.237 | 7.201 | 7.264 | VV | 167 | 4410 | 0.15% | 0.061% |
| 81 | 7.293 | 7.264 | 7.327 | VV | 1166 | 14577 | 0.50% | 0.202% |
| 82 | 7.350 | 7.327 | 7.388 | VV | 239 | 6113 | 0.21% | 0.085% |
| 83 | 7.400 | 7.388 | 7.414 | VV | 239 | 3225 | 0.11% | 0.045% |
| 84 | 7.432 | 7.414 | 7.473 | VV | 1050 | 13916 | 0.48% | 0.193% |
| 85 | 7.499 | 7.473 | 7.510 | VV | 186 | 3425 | 0.12% | 0.047% |
| 86 | 7.528 | 7.510 | 7.574 | VV | 328 | 5866 | 0.20% | 0.081% |
| 87 | 7.591 | 7.574 | 7.626 | VV | 131 | 2723 | 0.09% | 0.038% |
| 88 | 7.645 | 7.626 | 7.668 | VV | 144 | 2451 | 0.08% | 0.034% |
| 89 | 7.696 | 7.668 | 7.725 | PV | 476 | 6469 | 0.22% | 0.090% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.783 | 7.725 | 7.798 | VV | 240 | 6094 | 0.21% | 0.084% |
| 91 | 7.841 | 7.798 | 7.854 | VV | 201 | 5162 | 0.18% | 0.072% |
| 92 | 7.865 | 7.854 | 7.881 | VV | 186 | 2229 | 0.08% | 0.031% |
| 93 | 7.893 | 7.881 | 7.903 | VV | 161 | 1557 | 0.05% | 0.022% |
| 94 | 7.914 | 7.903 | 7.938 | VV | 140 | 1618 | 0.06% | 0.022% |
| 95 | 7.954 | 7.938 | 7.981 | PV | 160 | 2386 | 0.08% | 0.033% |
| 96 | 8.001 | 7.981 | 8.028 | VV | 551 | 7092 | 0.24% | 0.098% |
| 97 | 8.057 | 8.028 | 8.113 | VV | 812 | 13239 | 0.45% | 0.184% |
| 98 | 8.156 | 8.113 | 8.164 | VV | 269 | 5525 | 0.19% | 0.077% |
| 99 | 8.175 | 8.164 | 8.184 | VV | 262 | 2640 | 0.09% | 0.037% |
| 100 | 8.211 | 8.184 | 8.255 | VV | 705 | 15579 | 0.53% | 0.216% |
| 101 | 8.264 | 8.255 | 8.282 | VV | 320 | 3923 | 0.13% | 0.054% |
| 102 | 8.306 | 8.282 | 8.388 | VV | 3069 | 42981 | 1.48% | 0.596% |
| 103 | 8.418 | 8.388 | 8.471 | VV | 380 | 13947 | 0.48% | 0.193% |
| 104 | 8.499 | 8.471 | 8.523 | VV | 283 | 5858 | 0.20% | 0.081% |
| 105 | 8.542 | 8.523 | 8.581 | VV | 285 | 5089 | 0.17% | 0.071% |
| 106 | 8.621 | 8.581 | 8.701 | VV | 2456 | 41310 | 1.42% | 0.573% |
| 107 | 8.708 | 8.701 | 8.750 | VV | 256 | 6340 | 0.22% | 0.088% |
| 108 | 8.806 | 8.750 | 8.831 | VV | 439 | 16920 | 0.58% | 0.235% |
| 109 | 8.847 | 8.831 | 8.888 | VV | 479 | 11402 | 0.39% | 0.158% |
| 110 | 8.910 | 8.888 | 8.943 | VV | 237 | 4357 | 0.15% | 0.060% |
| 111 | 8.962 | 8.943 | 8.981 | VV | 221 | 2853 | 0.10% | 0.040% |
| 112 | 9.027 | 8.981 | 9.054 | VV | 1361 | 23202 | 0.80% | 0.322% |
| 113 | 9.068 | 9.054 | 9.103 | VV | 512 | 11237 | 0.39% | 0.156% |
| 114 | 9.147 | 9.103 | 9.199 | VV | 978 | 25773 | 0.88% | 0.357% |
| 115 | 9.218 | 9.199 | 9.247 | VV | 360 | 5436 | 0.19% | 0.075% |
| 116 | 9.269 | 9.247 | 9.284 | VV | 277 | 3581 | 0.12% | 0.050% |
| 117 | 9.315 | 9.284 | 9.335 | VV | 255 | 4853 | 0.17% | 0.067% |
| 118 | 9.369 | 9.335 | 9.403 | VV | 291 | 8059 | 0.28% | 0.112% |
| 119 | 9.429 | 9.403 | 9.477 | VV | 406 | 9304 | 0.32% | 0.129% |
| 120 | 9.499 | 9.477 | 9.541 | VV | 664 | 12566 | 0.43% | 0.174% |
| 121 | 9.556 | 9.541 | 9.574 | VV | 359 | 4862 | 0.17% | 0.067% |
| 122 | 9.592 | 9.574 | 9.611 | VV | 252 | 4443 | 0.15% | 0.062% |
| 123 | 9.637 | 9.611 | 9.667 | VV | 365 | 8598 | 0.30% | 0.119% |
| 124 | 9.690 | 9.667 | 9.732 | VV | 905 | 12934 | 0.44% | 0.179% |
| 125 | 9.776 | 9.732 | 9.808 | VV | 157 | 4260 | 0.15% | 0.059% |
| 126 | 9.832 | 9.808 | 9.868 | VV | 378 | 6581 | 0.23% | 0.091% |
| 127 | 9.911 | 9.868 | 9.945 | VV | 1090 | 17121 | 0.59% | 0.237% |
| 128 | 9.993 | 9.945 | 10.034 | VV | 241 | 7718 | 0.26% | 0.107% |
| 129 | 10.077 | 10.034 | 10.111 | VV | 169 | 4439 | 0.15% | 0.062% |
| 130 | 10.128 | 10.111 | 10.174 | VV | 264 | 4272 | 0.15% | 0.059% |
| 131 | 10.185 | 10.174 | 10.205 | VV | 180 | 2147 | 0.07% | 0.030% |
| 132 | 10.241 | 10.205 | 10.278 | VV | 231 | 5780 | 0.20% | 0.080% |
| 133 | 10.304 | 10.278 | 10.321 | VV | 313 | 5668 | 0.19% | 0.079% |
| 134 | 10.347 | 10.321 | 10.367 | VV | 284 | 4859 | 0.17% | 0.067% |
| 135 | 10.391 | 10.367 | 10.438 | VV | 292 | 7542 | 0.26% | 0.105% |
| 136 | 10.463 | 10.438 | 10.487 | VV | 206 | 4823 | 0.17% | 0.067% |
| 137 | 10.554 | 10.487 | 10.610 | VV | 334 | 15479 | 0.53% | 0.215% |
| 138 | 10.652 | 10.610 | 10.687 | VV | 392 | 10913 | 0.37% | 0.151% |
| 139 | 10.746 | 10.687 | 10.818 | PV | 506 | 21477 | 0.74% | 0.298% |
| 140 | 10.847 | 10.818 | 10.881 | VV | 248 | 7169 | 0.25% | 0.099% |
| 141 | 10.896 | 10.881 | 10.922 | VV | 207 | 4222 | 0.14% | 0.059% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.931 | 10.922 | 10.963 | VV | 188 | 3861 | 0.13% | 0.054% |
| 143 | 10.978 | 10.963 | 11.001 | VV | 240 | 3857 | 0.13% | 0.053% |
| 144 | 11.021 | 11.001 | 11.053 | VV | 295 | 5928 | 0.20% | 0.082% |
| 145 | 11.078 | 11.053 | 11.094 | VV | 228 | 4428 | 0.15% | 0.061% |
| 146 | 11.106 | 11.094 | 11.137 | VV | 116 | 2375 | 0.08% | 0.033% |
| 147 | 11.157 | 11.137 | 11.184 | VV | 238 | 3433 | 0.12% | 0.048% |
| 148 | 11.194 | 11.184 | 11.243 | PV | 98 | 1998 | 0.07% | 0.028% |
| 149 | 11.285 | 11.243 | 11.331 | VV | 3076 | 45823 | 1.57% | 0.635% |
| 150 | 11.357 | 11.331 | 11.388 | VV | 1793 | 26236 | 0.90% | 0.364% |
| 151 | 11.394 | 11.388 | 11.421 | VV | 184 | 2617 | 0.09% | 0.036% |
| 152 | 11.451 | 11.421 | 11.492 | VV | 999 | 14791 | 0.51% | 0.205% |
| 153 | 11.524 | 11.492 | 11.571 | VV | 104 | 2872 | 0.10% | 0.040% |
| 154 | 11.594 | 11.571 | 11.605 | VV | 158 | 2211 | 0.08% | 0.031% |
| 155 | 11.636 | 11.605 | 11.655 | VV | 253 | 4355 | 0.15% | 0.060% |
| 156 | 11.666 | 11.655 | 11.674 | VV | 225 | 2023 | 0.07% | 0.028% |
| 157 | 11.678 | 11.674 | 11.731 | VV | 209 | 5072 | 0.17% | 0.070% |
| 158 | 11.768 | 11.731 | 11.788 | VV | 308 | 6980 | 0.24% | 0.097% |
| 159 | 11.813 | 11.788 | 11.827 | VV | 296 | 5182 | 0.18% | 0.072% |
| 160 | 11.843 | 11.827 | 11.914 | VV | 289 | 7770 | 0.27% | 0.108% |
| 161 | 11.926 | 11.914 | 11.944 | VV | 107 | 1856 | 0.06% | 0.026% |
| 162 | 11.979 | 11.944 | 11.988 | VV | 223 | 4582 | 0.16% | 0.064% |
| 163 | 12.024 | 11.988 | 12.048 | VV | 438 | 10755 | 0.37% | 0.149% |
| 164 | 12.072 | 12.048 | 12.101 | VV | 219 | 4904 | 0.17% | 0.068% |
| 165 | 12.158 | 12.101 | 12.175 | VV | 174 | 5467 | 0.19% | 0.076% |
| 166 | 12.185 | 12.175 | 12.211 | VV | 179 | 2537 | 0.09% | 0.035% |
| 167 | 12.254 | 12.211 | 12.281 | VV | 342 | 8544 | 0.29% | 0.118% |
| 168 | 12.301 | 12.281 | 12.326 | VV | 269 | 5343 | 0.18% | 0.074% |
| 169 | 12.335 | 12.326 | 12.344 | VV | 202 | 1832 | 0.06% | 0.025% |
| 170 | 12.358 | 12.344 | 12.376 | VV | 247 | 3036 | 0.10% | 0.042% |
| 171 | 12.399 | 12.376 | 12.420 | VV | 357 | 5420 | 0.19% | 0.075% |
| 172 | 12.475 | 12.420 | 12.501 | VV | 307 | 11209 | 0.38% | 0.155% |
| 173 | 12.529 | 12.501 | 12.574 | VV | 479 | 9577 | 0.33% | 0.133% |
| 174 | 12.606 | 12.574 | 12.640 | VV | 622 | 9934 | 0.34% | 0.138% |
| 175 | 12.666 | 12.640 | 12.768 | VV | 1257 | 24253 | 0.83% | 0.336% |
| 176 | 12.786 | 12.768 | 12.813 | VV | 432 | 6699 | 0.23% | 0.093% |
| 177 | 12.851 | 12.813 | 12.900 | VV | 129 | 3854 | 0.13% | 0.053% |
| 178 | 12.937 | 12.900 | 12.985 | VV | 162 | 4657 | 0.16% | 0.065% |
| 179 | 12.995 | 12.985 | 13.004 | VV | 114 | 861 | 0.03% | 0.012% |
| 180 | 13.034 | 13.004 | 13.045 | PV | 163 | 1761 | 0.06% | 0.024% |
| 181 | 13.115 | 13.045 | 13.158 | VV | 239763 | 2913170 | 100.00% | 40.384% |
| 182 | 13.164 | 13.158 | 13.173 | VV | 321 | 2776 | 0.10% | 0.038% |
| 183 | 13.184 | 13.173 | 13.204 | VV | 11663 | 28015 | 0.96% | 0.388% |
| 184 | 13.220 | 13.204 | 13.254 | VV | 234 | 4535 | 0.16% | 0.063% |
| 185 | 13.281 | 13.254 | 13.314 | VV | 400 | 9437 | 0.32% | 0.131% |
| 186 | 13.331 | 13.314 | 13.369 | VV | 360 | 6536 | 0.22% | 0.091% |
| 187 | 13.387 | 13.369 | 13.431 | VV | 257 | 5611 | 0.19% | 0.078% |
| 188 | 13.452 | 13.431 | 13.528 | VV | 244 | 8075 | 0.28% | 0.112% |
| 189 | 13.559 | 13.528 | 13.591 | VV | 284 | 7218 | 0.25% | 0.100% |
| 190 | 13.627 | 13.591 | 13.639 | VV | 162 | 3781 | 0.13% | 0.052% |
| 191 | 13.666 | 13.639 | 13.691 | VV | 286 | 5644 | 0.19% | 0.078% |
| 192 | 13.727 | 13.691 | 13.762 | VV | 301 | 7726 | 0.27% | 0.107% |
| 193 | 13.817 | 13.762 | 13.841 | VV | 647 | 12472 | 0.43% | 0.173% |
| 194 | 13.868 | 13.841 | 13.901 | VV | 1303 | 20201 | 0.69% | 0.280% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.924 | 13.901 | 14.003 | VV | 346 | 10370 | 0.36% | 0.144% |
| 196 | 14.020 | 14.003 | 14.048 | VV | 201 | 4244 | 0.15% | 0.059% |
| 197 | 14.098 | 14.048 | 14.123 | VV | 426 | 10670 | 0.37% | 0.148% |
| 198 | 14.159 | 14.123 | 14.176 | VV | 275 | 6731 | 0.23% | 0.093% |
| 199 | 14.192 | 14.176 | 14.224 | VV | 318 | 6673 | 0.23% | 0.093% |
| 200 | 14.242 | 14.224 | 14.250 | VV | 333 | 4268 | 0.15% | 0.059% |
| 201 | 14.305 | 14.250 | 14.364 | VV | 1084 | 34603 | 1.19% | 0.480% |
| 202 | 14.385 | 14.364 | 14.408 | VV | 770 | 12836 | 0.44% | 0.178% |
| 203 | 14.432 | 14.408 | 14.451 | VV | 685 | 12084 | 0.41% | 0.168% |
| 204 | 14.500 | 14.451 | 14.514 | VV | 512 | 15173 | 0.52% | 0.210% |
| 205 | 14.528 | 14.514 | 14.538 | VV | 449 | 6055 | 0.21% | 0.084% |
| 206 | 14.561 | 14.538 | 14.604 | VV | 556 | 19287 | 0.66% | 0.267% |
| 207 | 14.625 | 14.604 | 14.650 | VV | 465 | 10782 | 0.37% | 0.149% |
| 208 | 14.693 | 14.650 | 14.746 | VV | 860 | 29441 | 1.01% | 0.408% |
| 209 | 14.796 | 14.746 | 14.821 | VV | 554 | 20313 | 0.70% | 0.282% |
| 210 | 14.831 | 14.821 | 14.888 | VV | 455 | 17304 | 0.59% | 0.240% |
| 211 | 14.926 | 14.888 | 14.948 | VV | 822 | 22621 | 0.78% | 0.314% |
| 212 | 14.972 | 14.948 | 15.035 | VV | 1520 | 38826 | 1.33% | 0.538% |
| 213 | 15.041 | 15.035 | 15.054 | VV | 442 | 4923 | 0.17% | 0.068% |
| 214 | 15.064 | 15.054 | 15.091 | VV | 489 | 9055 | 0.31% | 0.126% |
| 215 | 15.129 | 15.091 | 15.204 | VV | 594 | 32400 | 1.11% | 0.449% |
| 216 | 15.222 | 15.204 | 15.247 | VV | 454 | 9044 | 0.31% | 0.125% |
| 217 | 15.258 | 15.247 | 15.271 | VV | 412 | 4917 | 0.17% | 0.068% |
| 218 | 15.307 | 15.271 | 15.328 | VV | 603 | 16098 | 0.55% | 0.223% |
| 219 | 15.343 | 15.328 | 15.368 | VV | 422 | 8823 | 0.30% | 0.122% |
| 220 | 15.397 | 15.368 | 15.428 | VV | 625 | 16760 | 0.58% | 0.232% |
| 221 | 15.441 | 15.428 | 15.473 | VV | 450 | 9655 | 0.33% | 0.134% |
| 222 | 15.492 | 15.473 | 15.534 | VV | 752 | 17543 | 0.60% | 0.243% |
| 223 | 15.548 | 15.534 | 15.568 | VV | 378 | 5962 | 0.20% | 0.083% |
| 224 | 15.579 | 15.568 | 15.591 | VV | 383 | 4157 | 0.14% | 0.058% |
| 225 | 15.641 | 15.591 | 15.660 | VV | 462 | 13662 | 0.47% | 0.189% |
| 226 | 15.674 | 15.660 | 15.689 | VV | 344 | 5092 | 0.17% | 0.071% |
| 227 | 15.720 | 15.689 | 15.741 | VV | 425 | 9537 | 0.33% | 0.132% |
| 228 | 15.767 | 15.741 | 15.795 | VV | 460 | 10881 | 0.37% | 0.151% |
| 229 | 15.819 | 15.795 | 15.843 | VV | 354 | 9036 | 0.31% | 0.125% |
| 230 | 15.859 | 15.843 | 15.876 | VV | 339 | 5654 | 0.19% | 0.078% |
| 231 | 15.923 | 15.876 | 15.938 | VV | 477 | 10966 | 0.38% | 0.152% |
| 232 | 15.956 | 15.938 | 15.971 | VV | 519 | 7754 | 0.27% | 0.107% |
| 233 | 15.996 | 15.971 | 16.022 | VV | 1056 | 17893 | 0.61% | 0.248% |
| 234 | 16.037 | 16.022 | 16.071 | VV | 230 | 4888 | 0.17% | 0.068% |
| 235 | 16.128 | 16.071 | 16.159 | VV | 3515 | 13449 | 0.46% | 0.186% |
| 236 | 16.211 | 16.159 | 16.238 | VV | 345 | 10410 | 0.36% | 0.144% |
| 237 | 16.272 | 16.238 | 16.291 | PV | 196 | 3725 | 0.13% | 0.052% |
| 238 | 16.301 | 16.291 | 16.316 | VV | 304 | 2672 | 0.09% | 0.037% |
| 239 | 16.365 | 16.316 | 16.431 | VV | 232 | 9364 | 0.32% | 0.130% |
| 240 | 16.479 | 16.431 | 16.505 | VV | 752 | 14593 | 0.50% | 0.202% |
| 241 | 16.514 | 16.505 | 16.560 | VV | 251 | 4901 | 0.17% | 0.068% |
| 242 | 16.645 | 16.560 | 16.712 | VV | 473 | 21732 | 0.75% | 0.301% |
| 243 | 16.724 | 16.712 | 16.734 | VV | 102 | 1280 | 0.04% | 0.018% |
| 244 | 16.762 | 16.734 | 16.778 | VV | 173 | 3058 | 0.10% | 0.042% |
| 245 | 16.837 | 16.778 | 16.852 | VV | 266 | 7513 | 0.26% | 0.104% |
| 246 | 16.947 | 16.852 | 16.970 | VV | 1182 | 31699 | 1.09% | 0.439% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 16.981 | 16.970 | 17.028 | VV | 465 | 9938 | 0.34% | 0.138% |
| 248 | 17.045 | 17.028 | 17.117 | VV | 233 | 8108 | 0.28% | 0.112% |
| 249 | 17.202 | 17.117 | 17.242 | VV | 692 | 21546 | 0.74% | 0.299% |
| 250 | 17.271 | 17.242 | 17.318 | VV | 635 | 16673 | 0.57% | 0.231% |
| 251 | 17.343 | 17.318 | 17.354 | VV | 470 | 8197 | 0.28% | 0.114% |
| 252 | 17.375 | 17.354 | 17.385 | VV | 855 | 12188 | 0.42% | 0.169% |
| 253 | 17.398 | 17.385 | 17.467 | VV | 889 | 20726 | 0.71% | 0.287% |
| 254 | 17.521 | 17.467 | 17.554 | VV | 689 | 20451 | 0.70% | 0.284% |
| 255 | 17.573 | 17.554 | 17.604 | VV | 392 | 8258 | 0.28% | 0.114% |
| 256 | 17.617 | 17.604 | 17.658 | VV | 297 | 6337 | 0.22% | 0.088% |
| 257 | 17.700 | 17.658 | 17.720 | VV | 352 | 8574 | 0.29% | 0.119% |
| 258 | 17.753 | 17.720 | 17.768 | VV | 345 | 6083 | 0.21% | 0.084% |
| 259 | 17.789 | 17.768 | 17.807 | VV | 501 | 8610 | 0.30% | 0.119% |
| 260 | 17.837 | 17.807 | 17.864 | VV | 1497 | 24442 | 0.84% | 0.339% |
| 261 | 17.890 | 17.864 | 17.924 | VV | 477 | 11017 | 0.38% | 0.153% |
| 262 | 17.992 | 17.924 | 18.079 | VV | 1294 | 40644 | 1.40% | 0.563% |
| 263 | 18.089 | 18.079 | 18.095 | VV | 198 | 1426 | 0.05% | 0.020% |
| 264 | 18.102 | 18.095 | 18.136 | VV | 189 | 3783 | 0.13% | 0.052% |
| 265 | 18.162 | 18.136 | 18.175 | VV | 280 | 4163 | 0.14% | 0.058% |
| 266 | 18.194 | 18.175 | 18.208 | VV | 404 | 6197 | 0.21% | 0.086% |
| 267 | 18.217 | 18.208 | 18.241 | VV | 392 | 5656 | 0.19% | 0.078% |
| 268 | 18.262 | 18.241 | 18.287 | VV | 1026 | 14686 | 0.50% | 0.204% |
| 269 | 18.322 | 18.287 | 18.344 | VV | 403 | 9391 | 0.32% | 0.130% |
| 270 | 18.362 | 18.344 | 18.384 | VV | 898 | 14140 | 0.49% | 0.196% |
| 271 | 18.390 | 18.384 | 18.459 | VV | 345 | 7203 | 0.25% | 0.100% |
| 272 | 18.513 | 18.459 | 18.571 | PV | 398 | 13414 | 0.46% | 0.186% |
| 273 | 18.613 | 18.571 | 18.634 | VV | 238 | 5967 | 0.20% | 0.083% |
| 274 | 18.670 | 18.634 | 18.716 | VV | 1370 | 25677 | 0.88% | 0.356% |
| 275 | 18.728 | 18.716 | 18.747 | VV | 128 | 1523 | 0.05% | 0.021% |
| 276 | 18.785 | 18.747 | 18.804 | VV | 423 | 6827 | 0.23% | 0.095% |
| 277 | 18.831 | 18.804 | 18.852 | VV | 464 | 8350 | 0.29% | 0.116% |
| 278 | 18.864 | 18.852 | 18.886 | VV | 307 | 4561 | 0.16% | 0.063% |
| 279 | 18.927 | 18.886 | 18.951 | VV | 282 | 8210 | 0.28% | 0.114% |
| 280 | 18.962 | 18.951 | 18.991 | VV | 303 | 5021 | 0.17% | 0.070% |
| 281 | 19.000 | 18.991 | 19.022 | VV | 190 | 3368 | 0.12% | 0.047% |
| 282 | 19.069 | 19.022 | 19.091 | VV | 1074 | 21013 | 0.72% | 0.291% |
| 283 | 19.112 | 19.091 | 19.151 | VV | 642 | 17650 | 0.61% | 0.245% |
| 284 | 19.183 | 19.151 | 19.222 | VV | 662 | 20169 | 0.69% | 0.280% |
| 285 | 19.246 | 19.222 | 19.261 | VV | 469 | 8443 | 0.29% | 0.117% |
| 286 | 19.273 | 19.261 | 19.354 | VV | 432 | 18036 | 0.62% | 0.250% |
| 287 | 19.388 | 19.354 | 19.420 | VV | 454 | 13941 | 0.48% | 0.193% |
| 288 | 19.457 | 19.420 | 19.491 | VV | 1378 | 30706 | 1.05% | 0.426% |
| 289 | 19.496 | 19.491 | 19.537 | VV | 520 | 10680 | 0.37% | 0.148% |
| 290 | 19.615 | 19.537 | 19.624 | VV | 518 | 22855 | 0.78% | 0.317% |
| 291 | 19.663 | 19.624 | 19.673 | VV | 620 | 16397 | 0.56% | 0.227% |
| 292 | 19.738 | 19.673 | 19.791 | VV | 933 | 53200 | 1.83% | 0.737% |
| 293 | 19.831 | 19.791 | 19.858 | VV | 1213 | 35543 | 1.22% | 0.493% |
| 294 | 19.889 | 19.858 | 19.898 | VV | 758 | 17186 | 0.59% | 0.238% |
| 295 | 20.026 | 19.898 | 20.043 | VV | 1108 | 83522 | 2.87% | 1.158% |
| 296 | 20.084 | 20.043 | 20.094 | VV | 1174 | 34312 | 1.18% | 0.476% |
| 297 | 20.116 | 20.094 | 20.128 | VV | 1231 | 23798 | 0.82% | 0.330% |
| 298 | 20.136 | 20.128 | 20.148 | VV | 1140 | 13427 | 0.46% | 0.186% |
| 299 | 20.200 | 20.148 | 20.224 | VV | 2234 | 71300 | 2.45% | 0.988% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 20.251 | 20.224 | 20.315 | VV | 1693 | 85825 | 2.95% | 1.190% |
| 301 | 20.370 | 20.315 | 20.414 | VV | 1686 | 96377 | 3.31% | 1.336% |
| 302 | 20.424 | 20.414 | 20.438 | VV | 1726 | 22858 | 0.78% | 0.317% |
| 303 | 20.479 | 20.438 | 20.514 | VV | 1745 | 77431 | 2.66% | 1.073% |
| 304 | 20.563 | 20.514 | 20.624 | VV | 1930 | 110077 | 3.78% | 1.526% |
| 305 | 20.761 | 20.624 | 20.898 | VV | 2196 | 289999 | 9.95% | 4.020% |
| 306 | 20.908 | 20.898 | 20.924 | VV | 1445 | 21274 | 0.73% | 0.295% |
| 307 | 20.964 | 20.924 | 21.009 | VV | 2256 | 84964 | 2.92% | 1.178% |
| 308 | 21.022 | 21.009 | 21.034 | VV | 1383 | 20878 | 0.72% | 0.289% |
| 309 | 21.044 | 21.034 | 21.104 | VV | 1428 | 54099 | 1.86% | 0.750% |
| 310 | 21.125 | 21.104 | 21.148 | VV | 1247 | 31083 | 1.07% | 0.431% |
| 311 | 21.161 | 21.148 | 21.179 | VV | 1211 | 21673 | 0.74% | 0.300% |
| 312 | 21.188 | 21.179 | 21.245 | VV | 1147 | 42225 | 1.45% | 0.585% |
| 313 | 21.266 | 21.245 | 21.287 | VV | 1018 | 24105 | 0.83% | 0.334% |
| 314 | 21.339 | 21.287 | 21.348 | VV | 1027 | 35586 | 1.22% | 0.493% |
| 315 | 21.362 | 21.348 | 21.384 | VV | 1054 | 20438 | 0.70% | 0.283% |
| 316 | 21.419 | 21.384 | 21.461 | VV | 1075 | 44219 | 1.52% | 0.613% |
| 317 | 21.511 | 21.461 | 21.579 | VV | 954 | 62224 | 2.14% | 0.863% |
| 318 | 21.589 | 21.579 | 21.603 | VV | 809 | 11058 | 0.38% | 0.153% |
| 319 | 21.619 | 21.603 | 21.676 | VV | 802 | 29818 | 1.02% | 0.413% |
| 320 | 21.681 | 21.676 | 21.694 | VV | 629 | 6446 | 0.22% | 0.089% |
| 321 | 21.706 | 21.694 | 21.718 | VV | 633 | 7995 | 0.27% | 0.111% |
| 322 | 21.724 | 21.718 | 21.761 | VV | 734 | 15292 | 0.52% | 0.212% |
| 323 | 21.805 | 21.761 | 21.846 | VV | 649 | 29584 | 1.02% | 0.410% |
| 324 | 21.901 | 21.846 | 21.987 | VV | 4085 | 72339 | 2.48% | 1.003% |
| 325 | 21.999 | 21.987 | 22.044 | VV | 541 | 15588 | 0.54% | 0.216% |
| 326 | 22.067 | 22.044 | 22.118 | VV | 391 | 14809 | 0.51% | 0.205% |
| 327 | 22.130 | 22.118 | 22.158 | VV | 296 | 6372 | 0.22% | 0.088% |
| 328 | 22.262 | 22.158 | 22.270 | VV | 665 | 27659 | 0.95% | 0.383% |
| 329 | 22.292 | 22.270 | 22.411 | VV | 814 | 44378 | 1.52% | 0.615% |
| 330 | 22.421 | 22.411 | 22.491 | VV | 211 | 3482 | 0.12% | 0.048% |

Sum of corrected areas: 7213602

Aliphatic EPH 052425.M Fri Jun 13 03:35:19 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061225AR\
Data File : FD049459.D
Signal(s) : FID2B.ch
Acq On : 12 Jun 2025 13:40
Operator : YP/AJ
Sample : Q2177-06
Misc :
ALS Vial : 62 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
B-202-SB01

Integration File: autoint1.e
Quant Time: Jun 13 04:14:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| **System Monitoring Compounds** | | | |
| 4) S 2-Bromonaphthalene (S... | 7.733 | 6787663 | 40.832 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 81.66% |
| 6) S 2-Flurobiphenyl (SURR) | 8.599 | 4648646 | 40.636 ug/ml |
| Spiked Amount 50.000 | Range 0 - 131 | Recovery = | 81.27% |
| 11) S ortho-Terphenyl (SURR) | 11.646 | 7498843 | 37.360 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 74.72% |
| **Target Compounds** | | | |

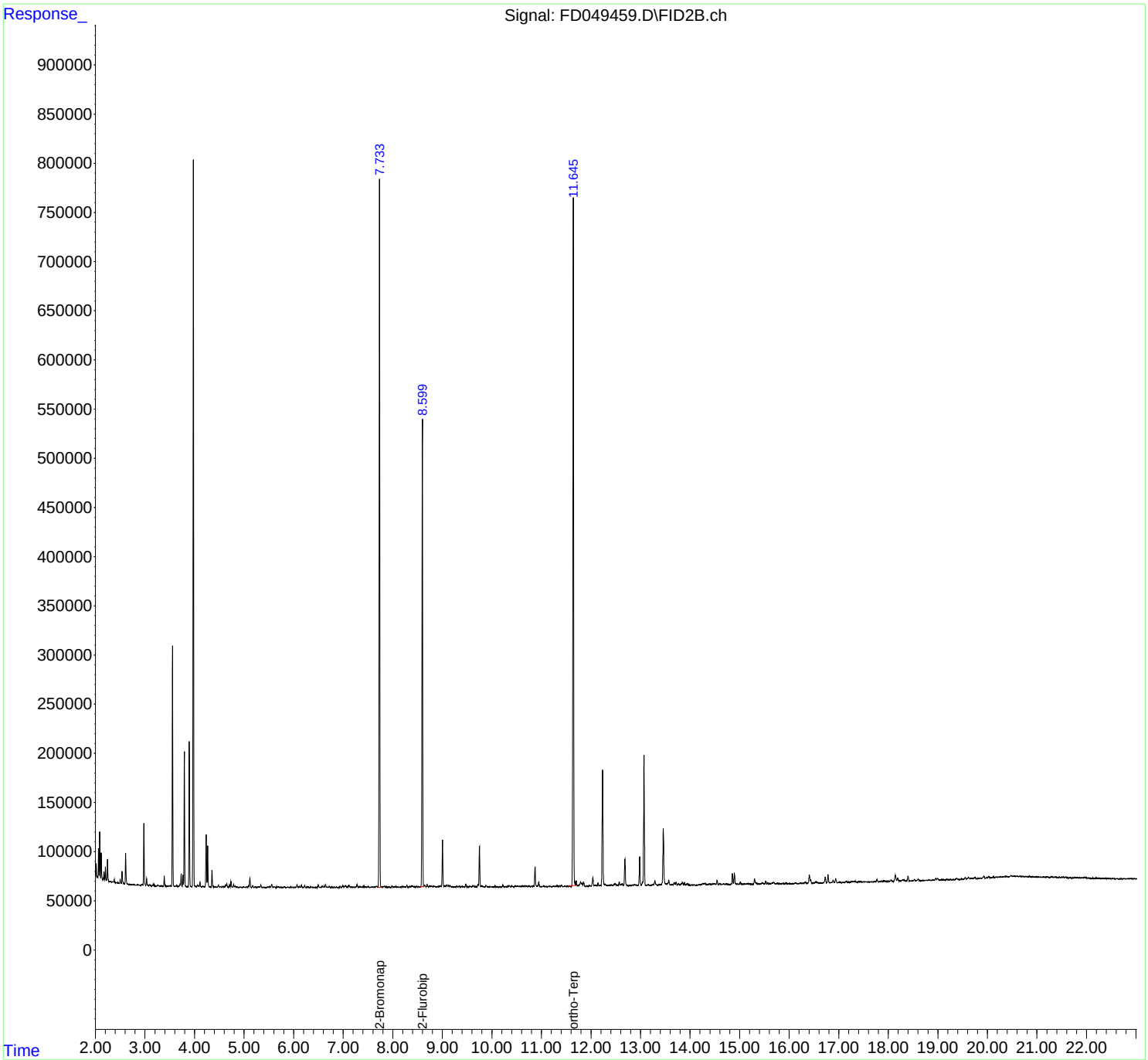
(f)=RT Delta > 1/2 Window (m)=manual int.

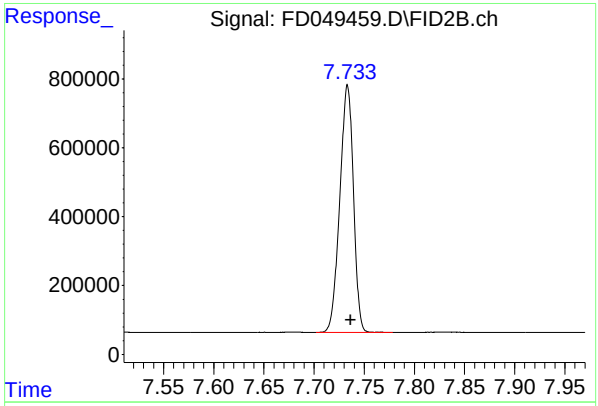
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061225AR\
Data File : FD049459.D
Signal(s) : FID2B.ch
Acq On : 12 Jun 2025 13:40
Operator : YP/AJ
Sample : Q2177-06
Misc :
ALS Vial : 62 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
B-202-SB01

Integration File: autoint1.e
Quant Time: Jun 13 04:14:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

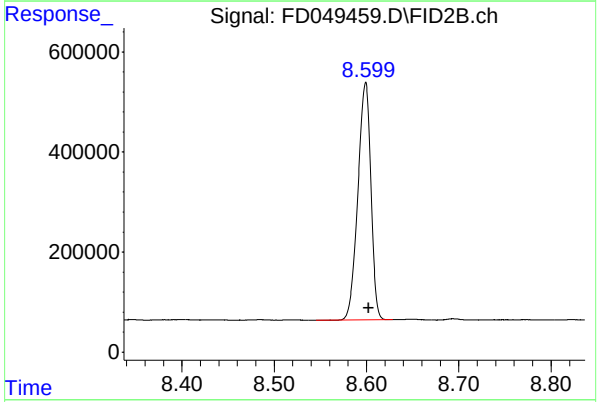





#4 2-Bromonaphthalene (SURR)

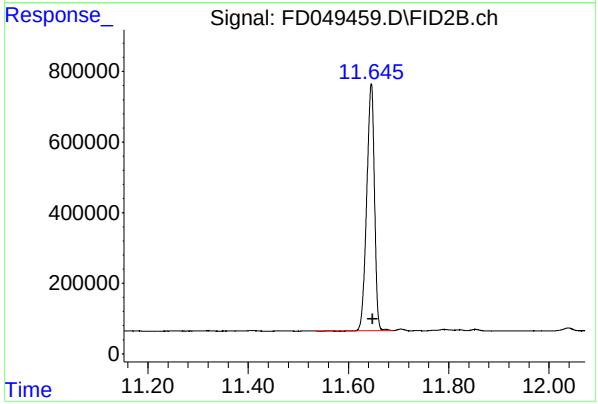
R.T.: 7.733 min
Delta R.T.: -0.003 min
Response: 6787663
Conc: 40.83 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
B-202-SB01




#6 2-Flurobiphenyl (SURR)

R.T.: 8.599 min
Delta R.T.: -0.003 min
Response: 4648646
Conc: 40.64 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.646 min
Delta R.T.: -0.003 min
Response: 7498843
Conc: 37.36 ug/ml

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061225AR\
Data File : FD049459.D
Signal(s) : FID2B.ch
Acq On : 12 Jun 2025 13:40
Sample : Q2177-06
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.265 | 4.252 | 4.307 | PH | 41913 | 360561 | 4.79% | 1.122% |
| 2 | 4.325 | 4.317 | 4.332 | VV | 302 | 1703 | 0.02% | 0.005% |
| 3 | 4.353 | 4.332 | 4.409 | VV | 17166 | 149372 | 1.98% | 0.465% |
| 4 | 4.426 | 4.409 | 4.448 | VV | 417 | 5353 | 0.07% | 0.017% |
| 5 | 4.482 | 4.459 | 4.506 | PV | 2610 | 26146 | 0.35% | 0.081% |
| 6 | 4.526 | 4.506 | 4.546 | VV | 796 | 10362 | 0.14% | 0.032% |
| 7 | 4.567 | 4.546 | 4.585 | VV | 784 | 11758 | 0.16% | 0.037% |
| 8 | 4.596 | 4.585 | 4.611 | VV | 915 | 7706 | 0.10% | 0.024% |
| 9 | 4.627 | 4.611 | 4.638 | VV | 2665 | 24574 | 0.33% | 0.076% |
| 10 | 4.650 | 4.638 | 4.675 | VV | 3889 | 38572 | 0.51% | 0.120% |
| 11 | 4.684 | 4.675 | 4.688 | VV | 416 | 2188 | 0.03% | 0.007% |
| 12 | 4.706 | 4.688 | 4.719 | VV | 2875 | 27712 | 0.37% | 0.086% |
| 13 | 4.736 | 4.719 | 4.764 | VV | 6122 | 59868 | 0.80% | 0.186% |
| 14 | 4.788 | 4.764 | 4.805 | VV | 3478 | 33253 | 0.44% | 0.103% |
| 15 | 4.817 | 4.805 | 4.838 | VV | 1627 | 17539 | 0.23% | 0.055% |
| 16 | 4.855 | 4.838 | 4.878 | VV | 633 | 8075 | 0.11% | 0.025% |
| 17 | 4.899 | 4.892 | 4.906 | VV | 300 | 1577 | 0.02% | 0.005% |
| 18 | 4.925 | 4.906 | 4.947 | VV | 579 | 7477 | 0.10% | 0.023% |
| 19 | 4.950 | 4.947 | 4.966 | VV | 232 | 1777 | 0.02% | 0.006% |
| 20 | 4.993 | 4.966 | 5.001 | VV | 432 | 6282 | 0.08% | 0.020% |
| 21 | 5.005 | 5.001 | 5.017 | VV | 426 | 2880 | 0.04% | 0.009% |
| 22 | 5.020 | 5.017 | 5.025 | VV | 242 | 1034 | 0.01% | 0.003% |
| 23 | 5.042 | 5.025 | 5.056 | VV | 747 | 7884 | 0.10% | 0.025% |
| 24 | 5.091 | 5.056 | 5.100 | VV | 2231 | 24935 | 0.33% | 0.078% |
| 25 | 5.117 | 5.100 | 5.149 | VV | 9386 | 102126 | 1.36% | 0.318% |
| 26 | 5.174 | 5.149 | 5.197 | VV | 1895 | 23588 | 0.31% | 0.073% |
| 27 | 5.221 | 5.197 | 5.251 | VV | 821 | 13148 | 0.17% | 0.041% |
| 28 | 5.258 | 5.251 | 5.267 | VV | 245 | 1572 | 0.02% | 0.005% |
| 29 | 5.292 | 5.267 | 5.297 | VV | 496 | 6251 | 0.08% | 0.019% |
| 30 | 5.307 | 5.297 | 5.322 | VV | 702 | 7779 | 0.10% | 0.024% |
| 31 | 5.338 | 5.322 | 5.386 | VV | 3107 | 34895 | 0.46% | 0.109% |
| 32 | 5.394 | 5.386 | 5.425 | VV | 274 | 2686 | 0.04% | 0.008% |
| 33 | 5.439 | 5.433 | 5.455 | VV | 230 | 1176 | 0.02% | 0.004% |
| 34 | 5.480 | 5.455 | 5.501 | VV | 600 | 7870 | 0.10% | 0.024% |
| 35 | 5.518 | 5.501 | 5.535 | PV | 1520 | 13253 | 0.18% | 0.041% |
| 36 | 5.559 | 5.535 | 5.583 | VV | 3340 | 41436 | 0.55% | 0.129% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.594 | 5.583 | 5.600 | VV | 490 | 4511 | 0.06% | 0.014% |
| 38 | 5.618 | 5.600 | 5.635 | VV | 933 | 11918 | 0.16% | 0.037% |
| 39 | 5.643 | 5.635 | 5.663 | VV | 492 | 5544 | 0.07% | 0.017% |
| 40 | 5.677 | 5.663 | 5.759 | VV | 607 | 20982 | 0.28% | 0.065% |
| 41 | 5.763 | 5.759 | 5.787 | VV | 301 | 2801 | 0.04% | 0.009% |
| 42 | 5.810 | 5.787 | 5.837 | PV | 693 | 10084 | 0.13% | 0.031% |
| 43 | 5.860 | 5.837 | 5.870 | VV | 388 | 4883 | 0.06% | 0.015% |
| 44 | 5.873 | 5.870 | 5.897 | VV | 451 | 4697 | 0.06% | 0.015% |
| 45 | 5.902 | 5.897 | 5.922 | VV | 368 | 3198 | 0.04% | 0.010% |
| 46 | 5.943 | 5.922 | 5.950 | VV | 492 | 4859 | 0.06% | 0.015% |
| 47 | 5.953 | 5.950 | 5.972 | VV | 405 | 3929 | 0.05% | 0.012% |
| 48 | 5.980 | 5.972 | 5.989 | VV | 331 | 2662 | 0.04% | 0.008% |
| 49 | 6.008 | 5.989 | 6.014 | VV | 497 | 4832 | 0.06% | 0.015% |
| 50 | 6.020 | 6.014 | 6.032 | VV | 331 | 3040 | 0.04% | 0.009% |
| 51 | 6.069 | 6.032 | 6.092 | VV | 3112 | 39261 | 0.52% | 0.122% |
| 52 | 6.113 | 6.092 | 6.138 | VV | 1034 | 17060 | 0.23% | 0.053% |
| 53 | 6.156 | 6.138 | 6.189 | VV | 2435 | 30360 | 0.40% | 0.094% |
| 54 | 6.221 | 6.189 | 6.258 | VV | 1349 | 23826 | 0.32% | 0.074% |
| 55 | 6.275 | 6.258 | 6.282 | VV | 705 | 6976 | 0.09% | 0.022% |
| 56 | 6.287 | 6.282 | 6.317 | VV | 886 | 9671 | 0.13% | 0.030% |
| 57 | 6.321 | 6.317 | 6.326 | VV | 248 | 1128 | 0.01% | 0.004% |
| 58 | 6.345 | 6.326 | 6.373 | VV | 762 | 12015 | 0.16% | 0.037% |
| 59 | 6.379 | 6.373 | 6.389 | VV | 320 | 1549 | 0.02% | 0.005% |
| 60 | 6.448 | 6.432 | 6.469 | VV | 427 | 5945 | 0.08% | 0.019% |
| 61 | 6.496 | 6.473 | 6.521 | VV | 3213 | 36202 | 0.48% | 0.113% |
| 62 | 6.539 | 6.521 | 6.544 | VV | 371 | 3298 | 0.04% | 0.010% |
| 63 | 6.578 | 6.544 | 6.599 | VV | 1189 | 21388 | 0.28% | 0.067% |
| 64 | 6.617 | 6.599 | 6.630 | VV | 1444 | 15484 | 0.21% | 0.048% |
| 65 | 6.645 | 6.630 | 6.664 | VV | 2862 | 29883 | 0.40% | 0.093% |
| 66 | 6.680 | 6.664 | 6.700 | VV | 655 | 8070 | 0.11% | 0.025% |
| 67 | 6.717 | 6.700 | 6.745 | VV | 1559 | 16230 | 0.22% | 0.051% |
| 68 | 6.769 | 6.745 | 6.790 | VV | 458 | 7660 | 0.10% | 0.024% |
| 69 | 6.796 | 6.790 | 6.803 | VV | 304 | 1880 | 0.02% | 0.006% |
| 70 | 6.826 | 6.803 | 6.849 | VV | 522 | 7842 | 0.10% | 0.024% |
| 71 | 6.854 | 6.849 | 6.859 | VV | 439 | 1837 | 0.02% | 0.006% |
| 72 | 6.863 | 6.859 | 6.885 | VV | 502 | 4310 | 0.06% | 0.013% |
| 73 | 6.890 | 6.885 | 6.909 | VV | 312 | 2201 | 0.03% | 0.007% |
| 74 | 6.937 | 6.922 | 6.957 | PV | 1042 | 11317 | 0.15% | 0.035% |
| 75 | 6.991 | 6.957 | 7.018 | VV | 1765 | 33036 | 0.44% | 0.103% |
| 76 | 7.039 | 7.018 | 7.087 | VV | 1803 | 43303 | 0.58% | 0.135% |
| 77 | 7.118 | 7.087 | 7.144 | VV | 2682 | 41483 | 0.55% | 0.129% |
| 78 | 7.148 | 7.144 | 7.157 | VV | 615 | 3954 | 0.05% | 0.012% |
| 79 | 7.173 | 7.157 | 7.215 | VV | 924 | 16518 | 0.22% | 0.051% |
| 80 | 7.223 | 7.215 | 7.243 | VV | 394 | 4230 | 0.06% | 0.013% |
| 81 | 7.279 | 7.243 | 7.312 | VV | 3248 | 45846 | 0.61% | 0.143% |
| 82 | 7.337 | 7.312 | 7.372 | VV | 904 | 18441 | 0.24% | 0.057% |
| 83 | 7.385 | 7.372 | 7.398 | VV | 865 | 9458 | 0.13% | 0.029% |
| 84 | 7.417 | 7.398 | 7.438 | VV | 1603 | 20433 | 0.27% | 0.064% |
| 85 | 7.454 | 7.438 | 7.469 | VV | 521 | 7022 | 0.09% | 0.022% |
| 86 | 7.485 | 7.469 | 7.492 | VV | 608 | 7006 | 0.09% | 0.022% |
| 87 | 7.509 | 7.492 | 7.533 | VV | 1108 | 15750 | 0.21% | 0.049% |
| 88 | 7.563 | 7.533 | 7.612 | VV | 679 | 18138 | 0.24% | 0.056% |
| 89 | 7.651 | 7.612 | 7.664 | VV | 745 | 14973 | 0.20% | 0.047% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.679 | 7.664 | 7.699 | VV | 1433 | 17586 | 0.23% | 0.055% |
| 91 | 7.733 | 7.699 | 7.789 | VV | 718523 | 6806211 | 90.41% | 21.184% |
| 92 | 7.825 | 7.789 | 7.864 | VV | 1126 | 31584 | 0.42% | 0.098% |
| 93 | 7.871 | 7.864 | 7.892 | VV | 595 | 7253 | 0.10% | 0.023% |
| 94 | 7.900 | 7.892 | 7.917 | VV | 462 | 5473 | 0.07% | 0.017% |
| 95 | 7.939 | 7.917 | 7.959 | VV | 555 | 6713 | 0.09% | 0.021% |
| 96 | 7.983 | 7.959 | 8.005 | PV | 1715 | 20216 | 0.27% | 0.063% |
| 97 | 8.010 | 8.005 | 8.017 | VV | 450 | 2976 | 0.04% | 0.009% |
| 98 | 8.040 | 8.017 | 8.052 | VV | 852 | 11380 | 0.15% | 0.035% |
| 99 | 8.068 | 8.052 | 8.091 | VV | 1097 | 16122 | 0.21% | 0.050% |
| 100 | 8.096 | 8.091 | 8.102 | VV | 444 | 2789 | 0.04% | 0.009% |
| 101 | 8.116 | 8.102 | 8.127 | VV | 542 | 6065 | 0.08% | 0.019% |
| 102 | 8.131 | 8.127 | 8.139 | VV | 325 | 1806 | 0.02% | 0.006% |
| 103 | 8.184 | 8.139 | 8.204 | VV | 950 | 21568 | 0.29% | 0.067% |
| 104 | 8.214 | 8.204 | 8.233 | VV | 1029 | 13376 | 0.18% | 0.042% |
| 105 | 8.245 | 8.233 | 8.270 | VV | 822 | 13139 | 0.17% | 0.041% |
| 106 | 8.286 | 8.270 | 8.332 | VV | 2514 | 35603 | 0.47% | 0.111% |
| 107 | 8.347 | 8.332 | 8.361 | VV | 1378 | 14830 | 0.20% | 0.046% |
| 108 | 8.381 | 8.361 | 8.386 | VV | 1214 | 13353 | 0.18% | 0.042% |
| 109 | 8.400 | 8.386 | 8.419 | VV | 1551 | 21981 | 0.29% | 0.068% |
| 110 | 8.430 | 8.419 | 8.460 | VV | 932 | 16593 | 0.22% | 0.052% |
| 111 | 8.484 | 8.460 | 8.506 | VV | 1313 | 20123 | 0.27% | 0.063% |
| 112 | 8.519 | 8.506 | 8.556 | VV | 943 | 15782 | 0.21% | 0.049% |
| 113 | 8.599 | 8.556 | 8.628 | VV | 474654 | 4684934 | 62.23% | 14.582% |
| 114 | 8.650 | 8.628 | 8.677 | VV | 2222 | 41470 | 0.55% | 0.129% |
| 115 | 8.694 | 8.677 | 8.722 | VV | 3243 | 40272 | 0.53% | 0.125% |
| 116 | 8.747 | 8.722 | 8.763 | VV | 1159 | 24559 | 0.33% | 0.076% |
| 117 | 8.773 | 8.763 | 8.808 | VV | 1244 | 27260 | 0.36% | 0.085% |
| 118 | 8.823 | 8.808 | 8.840 | VV | 1253 | 19642 | 0.26% | 0.061% |
| 119 | 8.846 | 8.840 | 8.867 | VV | 1073 | 11764 | 0.16% | 0.037% |
| 120 | 8.884 | 8.867 | 8.897 | VV | 662 | 9787 | 0.13% | 0.030% |
| 121 | 8.911 | 8.897 | 8.920 | VV | 885 | 9368 | 0.12% | 0.029% |
| 122 | 8.938 | 8.920 | 8.952 | VV | 1251 | 17831 | 0.24% | 0.055% |
| 123 | 8.968 | 8.952 | 8.979 | VV | 2035 | 22198 | 0.29% | 0.069% |
| 124 | 9.006 | 8.979 | 9.031 | VV | 48450 | 493195 | 6.55% | 1.535% |
| 125 | 9.044 | 9.031 | 9.050 | VV | 1281 | 13437 | 0.18% | 0.042% |
| 126 | 9.053 | 9.050 | 9.073 | VV | 1330 | 14754 | 0.20% | 0.046% |
| 127 | 9.089 | 9.073 | 9.112 | VV | 2569 | 40671 | 0.54% | 0.127% |
| 128 | 9.127 | 9.112 | 9.145 | VV | 1996 | 31280 | 0.42% | 0.097% |
| 129 | 9.159 | 9.145 | 9.179 | VV | 2235 | 28682 | 0.38% | 0.089% |
| 130 | 9.194 | 9.179 | 9.231 | VV | 770 | 15028 | 0.20% | 0.047% |
| 131 | 9.255 | 9.231 | 9.277 | VV | 722 | 13075 | 0.17% | 0.041% |
| 132 | 9.291 | 9.277 | 9.317 | VV | 1308 | 17953 | 0.24% | 0.056% |
| 133 | 9.334 | 9.317 | 9.366 | VV | 1129 | 21218 | 0.28% | 0.066% |
| 134 | 9.371 | 9.366 | 9.374 | VV | 492 | 1969 | 0.03% | 0.006% |
| 135 | 9.393 | 9.374 | 9.414 | VV | 1039 | 19004 | 0.25% | 0.059% |
| 136 | 9.421 | 9.414 | 9.442 | VV | 583 | 7682 | 0.10% | 0.024% |
| 137 | 9.475 | 9.442 | 9.512 | VV | 3370 | 52723 | 0.70% | 0.164% |
| 138 | 9.517 | 9.512 | 9.523 | VV | 543 | 2987 | 0.04% | 0.009% |
| 139 | 9.530 | 9.523 | 9.535 | VV | 466 | 2684 | 0.04% | 0.008% |
| 140 | 9.559 | 9.535 | 9.582 | VV | 945 | 19382 | 0.26% | 0.060% |
| 141 | 9.622 | 9.582 | 9.654 | VV | 1386 | 38431 | 0.51% | 0.120% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.660 | 9.654 | 9.666 | VV | 906 | 4666 | 0.06% | 0.015% |
| 143 | 9.685 | 9.666 | 9.697 | VV | 924 | 12906 | 0.17% | 0.040% |
| 144 | 9.721 | 9.697 | 9.732 | VV | 3151 | 36574 | 0.49% | 0.114% |
| 145 | 9.751 | 9.732 | 9.783 | VV | 41494 | 429365 | 5.70% | 1.336% |
| 146 | 9.796 | 9.783 | 9.843 | VV | 1255 | 24609 | 0.33% | 0.077% |
| 147 | 9.848 | 9.843 | 9.853 | VV | 422 | 1998 | 0.03% | 0.006% |
| 148 | 9.881 | 9.853 | 9.937 | VV | 1834 | 40326 | 0.54% | 0.126% |
| 149 | 9.959 | 9.937 | 9.974 | VV | 621 | 9415 | 0.13% | 0.029% |
| 150 | 9.985 | 9.974 | 10.020 | VV | 587 | 11138 | 0.15% | 0.035% |
| 151 | 10.026 | 10.020 | 10.038 | VV | 318 | 2690 | 0.04% | 0.008% |
| 152 | 10.076 | 10.038 | 10.105 | VV | 1011 | 20570 | 0.27% | 0.064% |
| 153 | 10.111 | 10.105 | 10.123 | VV | 500 | 2299 | 0.03% | 0.007% |
| 154 | 10.143 | 10.123 | 10.152 | PV | 360 | 2788 | 0.04% | 0.009% |
| 155 | 10.156 | 10.152 | 10.175 | VV | 355 | 3793 | 0.05% | 0.012% |
| 156 | 10.187 | 10.175 | 10.192 | VV | 418 | 3074 | 0.04% | 0.010% |
| 157 | 10.223 | 10.192 | 10.253 | VV | 2095 | 31476 | 0.42% | 0.098% |
| 158 | 10.272 | 10.253 | 10.293 | VV | 809 | 13013 | 0.17% | 0.041% |
| 159 | 10.325 | 10.293 | 10.333 | VV | 916 | 17072 | 0.23% | 0.053% |
| 160 | 10.353 | 10.333 | 10.376 | VV | 1540 | 25963 | 0.34% | 0.081% |
| 161 | 10.395 | 10.376 | 10.427 | VV | 1306 | 23388 | 0.31% | 0.073% |
| 162 | 10.436 | 10.427 | 10.452 | VV | 494 | 6236 | 0.08% | 0.019% |
| 163 | 10.470 | 10.452 | 10.494 | VV | 1276 | 22344 | 0.30% | 0.070% |
| 164 | 10.496 | 10.494 | 10.510 | VV | 790 | 7141 | 0.09% | 0.022% |
| 165 | 10.525 | 10.510 | 10.541 | VV | 1102 | 16124 | 0.21% | 0.050% |
| 166 | 10.570 | 10.541 | 10.585 | VV | 816 | 16317 | 0.22% | 0.051% |
| 167 | 10.609 | 10.585 | 10.628 | VV | 1153 | 21722 | 0.29% | 0.068% |
| 168 | 10.639 | 10.628 | 10.657 | VV | 1104 | 12856 | 0.17% | 0.040% |
| 169 | 10.675 | 10.657 | 10.692 | VV | 1439 | 20834 | 0.28% | 0.065% |
| 170 | 10.702 | 10.692 | 10.728 | VV | 977 | 16866 | 0.22% | 0.052% |
| 171 | 10.751 | 10.728 | 10.789 | VV | 1137 | 26059 | 0.35% | 0.081% |
| 172 | 10.812 | 10.789 | 10.825 | VV | 1134 | 16838 | 0.22% | 0.052% |
| 173 | 10.841 | 10.825 | 10.850 | VV | 917 | 10896 | 0.14% | 0.034% |
| 174 | 10.873 | 10.850 | 10.924 | VV | 20507 | 236280 | 3.14% | 0.735% |
| 175 | 10.947 | 10.924 | 10.981 | VV | 5303 | 68510 | 0.91% | 0.213% |
| 176 | 10.998 | 10.981 | 11.004 | VV | 497 | 5408 | 0.07% | 0.017% |
| 177 | 11.031 | 11.004 | 11.035 | VV | 567 | 7783 | 0.10% | 0.024% |
| 178 | 11.050 | 11.035 | 11.109 | VV | 758 | 19560 | 0.26% | 0.061% |
| 179 | 11.117 | 11.109 | 11.129 | VV | 362 | 2622 | 0.03% | 0.008% |
| 180 | 11.157 | 11.138 | 11.172 | VV | 1081 | 11813 | 0.16% | 0.037% |
| 181 | 11.179 | 11.172 | 11.207 | VV | 689 | 7115 | 0.09% | 0.022% |
| 182 | 11.252 | 11.207 | 11.276 | VV | 729 | 15836 | 0.21% | 0.049% |
| 183 | 11.280 | 11.276 | 11.287 | VV | 453 | 2518 | 0.03% | 0.008% |
| 184 | 11.294 | 11.287 | 11.300 | VV | 612 | 3924 | 0.05% | 0.012% |
| 185 | 11.319 | 11.300 | 11.342 | VV | 1170 | 17374 | 0.23% | 0.054% |
| 186 | 11.364 | 11.342 | 11.374 | VV | 590 | 7746 | 0.10% | 0.024% |
| 187 | 11.409 | 11.374 | 11.445 | VV | 1590 | 31670 | 0.42% | 0.099% |
| 188 | 11.472 | 11.445 | 11.496 | PV | 932 | 15266 | 0.20% | 0.048% |
| 189 | 11.525 | 11.496 | 11.546 | VV | 685 | 10754 | 0.14% | 0.033% |
| 190 | 11.562 | 11.546 | 11.579 | VV | 598 | 5971 | 0.08% | 0.019% |
| 191 | 11.646 | 11.579 | 11.669 | VV | 701074 | 7528157 | 100.00% | 23.431% |
| 192 | 11.674 | 11.669 | 11.689 | VV | 4958 | 41624 | 0.55% | 0.130% |
| 193 | 11.705 | 11.689 | 11.725 | VV | 5709 | 66487 | 0.88% | 0.207% |
| 194 | 11.736 | 11.725 | 11.753 | VV | 1479 | 19695 | 0.26% | 0.061% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 11.791 | 11.753 | 11.811 | VV | 4713 | 96937 | 1.29% | 0.302% |
| 196 | 11.822 | 11.811 | 11.836 | VV | 3679 | 42254 | 0.56% | 0.132% |
| 197 | 11.853 | 11.836 | 11.893 | VV | 4727 | 60517 | 0.80% | 0.188% |
| 198 | 11.898 | 11.893 | 11.910 | VV | 289 | 2422 | 0.03% | 0.008% |
| 199 | 11.925 | 11.910 | 11.935 | VV | 449 | 4812 | 0.06% | 0.015% |
| 200 | 11.938 | 11.935 | 11.949 | VV | 259 | 1934 | 0.03% | 0.006% |
| 201 | 11.985 | 11.949 | 12.001 | VV | 875 | 18854 | 0.25% | 0.059% |
| 202 | 12.039 | 12.001 | 12.064 | VV | 8953 | 127078 | 1.69% | 0.396% |
| 203 | 12.082 | 12.064 | 12.114 | VV | 1650 | 30938 | 0.41% | 0.096% |
| 204 | 12.143 | 12.114 | 12.185 | VV | 3511 | 55150 | 0.73% | 0.172% |
| 205 | 12.235 | 12.185 | 12.283 | VV | 118308 | 1408412 | 18.71% | 4.384% |
| 206 | 12.292 | 12.283 | 12.312 | VV | 2113 | 27685 | 0.37% | 0.086% |
| 207 | 12.317 | 12.312 | 12.365 | VV | 1034 | 25680 | 0.34% | 0.080% |
| 208 | 12.373 | 12.365 | 12.380 | VV | 864 | 7502 | 0.10% | 0.023% |
| 209 | 12.396 | 12.380 | 12.410 | VV | 1622 | 22217 | 0.30% | 0.069% |
| 210 | 12.416 | 12.410 | 12.430 | VV | 1220 | 11128 | 0.15% | 0.035% |
| 211 | 12.435 | 12.430 | 12.442 | VV | 737 | 4835 | 0.06% | 0.015% |
| 212 | 12.462 | 12.442 | 12.470 | VV | 1780 | 20864 | 0.28% | 0.065% |
| 213 | 12.489 | 12.470 | 12.507 | VV | 2769 | 43889 | 0.58% | 0.137% |
| 214 | 12.518 | 12.507 | 12.534 | VV | 1499 | 16726 | 0.22% | 0.052% |
| 215 | 12.540 | 12.534 | 12.545 | VV | 800 | 4853 | 0.06% | 0.015% |
| 216 | 12.570 | 12.545 | 12.589 | VV | 4205 | 56631 | 0.75% | 0.176% |
| 217 | 12.629 | 12.589 | 12.650 | VV | 2501 | 58781 | 0.78% | 0.183% |
| 218 | 12.685 | 12.650 | 12.740 | VV | 27357 | 329049 | 4.37% | 1.024% |
| 219 | 12.757 | 12.740 | 12.772 | VV | 542 | 7636 | 0.10% | 0.024% |
| 220 | 12.782 | 12.772 | 12.790 | VV | 540 | 4405 | 0.06% | 0.014% |
| 221 | 12.797 | 12.790 | 12.800 | VV | 431 | 2173 | 0.03% | 0.007% |
| 222 | 12.814 | 12.800 | 12.826 | VV | 623 | 8099 | 0.11% | 0.025% |
| 223 | 12.845 | 12.826 | 12.859 | VV | 1249 | 15940 | 0.21% | 0.050% |
| 224 | 12.878 | 12.859 | 12.920 | VV | 1707 | 38196 | 0.51% | 0.119% |
| 225 | 12.924 | 12.920 | 12.941 | VV | 808 | 7570 | 0.10% | 0.024% |
| 226 | 12.947 | 12.941 | 12.957 | VV | 584 | 4237 | 0.06% | 0.013% |
| 227 | 12.983 | 12.957 | 13.012 | VV | 29398 | 323074 | 4.29% | 1.006% |
| 228 | 13.040 | 13.012 | 13.045 | VV | 3713 | 41807 | 0.56% | 0.130% |
| 229 | 13.071 | 13.045 | 13.103 | VV | 133009 | 1557568 | 20.69% | 4.848% |
| 230 | 13.122 | 13.103 | 13.134 | VV | 728 | 10178 | 0.14% | 0.032% |
| 231 | 13.159 | 13.134 | 13.177 | VV | 1241 | 19961 | 0.27% | 0.062% |
| 232 | 13.192 | 13.177 | 13.213 | VV | 652 | 8841 | 0.12% | 0.028% |
| 233 | 13.229 | 13.213 | 13.233 | VV | 555 | 4962 | 0.07% | 0.015% |
| 234 | 13.249 | 13.233 | 13.265 | VV | 1378 | 18545 | 0.25% | 0.058% |
| 235 | 13.290 | 13.265 | 13.348 | VV | 5071 | 91789 | 1.22% | 0.286% |
| 236 | 13.357 | 13.348 | 13.361 | VV | 722 | 4754 | 0.06% | 0.015% |
| 237 | 13.379 | 13.361 | 13.397 | VV | 1318 | 20342 | 0.27% | 0.063% |
| 238 | 13.403 | 13.397 | 13.419 | VV | 1000 | 11489 | 0.15% | 0.036% |
| 239 | 13.461 | 13.419 | 13.530 | VV | 57831 | 765433 | 10.17% | 2.382% |
| 240 | 13.570 | 13.530 | 13.608 | VV | 5791 | 113549 | 1.51% | 0.353% |
| 241 | 13.622 | 13.608 | 13.626 | VV | 919 | 8282 | 0.11% | 0.026% |
| 242 | 13.641 | 13.626 | 13.658 | VV | 1063 | 15367 | 0.20% | 0.048% |
| 243 | 13.680 | 13.658 | 13.701 | VV | 2960 | 46729 | 0.62% | 0.145% |
| 244 | 13.717 | 13.701 | 13.741 | VV | 3450 | 43303 | 0.58% | 0.135% |
| 245 | 13.767 | 13.741 | 13.794 | VV | 1742 | 31712 | 0.42% | 0.099% |
| 246 | 13.824 | 13.794 | 13.831 | VV | 1823 | 25400 | 0.34% | 0.079% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 13.847 | 13.831 | 13.867 | VV | 3096 | 41977 | 0.56% | 0.131% |
| 248 | 13.888 | 13.867 | 13.914 | VV | 2793 | 37164 | 0.49% | 0.116% |
| 249 | 13.947 | 13.914 | 13.990 | VV | 1696 | 37561 | 0.50% | 0.117% |
| 250 | 13.995 | 13.990 | 14.009 | VV | 333 | 2021 | 0.03% | 0.006% |
| 251 | 14.017 | 14.009 | 14.038 | VV | 394 | 4607 | 0.06% | 0.014% |
| 252 | 14.047 | 14.038 | 14.070 | VV | 440 | 5663 | 0.08% | 0.018% |
| 253 | 14.073 | 14.070 | 14.101 | VV | 304 | 3676 | 0.05% | 0.011% |
| 254 | 14.108 | 14.101 | 14.132 | VV | 207 | 2311 | 0.03% | 0.007% |
| 255 | 14.153 | 14.132 | 14.158 | PV | 316 | 3070 | 0.04% | 0.010% |
| 256 | 14.162 | 14.158 | 14.167 | VV | 426 | 1336 | 0.02% | 0.004% |
| 257 | 14.211 | 14.167 | 14.226 | VV | 553 | 10856 | 0.14% | 0.034% |
| 258 | 14.257 | 14.226 | 14.287 | VV | 1906 | 41128 | 0.55% | 0.128% |
| 259 | 14.302 | 14.287 | 14.342 | VV | 2026 | 35792 | 0.48% | 0.111% |
| 260 | 14.385 | 14.342 | 14.400 | VV | 958 | 22828 | 0.30% | 0.071% |
| 261 | 14.404 | 14.400 | 14.433 | VV | 903 | 14410 | 0.19% | 0.045% |
| 262 | 14.481 | 14.433 | 14.499 | VV | 1698 | 40429 | 0.54% | 0.126% |
| 263 | 14.508 | 14.499 | 14.524 | VV | 957 | 12608 | 0.17% | 0.039% |
| 264 | 14.545 | 14.524 | 14.574 | VV | 4636 | 61223 | 0.81% | 0.191% |
| 265 | 14.604 | 14.574 | 14.626 | VV | 1750 | 31197 | 0.41% | 0.097% |
| 266 | 14.632 | 14.626 | 14.649 | VV | 419 | 4881 | 0.06% | 0.015% |
| 267 | 14.673 | 14.649 | 14.690 | VV | 1017 | 17296 | 0.23% | 0.054% |
| 268 | 14.712 | 14.690 | 14.724 | VV | 875 | 14267 | 0.19% | 0.044% |
| 269 | 14.730 | 14.724 | 14.746 | VV | 934 | 9635 | 0.13% | 0.030% |
| 270 | 14.754 | 14.746 | 14.795 | VV | 623 | 12210 | 0.16% | 0.038% |
| 271 | 14.810 | 14.795 | 14.817 | VV | 381 | 4228 | 0.06% | 0.013% |
| 272 | 14.821 | 14.817 | 14.827 | VV | 491 | 2611 | 0.03% | 0.008% |
| 273 | 14.853 | 14.827 | 14.873 | VV | 11509 | 137996 | 1.83% | 0.430% |
| 274 | 14.895 | 14.873 | 14.947 | VV | 11450 | 157008 | 2.09% | 0.489% |
| 275 | 14.957 | 14.947 | 14.974 | VV | 719 | 7130 | 0.09% | 0.022% |
| 276 | 15.017 | 14.974 | 15.038 | VV | 2489 | 40335 | 0.54% | 0.126% |
| 277 | 15.047 | 15.038 | 15.062 | VV | 551 | 6557 | 0.09% | 0.020% |
| 278 | 15.067 | 15.062 | 15.073 | VV | 396 | 1999 | 0.03% | 0.006% |
| 279 | 15.094 | 15.073 | 15.120 | VV | 1013 | 17209 | 0.23% | 0.054% |
| 280 | 15.128 | 15.120 | 15.137 | VV | 445 | 3435 | 0.05% | 0.011% |
| 281 | 15.163 | 15.137 | 15.190 | VV | 846 | 19628 | 0.26% | 0.061% |
| 282 | 15.217 | 15.190 | 15.249 | VV | 735 | 14589 | 0.19% | 0.045% |
| 283 | 15.300 | 15.249 | 15.380 | PV | 5565 | 120187 | 1.60% | 0.374% |
| 284 | 15.384 | 15.380 | 15.395 | VV | 520 | 3268 | 0.04% | 0.010% |
| 285 | 15.415 | 15.395 | 15.420 | VV | 522 | 4881 | 0.06% | 0.015% |
| 286 | 15.459 | 15.420 | 15.501 | VV | 1707 | 45249 | 0.60% | 0.141% |
| 287 | 15.526 | 15.501 | 15.545 | VV | 3344 | 42229 | 0.56% | 0.131% |
| 288 | 15.562 | 15.545 | 15.590 | VV | 1542 | 22517 | 0.30% | 0.070% |
| 289 | 15.604 | 15.590 | 15.619 | VV | 925 | 11204 | 0.15% | 0.035% |
| 290 | 15.667 | 15.619 | 15.674 | VV | 1522 | 30232 | 0.40% | 0.094% |
| 291 | 15.686 | 15.674 | 15.722 | VV | 1818 | 33378 | 0.44% | 0.104% |
| 292 | 15.726 | 15.722 | 15.733 | VV | 457 | 2021 | 0.03% | 0.006% |
| 293 | 15.742 | 15.733 | 15.748 | VV | 504 | 3785 | 0.05% | 0.012% |
| 294 | 15.764 | 15.748 | 15.795 | VV | 946 | 17131 | 0.23% | 0.053% |
| 295 | 15.806 | 15.795 | 15.830 | VV | 595 | 8529 | 0.11% | 0.027% |
| 296 | 15.848 | 15.830 | 15.863 | VV | 819 | 8498 | 0.11% | 0.026% |
| 297 | 15.874 | 15.863 | 15.891 | VV | 750 | 8072 | 0.11% | 0.025% |
| 298 | 15.897 | 15.891 | 15.902 | VV | 519 | 2958 | 0.04% | 0.009% |
| 299 | 15.905 | 15.902 | 15.917 | VV | 489 | 3468 | 0.05% | 0.011% |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 300 | 15.941 | 15.917 | 15.968 | VV | 1183 | 17831 | 0.24% | 0.055% |
| 301 | 15.971 | 15.968 | 15.978 | VV | 217 | 1082 | 0.01% | 0.003% |
| 302 | 15.992 | 15.978 | 16.005 | VV | 287 | 3080 | 0.04% | 0.010% |
| 303 | 16.009 | 16.005 | 16.014 | VV | 203 | 1188 | 0.02% | 0.004% |
| 304 | 16.021 | 16.014 | 16.047 | VV | 252 | 2085 | 0.03% | 0.006% |
| 305 | 16.084 | 16.059 | 16.098 | VV | 239 | 4125 | 0.05% | 0.013% |
| 306 | 16.128 | 16.098 | 16.154 | VV | 918 | 16168 | 0.21% | 0.050% |
| 307 | 16.160 | 16.154 | 16.169 | VV | 387 | 2146 | 0.03% | 0.007% |
| 308 | 16.229 | 16.179 | 16.251 | VV | 696 | 13656 | 0.18% | 0.043% |
| 309 | 16.269 | 16.251 | 16.274 | VV | 275 | 2281 | 0.03% | 0.007% |
| 310 | 16.278 | 16.274 | 16.292 | VV | 242 | 2910 | 0.04% | 0.009% |
| 311 | 16.329 | 16.292 | 16.360 | VV | 1323 | 24906 | 0.33% | 0.078% |
| 312 | 16.405 | 16.360 | 16.424 | VV | 8715 | 125305 | 1.66% | 0.390% |
| 313 | 16.432 | 16.424 | 16.463 | VV | 3901 | 46324 | 0.62% | 0.144% |
| 314 | 16.470 | 16.463 | 16.490 | VV | 313 | 4129 | 0.05% | 0.013% |
| 315 | 16.504 | 16.490 | 16.515 | VV | 777 | 7822 | 0.10% | 0.024% |
| 316 | 16.537 | 16.515 | 16.609 | VV | 1885 | 48131 | 0.64% | 0.150% |
| 317 | 16.616 | 16.609 | 16.641 | VV | 326 | 4076 | 0.05% | 0.013% |
| 318 | 16.655 | 16.641 | 16.674 | VV | 492 | 4537 | 0.06% | 0.014% |
| 319 | 16.725 | 16.674 | 16.754 | VV | 6132 | 88304 | 1.17% | 0.275% |
| 320 | 16.782 | 16.754 | 16.826 | VV | 8735 | 114556 | 1.52% | 0.357% |
| 321 | 16.885 | 16.826 | 16.908 | VV | 2933 | 48773 | 0.65% | 0.152% |
| 322 | 16.937 | 16.908 | 16.984 | VV | 4384 | 68250 | 0.91% | 0.212% |
| 323 | 17.023 | 16.984 | 17.070 | VV | 725 | 18666 | 0.25% | 0.058% |
| 324 | 17.091 | 17.070 | 17.107 | VV | 282 | 4474 | 0.06% | 0.014% |
| 325 | 17.151 | 17.107 | 17.217 | PV | 1348 | 42008 | 0.56% | 0.131% |
| 326 | 17.283 | 17.217 | 17.300 | VV | 1064 | 31628 | 0.42% | 0.098% |
| 327 | 17.309 | 17.300 | 17.319 | VV | 1131 | 10305 | 0.14% | 0.032% |
| 328 | 17.334 | 17.319 | 17.352 | VV | 1249 | 19212 | 0.26% | 0.060% |
| 329 | 17.364 | 17.352 | 17.405 | VV | 665 | 16447 | 0.22% | 0.051% |
| 330 | 17.438 | 17.405 | 17.469 | VV | 1046 | 21931 | 0.29% | 0.068% |
| 331 | 17.474 | 17.469 | 17.498 | VV | 356 | 5793 | 0.08% | 0.018% |
| 332 | 17.513 | 17.498 | 17.537 | VV | 606 | 9815 | 0.13% | 0.031% |
| 333 | 17.549 | 17.537 | 17.557 | VV | 407 | 4431 | 0.06% | 0.014% |
| 334 | 17.565 | 17.557 | 17.595 | VV | 523 | 6086 | 0.08% | 0.019% |
| 335 | 17.634 | 17.595 | 17.669 | VV | 389 | 8786 | 0.12% | 0.027% |
| 336 | 17.742 | 17.669 | 17.749 | VV | 669 | 13272 | 0.18% | 0.041% |
| 337 | 17.772 | 17.749 | 17.812 | VV | 2073 | 33114 | 0.44% | 0.103% |
| 338 | 17.830 | 17.812 | 17.841 | PV | 432 | 5924 | 0.08% | 0.018% |
| 339 | 17.862 | 17.841 | 17.891 | VV | 899 | 16909 | 0.22% | 0.053% |
| 340 | 17.915 | 17.891 | 17.969 | VV | 803 | 25702 | 0.34% | 0.080% |
| 341 | 17.988 | 17.969 | 18.023 | VV | 639 | 13393 | 0.18% | 0.042% |
| 342 | 18.056 | 18.023 | 18.099 | VV | 1711 | 32250 | 0.43% | 0.100% |
| 343 | 18.142 | 18.099 | 18.170 | VV | 6289 | 115060 | 1.53% | 0.358% |
| 344 | 18.189 | 18.170 | 18.219 | VV | 3611 | 57029 | 0.76% | 0.178% |
| 345 | 18.231 | 18.219 | 18.260 | VV | 742 | 12098 | 0.16% | 0.038% |
| 346 | 18.280 | 18.260 | 18.294 | VV | 1432 | 21658 | 0.29% | 0.067% |
| 347 | 18.307 | 18.294 | 18.362 | VV | 1730 | 35139 | 0.47% | 0.109% |
| 348 | 18.397 | 18.362 | 18.430 | VV | 5237 | 71866 | 0.95% | 0.224% |
| 349 | 18.443 | 18.430 | 18.467 | VV | 367 | 4753 | 0.06% | 0.015% |
| 350 | 18.488 | 18.467 | 18.498 | VV | 456 | 7390 | 0.10% | 0.023% |
| 351 | 18.528 | 18.498 | 18.555 | VV | 1734 | 26904 | 0.36% | 0.084% |

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|---|---|---|---|---|---|---|---|---|
| | | | | | rteres | | | |
| 352 | 18.601 | 18.555 | 18.672 | VV | 2112 | 47648 | 0.63% | 0.148% |
| 353 | 18.702 | 18.672 | 18.744 | PV | 738 | 14380 | 0.19% | 0.045% |
| 354 | 18.757 | 18.744 | 18.789 | VV | 359 | 7080 | 0.09% | 0.022% |
| 355 | 18.831 | 18.789 | 18.867 | PV | 469 | 11510 | 0.15% | 0.036% |
| 356 | 18.880 | 18.867 | 18.895 | VV | 334 | 2989 | 0.04% | 0.009% |
| 357 | 18.907 | 18.895 | 18.925 | VV | 361 | 4336 | 0.06% | 0.013% |
| 358 | 18.960 | 18.925 | 18.979 | PV | 1372 | 17547 | 0.23% | 0.055% |
| | | | Sum of corrected areas: | | | 32128690 | | |

Aromatic EPH 052425.M Fri Jun 13 05:27:43 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069137.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 18:17
Operator : YP/AJ
Sample : Q2177-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
EB05312025

Integration File: autoint1.e
Quant Time: Jun 10 05:24:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 13.113 | 3449755 | 38.453 ug/ml |
| Spiked Amount 50.000 | | Recovery = 76.91% | |
| Target Compounds | | | |

(f)=RT Delta > 1/2 Window (m)=manual int.

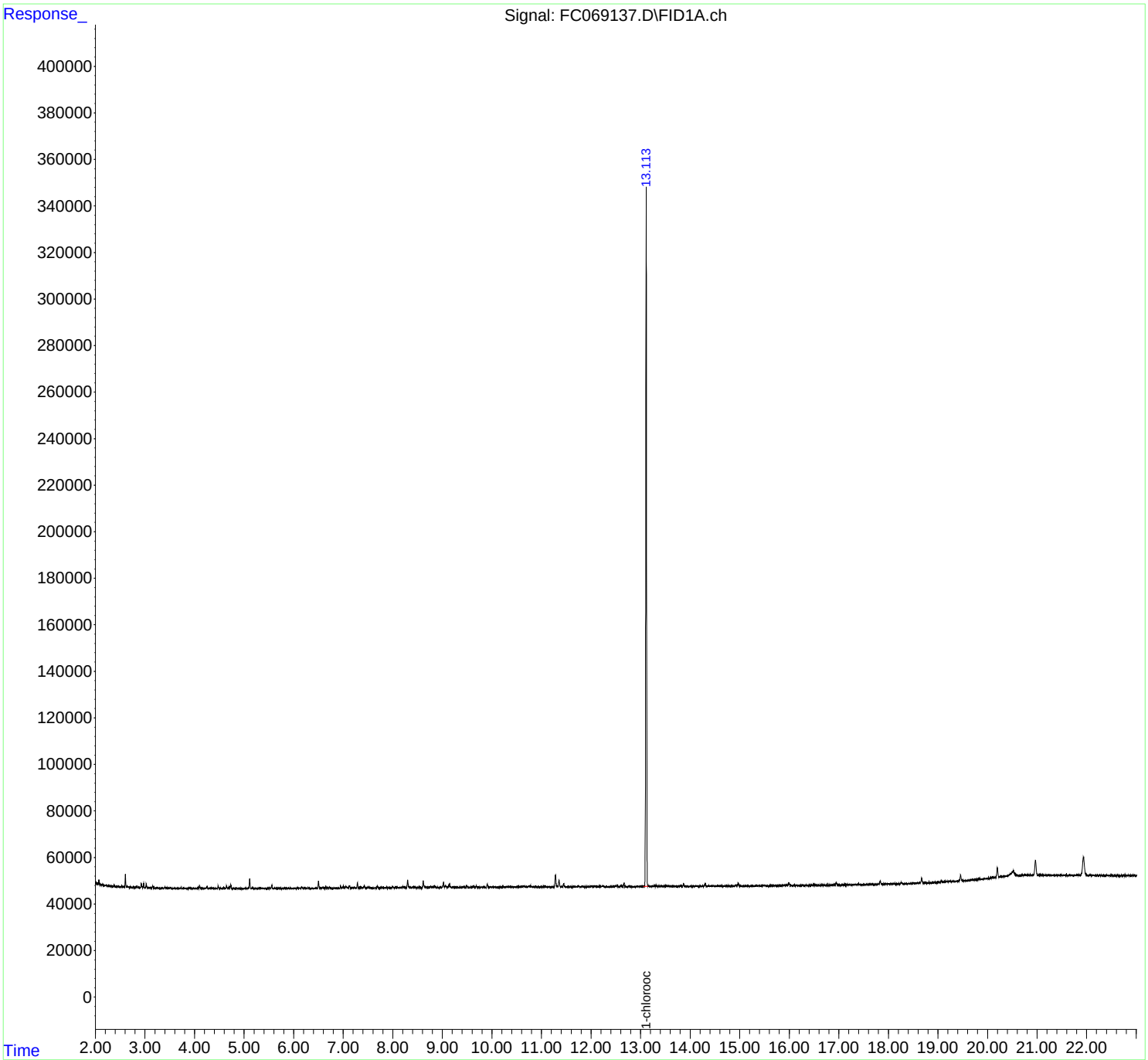
Sample Results: **FC069137.D**

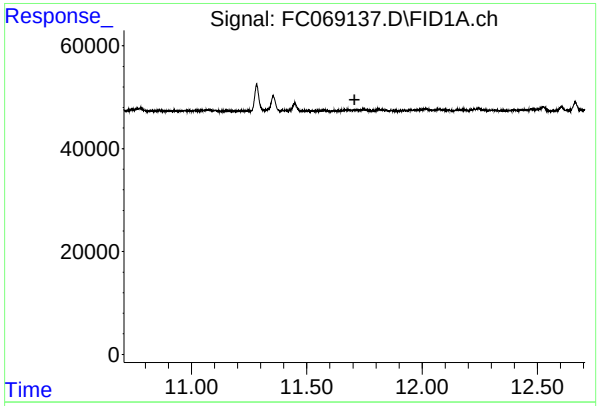
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069137.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 18:17
Operator : YP/AJ
Sample : Q2177-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
EB05312025

Integration File: autoint1.e
Quant Time: Jun 10 05:24:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

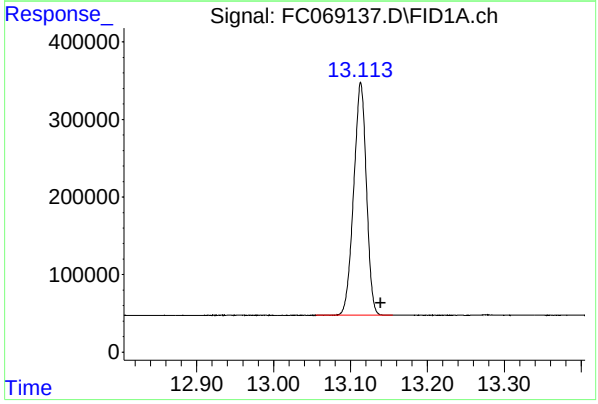





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.707 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
EB05312025




#12 1-chlorooctadecane (SURR)

R.T.: 13.113 min
Delta R.T.: -0.026 min
Response: 3449755
Conc: 38.45 ug/ml

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069137.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 18:17
Sample : Q2177-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.263 | 3.204 | 3.292 | BV | 83 | 1106 | 0.03% | 0.014% |
| 2 | 3.301 | 3.292 | 3.316 | PV | 78 | 600 | 0.02% | 0.008% |
| 3 | 3.351 | 3.316 | 3.374 | PV | 75 | 1878 | 0.05% | 0.024% |
| 4 | 3.403 | 3.374 | 3.565 | VV | 594 | 13578 | 0.39% | 0.170% |
| 5 | 3.601 | 3.565 | 3.621 | VV | 142 | 2351 | 0.07% | 0.030% |
| 6 | 3.627 | 3.621 | 3.658 | VV | 69 | 1150 | 0.03% | 0.014% |
| 7 | 3.682 | 3.658 | 3.700 | VV | 200 | 2750 | 0.08% | 0.035% |
| 8 | 3.729 | 3.700 | 3.758 | VV | 364 | 4802 | 0.14% | 0.060% |
| 9 | 3.775 | 3.758 | 3.809 | VV | 231 | 5032 | 0.15% | 0.063% |
| 10 | 3.820 | 3.809 | 3.878 | VV | 163 | 3712 | 0.11% | 0.047% |
| 11 | 3.899 | 3.878 | 3.935 | VV | 255 | 4443 | 0.13% | 0.056% |
| 12 | 3.954 | 3.935 | 3.962 | PV | 173 | 1644 | 0.05% | 0.021% |
| 13 | 3.986 | 3.962 | 4.021 | VV | 227 | 4538 | 0.13% | 0.057% |
| 14 | 4.075 | 4.021 | 4.087 | VV | 515 | 8043 | 0.23% | 0.101% |
| 15 | 4.103 | 4.087 | 4.150 | VV | 1185 | 13252 | 0.38% | 0.166% |
| 16 | 4.171 | 4.150 | 4.209 | VV | 165 | 4014 | 0.12% | 0.050% |
| 17 | 4.251 | 4.209 | 4.288 | VV | 825 | 14652 | 0.42% | 0.184% |
| 18 | 4.295 | 4.288 | 4.308 | VV | 151 | 1330 | 0.04% | 0.017% |
| 19 | 4.318 | 4.308 | 4.331 | VV | 130 | 1447 | 0.04% | 0.018% |
| 20 | 4.338 | 4.331 | 4.361 | VV | 140 | 2181 | 0.06% | 0.027% |
| 21 | 4.368 | 4.361 | 4.391 | VV | 154 | 2095 | 0.06% | 0.026% |
| 22 | 4.408 | 4.391 | 4.420 | VV | 232 | 2784 | 0.08% | 0.035% |
| 23 | 4.430 | 4.420 | 4.461 | VV | 162 | 2834 | 0.08% | 0.036% |
| 24 | 4.476 | 4.461 | 4.508 | VV | 1121 | 12495 | 0.36% | 0.157% |
| 25 | 4.520 | 4.508 | 4.539 | VV | 193 | 2620 | 0.08% | 0.033% |
| 26 | 4.590 | 4.539 | 4.611 | VV | 450 | 8314 | 0.24% | 0.104% |
| 27 | 4.645 | 4.611 | 4.680 | VV | 1281 | 18326 | 0.53% | 0.230% |
| 28 | 4.702 | 4.680 | 4.718 | VV | 898 | 10409 | 0.30% | 0.131% |
| 29 | 4.731 | 4.718 | 4.818 | VV | 1752 | 19523 | 0.56% | 0.245% |
| 30 | 4.853 | 4.818 | 4.875 | VV | 187 | 4116 | 0.12% | 0.052% |
| 31 | 4.898 | 4.875 | 4.908 | VV | 113 | 1458 | 0.04% | 0.018% |
| 32 | 4.931 | 4.908 | 4.997 | VV | 131 | 2779 | 0.08% | 0.035% |
| 33 | 5.012 | 4.997 | 5.020 | PV | 75 | 640 | 0.02% | 0.008% |
| 34 | 5.035 | 5.020 | 5.056 | VV | 237 | 2695 | 0.08% | 0.034% |
| 35 | 5.112 | 5.056 | 5.148 | VV | 4273 | 51220 | 1.48% | 0.643% |
| 36 | 5.170 | 5.148 | 5.191 | VV | 835 | 8792 | 0.25% | 0.110% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.202 | 5.191 | 5.208 | VV | 126 | 1116 | 0.03% | 0.014% |
| 38 | 5.220 | 5.208 | 5.258 | VV | 181 | 2758 | 0.08% | 0.035% |
| 39 | 5.307 | 5.258 | 5.325 | VV | 235 | 4262 | 0.12% | 0.053% |
| 40 | 5.343 | 5.325 | 5.370 | VV | 161 | 2803 | 0.08% | 0.035% |
| 41 | 5.478 | 5.370 | 5.500 | VV | 209 | 7509 | 0.22% | 0.094% |
| 42 | 5.517 | 5.500 | 5.541 | VV | 593 | 7589 | 0.22% | 0.095% |
| 43 | 5.559 | 5.541 | 5.584 | VV | 1336 | 14077 | 0.41% | 0.177% |
| 44 | 5.616 | 5.584 | 5.664 | VV | 351 | 6392 | 0.18% | 0.080% |
| 45 | 5.680 | 5.664 | 5.691 | VV | 200 | 2515 | 0.07% | 0.032% |
| 46 | 5.707 | 5.691 | 5.762 | VV | 230 | 5068 | 0.15% | 0.064% |
| 47 | 5.768 | 5.762 | 5.778 | VV | 128 | 846 | 0.02% | 0.011% |
| 48 | 5.810 | 5.778 | 5.832 | VV | 267 | 4691 | 0.14% | 0.059% |
| 49 | 5.859 | 5.832 | 5.878 | VV | 140 | 1872 | 0.05% | 0.023% |
| 50 | 5.897 | 5.878 | 5.916 | PV | 118 | 1936 | 0.06% | 0.024% |
| 51 | 5.939 | 5.916 | 5.953 | VV | 102 | 1826 | 0.05% | 0.023% |
| 52 | 5.972 | 5.953 | 6.000 | VV | 121 | 2764 | 0.08% | 0.035% |
| 53 | 6.014 | 6.000 | 6.052 | VV | 189 | 3270 | 0.09% | 0.041% |
| 54 | 6.071 | 6.052 | 6.095 | VV | 343 | 5486 | 0.16% | 0.069% |
| 55 | 6.117 | 6.095 | 6.141 | VV | 302 | 4917 | 0.14% | 0.062% |
| 56 | 6.160 | 6.141 | 6.198 | VV | 709 | 9425 | 0.27% | 0.118% |
| 57 | 6.219 | 6.198 | 6.242 | VV | 296 | 4394 | 0.13% | 0.055% |
| 58 | 6.292 | 6.242 | 6.331 | VV | 288 | 7640 | 0.22% | 0.096% |
| 59 | 6.338 | 6.331 | 6.361 | VV | 119 | 1260 | 0.04% | 0.016% |
| 60 | 6.384 | 6.361 | 6.431 | PV | 147 | 2483 | 0.07% | 0.031% |
| 61 | 6.448 | 6.431 | 6.476 | VV | 126 | 1933 | 0.06% | 0.024% |
| 62 | 6.501 | 6.476 | 6.538 | VV | 3218 | 35938 | 1.04% | 0.451% |
| 63 | 6.545 | 6.538 | 6.567 | VV | 233 | 2873 | 0.08% | 0.036% |
| 64 | 6.586 | 6.567 | 6.605 | VV | 605 | 6774 | 0.20% | 0.085% |
| 65 | 6.623 | 6.605 | 6.634 | VV | 367 | 4008 | 0.12% | 0.050% |
| 66 | 6.651 | 6.634 | 6.670 | VV | 1021 | 10586 | 0.31% | 0.133% |
| 67 | 6.686 | 6.670 | 6.708 | VV | 330 | 4215 | 0.12% | 0.053% |
| 68 | 6.725 | 6.708 | 6.751 | VV | 546 | 5903 | 0.17% | 0.074% |
| 69 | 6.787 | 6.751 | 6.854 | VV | 125 | 3477 | 0.10% | 0.044% |
| 70 | 6.870 | 6.854 | 6.884 | VV | 153 | 1855 | 0.05% | 0.023% |
| 71 | 6.894 | 6.884 | 6.923 | VV | 116 | 1581 | 0.05% | 0.020% |
| 72 | 6.945 | 6.923 | 6.973 | VV | 699 | 8552 | 0.25% | 0.107% |
| 73 | 6.999 | 6.973 | 7.030 | VV | 710 | 13626 | 0.39% | 0.171% |
| 74 | 7.049 | 7.030 | 7.091 | VV | 696 | 15471 | 0.45% | 0.194% |
| 75 | 7.126 | 7.091 | 7.158 | VV | 1084 | 18137 | 0.52% | 0.228% |
| 76 | 7.160 | 7.158 | 7.198 | VV | 249 | 3247 | 0.09% | 0.041% |
| 77 | 7.234 | 7.198 | 7.259 | VV | 269 | 5194 | 0.15% | 0.065% |
| 78 | 7.288 | 7.259 | 7.330 | VV | 2314 | 27812 | 0.80% | 0.349% |
| 79 | 7.365 | 7.330 | 7.379 | VV | 328 | 6838 | 0.20% | 0.086% |
| 80 | 7.394 | 7.379 | 7.408 | VV | 400 | 5064 | 0.15% | 0.064% |
| 81 | 7.427 | 7.408 | 7.478 | VV | 1077 | 15958 | 0.46% | 0.200% |
| 82 | 7.520 | 7.478 | 7.564 | VV | 517 | 12007 | 0.35% | 0.151% |
| 83 | 7.572 | 7.564 | 7.618 | VV | 89 | 2867 | 0.08% | 0.036% |
| 84 | 7.637 | 7.618 | 7.663 | VV | 91 | 1848 | 0.05% | 0.023% |
| 85 | 7.691 | 7.663 | 7.730 | VV | 820 | 10914 | 0.32% | 0.137% |
| 86 | 7.775 | 7.730 | 7.821 | VV | 231 | 7742 | 0.22% | 0.097% |
| 87 | 7.835 | 7.821 | 7.928 | VV | 249 | 9245 | 0.27% | 0.116% |
| 88 | 7.951 | 7.928 | 7.973 | VV | 212 | 3305 | 0.10% | 0.041% |
| 89 | 7.996 | 7.973 | 8.031 | PV | 687 | 9553 | 0.28% | 0.120% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 8.053 | 8.031 | 8.078 | VV | 625 | 8384 | 0.24% | 0.105% |
| 91 | 8.090 | 8.078 | 8.111 | VV | 327 | 4102 | 0.12% | 0.051% |
| 92 | 8.122 | 8.111 | 8.138 | VV | 216 | 2941 | 0.08% | 0.037% |
| 93 | 8.149 | 8.138 | 8.163 | VV | 254 | 2769 | 0.08% | 0.035% |
| 94 | 8.209 | 8.163 | 8.271 | VV | 777 | 20952 | 0.60% | 0.263% |
| 95 | 8.301 | 8.271 | 8.371 | VV | 3503 | 49722 | 1.44% | 0.624% |
| 96 | 8.398 | 8.371 | 8.434 | VV | 490 | 11741 | 0.34% | 0.147% |
| 97 | 8.453 | 8.434 | 8.471 | VV | 389 | 6106 | 0.18% | 0.077% |
| 98 | 8.497 | 8.471 | 8.517 | VV | 339 | 5978 | 0.17% | 0.075% |
| 99 | 8.536 | 8.517 | 8.581 | VV | 488 | 7133 | 0.21% | 0.090% |
| 100 | 8.615 | 8.581 | 8.708 | VV | 3063 | 50857 | 1.47% | 0.638% |
| 101 | 8.723 | 8.708 | 8.738 | VV | 270 | 4473 | 0.13% | 0.056% |
| 102 | 8.764 | 8.738 | 8.778 | VV | 491 | 8356 | 0.24% | 0.105% |
| 103 | 8.792 | 8.778 | 8.805 | VV | 441 | 6051 | 0.17% | 0.076% |
| 104 | 8.813 | 8.805 | 8.824 | VV | 345 | 3770 | 0.11% | 0.047% |
| 105 | 8.844 | 8.824 | 8.888 | VV | 655 | 15933 | 0.46% | 0.200% |
| 106 | 8.907 | 8.888 | 8.938 | VV | 339 | 5238 | 0.15% | 0.066% |
| 107 | 8.957 | 8.938 | 8.978 | VV | 387 | 5933 | 0.17% | 0.074% |
| 108 | 9.024 | 8.978 | 9.046 | VV | 2409 | 36274 | 1.05% | 0.455% |
| 109 | 9.063 | 9.046 | 9.100 | VV | 821 | 17652 | 0.51% | 0.222% |
| 110 | 9.144 | 9.100 | 9.196 | VV | 1602 | 35398 | 1.02% | 0.444% |
| 111 | 9.215 | 9.196 | 9.238 | VV | 423 | 6562 | 0.19% | 0.082% |
| 112 | 9.264 | 9.238 | 9.286 | VV | 353 | 6466 | 0.19% | 0.081% |
| 113 | 9.308 | 9.286 | 9.331 | VV | 243 | 4595 | 0.13% | 0.058% |
| 114 | 9.346 | 9.331 | 9.354 | VV | 237 | 2624 | 0.08% | 0.033% |
| 115 | 9.375 | 9.354 | 9.395 | VV | 267 | 5329 | 0.15% | 0.067% |
| 116 | 9.429 | 9.395 | 9.469 | VV | 534 | 13527 | 0.39% | 0.170% |
| 117 | 9.495 | 9.469 | 9.524 | VV | 824 | 13921 | 0.40% | 0.175% |
| 118 | 9.550 | 9.524 | 9.574 | VV | 288 | 6485 | 0.19% | 0.081% |
| 119 | 9.587 | 9.574 | 9.614 | VV | 210 | 4603 | 0.13% | 0.058% |
| 120 | 9.633 | 9.614 | 9.661 | VV | 491 | 9216 | 0.27% | 0.116% |
| 121 | 9.686 | 9.661 | 9.719 | VV | 740 | 11632 | 0.34% | 0.146% |
| 122 | 9.752 | 9.719 | 9.761 | VV | 199 | 4001 | 0.12% | 0.050% |
| 123 | 9.772 | 9.761 | 9.807 | VV | 243 | 4123 | 0.12% | 0.052% |
| 124 | 9.827 | 9.807 | 9.883 | VV | 466 | 10032 | 0.29% | 0.126% |
| 125 | 9.907 | 9.883 | 9.951 | VV | 1522 | 22028 | 0.64% | 0.276% |
| 126 | 9.981 | 9.951 | 9.995 | VV | 313 | 5774 | 0.17% | 0.072% |
| 127 | 10.007 | 9.995 | 10.029 | VV | 276 | 3867 | 0.11% | 0.049% |
| 128 | 10.055 | 10.029 | 10.064 | VV | 221 | 3607 | 0.10% | 0.045% |
| 129 | 10.079 | 10.064 | 10.108 | VV | 252 | 4606 | 0.13% | 0.058% |
| 130 | 10.116 | 10.108 | 10.138 | VV | 226 | 3048 | 0.09% | 0.038% |
| 131 | 10.185 | 10.138 | 10.208 | VV | 267 | 7264 | 0.21% | 0.091% |
| 132 | 10.222 | 10.208 | 10.257 | VV | 334 | 7211 | 0.21% | 0.091% |
| 133 | 10.266 | 10.257 | 10.280 | VV | 194 | 2452 | 0.07% | 0.031% |
| 134 | 10.303 | 10.280 | 10.321 | VV | 460 | 6911 | 0.20% | 0.087% |
| 135 | 10.338 | 10.321 | 10.362 | VV | 396 | 6894 | 0.20% | 0.087% |
| 136 | 10.382 | 10.362 | 10.424 | VV | 330 | 9424 | 0.27% | 0.118% |
| 137 | 10.463 | 10.424 | 10.481 | VV | 237 | 6086 | 0.18% | 0.076% |
| 138 | 10.511 | 10.481 | 10.524 | VV | 400 | 7216 | 0.21% | 0.091% |
| 139 | 10.548 | 10.524 | 10.558 | VV | 344 | 5890 | 0.17% | 0.074% |
| 140 | 10.585 | 10.558 | 10.612 | VV | 436 | 11300 | 0.33% | 0.142% |
| 141 | 10.647 | 10.612 | 10.684 | VV | 503 | 16087 | 0.46% | 0.202% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.705 | 10.684 | 10.718 | VV | 370 | 5369 | 0.15% | 0.067% |
| 143 | 10.778 | 10.718 | 10.812 | VV | 763 | 25083 | 0.72% | 0.315% |
| 144 | 10.864 | 10.812 | 10.891 | VV | 296 | 9957 | 0.29% | 0.125% |
| 145 | 10.901 | 10.891 | 10.918 | VV | 204 | 2709 | 0.08% | 0.034% |
| 146 | 10.980 | 10.918 | 11.005 | VV | 260 | 9505 | 0.27% | 0.119% |
| 147 | 11.018 | 11.005 | 11.030 | VV | 274 | 3344 | 0.10% | 0.042% |
| 148 | 11.041 | 11.030 | 11.048 | VV | 290 | 2716 | 0.08% | 0.034% |
| 149 | 11.077 | 11.048 | 11.123 | VV | 432 | 11740 | 0.34% | 0.147% |
| 150 | 11.155 | 11.123 | 11.181 | VV | 245 | 4956 | 0.14% | 0.062% |
| 151 | 11.212 | 11.181 | 11.249 | VV | 159 | 4920 | 0.14% | 0.062% |
| 152 | 11.283 | 11.249 | 11.316 | VV | 5203 | 69491 | 2.01% | 0.872% |
| 153 | 11.355 | 11.316 | 11.419 | VV | 3048 | 49770 | 1.44% | 0.625% |
| 154 | 11.448 | 11.419 | 11.488 | VV | 1617 | 23813 | 0.69% | 0.299% |
| 155 | 11.504 | 11.488 | 11.515 | VV | 167 | 2121 | 0.06% | 0.027% |
| 156 | 11.523 | 11.515 | 11.544 | VV | 125 | 1846 | 0.05% | 0.023% |
| 157 | 11.577 | 11.544 | 11.603 | VV | 210 | 4976 | 0.14% | 0.062% |
| 158 | 11.684 | 11.603 | 11.698 | VV | 254 | 10323 | 0.30% | 0.130% |
| 159 | 11.714 | 11.698 | 11.728 | VV | 282 | 4406 | 0.13% | 0.055% |
| 160 | 11.748 | 11.728 | 11.784 | VV | 387 | 8353 | 0.24% | 0.105% |
| 161 | 11.812 | 11.784 | 11.861 | VV | 422 | 10283 | 0.30% | 0.129% |
| 162 | 11.912 | 11.861 | 11.941 | VV | 178 | 6680 | 0.19% | 0.084% |
| 163 | 12.017 | 11.941 | 12.054 | VV | 544 | 18981 | 0.55% | 0.238% |
| 164 | 12.075 | 12.054 | 12.111 | VV | 369 | 8504 | 0.25% | 0.107% |
| 165 | 12.120 | 12.111 | 12.138 | VV | 204 | 2385 | 0.07% | 0.030% |
| 166 | 12.156 | 12.138 | 12.174 | VV | 274 | 4833 | 0.14% | 0.061% |
| 167 | 12.181 | 12.174 | 12.204 | VV | 274 | 3591 | 0.10% | 0.045% |
| 168 | 12.247 | 12.204 | 12.288 | VV | 485 | 13911 | 0.40% | 0.175% |
| 169 | 12.312 | 12.288 | 12.380 | VV | 182 | 6191 | 0.18% | 0.078% |
| 170 | 12.396 | 12.380 | 12.418 | VV | 199 | 3351 | 0.10% | 0.042% |
| 171 | 12.473 | 12.418 | 12.491 | VV | 367 | 10663 | 0.31% | 0.134% |
| 172 | 12.526 | 12.491 | 12.556 | VV | 831 | 15501 | 0.45% | 0.195% |
| 173 | 12.604 | 12.556 | 12.641 | PV | 796 | 12313 | 0.36% | 0.155% |
| 174 | 12.664 | 12.641 | 12.699 | VV | 1693 | 22347 | 0.65% | 0.280% |
| 175 | 12.706 | 12.699 | 12.761 | VV | 174 | 4854 | 0.14% | 0.061% |
| 176 | 12.783 | 12.761 | 12.836 | VV | 327 | 6749 | 0.19% | 0.085% |
| 177 | 12.858 | 12.836 | 12.874 | VV | 114 | 1370 | 0.04% | 0.017% |
| 178 | 12.942 | 12.874 | 12.974 | VV | 296 | 8394 | 0.24% | 0.105% |
| 179 | 12.988 | 12.974 | 13.005 | VV | 202 | 3035 | 0.09% | 0.038% |
| 180 | 13.037 | 13.005 | 13.045 | VV | 165 | 3231 | 0.09% | 0.041% |
| 181 | 13.113 | 13.045 | 13.154 | VV | 299758 | 3464302 | 100.00% | 43.480% |
| 182 | 13.167 | 13.154 | 13.228 | VV | 341 | 9786 | 0.28% | 0.123% |
| 183 | 13.243 | 13.228 | 13.252 | VV | 228 | 2389 | 0.07% | 0.030% |
| 184 | 13.276 | 13.252 | 13.314 | VV | 594 | 12393 | 0.36% | 0.156% |
| 185 | 13.334 | 13.314 | 13.368 | VV | 392 | 8358 | 0.24% | 0.105% |
| 186 | 13.385 | 13.368 | 13.424 | VV | 281 | 6817 | 0.20% | 0.086% |
| 187 | 13.450 | 13.424 | 13.463 | VV | 216 | 3999 | 0.12% | 0.050% |
| 188 | 13.500 | 13.463 | 13.523 | VV | 310 | 8312 | 0.24% | 0.104% |
| 189 | 13.557 | 13.523 | 13.594 | VV | 374 | 11118 | 0.32% | 0.140% |
| 190 | 13.622 | 13.594 | 13.635 | VV | 219 | 3862 | 0.11% | 0.048% |
| 191 | 13.658 | 13.635 | 13.700 | VV | 241 | 6867 | 0.20% | 0.086% |
| 192 | 13.719 | 13.700 | 13.757 | VV | 249 | 5544 | 0.16% | 0.070% |
| 193 | 13.814 | 13.757 | 13.840 | VV | 620 | 11608 | 0.34% | 0.146% |
| 194 | 13.866 | 13.840 | 13.915 | VV | 1385 | 20071 | 0.58% | 0.252% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.920 | 13.915 | 13.947 | VV | 147 | 1601 | 0.05% | 0.020% |
| 196 | 13.958 | 13.947 | 13.981 | VV | 111 | 1023 | 0.03% | 0.013% |
| 197 | 13.993 | 13.981 | 14.018 | VV | 121 | 1003 | 0.03% | 0.013% |
| 198 | 14.025 | 14.018 | 14.035 | VV | 36 | 226 | 0.01% | 0.003% |
| 199 | 14.106 | 14.035 | 14.183 | PV | 170 | 8340 | 0.24% | 0.105% |
| 200 | 14.199 | 14.183 | 14.241 | VV | 164 | 3693 | 0.11% | 0.046% |
| 201 | 14.304 | 14.241 | 14.391 | VV | 1436 | 27585 | 0.80% | 0.346% |
| 202 | 14.428 | 14.391 | 14.464 | VV | 302 | 8171 | 0.24% | 0.103% |
| 203 | 14.577 | 14.464 | 14.638 | VV | 296 | 20822 | 0.60% | 0.261% |
| 204 | 14.686 | 14.638 | 14.704 | VV | 236 | 6511 | 0.19% | 0.082% |
| 205 | 14.711 | 14.704 | 14.718 | VV | 213 | 1296 | 0.04% | 0.016% |
| 206 | 14.749 | 14.718 | 14.777 | VV | 279 | 6786 | 0.20% | 0.085% |
| 207 | 14.790 | 14.777 | 14.801 | VV | 237 | 2795 | 0.08% | 0.035% |
| 208 | 14.812 | 14.801 | 14.844 | VV | 173 | 3697 | 0.11% | 0.046% |
| 209 | 14.850 | 14.844 | 14.884 | VV | 168 | 2376 | 0.07% | 0.030% |
| 210 | 14.926 | 14.884 | 14.948 | VV | 545 | 10653 | 0.31% | 0.134% |
| 211 | 14.971 | 14.948 | 15.013 | VV | 1375 | 21559 | 0.62% | 0.271% |
| 212 | 15.030 | 15.013 | 15.048 | VV | 182 | 2388 | 0.07% | 0.030% |
| 213 | 15.058 | 15.048 | 15.096 | VV | 181 | 3130 | 0.09% | 0.039% |
| 214 | 15.138 | 15.096 | 15.181 | VV | 241 | 6778 | 0.20% | 0.085% |
| 215 | 15.189 | 15.181 | 15.248 | VV | 143 | 4393 | 0.13% | 0.055% |
| 216 | 15.271 | 15.248 | 15.294 | VV | 242 | 2796 | 0.08% | 0.035% |
| 217 | 15.317 | 15.294 | 15.325 | VV | 109 | 1382 | 0.04% | 0.017% |
| 218 | 15.349 | 15.325 | 15.374 | VV | 156 | 3013 | 0.09% | 0.038% |
| 219 | 15.397 | 15.374 | 15.414 | VV | 161 | 3084 | 0.09% | 0.039% |
| 220 | 15.492 | 15.414 | 15.545 | VV | 338 | 12216 | 0.35% | 0.153% |
| 221 | 15.551 | 15.545 | 15.568 | VV | 121 | 1127 | 0.03% | 0.014% |
| 222 | 15.588 | 15.568 | 15.611 | VV | 142 | 2177 | 0.06% | 0.027% |
| 223 | 15.652 | 15.611 | 15.700 | VV | 203 | 8099 | 0.23% | 0.102% |
| 224 | 15.708 | 15.700 | 15.747 | VV | 173 | 4251 | 0.12% | 0.053% |
| 225 | 15.764 | 15.747 | 15.814 | VV | 278 | 8350 | 0.24% | 0.105% |
| 226 | 15.820 | 15.814 | 15.841 | VV | 266 | 3482 | 0.10% | 0.044% |
| 227 | 15.867 | 15.841 | 15.911 | VV | 341 | 10402 | 0.30% | 0.131% |
| 228 | 15.953 | 15.911 | 15.970 | VV | 451 | 10290 | 0.30% | 0.129% |
| 229 | 15.994 | 15.970 | 16.078 | VV | 1251 | 25273 | 0.73% | 0.317% |
| 230 | 16.092 | 16.078 | 16.101 | VV | 139 | 1700 | 0.05% | 0.021% |
| 231 | 16.121 | 16.101 | 16.133 | VV | 152 | 2369 | 0.07% | 0.030% |
| 232 | 16.155 | 16.133 | 16.209 | VV | 232 | 7007 | 0.20% | 0.088% |
| 233 | 16.252 | 16.225 | 16.265 | PV | 154 | 2831 | 0.08% | 0.036% |
| 234 | 16.290 | 16.265 | 16.368 | VV | 182 | 7014 | 0.20% | 0.088% |
| 235 | 16.402 | 16.368 | 16.423 | VV | 153 | 3849 | 0.11% | 0.048% |
| 236 | 16.441 | 16.423 | 16.451 | VV | 191 | 2547 | 0.07% | 0.032% |
| 237 | 16.482 | 16.451 | 16.498 | VV | 353 | 7364 | 0.21% | 0.092% |
| 238 | 16.512 | 16.498 | 16.591 | VV | 252 | 9611 | 0.28% | 0.121% |
| 239 | 16.596 | 16.591 | 16.611 | VV | 199 | 1822 | 0.05% | 0.023% |
| 240 | 16.648 | 16.611 | 16.664 | VV | 263 | 6045 | 0.17% | 0.076% |
| 241 | 16.686 | 16.664 | 16.763 | VV | 218 | 7674 | 0.22% | 0.096% |
| 242 | 16.775 | 16.763 | 16.828 | VV | 169 | 4722 | 0.14% | 0.059% |
| 243 | 16.842 | 16.828 | 16.874 | VV | 186 | 4293 | 0.12% | 0.054% |
| 244 | 16.886 | 16.874 | 16.890 | VV | 200 | 1702 | 0.05% | 0.021% |
| 245 | 16.913 | 16.890 | 16.923 | VV | 295 | 5192 | 0.15% | 0.065% |
| 246 | 16.947 | 16.923 | 16.981 | VV | 1316 | 19195 | 0.55% | 0.241% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 17.065 | 16.981 | 17.108 | VV | 147 | 7450 | 0.22% | 0.094% |
| 248 | 17.117 | 17.108 | 17.151 | VV | 108 | 1637 | 0.05% | 0.021% |
| 249 | 17.164 | 17.151 | 17.191 | PV | 88 | 1368 | 0.04% | 0.017% |
| 250 | 17.220 | 17.191 | 17.244 | VV | 146 | 3512 | 0.10% | 0.044% |
| 251 | 17.257 | 17.244 | 17.312 | VV | 125 | 3698 | 0.11% | 0.046% |
| 252 | 17.342 | 17.312 | 17.378 | VV | 204 | 5100 | 0.15% | 0.064% |
| 253 | 17.398 | 17.378 | 17.437 | VV | 484 | 7867 | 0.23% | 0.099% |
| 254 | 17.468 | 17.437 | 17.476 | VV | 122 | 1663 | 0.05% | 0.021% |
| 255 | 17.500 | 17.476 | 17.538 | VV | 220 | 5535 | 0.16% | 0.069% |
| 256 | 17.544 | 17.538 | 17.558 | VV | 129 | 1420 | 0.04% | 0.018% |
| 257 | 17.570 | 17.558 | 17.603 | VV | 159 | 3684 | 0.11% | 0.046% |
| 258 | 17.619 | 17.603 | 17.634 | VV | 174 | 2358 | 0.07% | 0.030% |
| 259 | 17.647 | 17.634 | 17.701 | VV | 172 | 4245 | 0.12% | 0.053% |
| 260 | 17.707 | 17.701 | 17.720 | VV | 112 | 926 | 0.03% | 0.012% |
| 261 | 17.729 | 17.720 | 17.761 | VV | 92 | 1772 | 0.05% | 0.022% |
| 262 | 17.836 | 17.761 | 17.902 | PV | 1560 | 32025 | 0.92% | 0.402% |
| 263 | 17.941 | 17.902 | 17.957 | VV | 160 | 3713 | 0.11% | 0.047% |
| 264 | 17.983 | 17.957 | 18.021 | VV | 283 | 7174 | 0.21% | 0.090% |
| 265 | 18.027 | 18.021 | 18.074 | VV | 190 | 4119 | 0.12% | 0.052% |
| 266 | 18.079 | 18.074 | 18.090 | VV | 153 | 1075 | 0.03% | 0.013% |
| 267 | 18.120 | 18.090 | 18.176 | VV | 264 | 6675 | 0.19% | 0.084% |
| 268 | 18.192 | 18.176 | 18.201 | PV | 178 | 1519 | 0.04% | 0.019% |
| 269 | 18.260 | 18.201 | 18.304 | VV | 670 | 13837 | 0.40% | 0.174% |
| 270 | 18.322 | 18.304 | 18.343 | VV | 118 | 1940 | 0.06% | 0.024% |
| 271 | 18.394 | 18.343 | 18.415 | VV | 132 | 3029 | 0.09% | 0.038% |
| 272 | 18.466 | 18.415 | 18.478 | VV | 85 | 1648 | 0.05% | 0.021% |
| 273 | 18.527 | 18.478 | 18.570 | VV | 206 | 8248 | 0.24% | 0.104% |
| 274 | 18.602 | 18.570 | 18.624 | VV | 212 | 5767 | 0.17% | 0.072% |
| 275 | 18.671 | 18.624 | 18.763 | VV | 1965 | 39140 | 1.13% | 0.491% |
| 276 | 18.780 | 18.763 | 18.807 | VV | 150 | 2544 | 0.07% | 0.032% |
| 277 | 18.820 | 18.807 | 18.847 | VV | 210 | 2892 | 0.08% | 0.036% |
| 278 | 18.875 | 18.847 | 18.883 | VV | 72 | 874 | 0.03% | 0.011% |
| 279 | 18.925 | 18.883 | 18.934 | VV | 155 | 2439 | 0.07% | 0.031% |
| 280 | 18.948 | 18.934 | 18.990 | VV | 156 | 2242 | 0.06% | 0.028% |
| 281 | 19.071 | 18.990 | 19.098 | PV | 643 | 16177 | 0.47% | 0.203% |
| 282 | 19.137 | 19.098 | 19.148 | VV | 262 | 6889 | 0.20% | 0.086% |
| 283 | 19.184 | 19.148 | 19.216 | VV | 311 | 9735 | 0.28% | 0.122% |
| 284 | 19.254 | 19.216 | 19.278 | VV | 586 | 10283 | 0.30% | 0.129% |
| 285 | 19.310 | 19.278 | 19.346 | VV | 370 | 11745 | 0.34% | 0.147% |
| 286 | 19.395 | 19.346 | 19.405 | VV | 400 | 11275 | 0.33% | 0.142% |
| 287 | 19.457 | 19.405 | 19.510 | VV | 2886 | 58516 | 1.69% | 0.734% |
| 288 | 19.545 | 19.510 | 19.580 | VV | 470 | 16461 | 0.48% | 0.207% |
| 289 | 19.675 | 19.580 | 19.681 | VV | 551 | 27262 | 0.79% | 0.342% |
| 290 | 19.752 | 19.681 | 19.791 | VV | 720 | 39295 | 1.13% | 0.493% |
| 291 | 19.833 | 19.791 | 19.848 | VV | 857 | 24877 | 0.72% | 0.312% |
| 292 | 19.865 | 19.848 | 19.882 | VV | 729 | 14210 | 0.41% | 0.178% |
| 293 | 19.938 | 19.882 | 19.954 | VV | 885 | 34160 | 0.99% | 0.429% |
| 294 | 19.962 | 19.954 | 19.969 | VV | 850 | 7091 | 0.20% | 0.089% |
| 295 | 20.111 | 19.969 | 20.133 | VV | 1260 | 101997 | 2.94% | 1.280% |
| 296 | 20.199 | 20.133 | 20.244 | VV | 5432 | 144151 | 4.16% | 1.809% |
| 297 | 20.256 | 20.244 | 20.283 | VV | 1463 | 33612 | 0.97% | 0.422% |
| 298 | 20.310 | 20.283 | 20.319 | VV | 1502 | 31380 | 0.91% | 0.394% |
| 299 | 20.526 | 20.319 | 20.651 | VV | 3517 | 408391 | 11.79% | 5.126% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 20.764 | 20.651 | 20.776 | VV | 1751 | 123379 | 3.56% | 1.549% |
| 301 | 20.782 | 20.776 | 20.843 | VV | 1684 | 64879 | 1.87% | 0.814% |
| 302 | 20.856 | 20.843 | 20.861 | VV | 1611 | 17589 | 0.51% | 0.221% |
| 303 | 20.867 | 20.861 | 20.894 | VV | 1610 | 29958 | 0.86% | 0.376% |
| 304 | 20.967 | 20.894 | 21.041 | VV | 7659 | 247992 | 7.16% | 3.113% |
| 305 | 21.057 | 21.041 | 21.086 | VV | 1384 | 36731 | 1.06% | 0.461% |
| 306 | 21.106 | 21.086 | 21.115 | VV | 1367 | 23549 | 0.68% | 0.296% |
| 307 | 21.121 | 21.115 | 21.154 | VV | 1352 | 29834 | 0.86% | 0.374% |
| 308 | 21.161 | 21.154 | 21.188 | VV | 1287 | 24250 | 0.70% | 0.304% |
| 309 | 21.208 | 21.188 | 21.234 | VV | 1224 | 32344 | 0.93% | 0.406% |
| 310 | 21.248 | 21.234 | 21.261 | VV | 1141 | 18135 | 0.52% | 0.228% |
| 311 | 21.295 | 21.261 | 21.308 | VV | 1147 | 30990 | 0.89% | 0.389% |
| 312 | 21.313 | 21.308 | 21.375 | VV | 1161 | 44127 | 1.27% | 0.554% |
| 313 | 21.384 | 21.375 | 21.411 | VV | 1035 | 22258 | 0.64% | 0.279% |
| 314 | 21.418 | 21.411 | 21.720 | VV | 1056 | 162315 | 4.69% | 2.037% |
| 315 | 21.801 | 21.720 | 21.835 | VV | 771 | 48916 | 1.41% | 0.614% |
| 316 | 21.936 | 21.835 | 22.041 | VV | 8361 | 274495 | 7.92% | 3.445% |
| 317 | 22.063 | 22.041 | 22.090 | VV | 458 | 12238 | 0.35% | 0.154% |
| 318 | 22.110 | 22.090 | 22.151 | VV | 383 | 12328 | 0.36% | 0.155% |
| 319 | 22.189 | 22.151 | 22.282 | VV | 328 | 20153 | 0.58% | 0.253% |
| 320 | 22.302 | 22.282 | 22.364 | VV | 238 | 7198 | 0.21% | 0.090% |

Sum of corrected areas: 7967556

Aliphatic EPH 052425.M Tue Jun 10 06:24:10 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049418.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 18:17
Operator : YP/AJ
Sample : Q2177-08
Misc :
ALS Vial : 64 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
EB05312025

Integration File: autoint1.e
Quant Time: Jun 10 02:36:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| **System Monitoring Compounds** | | | |
| 4) S 2-Bromonaphthalene (S... | 7.734 | 8111967 | 48.798 ug/ml |
| Spiked Amount 50.000 | | Recovery = 97.60% | |
| 6) S 2-Flurobiphenyl (SURR) | 8.600 | 5429129 | 47.459 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 | | Recovery = 94.92% | |
| 11) S ortho-Terphenyl (SURR) | 11.648 | 8823947 | 43.961 ug/ml |
| Spiked Amount 50.000 | | Recovery = 87.92% | |
| **Target Compounds** | | | |

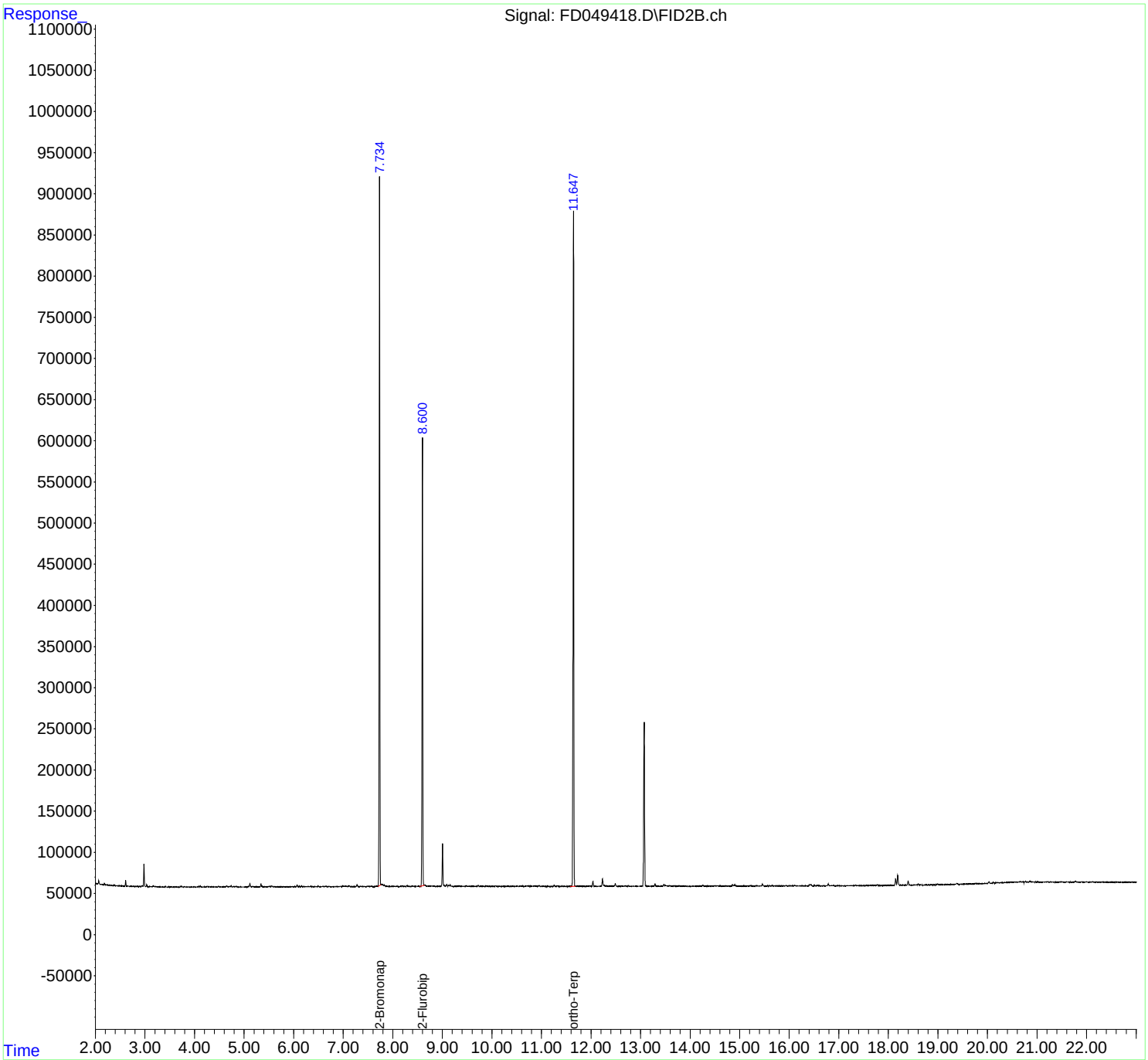
(f)=RT Delta > 1/2 Window (m)=manual int.

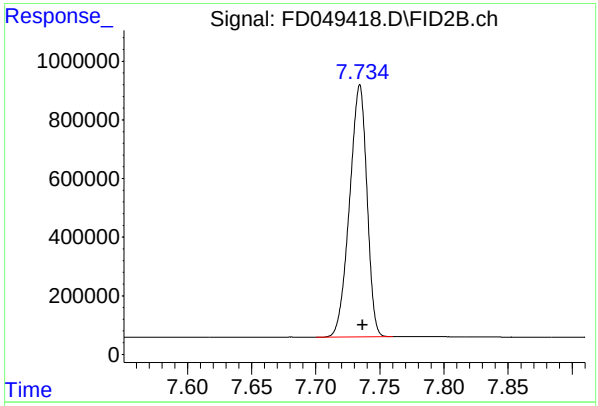
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049418.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 18:17
Operator : YP/AJ
Sample : Q2177-08
Misc :
ALS Vial : 64 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
EB05312025

Integration File: autoint1.e
Quant Time: Jun 10 02:36:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

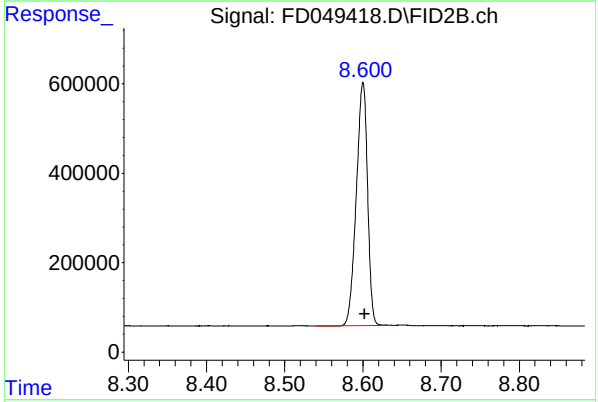





#4 2-Bromonaphthalene (SURR)

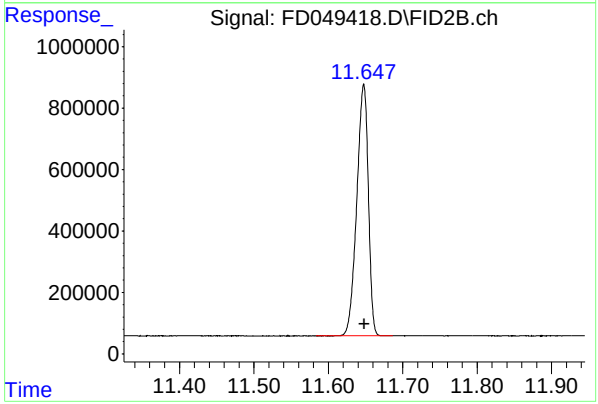
R.T.: 7.734 min
Delta R.T.: -0.002 min
Response: 8111967
Conc: 48.80 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
EB05312025




#6 2-Flurobiphenyl (SURR)

R.T.: 8.600 min
Delta R.T.: -0.002 min
Response: 5429129
Conc: 47.46 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.648 min
Delta R.T.: 0.000 min
Response: 8823947
Conc: 43.96 ug/ml

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049418.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 18:17
Sample : Q2177-08
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.258 | 4.252 | 4.279 | PH | 824 | 7871 | 0.09% | 0.026% |
| 2 | 4.291 | 4.279 | 4.309 | PV | 328 | 3254 | 0.04% | 0.011% |
| 3 | 4.339 | 4.320 | 4.352 | VV | 241 | 2376 | 0.03% | 0.008% |
| 4 | 4.380 | 4.352 | 4.397 | PV | 345 | 4105 | 0.05% | 0.014% |
| 5 | 4.412 | 4.404 | 4.432 | PV | 289 | 2721 | 0.03% | 0.009% |
| 6 | 4.445 | 4.440 | 4.461 | VV | 364 | 2213 | 0.03% | 0.007% |
| 7 | 4.484 | 4.461 | 4.517 | PV | 1305 | 16144 | 0.18% | 0.053% |
| 8 | 4.529 | 4.517 | 4.565 | VV | 493 | 7574 | 0.09% | 0.025% |
| 9 | 4.572 | 4.565 | 4.583 | VV | 379 | 3719 | 0.04% | 0.012% |
| 10 | 4.653 | 4.583 | 4.674 | VV | 1703 | 37483 | 0.42% | 0.124% |
| 11 | 4.678 | 4.674 | 4.683 | VV | 398 | 2180 | 0.02% | 0.007% |
| 12 | 4.708 | 4.683 | 4.721 | VV | 1051 | 13919 | 0.16% | 0.046% |
| 13 | 4.737 | 4.721 | 4.754 | VV | 1995 | 19499 | 0.22% | 0.064% |
| 14 | 4.770 | 4.754 | 4.776 | VV | 452 | 4185 | 0.05% | 0.014% |
| 15 | 4.791 | 4.776 | 4.812 | VV | 1171 | 13329 | 0.15% | 0.044% |
| 16 | 4.830 | 4.812 | 4.846 | VV | 1007 | 13544 | 0.15% | 0.045% |
| 17 | 4.852 | 4.846 | 4.895 | VV | 709 | 10356 | 0.12% | 0.034% |
| 18 | 4.927 | 4.907 | 4.947 | VV | 674 | 9292 | 0.11% | 0.031% |
| 19 | 4.960 | 4.947 | 4.968 | VV | 344 | 2814 | 0.03% | 0.009% |
| 20 | 4.972 | 4.968 | 4.980 | VV | 241 | 1549 | 0.02% | 0.005% |
| 21 | 4.986 | 4.980 | 4.996 | VV | 342 | 2260 | 0.03% | 0.007% |
| 22 | 5.003 | 4.996 | 5.010 | VV | 365 | 2186 | 0.02% | 0.007% |
| 23 | 5.038 | 5.010 | 5.053 | VV | 528 | 8469 | 0.10% | 0.028% |
| 24 | 5.072 | 5.053 | 5.077 | VV | 377 | 4055 | 0.05% | 0.013% |
| 25 | 5.091 | 5.077 | 5.099 | VV | 912 | 7925 | 0.09% | 0.026% |
| 26 | 5.117 | 5.099 | 5.155 | VV | 4330 | 52224 | 0.59% | 0.172% |
| 27 | 5.175 | 5.155 | 5.198 | VV | 1033 | 16324 | 0.18% | 0.054% |
| 28 | 5.202 | 5.198 | 5.215 | VV | 602 | 4523 | 0.05% | 0.015% |
| 29 | 5.226 | 5.215 | 5.266 | VV | 765 | 15422 | 0.17% | 0.051% |
| 30 | 5.288 | 5.266 | 5.294 | VV | 515 | 7150 | 0.08% | 0.024% |
| 31 | 5.315 | 5.294 | 5.323 | VV | 603 | 8492 | 0.10% | 0.028% |
| 32 | 5.340 | 5.323 | 5.395 | VV | 4123 | 54757 | 0.62% | 0.181% |
| 33 | 5.399 | 5.395 | 5.421 | VV | 478 | 6216 | 0.07% | 0.021% |
| 34 | 5.436 | 5.421 | 5.442 | VV | 472 | 5010 | 0.06% | 0.017% |
| 35 | 5.485 | 5.442 | 5.503 | VV | 718 | 17631 | 0.20% | 0.058% |
| 36 | 5.519 | 5.503 | 5.540 | VV | 974 | 14116 | 0.16% | 0.047% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.560 | 5.540 | 5.588 | VV | 1771 | 24738 | 0.28% | 0.082% |
| 38 | 5.590 | 5.588 | 5.595 | VV | 442 | 1601 | 0.02% | 0.005% |
| 39 | 5.618 | 5.595 | 5.642 | VV | 672 | 12183 | 0.14% | 0.040% |
| 40 | 5.646 | 5.642 | 5.651 | VV | 300 | 1338 | 0.02% | 0.004% |
| 41 | 5.678 | 5.651 | 5.698 | VV | 606 | 11616 | 0.13% | 0.038% |
| 42 | 5.706 | 5.698 | 5.725 | VV | 449 | 5937 | 0.07% | 0.020% |
| 43 | 5.736 | 5.725 | 5.742 | VV | 611 | 4121 | 0.05% | 0.014% |
| 44 | 5.743 | 5.742 | 5.753 | VV | 441 | 2201 | 0.02% | 0.007% |
| 45 | 5.761 | 5.753 | 5.781 | VV | 599 | 6493 | 0.07% | 0.021% |
| 46 | 5.803 | 5.781 | 5.830 | VV | 765 | 12101 | 0.14% | 0.040% |
| 47 | 5.835 | 5.830 | 5.841 | VV | 423 | 1814 | 0.02% | 0.006% |
| 48 | 5.858 | 5.841 | 5.880 | VV | 718 | 9983 | 0.11% | 0.033% |
| 49 | 5.934 | 5.880 | 5.953 | VV | 556 | 16776 | 0.19% | 0.055% |
| 50 | 5.967 | 5.953 | 5.995 | VV | 791 | 12669 | 0.14% | 0.042% |
| 51 | 6.008 | 5.995 | 6.015 | VV | 419 | 3938 | 0.04% | 0.013% |
| 52 | 6.029 | 6.015 | 6.042 | VV | 710 | 8340 | 0.09% | 0.028% |
| 53 | 6.071 | 6.042 | 6.102 | VV | 2547 | 36068 | 0.41% | 0.119% |
| 54 | 6.122 | 6.102 | 6.132 | VV | 859 | 11618 | 0.13% | 0.038% |
| 55 | 6.135 | 6.132 | 6.141 | VV | 456 | 2536 | 0.03% | 0.008% |
| 56 | 6.159 | 6.141 | 6.185 | VV | 1212 | 18633 | 0.21% | 0.061% |
| 57 | 6.194 | 6.185 | 6.200 | VV | 615 | 4705 | 0.05% | 0.016% |
| 58 | 6.213 | 6.200 | 6.253 | VV | 676 | 16059 | 0.18% | 0.053% |
| 59 | 6.293 | 6.253 | 6.300 | VV | 651 | 14129 | 0.16% | 0.047% |
| 60 | 6.326 | 6.300 | 6.332 | VV | 571 | 9163 | 0.10% | 0.030% |
| 61 | 6.352 | 6.332 | 6.377 | VV | 1145 | 16403 | 0.19% | 0.054% |
| 62 | 6.385 | 6.377 | 6.400 | VV | 522 | 5535 | 0.06% | 0.018% |
| 63 | 6.404 | 6.400 | 6.417 | VV | 351 | 3179 | 0.04% | 0.010% |
| 64 | 6.423 | 6.417 | 6.447 | VV | 549 | 7279 | 0.08% | 0.024% |
| 65 | 6.450 | 6.447 | 6.475 | VV | 479 | 7205 | 0.08% | 0.024% |
| 66 | 6.496 | 6.475 | 6.527 | VV | 1580 | 24138 | 0.27% | 0.080% |
| 67 | 6.543 | 6.527 | 6.549 | VV | 538 | 4824 | 0.05% | 0.016% |
| 68 | 6.582 | 6.549 | 6.605 | VV | 909 | 18813 | 0.21% | 0.062% |
| 69 | 6.616 | 6.605 | 6.633 | VV | 736 | 9811 | 0.11% | 0.032% |
| 70 | 6.647 | 6.633 | 6.668 | VV | 1299 | 15977 | 0.18% | 0.053% |
| 71 | 6.679 | 6.668 | 6.700 | VV | 623 | 9064 | 0.10% | 0.030% |
| 72 | 6.719 | 6.700 | 6.755 | VV | 920 | 17137 | 0.19% | 0.057% |
| 73 | 6.758 | 6.755 | 6.770 | VV | 444 | 3257 | 0.04% | 0.011% |
| 74 | 6.778 | 6.770 | 6.798 | VV | 371 | 4929 | 0.06% | 0.016% |
| 75 | 6.810 | 6.798 | 6.837 | VV | 688 | 9518 | 0.11% | 0.031% |
| 76 | 6.842 | 6.837 | 6.860 | VV | 510 | 5266 | 0.06% | 0.017% |
| 77 | 6.869 | 6.860 | 6.898 | VV | 557 | 10049 | 0.11% | 0.033% |
| 78 | 6.939 | 6.898 | 6.967 | VV | 934 | 21049 | 0.24% | 0.069% |
| 79 | 6.993 | 6.967 | 7.015 | VV | 1177 | 23773 | 0.27% | 0.078% |
| 80 | 7.020 | 7.015 | 7.023 | VV | 691 | 3139 | 0.04% | 0.010% |
| 81 | 7.045 | 7.023 | 7.087 | VV | 1235 | 32655 | 0.37% | 0.108% |
| 82 | 7.121 | 7.087 | 7.145 | VV | 1664 | 32757 | 0.37% | 0.108% |
| 83 | 7.150 | 7.145 | 7.165 | VV | 637 | 6437 | 0.07% | 0.021% |
| 84 | 7.176 | 7.165 | 7.186 | VV | 649 | 6916 | 0.08% | 0.023% |
| 85 | 7.193 | 7.186 | 7.218 | VV | 714 | 10463 | 0.12% | 0.035% |
| 86 | 7.223 | 7.218 | 7.246 | VV | 585 | 7608 | 0.09% | 0.025% |
| 87 | 7.279 | 7.246 | 7.330 | VV | 2977 | 49256 | 0.56% | 0.163% |
| 88 | 7.343 | 7.330 | 7.355 | VV | 684 | 8618 | 0.10% | 0.028% |
| 89 | 7.359 | 7.355 | 7.370 | VV | 651 | 5017 | 0.06% | 0.017% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.387 | 7.370 | 7.399 | VV | 716 | 10436 | 0.12% | 0.034% |
| 91 | 7.421 | 7.399 | 7.438 | VV | 967 | 16025 | 0.18% | 0.053% |
| 92 | 7.485 | 7.438 | 7.500 | VV | 961 | 23248 | 0.26% | 0.077% |
| 93 | 7.508 | 7.500 | 7.532 | VV | 911 | 13681 | 0.15% | 0.045% |
| 94 | 7.553 | 7.532 | 7.585 | VV | 687 | 17182 | 0.19% | 0.057% |
| 95 | 7.594 | 7.585 | 7.612 | VV | 627 | 6814 | 0.08% | 0.022% |
| 96 | 7.623 | 7.612 | 7.631 | VV | 605 | 5305 | 0.06% | 0.018% |
| 97 | 7.657 | 7.631 | 7.665 | VV | 805 | 13574 | 0.15% | 0.045% |
| 98 | 7.681 | 7.665 | 7.702 | VV | 1323 | 20179 | 0.23% | 0.067% |
| 99 | 7.734 | 7.702 | 7.760 | VV | 865771 | 8171984 | 92.42% | 26.963% |
| 100 | 7.775 | 7.760 | 7.814 | VV | 3202 | 88908 | 1.01% | 0.293% |
| 101 | 7.826 | 7.814 | 7.905 | VV | 2210 | 63146 | 0.71% | 0.208% |
| 102 | 7.910 | 7.905 | 7.920 | VV | 642 | 5124 | 0.06% | 0.017% |
| 103 | 7.934 | 7.920 | 7.944 | VV | 715 | 8353 | 0.09% | 0.028% |
| 104 | 7.948 | 7.944 | 7.965 | VV | 689 | 6506 | 0.07% | 0.021% |
| 105 | 7.982 | 7.965 | 8.000 | VV | 997 | 14822 | 0.17% | 0.049% |
| 106 | 8.002 | 8.000 | 8.005 | VV | 760 | 2291 | 0.03% | 0.008% |
| 107 | 8.010 | 8.005 | 8.017 | VV | 769 | 4753 | 0.05% | 0.016% |
| 108 | 8.023 | 8.017 | 8.042 | VV | 662 | 8672 | 0.10% | 0.029% |
| 109 | 8.049 | 8.042 | 8.057 | VV | 615 | 5141 | 0.06% | 0.017% |
| 110 | 8.072 | 8.057 | 8.102 | VV | 750 | 16002 | 0.18% | 0.053% |
| 111 | 8.161 | 8.102 | 8.167 | VV | 786 | 20444 | 0.23% | 0.067% |
| 112 | 8.194 | 8.167 | 8.198 | VV | 1393 | 18522 | 0.21% | 0.061% |
| 113 | 8.201 | 8.198 | 8.222 | VV | 1108 | 11056 | 0.13% | 0.036% |
| 114 | 8.230 | 8.222 | 8.237 | VV | 857 | 6745 | 0.08% | 0.022% |
| 115 | 8.241 | 8.237 | 8.246 | VV | 821 | 3774 | 0.04% | 0.012% |
| 116 | 8.248 | 8.246 | 8.254 | VV | 774 | 3059 | 0.03% | 0.010% |
| 117 | 8.287 | 8.254 | 8.308 | VV | 1761 | 30816 | 0.35% | 0.102% |
| 118 | 8.315 | 8.308 | 8.329 | VV | 772 | 7897 | 0.09% | 0.026% |
| 119 | 8.334 | 8.329 | 8.337 | VV | 535 | 2314 | 0.03% | 0.008% |
| 120 | 8.350 | 8.337 | 8.363 | VV | 894 | 9694 | 0.11% | 0.032% |
| 121 | 8.404 | 8.363 | 8.416 | VV | 901 | 22359 | 0.25% | 0.074% |
| 122 | 8.429 | 8.416 | 8.455 | VV | 828 | 16028 | 0.18% | 0.053% |
| 123 | 8.460 | 8.455 | 8.467 | VV | 525 | 2881 | 0.03% | 0.010% |
| 124 | 8.479 | 8.467 | 8.497 | VV | 854 | 11434 | 0.13% | 0.038% |
| 125 | 8.501 | 8.497 | 8.504 | VV | 669 | 2619 | 0.03% | 0.009% |
| 126 | 8.519 | 8.504 | 8.548 | VV | 1014 | 19423 | 0.22% | 0.064% |
| 127 | 8.600 | 8.548 | 8.638 | VV | 546011 | 5501452 | 62.22% | 18.152% |
| 128 | 8.650 | 8.638 | 8.678 | VV | 2625 | 42988 | 0.49% | 0.142% |
| 129 | 8.696 | 8.678 | 8.715 | VV | 1161 | 22262 | 0.25% | 0.073% |
| 130 | 8.718 | 8.715 | 8.728 | VV | 1057 | 7138 | 0.08% | 0.024% |
| 131 | 8.745 | 8.728 | 8.764 | VV | 1203 | 20640 | 0.23% | 0.068% |
| 132 | 8.788 | 8.764 | 8.815 | VV | 1152 | 29898 | 0.34% | 0.099% |
| 133 | 8.828 | 8.815 | 8.838 | VV | 1122 | 13465 | 0.15% | 0.044% |
| 134 | 8.845 | 8.838 | 8.869 | VV | 1085 | 12911 | 0.15% | 0.043% |
| 135 | 8.888 | 8.869 | 8.903 | VV | 741 | 11469 | 0.13% | 0.038% |
| 136 | 8.911 | 8.903 | 8.927 | VV | 915 | 10714 | 0.12% | 0.035% |
| 137 | 8.933 | 8.927 | 8.966 | VV | 960 | 15319 | 0.17% | 0.051% |
| 138 | 9.006 | 8.966 | 9.028 | VV | 52419 | 536815 | 6.07% | 1.771% |
| 139 | 9.036 | 9.028 | 9.052 | VV | 2102 | 23736 | 0.27% | 0.078% |
| 140 | 9.061 | 9.052 | 9.072 | VV | 1252 | 13676 | 0.15% | 0.045% |
| 141 | 9.089 | 9.072 | 9.110 | VV | 3135 | 41587 | 0.47% | 0.137% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.125 | 9.110 | 9.146 | VV | 2073 | 32568 | 0.37% | 0.107% |
| 143 | 9.161 | 9.146 | 9.182 | VV | 2661 | 34019 | 0.38% | 0.112% |
| 144 | 9.197 | 9.182 | 9.230 | VV | 922 | 16313 | 0.18% | 0.054% |
| 145 | 9.245 | 9.230 | 9.265 | VV | 694 | 11216 | 0.13% | 0.037% |
| 146 | 9.271 | 9.265 | 9.277 | VV | 756 | 4434 | 0.05% | 0.015% |
| 147 | 9.295 | 9.277 | 9.316 | VV | 1069 | 17347 | 0.20% | 0.057% |
| 148 | 9.341 | 9.316 | 9.357 | VV | 1105 | 20837 | 0.24% | 0.069% |
| 149 | 9.361 | 9.357 | 9.382 | VV | 684 | 8392 | 0.09% | 0.028% |
| 150 | 9.396 | 9.382 | 9.429 | VV | 800 | 19484 | 0.22% | 0.064% |
| 151 | 9.441 | 9.429 | 9.448 | VV | 778 | 7692 | 0.09% | 0.025% |
| 152 | 9.453 | 9.448 | 9.458 | VV | 714 | 3971 | 0.04% | 0.013% |
| 153 | 9.476 | 9.458 | 9.532 | VV | 1393 | 31031 | 0.35% | 0.102% |
| 154 | 9.546 | 9.532 | 9.555 | VV | 647 | 6875 | 0.08% | 0.023% |
| 155 | 9.559 | 9.555 | 9.575 | VV | 533 | 5668 | 0.06% | 0.019% |
| 156 | 9.588 | 9.575 | 9.594 | VV | 584 | 6184 | 0.07% | 0.020% |
| 157 | 9.612 | 9.594 | 9.644 | VV | 798 | 17395 | 0.20% | 0.057% |
| 158 | 9.663 | 9.644 | 9.677 | VV | 703 | 10656 | 0.12% | 0.035% |
| 159 | 9.681 | 9.677 | 9.698 | VV | 572 | 5238 | 0.06% | 0.017% |
| 160 | 9.723 | 9.698 | 9.744 | VV | 1715 | 25933 | 0.29% | 0.086% |
| 161 | 9.755 | 9.744 | 9.761 | VV | 682 | 5773 | 0.07% | 0.019% |
| 162 | 9.765 | 9.761 | 9.784 | VV | 593 | 6660 | 0.08% | 0.022% |
| 163 | 9.793 | 9.784 | 9.814 | VV | 681 | 10285 | 0.12% | 0.034% |
| 164 | 9.822 | 9.814 | 9.857 | VV | 606 | 10946 | 0.12% | 0.036% |
| 165 | 9.884 | 9.857 | 9.917 | VV | 1044 | 22562 | 0.26% | 0.074% |
| 166 | 9.922 | 9.917 | 9.931 | VV | 434 | 3360 | 0.04% | 0.011% |
| 167 | 9.959 | 9.931 | 9.967 | VV | 680 | 10842 | 0.12% | 0.036% |
| 168 | 9.973 | 9.967 | 9.994 | VV | 627 | 8390 | 0.09% | 0.028% |
| 169 | 9.998 | 9.994 | 10.007 | VV | 507 | 3333 | 0.04% | 0.011% |
| 170 | 10.010 | 10.007 | 10.015 | VV | 434 | 2000 | 0.02% | 0.007% |
| 171 | 10.019 | 10.015 | 10.023 | VV | 525 | 2037 | 0.02% | 0.007% |
| 172 | 10.030 | 10.023 | 10.034 | VV | 470 | 2741 | 0.03% | 0.009% |
| 173 | 10.048 | 10.034 | 10.055 | VV | 532 | 6049 | 0.07% | 0.020% |
| 174 | 10.080 | 10.055 | 10.100 | VV | 1382 | 21920 | 0.25% | 0.072% |
| 175 | 10.106 | 10.100 | 10.125 | VV | 681 | 7323 | 0.08% | 0.024% |
| 176 | 10.162 | 10.125 | 10.174 | VV | 623 | 11683 | 0.13% | 0.039% |
| 177 | 10.202 | 10.174 | 10.230 | VV | 704 | 16127 | 0.18% | 0.053% |
| 178 | 10.249 | 10.230 | 10.259 | VV | 505 | 7490 | 0.08% | 0.025% |
| 179 | 10.270 | 10.259 | 10.283 | VV | 599 | 6744 | 0.08% | 0.022% |
| 180 | 10.289 | 10.283 | 10.293 | VV | 528 | 2675 | 0.03% | 0.009% |
| 181 | 10.312 | 10.293 | 10.332 | VV | 718 | 12675 | 0.14% | 0.042% |
| 182 | 10.346 | 10.332 | 10.352 | VV | 723 | 7002 | 0.08% | 0.023% |
| 183 | 10.358 | 10.352 | 10.378 | VV | 600 | 8709 | 0.10% | 0.029% |
| 184 | 10.381 | 10.378 | 10.390 | VV | 664 | 3123 | 0.04% | 0.010% |
| 185 | 10.405 | 10.390 | 10.426 | VV | 845 | 13392 | 0.15% | 0.044% |
| 186 | 10.438 | 10.426 | 10.445 | VV | 617 | 5751 | 0.07% | 0.019% |
| 187 | 10.446 | 10.445 | 10.452 | VV | 581 | 1589 | 0.02% | 0.005% |
| 188 | 10.509 | 10.452 | 10.522 | VV | 788 | 24664 | 0.28% | 0.081% |
| 189 | 10.529 | 10.522 | 10.534 | VV | 649 | 4338 | 0.05% | 0.014% |
| 190 | 10.541 | 10.534 | 10.548 | VV | 575 | 4440 | 0.05% | 0.015% |
| 191 | 10.568 | 10.548 | 10.586 | VV | 872 | 14677 | 0.17% | 0.048% |
| 192 | 10.604 | 10.586 | 10.623 | VV | 942 | 16488 | 0.19% | 0.054% |
| 193 | 10.625 | 10.623 | 10.654 | VV | 673 | 8270 | 0.09% | 0.027% |
| 194 | 10.677 | 10.654 | 10.682 | VV | 830 | 9683 | 0.11% | 0.032% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 10.685 | 10.682 | 10.691 | VV | 804 | 3652 | 0.04% | 0.012% |
| 196 | 10.695 | 10.691 | 10.703 | VV | 671 | 4468 | 0.05% | 0.015% |
| 197 | 10.715 | 10.703 | 10.735 | VV | 1010 | 15301 | 0.17% | 0.050% |
| 198 | 10.753 | 10.735 | 10.782 | VV | 1162 | 19572 | 0.22% | 0.065% |
| 199 | 10.792 | 10.782 | 10.798 | VV | 638 | 4098 | 0.05% | 0.014% |
| 200 | 10.811 | 10.798 | 10.833 | VV | 604 | 10860 | 0.12% | 0.036% |
| 201 | 10.842 | 10.833 | 10.855 | VV | 659 | 7512 | 0.08% | 0.025% |
| 202 | 10.868 | 10.855 | 10.920 | VV | 1124 | 23755 | 0.27% | 0.078% |
| 203 | 10.949 | 10.920 | 10.977 | VV | 1287 | 24464 | 0.28% | 0.081% |
| 204 | 10.988 | 10.977 | 11.006 | VV | 600 | 8206 | 0.09% | 0.027% |
| 205 | 11.028 | 11.006 | 11.035 | VV | 567 | 7086 | 0.08% | 0.023% |
| 206 | 11.047 | 11.035 | 11.061 | VV | 701 | 7883 | 0.09% | 0.026% |
| 207 | 11.066 | 11.061 | 11.093 | VV | 497 | 6684 | 0.08% | 0.022% |
| 208 | 11.099 | 11.093 | 11.118 | VV | 230 | 3567 | 0.04% | 0.012% |
| 209 | 11.139 | 11.118 | 11.165 | VV | 524 | 8391 | 0.09% | 0.028% |
| 210 | 11.177 | 11.165 | 11.188 | VV | 304 | 2975 | 0.03% | 0.010% |
| 211 | 11.194 | 11.188 | 11.198 | VV | 270 | 1227 | 0.01% | 0.004% |
| 212 | 11.215 | 11.198 | 11.229 | VV | 375 | 4967 | 0.06% | 0.016% |
| 213 | 11.253 | 11.229 | 11.280 | VV | 1693 | 24704 | 0.28% | 0.082% |
| 214 | 11.300 | 11.280 | 11.308 | VV | 571 | 7449 | 0.08% | 0.025% |
| 215 | 11.329 | 11.308 | 11.353 | VV | 1230 | 19856 | 0.22% | 0.066% |
| 216 | 11.359 | 11.353 | 11.367 | VV | 438 | 2545 | 0.03% | 0.008% |
| 217 | 11.375 | 11.367 | 11.385 | VV | 431 | 3636 | 0.04% | 0.012% |
| 218 | 11.414 | 11.385 | 11.432 | VV | 957 | 15192 | 0.17% | 0.050% |
| 219 | 11.437 | 11.432 | 11.445 | VV | 456 | 2640 | 0.03% | 0.009% |
| 220 | 11.453 | 11.445 | 11.459 | VV | 331 | 2511 | 0.03% | 0.008% |
| 221 | 11.467 | 11.459 | 11.505 | VV | 390 | 7845 | 0.09% | 0.026% |
| 222 | 11.512 | 11.505 | 11.532 | VV | 283 | 3292 | 0.04% | 0.011% |
| 223 | 11.539 | 11.532 | 11.551 | VV | 372 | 2665 | 0.03% | 0.009% |
| 224 | 11.559 | 11.551 | 11.574 | VV | 345 | 3748 | 0.04% | 0.012% |
| 225 | 11.589 | 11.574 | 11.605 | VV | 368 | 5356 | 0.06% | 0.018% |
| 226 | 11.648 | 11.605 | 11.687 | VV | 819971 | 8842644 | 100.00% | 29.175% |
| 227 | 11.721 | 11.687 | 11.725 | VV | 725 | 12364 | 0.14% | 0.041% |
| 228 | 11.731 | 11.725 | 11.756 | VV | 822 | 11318 | 0.13% | 0.037% |
| 229 | 11.771 | 11.756 | 11.777 | VV | 594 | 5794 | 0.07% | 0.019% |
| 230 | 11.788 | 11.777 | 11.793 | VV | 673 | 5736 | 0.06% | 0.019% |
| 231 | 11.802 | 11.793 | 11.830 | VV | 810 | 10860 | 0.12% | 0.036% |
| 232 | 11.839 | 11.830 | 11.854 | VV | 432 | 4230 | 0.05% | 0.014% |
| 233 | 11.862 | 11.854 | 11.877 | VV | 390 | 3779 | 0.04% | 0.012% |
| 234 | 11.882 | 11.877 | 11.913 | VV | 324 | 6511 | 0.07% | 0.021% |
| 235 | 11.981 | 11.913 | 12.013 | VV | 902 | 33175 | 0.38% | 0.109% |
| 236 | 12.040 | 12.013 | 12.068 | VV | 6332 | 76794 | 0.87% | 0.253% |
| 237 | 12.081 | 12.068 | 12.102 | VV | 709 | 9239 | 0.10% | 0.030% |
| 238 | 12.120 | 12.102 | 12.140 | VV | 473 | 8956 | 0.10% | 0.030% |
| 239 | 12.232 | 12.140 | 12.350 | VV | 9266 | 184613 | 2.09% | 0.609% |
| 240 | 12.364 | 12.350 | 12.387 | VV | 671 | 11995 | 0.14% | 0.040% |
| 241 | 12.403 | 12.387 | 12.410 | VV | 538 | 7325 | 0.08% | 0.024% |
| 242 | 12.420 | 12.410 | 12.428 | VV | 568 | 5904 | 0.07% | 0.019% |
| 243 | 12.443 | 12.428 | 12.457 | VV | 790 | 10305 | 0.12% | 0.034% |
| 244 | 12.492 | 12.457 | 12.538 | VV | 3511 | 60559 | 0.68% | 0.200% |
| 245 | 12.568 | 12.538 | 12.595 | VV | 714 | 13632 | 0.15% | 0.045% |
| 246 | 12.627 | 12.595 | 12.658 | VV | 935 | 18618 | 0.21% | 0.061% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 12.690 | 12.658 | 12.727 | VV | 889 | 20283 | 0.23% | 0.067% |
| 248 | 12.748 | 12.727 | 12.792 | VV | 774 | 17801 | 0.20% | 0.059% |
| 249 | 12.810 | 12.792 | 12.823 | VV | 365 | 5069 | 0.06% | 0.017% |
| 250 | 12.833 | 12.823 | 12.849 | VV | 339 | 4754 | 0.05% | 0.016% |
| 251 | 12.862 | 12.849 | 12.890 | VV | 488 | 8438 | 0.10% | 0.028% |
| 252 | 12.915 | 12.890 | 12.950 | VV | 517 | 14002 | 0.16% | 0.046% |
| 253 | 12.988 | 12.950 | 13.010 | VV | 630 | 14225 | 0.16% | 0.047% |
| 254 | 13.028 | 13.010 | 13.038 | VV | 713 | 9394 | 0.11% | 0.031% |
| 255 | 13.073 | 13.038 | 13.107 | VV | 199918 | 2312088 | 26.15% | 7.629% |
| 256 | 13.116 | 13.107 | 13.172 | VV | 672 | 17225 | 0.19% | 0.057% |
| 257 | 13.231 | 13.172 | 13.252 | VV | 481 | 15399 | 0.17% | 0.051% |
| 258 | 13.291 | 13.252 | 13.318 | VV | 3207 | 47901 | 0.54% | 0.158% |
| 259 | 13.356 | 13.318 | 13.392 | VV | 552 | 18379 | 0.21% | 0.061% |
| 260 | 13.413 | 13.392 | 13.430 | VV | 540 | 8463 | 0.10% | 0.028% |
| 261 | 13.469 | 13.430 | 13.549 | VV | 2492 | 73715 | 0.83% | 0.243% |
| 262 | 13.571 | 13.549 | 13.629 | VV | 758 | 28590 | 0.32% | 0.094% |
| 263 | 13.640 | 13.629 | 13.665 | VV | 597 | 10531 | 0.12% | 0.035% |
| 264 | 13.692 | 13.665 | 13.715 | VV | 873 | 18770 | 0.21% | 0.062% |
| 265 | 13.733 | 13.715 | 13.747 | VV | 512 | 8341 | 0.09% | 0.028% |
| 266 | 13.770 | 13.747 | 13.798 | VV | 913 | 17168 | 0.19% | 0.057% |
| 267 | 13.822 | 13.798 | 13.848 | VV | 831 | 16158 | 0.18% | 0.053% |
| 268 | 13.857 | 13.848 | 13.869 | VV | 525 | 4390 | 0.05% | 0.014% |
| 269 | 13.883 | 13.869 | 13.938 | VV | 422 | 12126 | 0.14% | 0.040% |
| 270 | 13.959 | 13.938 | 13.988 | VV | 356 | 5801 | 0.07% | 0.019% |
| 271 | 14.055 | 13.988 | 14.083 | PV | 404 | 12994 | 0.15% | 0.043% |
| 272 | 14.091 | 14.083 | 14.100 | VV | 322 | 2168 | 0.02% | 0.007% |
| 273 | 14.110 | 14.100 | 14.132 | VV | 345 | 4699 | 0.05% | 0.016% |
| 274 | 14.161 | 14.132 | 14.183 | VV | 468 | 11073 | 0.13% | 0.037% |
| 275 | 14.194 | 14.183 | 14.205 | VV | 375 | 4083 | 0.05% | 0.013% |
| 276 | 14.212 | 14.205 | 14.230 | VV | 308 | 4578 | 0.05% | 0.015% |
| 277 | 14.256 | 14.230 | 14.288 | VV | 1643 | 28077 | 0.32% | 0.093% |
| 278 | 14.298 | 14.288 | 14.341 | VV | 391 | 8456 | 0.10% | 0.028% |
| 279 | 14.391 | 14.341 | 14.428 | VV | 554 | 17423 | 0.20% | 0.057% |
| 280 | 14.436 | 14.428 | 14.450 | VV | 473 | 5096 | 0.06% | 0.017% |
| 281 | 14.463 | 14.450 | 14.469 | VV | 387 | 3751 | 0.04% | 0.012% |
| 282 | 14.490 | 14.469 | 14.502 | VV | 521 | 8532 | 0.10% | 0.028% |
| 283 | 14.546 | 14.502 | 14.580 | VV | 824 | 26298 | 0.30% | 0.087% |
| 284 | 14.593 | 14.580 | 14.628 | VV | 634 | 13406 | 0.15% | 0.044% |
| 285 | 14.646 | 14.628 | 14.681 | VV | 448 | 10478 | 0.12% | 0.035% |
| 286 | 14.701 | 14.681 | 14.752 | VV | 517 | 17685 | 0.20% | 0.058% |
| 287 | 14.766 | 14.752 | 14.783 | VV | 326 | 6474 | 0.07% | 0.021% |
| 288 | 14.794 | 14.783 | 14.828 | VV | 348 | 6213 | 0.07% | 0.021% |
| 289 | 14.856 | 14.828 | 14.876 | VV | 2234 | 31292 | 0.35% | 0.103% |
| 290 | 14.897 | 14.876 | 14.963 | VV | 1864 | 42641 | 0.48% | 0.141% |
| 291 | 14.977 | 14.963 | 14.993 | VV | 319 | 4283 | 0.05% | 0.014% |
| 292 | 15.012 | 14.993 | 15.048 | VV | 300 | 7581 | 0.09% | 0.025% |
| 293 | 15.056 | 15.048 | 15.067 | VV | 323 | 2792 | 0.03% | 0.009% |
| 294 | 15.087 | 15.067 | 15.139 | VV | 589 | 15130 | 0.17% | 0.050% |
| 295 | 15.154 | 15.139 | 15.182 | VV | 445 | 7153 | 0.08% | 0.024% |
| 296 | 15.218 | 15.182 | 15.262 | VV | 826 | 20876 | 0.24% | 0.069% |
| 297 | 15.282 | 15.262 | 15.295 | VV | 388 | 4685 | 0.05% | 0.015% |
| 298 | 15.339 | 15.295 | 15.378 | VV | 711 | 18551 | 0.21% | 0.061% |
| 299 | 15.387 | 15.378 | 15.419 | VV | 330 | 6195 | 0.07% | 0.020% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 15.460 | 15.419 | 15.527 | VV | 2392 | 41048 | 0.46% | 0.135% |
| 301 | 15.559 | 15.527 | 15.578 | VV | 384 | 7415 | 0.08% | 0.024% |
| 302 | 15.588 | 15.578 | 15.606 | VV | 359 | 4374 | 0.05% | 0.014% |
| 303 | 15.653 | 15.606 | 15.695 | VV | 649 | 19187 | 0.22% | 0.063% |
| 304 | 15.733 | 15.695 | 15.750 | VV | 479 | 9188 | 0.10% | 0.030% |
| 305 | 15.763 | 15.750 | 15.780 | VV | 421 | 5484 | 0.06% | 0.018% |
| 306 | 15.791 | 15.780 | 15.855 | VV | 351 | 14141 | 0.16% | 0.047% |
| 307 | 15.864 | 15.855 | 15.880 | VV | 410 | 4405 | 0.05% | 0.015% |
| 308 | 15.901 | 15.880 | 15.919 | VV | 442 | 7428 | 0.08% | 0.025% |
| 309 | 15.938 | 15.919 | 15.977 | VV | 672 | 14893 | 0.17% | 0.049% |
| 310 | 16.001 | 15.977 | 16.032 | VV | 533 | 9618 | 0.11% | 0.032% |
| 311 | 16.042 | 16.032 | 16.053 | VV | 245 | 2618 | 0.03% | 0.009% |
| 312 | 16.108 | 16.053 | 16.149 | VV | 886 | 23897 | 0.27% | 0.079% |
| 313 | 16.157 | 16.149 | 16.207 | VV | 294 | 6140 | 0.07% | 0.020% |
| 314 | 16.212 | 16.207 | 16.220 | VV | 227 | 1022 | 0.01% | 0.003% |
| 315 | 16.240 | 16.220 | 16.272 | PV | 369 | 5740 | 0.06% | 0.019% |
| 316 | 16.279 | 16.272 | 16.290 | VV | 281 | 1920 | 0.02% | 0.006% |
| 317 | 16.301 | 16.290 | 16.349 | VV | 444 | 6484 | 0.07% | 0.021% |
| 318 | 16.407 | 16.349 | 16.421 | PV | 1723 | 26678 | 0.30% | 0.088% |
| 319 | 16.437 | 16.421 | 16.487 | VV | 2195 | 36454 | 0.41% | 0.120% |
| 320 | 16.504 | 16.487 | 16.537 | VV | 731 | 14120 | 0.16% | 0.047% |
| 321 | 16.562 | 16.537 | 16.586 | VV | 824 | 16186 | 0.18% | 0.053% |
| 322 | 16.596 | 16.586 | 16.618 | VV | 636 | 7823 | 0.09% | 0.026% |
| 323 | 16.629 | 16.618 | 16.651 | VV | 376 | 5319 | 0.06% | 0.018% |
| 324 | 16.657 | 16.651 | 16.683 | VV | 314 | 5122 | 0.06% | 0.017% |
| 325 | 16.690 | 16.683 | 16.711 | VV | 429 | 3531 | 0.04% | 0.012% |
| 326 | 16.723 | 16.711 | 16.763 | VV | 333 | 7655 | 0.09% | 0.025% |
| 327 | 16.786 | 16.763 | 16.852 | VV | 2436 | 42017 | 0.48% | 0.139% |
| 328 | 16.856 | 16.852 | 16.872 | VV | 324 | 3291 | 0.04% | 0.011% |
| 329 | 16.889 | 16.872 | 16.941 | VV | 756 | 13752 | 0.16% | 0.045% |
| 330 | 16.954 | 16.941 | 16.972 | VV | 259 | 3138 | 0.04% | 0.010% |
| 331 | 16.982 | 16.972 | 16.990 | VV | 332 | 2635 | 0.03% | 0.009% |
| 332 | 17.001 | 16.990 | 17.053 | VV | 346 | 7381 | 0.08% | 0.024% |
| 333 | 17.074 | 17.053 | 17.085 | VV | 204 | 2432 | 0.03% | 0.008% |
| 334 | 17.094 | 17.085 | 17.120 | VV | 224 | 2543 | 0.03% | 0.008% |
| 335 | 17.129 | 17.120 | 17.147 | VV | 107 | 1663 | 0.02% | 0.005% |
| 336 | 17.173 | 17.147 | 17.203 | VV | 383 | 5134 | 0.06% | 0.017% |
| 337 | 17.236 | 17.203 | 17.252 | VV | 268 | 3835 | 0.04% | 0.013% |
| 338 | 17.280 | 17.252 | 17.290 | VV | 198 | 3204 | 0.04% | 0.011% |
| 339 | 17.299 | 17.290 | 17.308 | VV | 258 | 1443 | 0.02% | 0.005% |
| 340 | 17.339 | 17.308 | 17.375 | VV | 884 | 14447 | 0.16% | 0.048% |
| 341 | 17.417 | 17.375 | 17.432 | VV | 363 | 6757 | 0.08% | 0.022% |
| 342 | 17.439 | 17.432 | 17.453 | VV | 357 | 3119 | 0.04% | 0.010% |
| 343 | 17.463 | 17.453 | 17.495 | VV | 276 | 4652 | 0.05% | 0.015% |
| 344 | 17.510 | 17.495 | 17.534 | VV | 338 | 5514 | 0.06% | 0.018% |
| 345 | 17.565 | 17.534 | 17.590 | VV | 372 | 8625 | 0.10% | 0.028% |
| 346 | 17.609 | 17.590 | 17.634 | VV | 433 | 8109 | 0.09% | 0.027% |
| 347 | 17.650 | 17.634 | 17.700 | VV | 461 | 12533 | 0.14% | 0.041% |
| 348 | 17.705 | 17.700 | 17.747 | VV | 355 | 7060 | 0.08% | 0.023% |
| 349 | 17.773 | 17.747 | 17.842 | VV | 1315 | 24662 | 0.28% | 0.081% |
| 350 | 17.865 | 17.842 | 17.885 | VV | 343 | 4247 | 0.05% | 0.014% |
| 351 | 17.895 | 17.885 | 17.906 | VV | 118 | 1518 | 0.02% | 0.005% |

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| 352 | 17.933 | 17.906 | 17.970 | PV | 428 | 9102 | 0.10% | 0.030% |
| 353 | 17.994 | 17.970 | 18.030 | VV | 357 | 8615 | 0.10% | 0.028% |
| 354 | 18.054 | 18.030 | 18.085 | VV | 442 | 9754 | 0.11% | 0.032% |
| 355 | 18.093 | 18.085 | 18.102 | VV | 359 | 2302 | 0.03% | 0.008% |
| 356 | 18.147 | 18.102 | 18.166 | VV | 7979 | 105129 | 1.19% | 0.347% |
| 357 | 18.188 | 18.166 | 18.230 | VV | 12357 | 173998 | 1.97% | 0.574% |
| 358 | 18.239 | 18.230 | 18.258 | VV | 432 | 5697 | 0.06% | 0.019% |
| 359 | 18.294 | 18.258 | 18.307 | VV | 383 | 7600 | 0.09% | 0.025% |
| 360 | 18.318 | 18.307 | 18.333 | VV | 390 | 4994 | 0.06% | 0.016% |
| 361 | 18.340 | 18.333 | 18.358 | VV | 395 | 3714 | 0.04% | 0.012% |
| 362 | 18.399 | 18.358 | 18.478 | VV | 5265 | 84912 | 0.96% | 0.280% |
| 363 | 18.487 | 18.478 | 18.495 | VV | 333 | 2879 | 0.03% | 0.009% |
| 364 | 18.504 | 18.495 | 18.513 | VV | 389 | 3285 | 0.04% | 0.011% |
| 365 | 18.528 | 18.513 | 18.553 | VV | 447 | 8110 | 0.09% | 0.027% |
| 366 | 18.560 | 18.553 | 18.570 | VV | 384 | 3016 | 0.03% | 0.010% |
| 367 | 18.602 | 18.570 | 18.698 | VV | 1336 | 37057 | 0.42% | 0.122% |
| 368 | 18.708 | 18.698 | 18.718 | VV | 153 | 1337 | 0.02% | 0.004% |
| 369 | 18.768 | 18.718 | 18.802 | PV | 264 | 10698 | 0.12% | 0.035% |
| 370 | 18.810 | 18.802 | 18.818 | VV | 271 | 2129 | 0.02% | 0.007% |
| 371 | 18.827 | 18.818 | 18.839 | VV | 307 | 2576 | 0.03% | 0.008% |
| 372 | 18.864 | 18.839 | 18.877 | VV | 225 | 3955 | 0.04% | 0.013% |
| 373 | 18.906 | 18.877 | 18.925 | VV | 284 | 4446 | 0.05% | 0.015% |
| 374 | 18.932 | 18.925 | 18.945 | VV | 202 | 1469 | 0.02% | 0.005% |
| | | | Sum of corrected areas: | | | 30308498 | | |

Aromatic EPH 052425.M Tue Jun 10 03:00:44 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069134.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 16:17
Operator : YP/AJ
Sample : PB168324BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB168324BL

Integration File: autoint1.e
Quant Time: Jun 10 05:23:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 13.113 | 2680219 | 29.875 ug/ml |
| Spiked Amount 50.000 | | Recovery = 59.75% | |
| Target Compounds | | | |

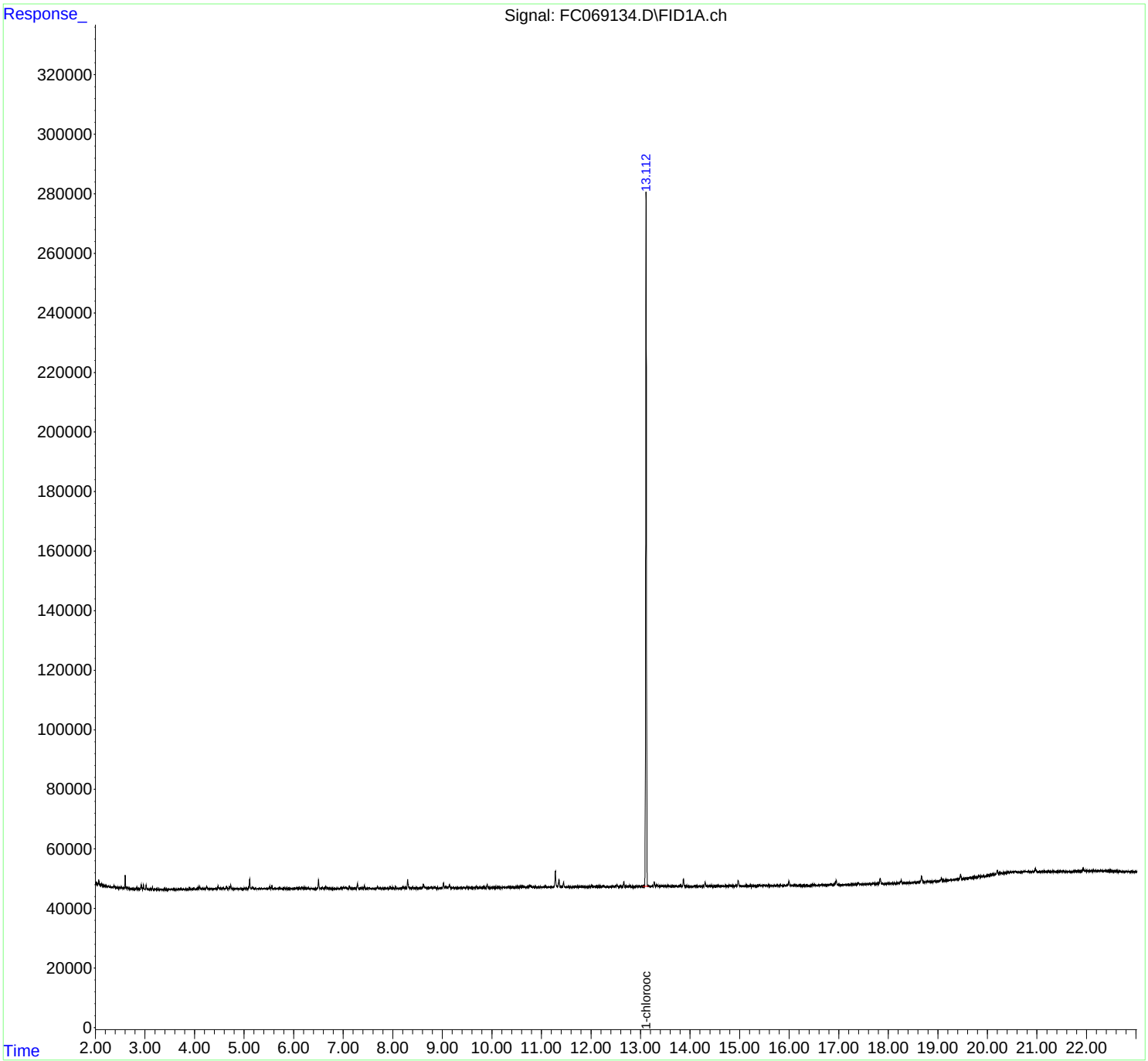
(f)=RT Delta > 1/2 Window (m)=manual int.

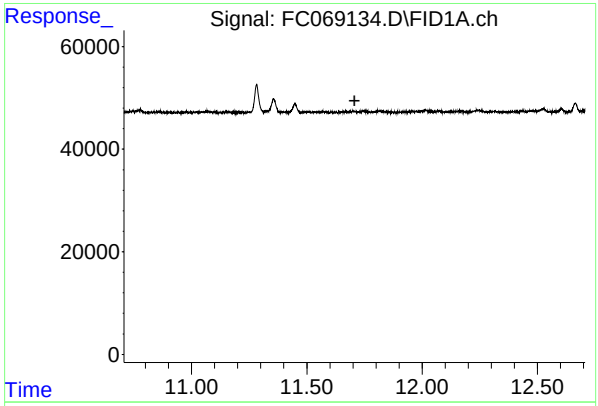
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069134.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 16:17
Operator : YP/AJ
Sample : PB168324BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB168324BL

Integration File: autoint1.e
Quant Time: Jun 10 05:23:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

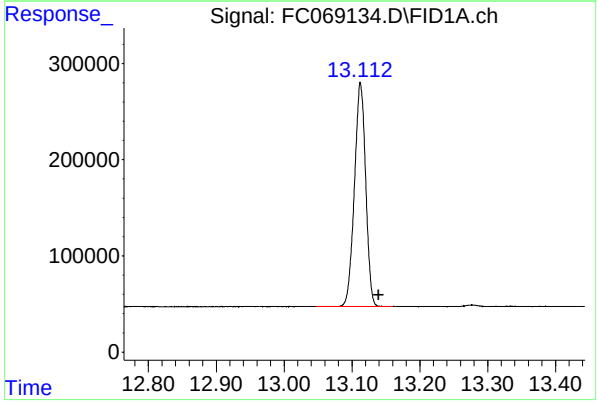





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.707 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
PB168324BL




#12 1-chlorooctadecane (SURR)

R.T.: 13.113 min
Delta R.T.: -0.027 min
Response: 2680219
Conc: 29.88 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069134.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 16:17
Sample : PB168324BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 13.113 | 13.047 | 13.160 | BB | 233105 | 2680219 | 100.00% | 100.000% |

Sum of corrected areas: 2680219

Aliphatic EPH 052425.M Tue Jun 10 06:17:51 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049415.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 16:17
Operator : YP/AJ
Sample : PB168324BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB168324BL

Integration File: autoint1.e
Quant Time: Jun 10 02:35:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 4) S 2-Bromonaphthalene (S... | 7.733 | 5192860 | 31.238 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 62.48% |
| 6) S 2-Flurobiphenyl (SURR) | 8.598 | 3467147 | 30.308 ug/ml |
| Spiked Amount 50.000 | Range 0 - 131 | Recovery = | 60.62% |
| 11) S ortho-Terphenyl (SURR) | 11.645 | 5861022 | 29.200 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 58.40% |
| Target Compounds | | | |

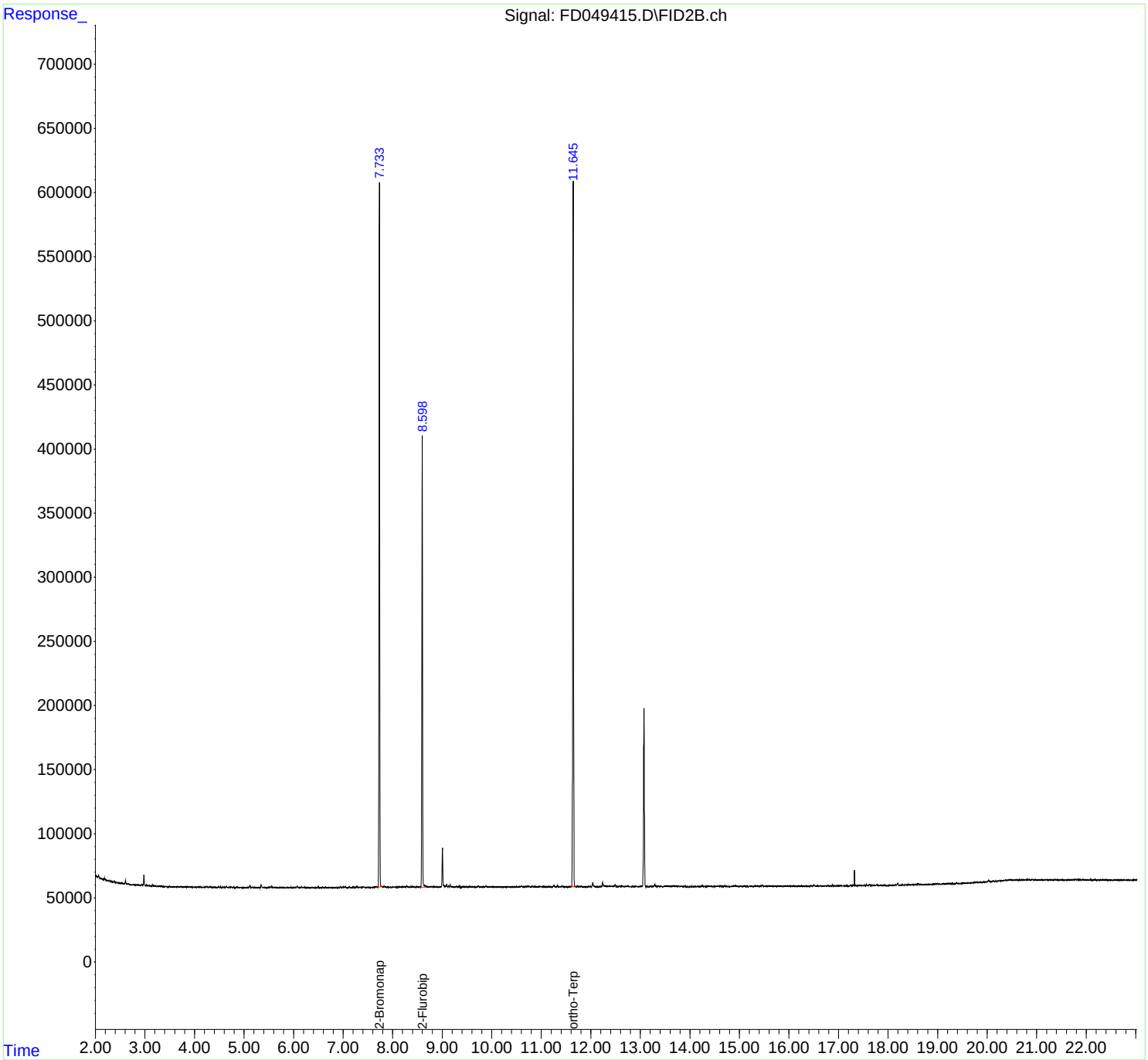
(f)=RT Delta > 1/2 Window (m)=manual int.

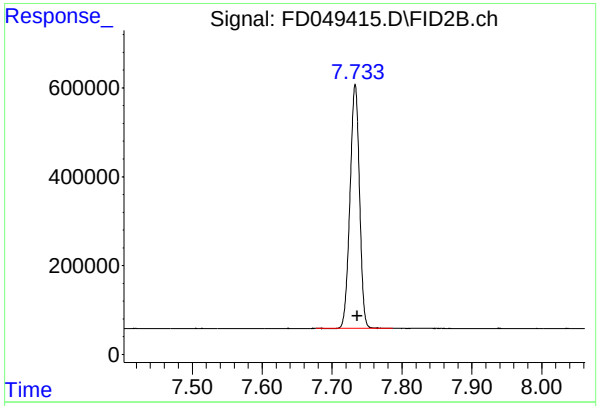
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049415.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 16:17
Operator : YP/AJ
Sample : PB168324BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB168324BL

Integration File: autoint1.e
Quant Time: Jun 10 02:35:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

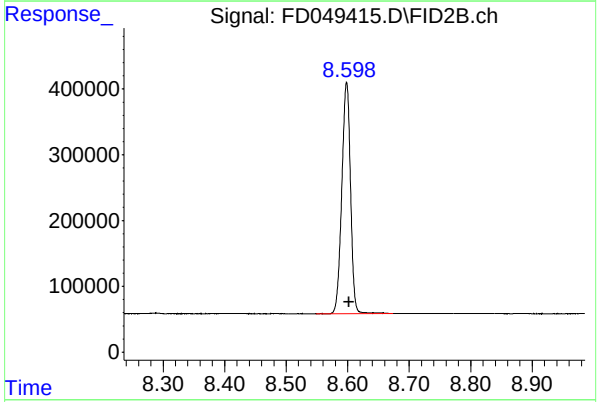





#4 2-Bromonaphthalene (SURR)

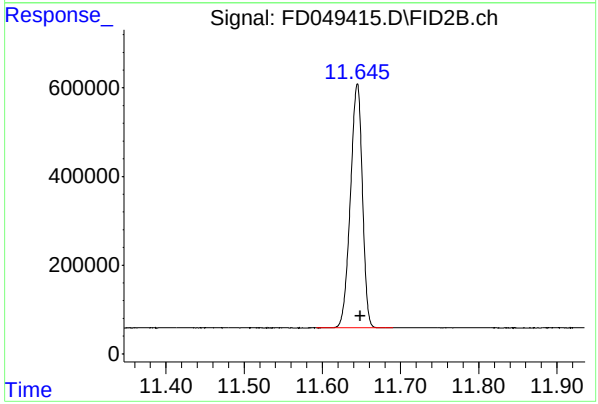
R.T.: 7.733 min
Delta R.T.: -0.003 min
Response: 5192860
Conc: 31.24 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
PB168324BL




#6 2-Flurobiphenyl (SURR)

R.T.: 8.598 min
Delta R.T.: -0.004 min
Response: 3467147
Conc: 30.31 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.645 min
Delta R.T.: -0.004 min
Response: 5861022
Conc: 29.20 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049415.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 16:17
Sample : PB168324BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 7.733 | 7.677 | 7.787 | BB | 549290 | 5192860 | 88.60% | 35.761% |
| 2 | 8.598 | 8.549 | 8.674 | BB | 351672 | 3467147 | 59.16% | 23.877% |
| 3 | 11.645 | 11.592 | 11.690 | BB | 551945 | 5861022 | 100.00% | 40.362% |
| | | | Sum of corrected areas: | | | 14521029 | | |

Aromatic EPH 052425.M Tue Jun 10 02:57:50 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069157.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 16:33
Operator : YP/AJ
Sample : PB168408BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB168408BL

Integration File: autoint1.e
Quant Time: Jun 12 06:04:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 12) S 1-chlorooctadecane (S... | 13.115 | 2699214 | 30.087 ug/ml |
| Spiked Amount 50.000 | | Recovery = 60.17% | |
| Target Compounds | | | |

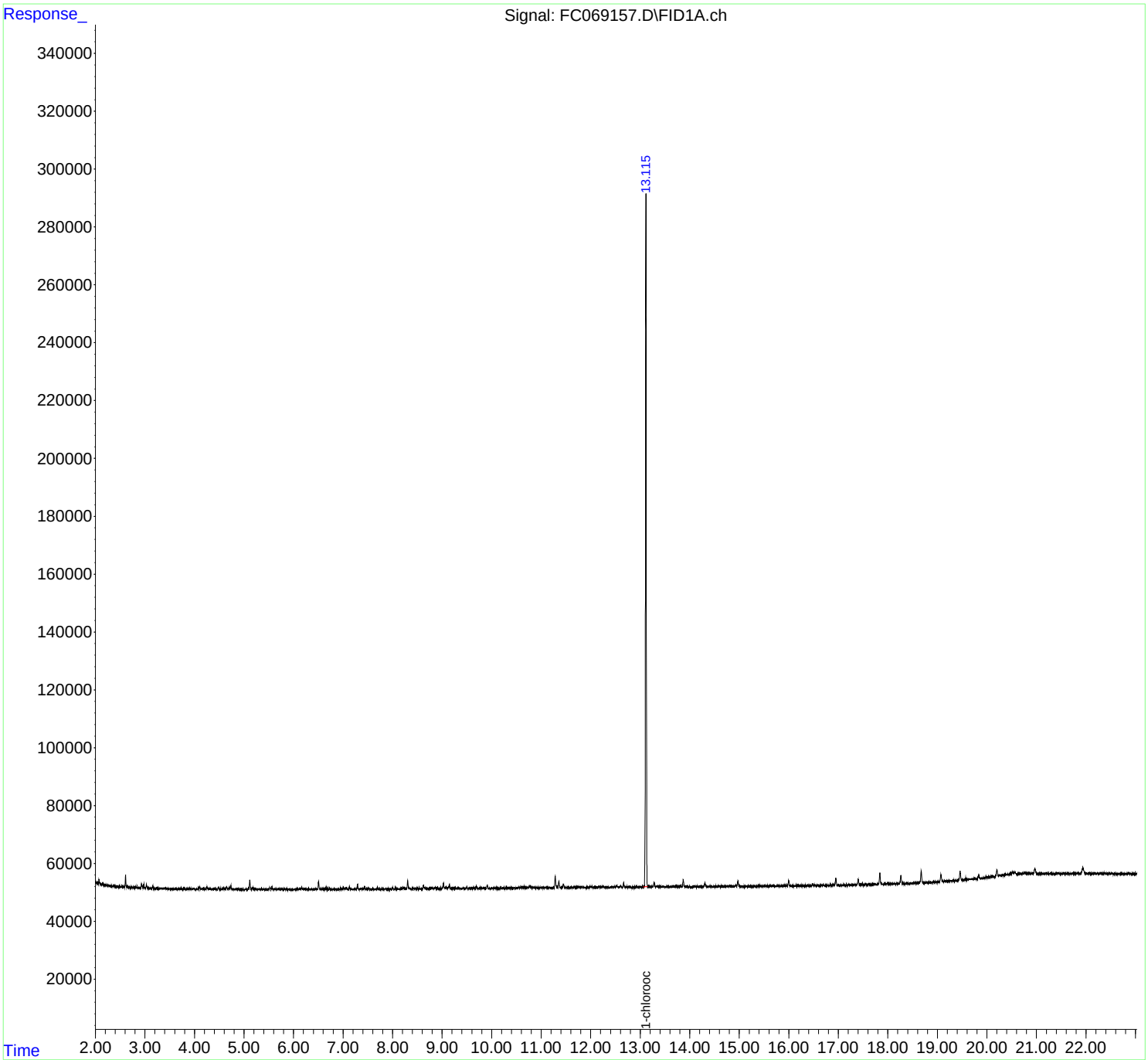
(f)=RT Delta > 1/2 Window (m)=manual int.

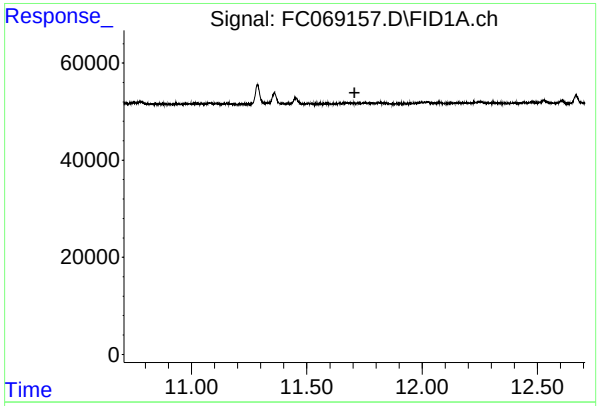
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069157.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 16:33
Operator : YP/AJ
Sample : PB168408BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB168408BL

Integration File: autoint1.e
Quant Time: Jun 12 06:04:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

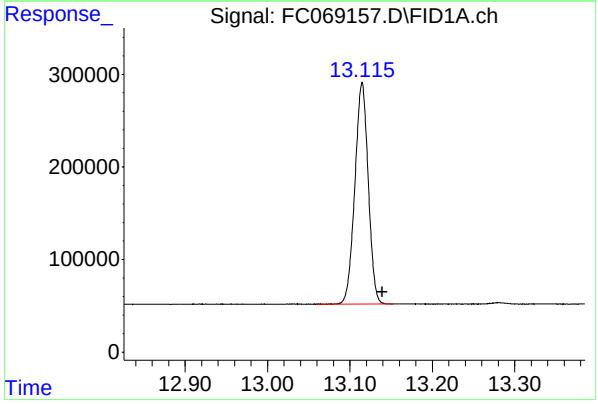





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.707 min
Response: 0
Conc: N.D.

**Instrument :**
FID_C
**ClientSampleId :**
PB168408BL




#12 1-chlorooctadecane (SURR)

R.T.: 13.115 min
Delta R.T.: -0.025 min
Response: 2699214
Conc: 30.09 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069157.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 16:33
Sample : PB168408BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 13.115 | 13.059 | 13.152 | BB | 240199 | 2699214 | 100.00% | 100.000% |
| | | | Sum of corrected areas: | | | 2699214 | | |

Aliphatic EPH 052425.M Thu Jun 12 06:57:13 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061125AR\
Data File : FD049432.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 16:33
Operator : YP/AJ
Sample : PB168408BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB168408BL

Integration File: autoint1.e
Quant Time: Jun 12 04:59:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| **System Monitoring Compounds** | | | |
| 4) S 2-Bromonaphthalene (S... | 7.733 | 5580932 | 33.573 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 67.15% |
| 6) S 2-Flurobiphenyl (SURR) | 8.598 | 3722980 | 32.544 ug/ml |
| Spiked Amount 50.000 | Range 0 - 131 | Recovery = | 65.09% |
| 11) S ortho-Terphenyl (SURR) | 11.645 | 6306403 | 31.419 ug/ml |
| Spiked Amount 50.000 | | Recovery = | 62.84% |
| **Target Compounds** | | | |

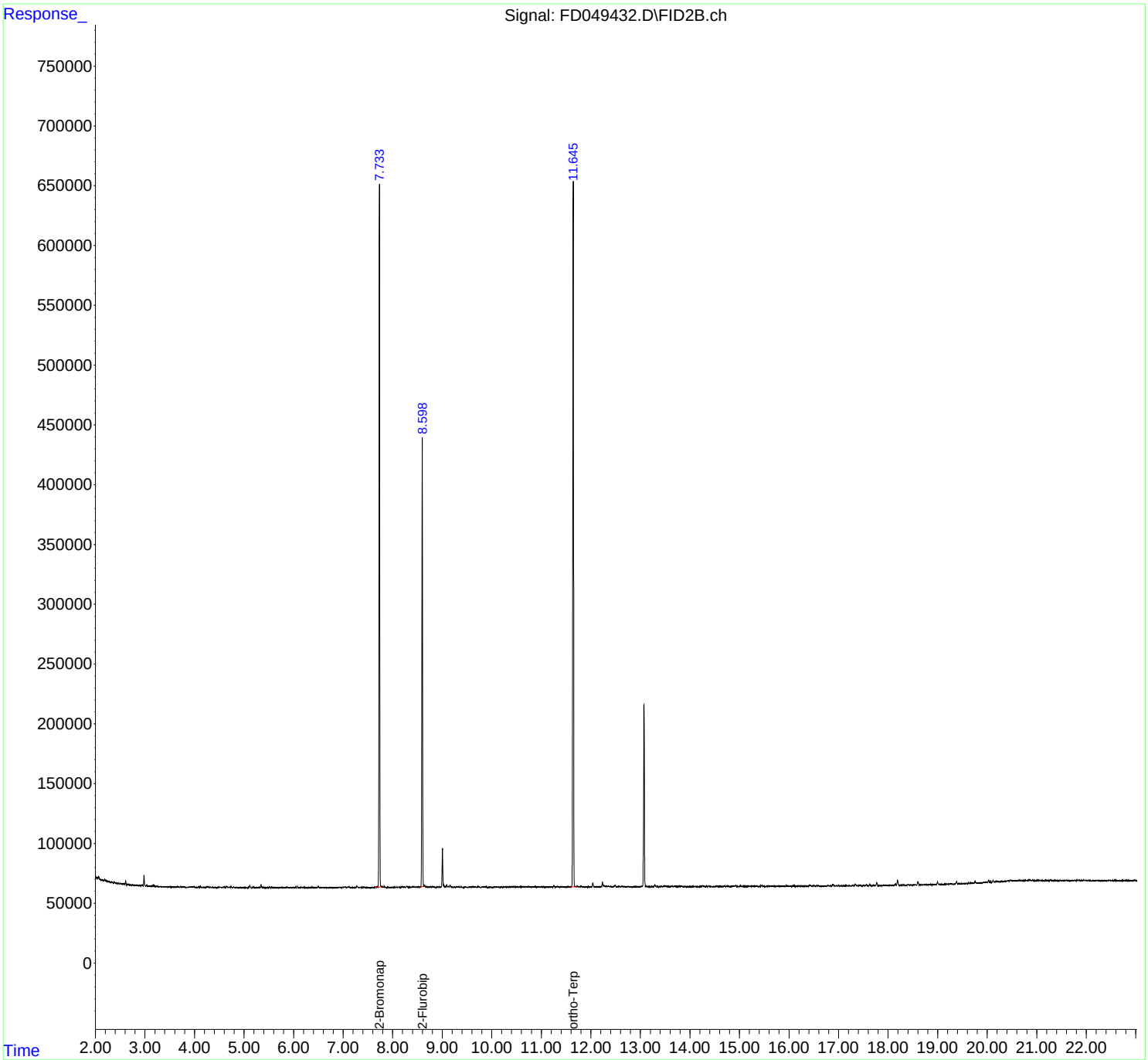
(f)=RT Delta > 1/2 Window (m)=manual int.

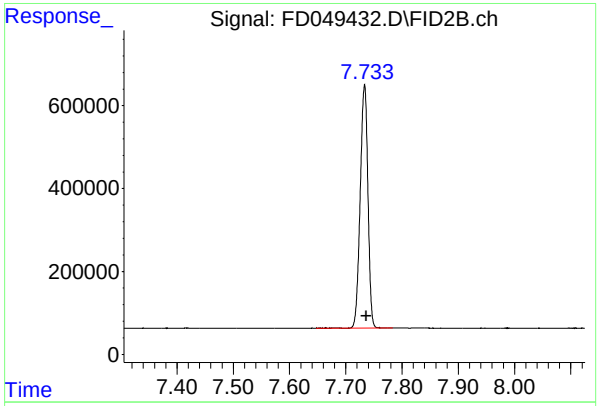
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061125AR\
Data File : FD049432.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 16:33
Operator : YP/AJ
Sample : PB168408BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB168408BL

Integration File: autoint1.e
Quant Time: Jun 12 04:59:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

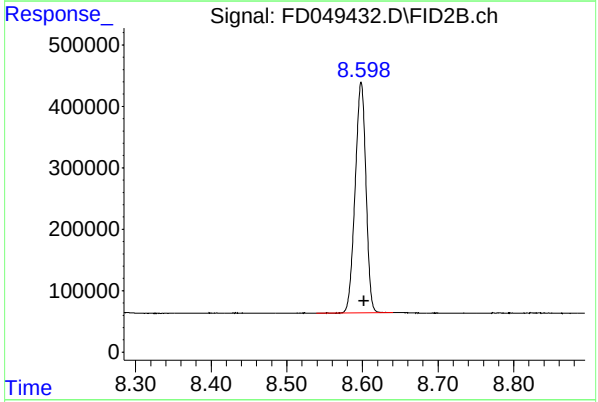





#4 2-Bromonaphthalene (SURR)

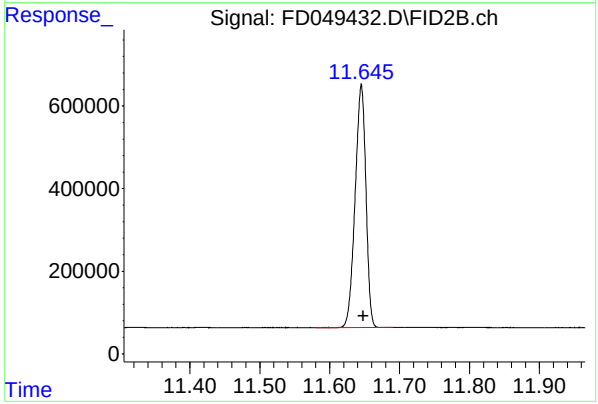
R.T.: 7.733 min
Delta R.T.: -0.003 min
Response: 5580932
Conc: 33.57 ug/ml

**Instrument :**
FID_D
**ClientSampleId :**
PB168408BL




#6 2-Flurobiphenyl (SURR)

R.T.: 8.598 min
Delta R.T.: -0.004 min
Response: 3722980
Conc: 32.54 ug/ml




#11 ortho-Terphenyl (SURR)

R.T.: 11.645 min
Delta R.T.: -0.003 min
Response: 6306403
Conc: 31.42 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061225AR\
Data File : FD049432.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 16:33
Sample : PB168408BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 7.733 | 7.647 | 7.784 | BB | 588138 | 5580932 | 88.50% | 35.752% |
| 2 | 8.598 | 8.539 | 8.640 | BB | 375716 | 3722980 | 59.03% | 23.849% |
| 3 | 11.645 | 11.580 | 11.690 | BB | 589219 | 6306403 | 100.00% | 40.399% |
| | | | Sum of corrected areas: | | | 15610315 | | |

Aromatic EPH 052425.M Thu Jun 12 05:38:06 2025

Quantitation Report (QT Reviewed)

Sample Results: **FC069135.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069135.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 16:57
Operator : YP/AJ
Sample : PB168324BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB168324BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File: autoint1.e
Quant Time: Jun 10 05:23:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 12) S | 1-chlorooctadecane (S... | 13.113 | 3366566 | 37.526 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 75.05% |
| | **Target Compounds** | | | |
| 1) T | n-Nonane (C9) | 3.400 | 2217452 | 20.895 ug/ml |
| 2) T | n-Decane (C10) | 4.476 | 2679793 | 25.303 ug/ml |
| 4) T | n-Dodecane (C12) | 6.503 | 2953611 | 28.097 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.303 | 3054731 | 29.801 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.908 | 3236632 | 31.898 ug/ml |
| 8) T | n-Octadecane (C18) | 11.353 | 3312495 | 33.143 ug/mlm |
| 10) T | n-Eicosane (C20) | 12.666 | 3555373 | 36.504 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.281 | 3487347 | 36.231 ug/ml |
| 13) T | n-Docosane (C22) | 13.868 | 3503194 | 36.772 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.974 | 3529259 | 37.484 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.997 | 3496699 | 37.663 ug/ml |
| 16) T | n-Octacosane (C28) | 16.949 | 3480519 | 37.444 ug/ml |
| 17) T | n-Tricontane (C30) | 17.839 | 3536231 | 36.547 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.674 | 3563259 | 35.957 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.460 | 3578132 | 37.126 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 20.202 | 3444828 | 36.288 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.972 | 3202447 | 35.101 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.938 | 2598811 | 29.453 ug/mlm |

(f)=RT Delta > 1/2 Window (m)=manual int.

Sample Results: **FC069135.D**

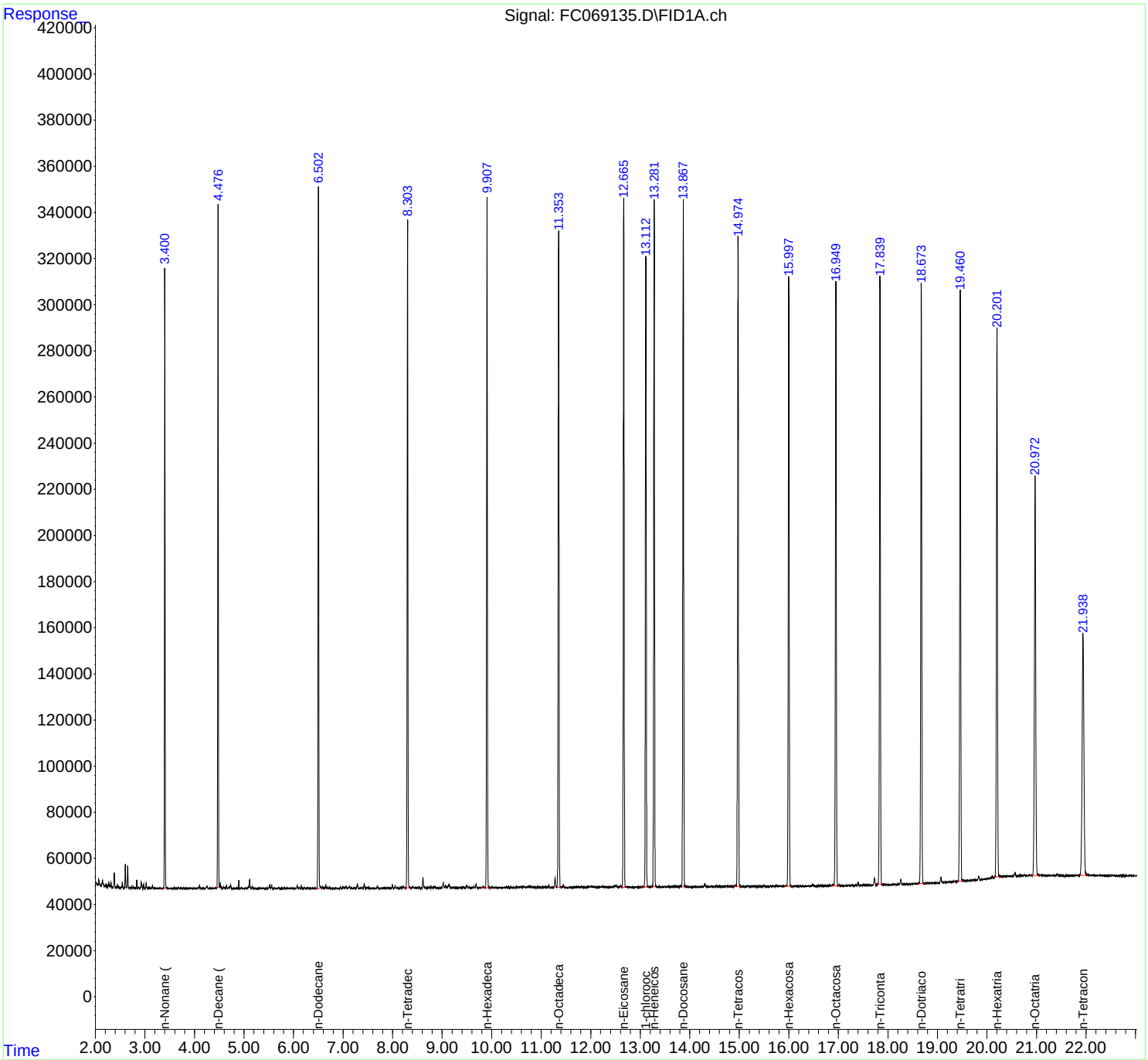
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069135.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 16:57
Operator : YP/AJ
Sample : PB168324BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB168324BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File: autoint1.e
Quant Time: Jun 10 05:23:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



**Instrument :**
FID_C
**ClientSampleId :**
PB168324BS

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06092
Data File : FC069135.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 16:57
Sample : PB168324BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.400 | 3.350 | 3.447 | BB | 268489 | 2217452 | 61.97% | 3.599% |
| 2 | 4.476 | 4.420 | 4.505 | BV | 295574 | 2679793 | 74.89% | 4.349% |
| 3 | 6.503 | 6.442 | 6.573 | BV | 303942 | 2953611 | 82.55% | 4.794% |
| 4 | 8.303 | 8.243 | 8.365 | BB | 290305 | 3054731 | 85.37% | 4.958% |
| 5 | 9.908 | 9.783 | 9.958 | BB | 299159 | 3236632 | 90.46% | 5.253% |
| 6 | 11.353 | 11.330 | 11.393 | BB | 282366 | 3203643 | 89.53% | 5.199% |
| 7 | 12.666 | 12.628 | 12.718 | BB | 296226 | 3555373 | 99.36% | 5.770% |
| 8 | 13.113 | 13.043 | 13.158 | BB | 273202 | 3366566 | 94.09% | 5.464% |
| 9 | 13.281 | 13.220 | 13.322 | BB | 298888 | 3487347 | 97.46% | 5.660% |
| 10 | 13.868 | 13.831 | 13.912 | PB | 295831 | 3503194 | 97.91% | 5.686% |
| 11 | 14.974 | 14.883 | 15.032 | BB | 279346 | 3529259 | 98.63% | 5.728% |
| 12 | 15.997 | 15.907 | 16.062 | BB | 264550 | 3496699 | 97.72% | 5.675% |
| 13 | 16.949 | 16.865 | 17.005 | BB | 260642 | 3480519 | 97.27% | 5.649% |
| 14 | 17.839 | 17.800 | 17.895 | BB | 262743 | 3536231 | 98.83% | 5.739% |
| 15 | 18.674 | 18.617 | 18.732 | BB | 259724 | 3563259 | 99.58% | 5.783% |
| 16 | 19.460 | 19.420 | 19.518 | BB | 255549 | 3578132 | 100.00% | 5.807% |
| 17 | 20.202 | 20.160 | 20.257 | BB | 238494 | 3444828 | 96.27% | 5.591% |
| 18 | 20.972 | 20.892 | 21.055 | BB | 172990 | 3202447 | 89.50% | 5.197% |
| 19 | 21.939 | 21.890 | 22.025 | BB | 103816 | 2525611 | 70.58% | 4.099% |
| | | | Sum of corrected areas: | | | 61615327 | | |

Aliphatic EPH 052425.M Tue Jun 10 06:18:13 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049416.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 16:57
Operator : YP/AJ
Sample : PB168324BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB168324BS

Integration File: autoint1.e
Quant Time: Jun 10 02:35:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) | S 2-Bromonaphthalene (S... | 7.733 | 5669143 | 34.103 ug/ml |
| | Spiked Amount 50.000 | | Recovery = | 68.21% |
| 6) | S 2-Flurobiphenyl (SURR) | 8.599 | 3820043 | 33.393 ug/ml |
| | Spiked Amount 50.000 Range 0 - 131 | | Recovery = | 66.79% |
| 11) | S ortho-Terphenyl (SURR) | 11.645 | 5766961 | 28.731 ug/ml |
| | Spiked Amount 50.000 | | Recovery = | 57.46% |
| | **Target Compounds** | | | |
| 1) | T 1,2,3-Trimethylbenzen... | 4.526 | 3499901 | 21.997 ug/ml |
| 2) | T Naphthalene (C11.7) | 6.069 | 4112843 | 23.424 ug/ml |
| 3) | T 2-Methylnaphthalene (... | 7.122 | 3979003 | 22.273 ug/ml |
| 5) | T Acenaphthylene (C15.06) | 8.402 | 4730412 | 24.420 ug/ml |
| 7) | T Acenaphthene (C15.5) | 8.698 | 4743954 | 24.940 ug/ml |
| 8) | T Flouorene (C16.55) | 9.479 | 4948337 | 25.308 ug/ml |
| 9) | T Phenanthrene (C19.36) | 10.878 | 5042655 | 26.521 ug/ml |
| 10) | T Anthracene (C19.43) | 10.953 | 4835094 | 27.658 ug/ml |
| 12) | T Fluoranthene (C21.85) | 12.694 | 5127373 | 28.426 ug/ml |
| 13) | T Pyrene (C20.8) | 12.992 | 5142168 | 28.811 ug/ml |
| 14) | T Benzo[a]anthracene (C... | 14.864 | 4698120 | 30.911 ug/ml |
| 15) | T Chrysene (C27.41) | 14.908 | 5198728 | 34.235 ug/ml |
| 16) | T benzo[b]fluoranthene ... | 16.416 | 4812910 | 33.250 ug/ml |
| 17) | T Bnezo[k]fluoranthene ... | 16.450 | 4763515 | 33.195 ug/ml |
| 18) | T Benzo[a]pyrene (C31.34) | 16.796 | 4620605 | 33.997 ug/ml |
| 19) | T Indeno[1,2,3-cd]pyren... | 18.161 | 4649880 | 36.404 ug/ml |
| 20) | T Dibenz[a,h]anthracene... | 18.200 | 4146286 | 30.799 ug/ml |
| 21) | T Benzo[g,h,i]perylene ... | 18.419 | 4491854 | 33.326 ug/ml |

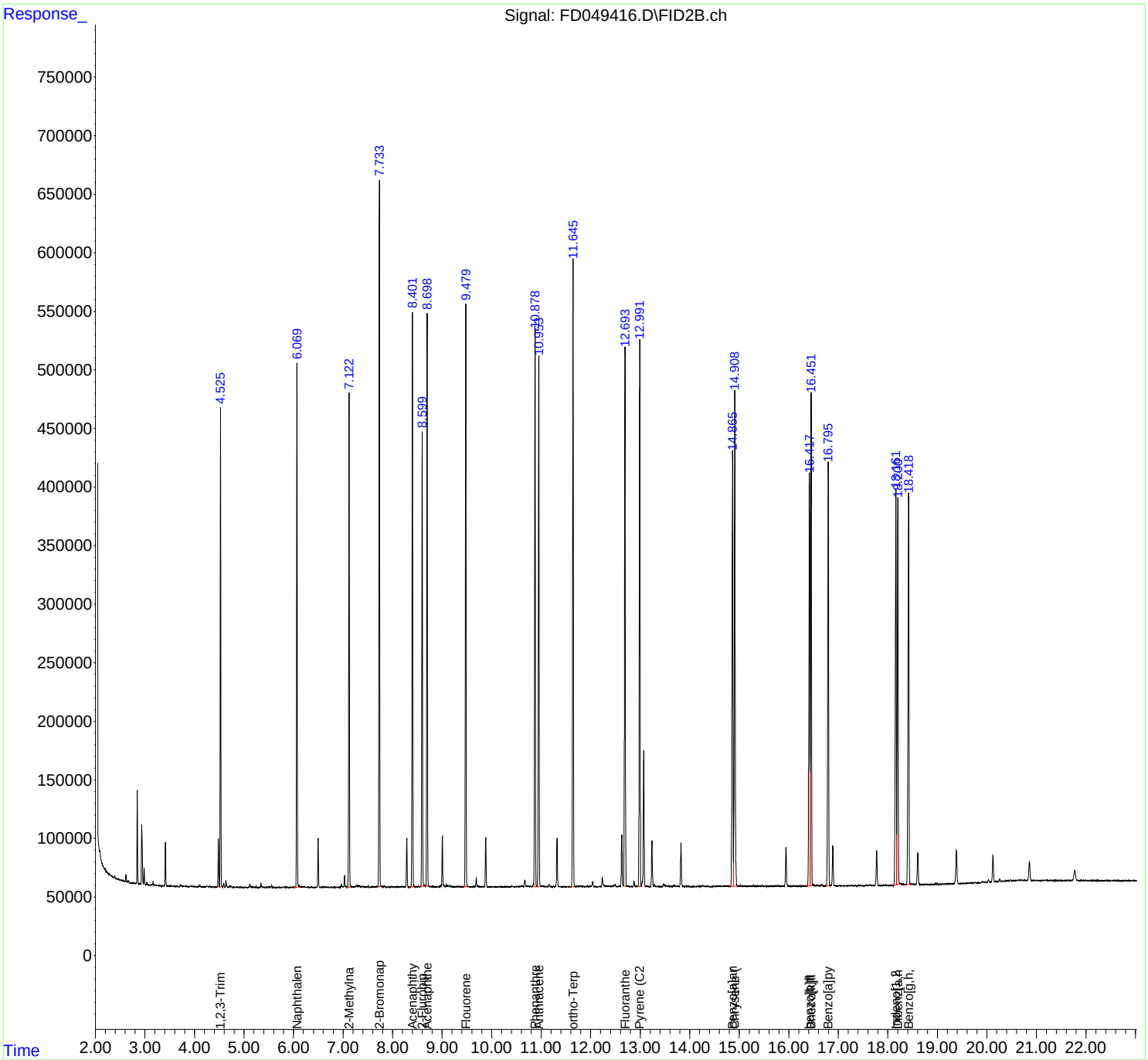
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049416.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 16:57
Operator : YP/AJ
Sample : PB168324BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB168324BS

Integration File: autoint1.e
Quant Time: Jun 10 02:35:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049416.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 16:57
Sample : PB168324BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.526 | 4.503 | 4.572 | VV | 409153 | 3499901 | 60.69% | 3.542% |
| 2 | 6.069 | 6.015 | 6.138 | BB | 446714 | 4112843 | 71.32% | 4.163% |
| 3 | 7.122 | 7.068 | 7.172 | BB | 420886 | 3979003 | 69.00% | 4.027% |
| 4 | 7.733 | 7.695 | 7.777 | BB | 602848 | 5669143 | 98.30% | 5.738% |
| 5 | 8.402 | 8.337 | 8.458 | BB | 490566 | 4730412 | 82.03% | 4.788% |
| 6 | 8.599 | 8.543 | 8.643 | BB | 386472 | 3820043 | 66.24% | 3.866% |
| 7 | 8.698 | 8.643 | 8.740 | BB | 488945 | 4743954 | 82.26% | 4.802% |
| 8 | 9.479 | 9.420 | 9.523 | BB | 498450 | 4948337 | 85.80% | 5.008% |
| 9 | 10.878 | 10.848 | 10.917 | VV | 476340 | 5042655 | 87.44% | 5.104% |
| 10 | 10.953 | 10.917 | 11.003 | PB | 453667 | 4835094 | 83.84% | 4.894% |
| 11 | 11.645 | 11.585 | 11.680 | BB | 535767 | 5766961 | 100.00% | 5.837% |
| 12 | 12.694 | 12.650 | 12.737 | BB | 459494 | 5127373 | 88.91% | 5.190% |
| 13 | 12.992 | 12.935 | 13.022 | BV | 467525 | 5142168 | 89.17% | 5.205% |
| 14 | 14.864 | 14.795 | 14.883 | BV | 373574 | 4698120 | 81.47% | 4.755% |
| 15 | 14.908 | 14.883 | 14.970 | VB | 423620 | 5198728 | 90.15% | 5.262% |
| 16 | 16.416 | 16.348 | 16.431 | BV | 353034 | 4812910 | 83.46% | 4.871% |
| 17 | 16.450 | 16.431 | 16.487 | VB | 418982 | 4763515 | 82.60% | 4.821% |
| 18 | 16.796 | 16.728 | 16.845 | BB | 362457 | 4620605 | 80.12% | 4.677% |
| 19 | 18.161 | 18.110 | 18.177 | BV | 338736 | 4649880 | 80.63% | 4.706% |
| 20 | 18.200 | 18.177 | 18.262 | VB | 330357 | 4146286 | 71.90% | 4.197% |
| 21 | 18.419 | 18.345 | 18.480 | BB | 333615 | 4491854 | 77.89% | 4.546% |
| | | | Sum of corrected areas: | | | 98799785 | | |

Aromatic EPH 052425.M Tue Jun 10 02:58:33 2025

Quantitation Report (QT Reviewed)

Sample Results: **FC069158.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069158.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 17:15
Operator : YP/AJ
Sample : PB168408BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB168408BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Integration File: autoint1.e
Quant Time: Jun 12 06:04:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 12) S | 1-chlorooctadecane (S... | 13.116 | 3406395 | 37.970 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 75.94% |
| | Target Compounds | | | |
| 1) T | n-Nonane (C9) | 3.406 | 2230358 | 21.017 ug/ml |
| 2) T | n-Decane (C10) | 4.481 | 2689801 | 25.398 ug/ml |
| 4) T | n-Dodecane (C12) | 6.507 | 2958624 | 28.145 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.306 | 3052905 | 29.783 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.911 | 3231344 | 31.846 ug/ml |
| 8) T | n-Octadecane (C18) | 11.356 | 3268350 | 32.702 ug/ml |
| 10) T | n-Eicosane (C20) | 12.669 | 3555843 | 36.508 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.283 | 3495201 | 36.313 ug/ml |
| 13) T | n-Docosane (C22) | 13.870 | 3515122 | 36.897 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.975 | 3553253 | 37.739 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.999 | 3528040 | 38.001 ug/ml |
| 16) T | n-Octacosane (C28) | 16.950 | 3538487 | 38.068 ug/ml |
| 17) T | n-Tricontane (C30) | 17.841 | 3631105 | 37.528 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.675 | 3683844 | 37.174 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.460 | 3707841 | 38.471 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 20.202 | 3584204 | 37.756 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.972 | 3356685 | 36.792 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.937 | 2790032 | 31.621 ug/mlm |

(f)=RT Delta > 1/2 Window (m)=manual int.

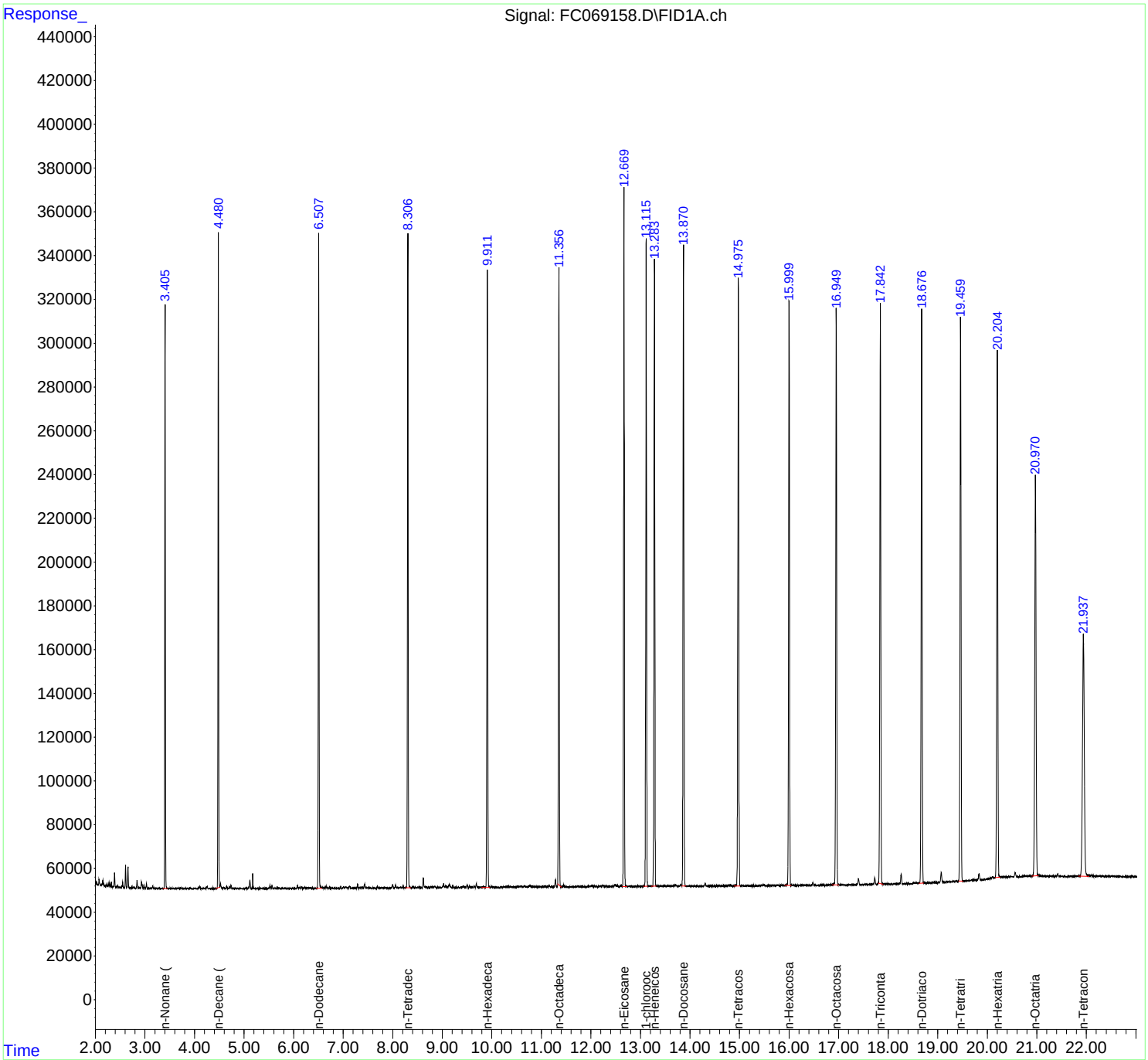
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069158.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 17:15
Operator : YP/AJ
Sample : PB168408BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB168408BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Integration File: autoint1.e
Quant Time: Jun 12 06:04:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



**Instrument :**
FID_C
**ClientSampleId :**
PB168408BS

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06112
Data File : FC069158.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 17:15
Sample : PB168408BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.406 | 3.357 | 3.455 | BB | 266450 | 2230358 | 60.15% | 3.558% |
| 2 | 4.481 | 4.425 | 4.510 | BV | 299559 | 2689801 | 72.54% | 4.291% |
| 3 | 6.507 | 6.454 | 6.575 | BV | 299429 | 2958624 | 79.79% | 4.720% |
| 4 | 8.306 | 8.250 | 8.370 | BB | 299312 | 3052905 | 82.34% | 4.870% |
| 5 | 9.911 | 9.789 | 9.964 | BB | 282715 | 3231344 | 87.15% | 5.155% |
| 6 | 11.356 | 11.330 | 11.402 | BB | 281502 | 3268350 | 88.15% | 5.214% |
| 7 | 12.669 | 12.635 | 12.722 | BB | 319268 | 3555843 | 95.90% | 5.673% |
| 8 | 13.116 | 13.055 | 13.149 | BB | 295023 | 3406395 | 91.87% | 5.434% |
| 9 | 13.283 | 13.222 | 13.322 | BB | 287284 | 3495201 | 94.27% | 5.576% |
| 10 | 13.870 | 13.834 | 13.922 | VB | 293199 | 3515122 | 94.80% | 5.608% |
| 11 | 14.975 | 14.885 | 15.015 | BB | 276778 | 3553253 | 95.83% | 5.669% |
| 12 | 15.999 | 15.907 | 16.039 | BB | 266689 | 3528040 | 95.15% | 5.628% |
| 13 | 16.950 | 16.869 | 17.010 | BB | 262331 | 3538487 | 95.43% | 5.645% |
| 14 | 17.841 | 17.800 | 17.897 | BB | 260306 | 3631105 | 97.93% | 5.793% |
| 15 | 18.675 | 18.620 | 18.722 | BB | 261621 | 3683844 | 99.35% | 5.877% |
| 16 | 19.460 | 19.420 | 19.520 | BB | 255205 | 3707841 | 100.00% | 5.915% |
| 17 | 20.202 | 20.160 | 20.264 | BB | 238937 | 3584204 | 96.67% | 5.718% |
| 18 | 20.972 | 20.897 | 21.035 | BB | 180794 | 3356685 | 90.53% | 5.355% |
| 19 | 21.939 | 21.890 | 22.037 | BB | 108723 | 2695479 | 72.70% | 4.300% |
| | | | Sum of corrected areas: | | | 62682879 | | |

Aliphatic EPH 052425.M Thu Jun 12 06:57:39 2025

Quantitation Report (QT Reviewed)

Sample Results: **FD049433.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061125AR\
Data File : FD049433.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 17:15
Operator : YP/AJ
Sample : PB168408BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB168408BS

Integration File: autoint1.e
Quant Time: Jun 12 04:59:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) | S 2-Bromonaphthalene (S... | 7.733 | 6082670 | 36.591 ug/ml |
| | Spiked Amount 50.000 | | Recovery = | 73.18% |
| 6) | S 2-Flurobiphenyl (SURR) | 8.599 | 4126519 | 36.072 ug/ml |
| | Spiked Amount 50.000 Range 0 - 131 | | Recovery = | 72.14% |
| 11) | S ortho-Terphenyl (SURR) | 11.645 | 6218341 | 30.980 ug/ml |
| | Spiked Amount 50.000 | | Recovery = | 61.96% |
| | **Target Compounds** | | | |
| 1) | T 1,2,3-Trimethylbenzen... | 4.525 | 3692267 | 23.207 ug/ml |
| 2) | T Naphthalene (C11.7) | 6.069 | 4344617 | 24.744 ug/ml |
| 3) | T 2-Methylnaphthalene (... | 7.123 | 4264479 | 23.871 ug/ml |
| 5) | T Acenaphthylene (C15.06) | 8.402 | 5052028 | 26.080 ug/ml |
| 7) | T Acenaphthene (C15.5) | 8.698 | 5074718 | 26.679 ug/ml |
| 8) | T Flouorene (C16.55) | 9.480 | 5343699 | 27.331 ug/ml |
| 9) | T Phenanthrene (C19.36) | 10.879 | 5496426 | 28.907 ug/ml |
| 10) | T Anthracene (C19.43) | 10.954 | 5281115 | 30.209 ug/ml |
| 12) | T Fluoranthene (C21.85) | 12.694 | 5534313 | 30.682 ug/ml |
| 13) | T Pyrene (C20.8) | 12.992 | 5531498 | 30.992 ug/ml |
| 14) | T Benzo[a]anthracene (C... | 14.863 | 5125382 | 33.722 ug/ml |
| 15) | T Chrysene (C27.41) | 14.907 | 5659378 | 37.268 ug/ml |
| 16) | T benzo[b]fluoranthene ... | 16.415 | 5140483 | 35.514 ug/ml |
| 17) | T Bnezo[k]fluoranthene ... | 16.450 | 5082863 | 35.421 ug/ml |
| 18) | T Benzo[a]pyrene (C31.34) | 16.795 | 4906573 | 36.101 ug/ml |
| 19) | T Indeno[1,2,3-cd]pyren... | 18.160 | 4985230 | 39.029 ug/ml |
| 20) | T Dibenz[a,h]anthracene... | 18.199 | 4577074 | 33.999 ug/ml |
| 21) | T Benzo[g,h,i]perylene ... | 18.417 | 4762929 | 35.337 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

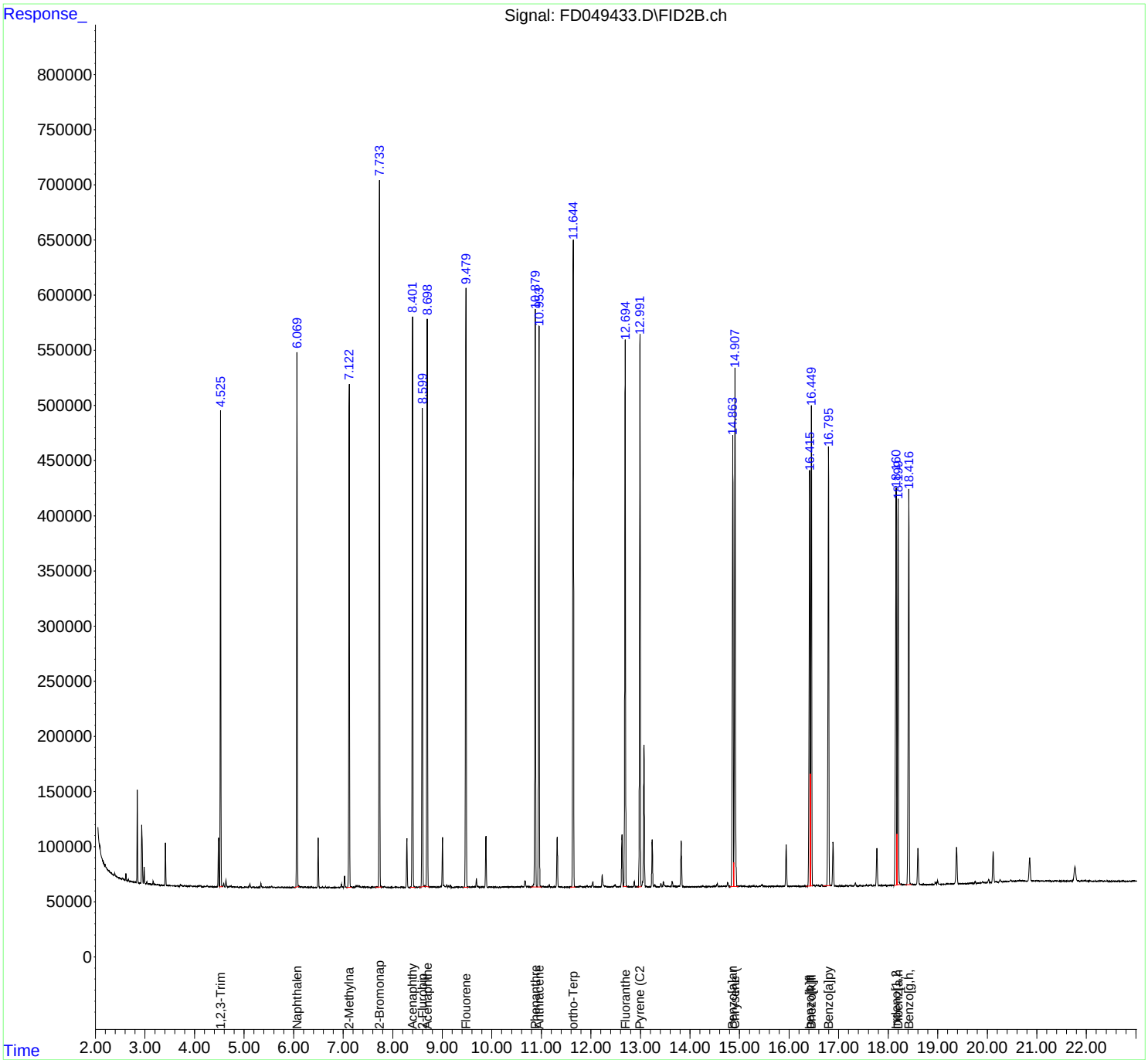
Sample Results: **FD049433.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061125AR\
Data File : FD049433.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 17:15
Operator : YP/AJ
Sample : PB168408BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB168408BS

Integration File: autoint1.e
Quant Time: Jun 12 04:59:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061225AR\
Data File : FD049433.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 17:15
Sample : PB168408BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.525 | 4.504 | 4.572 | VV | 431366 | 3692267 | 59.38% | 3.474% |
| 2 | 6.069 | 6.015 | 6.109 | BB | 483944 | 4344617 | 69.87% | 4.088% |
| 3 | 7.123 | 7.069 | 7.169 | BB | 455183 | 4264479 | 68.58% | 4.012% |
| 4 | 7.733 | 7.647 | 7.784 | BB | 640353 | 6082670 | 97.82% | 5.723% |
| 5 | 8.402 | 8.349 | 8.455 | BB | 517364 | 5052028 | 81.24% | 4.753% |
| 6 | 8.599 | 8.540 | 8.634 | BB | 432709 | 4126519 | 66.36% | 3.883% |
| 7 | 8.698 | 8.644 | 8.737 | BB | 515225 | 5074718 | 81.61% | 4.775% |
| 8 | 9.480 | 9.424 | 9.530 | BB | 543147 | 5343699 | 85.93% | 5.028% |
| 9 | 10.879 | 10.780 | 10.917 | BV | 524200 | 5496426 | 88.39% | 5.172% |
| 10 | 10.954 | 10.917 | 11.004 | PB | 508824 | 5281115 | 84.93% | 4.969% |
| 11 | 11.645 | 11.582 | 11.692 | BB | 587385 | 6218341 | 100.00% | 5.851% |
| 12 | 12.694 | 12.650 | 12.725 | BB | 495827 | 5534313 | 89.00% | 5.207% |
| 13 | 12.992 | 12.930 | 13.017 | BV | 501509 | 5531498 | 88.95% | 5.205% |
| 14 | 14.863 | 14.802 | 14.882 | BV | 409665 | 5125382 | 82.42% | 4.822% |
| 15 | 14.907 | 14.882 | 14.967 | VB | 470270 | 5659378 | 91.01% | 5.325% |
| 16 | 16.415 | 16.345 | 16.430 | BV | 376758 | 5140483 | 82.67% | 4.837% |
| 17 | 16.450 | 16.430 | 16.481 | VB | 433953 | 5082863 | 81.74% | 4.782% |
| 18 | 16.795 | 16.687 | 16.839 | BB | 398663 | 4906573 | 78.90% | 4.617% |
| 19 | 18.160 | 18.110 | 18.176 | BV | 359869 | 4985230 | 80.17% | 4.691% |
| 20 | 18.199 | 18.176 | 18.250 | VB | 348557 | 4577074 | 73.61% | 4.307% |
| 21 | 18.417 | 18.344 | 18.474 | BB | 358730 | 4762929 | 76.59% | 4.481% |

Sum of corrected areas: 106282602

Aromatic EPH 052425.M Thu Jun 12 05:40:16 2025

Quantitation Report (QT Reviewed)

Sample Results: **FC069136.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069136.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 17:37
Operator : YP/AJ
Sample : PB168324BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB168324BSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File: autoint1.e
Quant Time: Jun 10 05:24:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 12) S | 1-chlorooctadecane (S... | 13.114 | 3493029 | 38.935 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 77.87% |
| | **Target Compounds** | | | |
| 1) T | n-Nonane (C9) | 3.401 | 2327293 | 21.930 ug/ml |
| 2) T | n-Decane (C10) | 4.476 | 2813430 | 26.565 ug/ml |
| 4) T | n-Dodecane (C12) | 6.502 | 3093089 | 29.424 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.302 | 3187020 | 31.092 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.908 | 3360821 | 33.122 ug/ml |
| 8) T | n-Octadecane (C18) | 11.352 | 3424204 | 34.261 ug/mlm |
| 10) T | n-Eicosane (C20) | 12.668 | 3665722 | 37.637 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.281 | 3589570 | 37.293 ug/ml |
| 13) T | n-Docosane (C22) | 13.869 | 3602528 | 37.814 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.974 | 3622735 | 38.477 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.997 | 3574251 | 38.498 ug/ml |
| 16) T | n-Octacosane (C28) | 16.949 | 3545854 | 38.147 ug/ml |
| 17) T | n-Tricontane (C30) | 17.839 | 3586320 | 37.065 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.673 | 3613612 | 36.465 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.460 | 3648561 | 37.856 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 20.202 | 3586181 | 37.777 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.973 | 3483420 | 38.181 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.942 | 3122908 | 35.393 ug/mlm |

(f)=RT Delta > 1/2 Window (m)=manual int.

Sample Results: **FC069136.D**

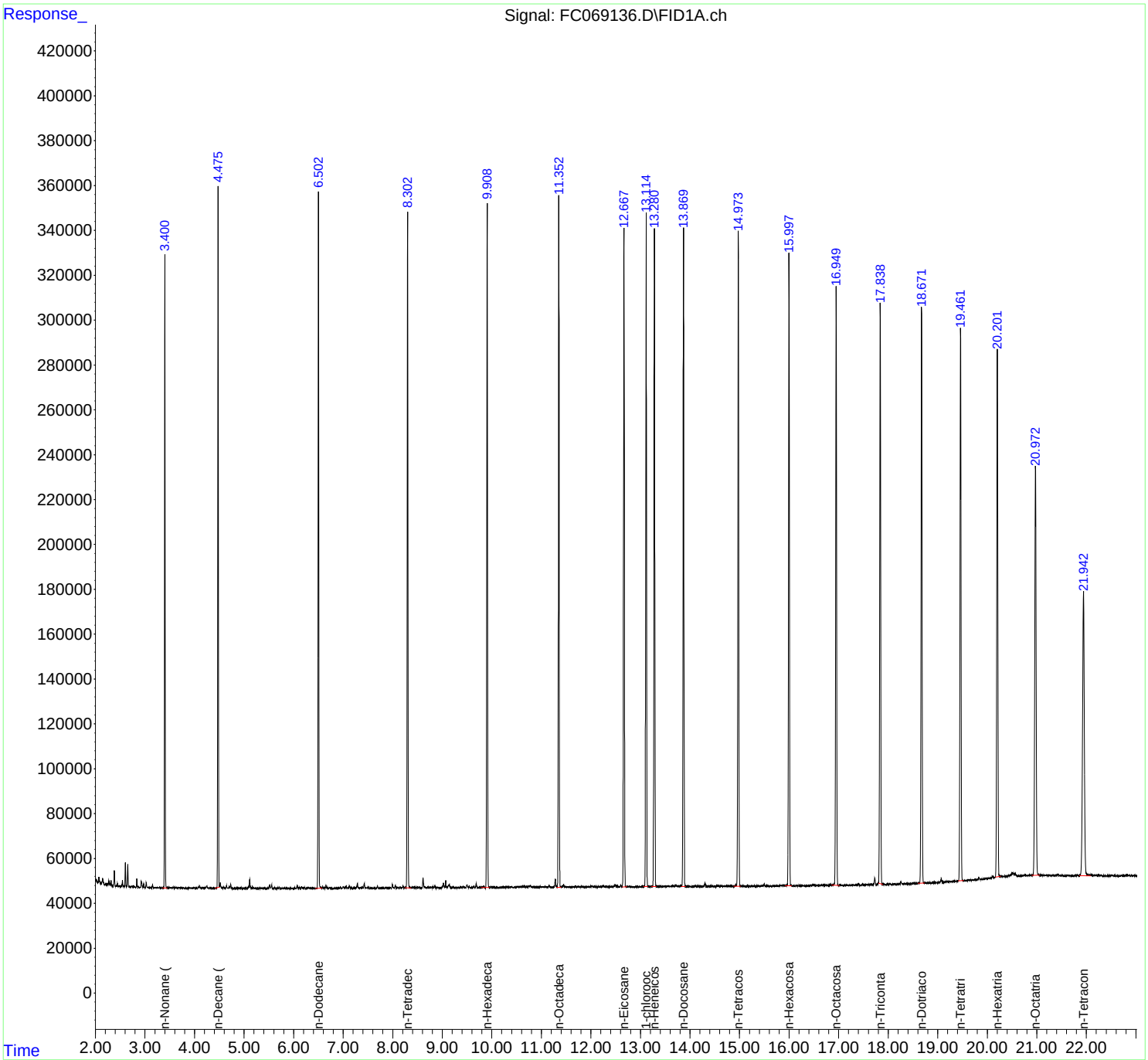
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069136.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 17:37
Operator : YP/AJ
Sample : PB168324BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB168324BSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File: autoint1.e
Quant Time: Jun 10 05:24:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



**Instrument :**
FID_C
**ClientSampleId :**
PB168324BSD

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06092
Data File : FC069136.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 17:37
Sample : PB168324BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.401 | 3.350 | 3.442 | BB | 281841 | 2327293 | 63.49% | 3.628% |
| 2 | 4.476 | 4.420 | 4.505 | BV | 312351 | 2813430 | 76.75% | 4.386% |
| 3 | 6.502 | 6.438 | 6.570 | BB | 310472 | 3093089 | 84.38% | 4.822% |
| 4 | 8.302 | 8.247 | 8.367 | BB | 301374 | 3187020 | 86.94% | 4.968% |
| 5 | 9.908 | 9.787 | 9.955 | BB | 305496 | 3360821 | 91.68% | 5.239% |
| 6 | 11.353 | 11.330 | 11.392 | BB | 302141 | 3341075 | 91.14% | 5.208% |
| 7 | 12.668 | 12.630 | 12.722 | PB | 294857 | 3665722 | 100.00% | 5.714% |
| 8 | 13.114 | 13.055 | 13.153 | BB | 301455 | 3493029 | 95.29% | 5.445% |
| 9 | 13.281 | 13.218 | 13.318 | BB | 293906 | 3589570 | 97.92% | 5.596% |
| 10 | 13.869 | 13.831 | 13.913 | VB | 292257 | 3602528 | 98.28% | 5.616% |
| 11 | 14.974 | 14.880 | 15.018 | BB | 292026 | 3622735 | 98.83% | 5.647% |
| 12 | 15.997 | 15.915 | 16.057 | BB | 281923 | 3574251 | 97.50% | 5.572% |
| 13 | 16.949 | 16.865 | 17.013 | BB | 266529 | 3545854 | 96.73% | 5.527% |
| 14 | 17.839 | 17.800 | 17.897 | BB | 258501 | 3586320 | 97.83% | 5.590% |
| 15 | 18.673 | 18.598 | 18.728 | BB | 252605 | 3613612 | 98.58% | 5.633% |
| 16 | 19.460 | 19.420 | 19.520 | BB | 246067 | 3648561 | 99.53% | 5.688% |
| 17 | 20.202 | 20.160 | 20.268 | BB | 234644 | 3586181 | 97.83% | 5.590% |
| 18 | 20.973 | 20.893 | 21.055 | BB | 181895 | 3483420 | 95.03% | 5.430% |
| 19 | 21.942 | 21.890 | 22.040 | BB | 125617 | 3015844 | 82.27% | 4.701% |
| | | | Sum of corrected areas: | | | 64150354 | | |

Aliphatic EPH 052425.M Tue Jun 10 06:18:36 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049417.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 17:37
Operator : YP/AJ
Sample : PB168324BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB168324BSD

Integration File: autoint1.e
Quant Time: Jun 10 02:35:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) | S 2-Bromonaphthalene (S... | 7.733 | 5235013 | 31.492 ug/ml |
| | Spiked Amount 50.000 | | Recovery = | 62.98% |
| 6) | S 2-Flurobiphenyl (SURR) | 8.598 | 3547472 | 31.010 ug/ml |
| | Spiked Amount 50.000 Range 0 - 131 | | Recovery = | 62.02% |
| 11) | S ortho-Terphenyl (SURR) | 11.644 | 5354384 | 26.676 ug/ml |
| | Spiked Amount 50.000 | | Recovery = | 53.35% |
| | **Target Compounds** | | | |
| 1) | T 1,2,3-Trimethylbenzen... | 4.525 | 3225620 | 20.274 ug/ml |
| 2) | T Naphthalene (C11.7) | 6.067 | 3770705 | 21.475 ug/ml |
| 3) | T 2-Methylnaphthalene (... | 7.121 | 3683509 | 20.619 ug/ml |
| 5) | T Acenaphthylene (C15.06) | 8.401 | 4361706 | 22.516 ug/ml |
| 7) | T Acenaphthene (C15.5) | 8.697 | 4385346 | 23.054 ug/ml |
| 8) | T Flouorene (C16.55) | 9.479 | 4596241 | 23.508 ug/ml |
| 9) | T Phenanthrene (C19.36) | 10.878 | 4729941 | 24.876 ug/ml |
| 10) | T Anthracene (C19.43) | 10.953 | 4554391 | 26.052 ug/ml |
| 12) | T Fluoranthene (C21.85) | 12.693 | 4803640 | 26.631 ug/ml |
| 13) | T Pyrene (C20.8) | 12.991 | 4810183 | 26.951 ug/ml |
| 14) | T Benzo[a]anthracene (C... | 14.863 | 4485779 | 29.514 ug/ml |
| 15) | T Chrysene (C27.41) | 14.907 | 4951080 | 32.604 ug/ml |
| 16) | T benzo[b]fluoranthene ... | 16.416 | 4552141 | 31.449 ug/ml |
| 17) | T Bnezo[k]fluoranthene ... | 16.450 | 4524513 | 31.530 ug/ml |
| 18) | T Benzo[a]pyrene (C31.34) | 16.796 | 4380687 | 32.231 ug/ml |
| 19) | T Indeno[1,2,3-cd]pyren... | 18.162 | 4507749 | 35.291 ug/ml |
| 20) | T Dibenz[a,h]anthracene... | 18.200 | 4143409 | 30.777 ug/ml |
| 21) | T Benzo[g,h,i]perylene ... | 18.418 | 4294233 | 31.860 ug/ml |

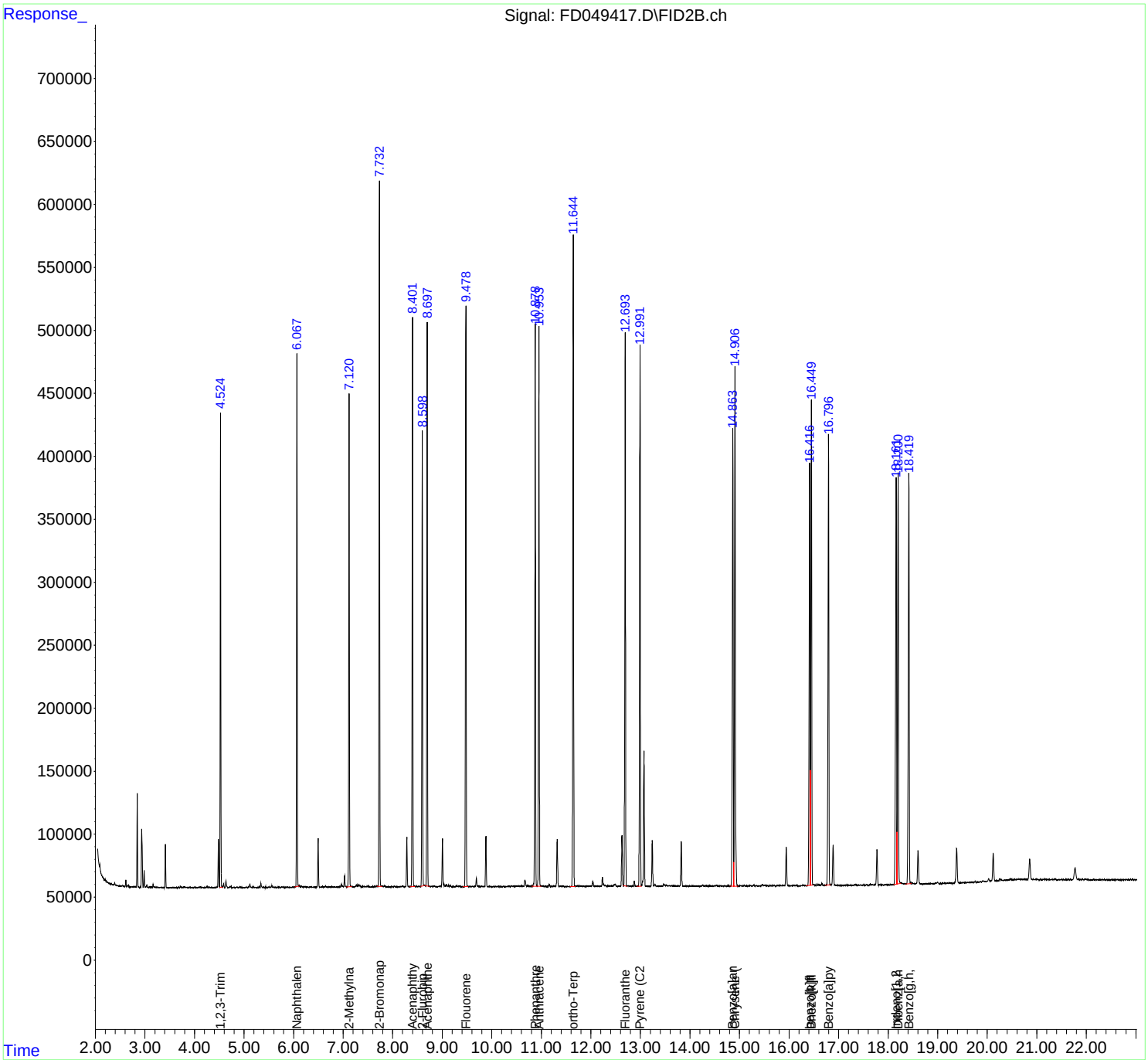
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049417.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 17:37
Operator : YP/AJ
Sample : PB168324BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB168324BSD

Integration File: autoint1.e
Quant Time: Jun 10 02:35:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049417.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 17:37
Sample : PB168324BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.525 | 4.503 | 4.570 | VV | 377100 | 3225620 | 60.24% | 3.472% |
| 2 | 6.067 | 6.015 | 6.117 | BB | 422456 | 3770705 | 70.42% | 4.059% |
| 3 | 7.121 | 7.068 | 7.173 | BB | 390047 | 3683509 | 68.79% | 3.965% |
| 4 | 7.733 | 7.680 | 7.787 | BB | 558343 | 5235013 | 97.77% | 5.635% |
| 5 | 8.401 | 8.348 | 8.450 | BB | 451894 | 4361706 | 81.46% | 4.695% |
| 6 | 8.598 | 8.563 | 8.642 | BB | 361515 | 3547472 | 66.25% | 3.819% |
| 7 | 8.697 | 8.647 | 8.742 | BB | 448124 | 4385346 | 81.90% | 4.721% |
| 8 | 9.479 | 9.418 | 9.523 | BB | 459863 | 4596241 | 85.84% | 4.948% |
| 9 | 10.878 | 10.802 | 10.917 | BV | 448399 | 4729941 | 88.34% | 5.092% |
| 10 | 10.953 | 10.917 | 10.995 | PB | 444611 | 4554391 | 85.06% | 4.903% |
| 11 | 11.644 | 11.575 | 11.692 | BB | 516473 | 5354384 | 100.00% | 5.764% |
| 12 | 12.693 | 12.650 | 12.725 | BB | 438187 | 4803640 | 89.71% | 5.171% |
| 13 | 12.991 | 12.930 | 13.019 | BV | 431776 | 4810183 | 89.84% | 5.178% |
| 14 | 14.863 | 14.803 | 14.883 | BV | 363464 | 4485779 | 83.78% | 4.829% |
| 15 | 14.907 | 14.883 | 14.972 | VB | 412841 | 4951080 | 92.47% | 5.330% |
| 16 | 16.416 | 16.348 | 16.431 | BV | 335577 | 4552141 | 85.02% | 4.900% |
| 17 | 16.450 | 16.431 | 16.487 | VV | 385449 | 4524513 | 84.50% | 4.870% |
| 18 | 16.796 | 16.732 | 16.838 | BB | 358592 | 4380687 | 81.81% | 4.716% |
| 19 | 18.162 | 18.110 | 18.178 | BV | 322941 | 4507749 | 84.19% | 4.852% |
| 20 | 18.200 | 18.178 | 18.262 | VB | 325556 | 4143409 | 77.38% | 4.460% |
| 21 | 18.418 | 18.345 | 18.472 | BB | 325147 | 4294233 | 80.20% | 4.623% |

Sum of corrected areas: 92897744

Aromatic EPH 052425.M Tue Jun 10 02:59:18 2025

Quantitation Report (QT Reviewed)

Sample Results: **FC069159.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069159.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 17:57
Operator : YP/AJ
Sample : PB168408BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB168408BSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Integration File: autoint1.e
Quant Time: Jun 12 06:04:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 12) S | 1-chlorooctadecane (S... | 13.115 | 3465185 | 38.625 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 77.25% |
| | **Target Compounds** | | | |
| 1) T | n-Nonane (C9) | 3.406 | 2259686 | 21.293 ug/ml |
| 2) T | n-Decane (C10) | 4.480 | 2725623 | 25.736 ug/ml |
| 4) T | n-Dodecane (C12) | 6.506 | 3002002 | 28.557 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.305 | 3089908 | 30.144 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.910 | 3261116 | 32.140 ug/ml |
| 8) T | n-Octadecane (C18) | 11.355 | 3332929 | 33.348 ug/mlm |
| 10) T | n-Eicosane (C20) | 12.668 | 3588430 | 36.843 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.282 | 3526278 | 36.636 ug/ml |
| 13) T | n-Docosane (C22) | 13.869 | 3548367 | 37.246 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.974 | 3595477 | 38.188 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.999 | 3569762 | 38.450 ug/ml |
| 16) T | n-Octacosane (C28) | 16.950 | 3570341 | 38.410 ug/ml |
| 17) T | n-Tricontane (C30) | 17.840 | 3651998 | 37.744 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.674 | 3697035 | 37.307 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.461 | 3735390 | 38.757 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 20.202 | 3662913 | 38.586 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.972 | 3539927 | 38.800 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.941 | 3141718 | 35.606 ug/mlm |

(f)=RT Delta > 1/2 Window (m)=manual int.

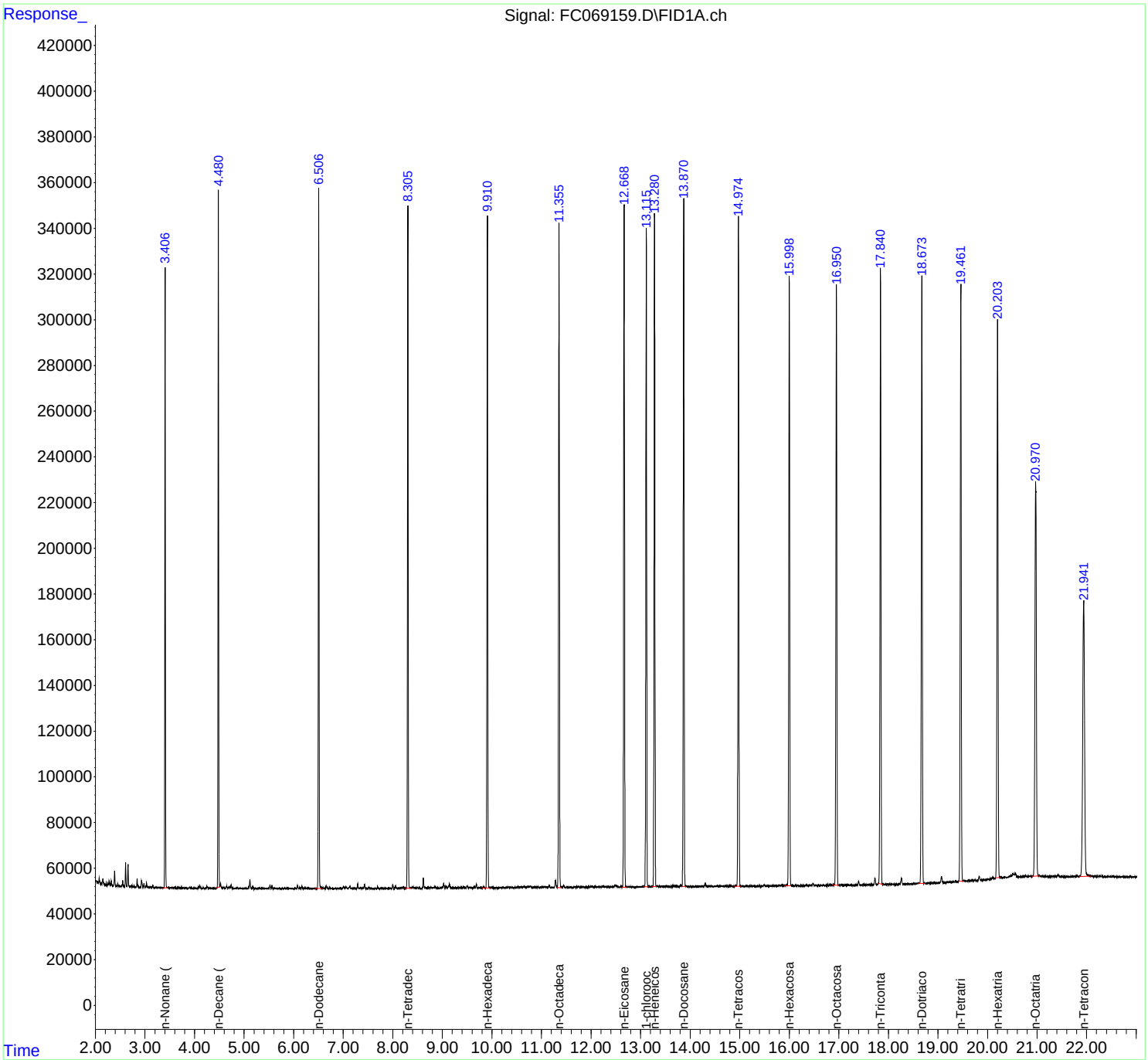
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069159.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 17:57
Operator : YP/AJ
Sample : PB168408BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
PB168408BSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Integration File: autoint1.e
Quant Time: Jun 12 06:04:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



**Instrument :**
FID_C
**ClientSampleId :**
PB168408BSD

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06112
Data File : FC069159.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 17:57
Sample : PB168408BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.406 | 3.355 | 3.457 | BB | 270640 | 2259686 | 60.49% | 3.543% |
| 2 | 4.480 | 4.425 | 4.510 | BV | 304688 | 2725623 | 72.97% | 4.274% |
| 3 | 6.506 | 6.442 | 6.573 | BB | 306860 | 3002002 | 80.37% | 4.707% |
| 4 | 8.305 | 8.252 | 8.368 | BB | 298267 | 3089908 | 82.72% | 4.845% |
| 5 | 9.910 | 9.788 | 9.963 | BB | 294226 | 3261116 | 87.30% | 5.113% |
| 6 | 11.355 | 11.330 | 11.402 | BB | 289391 | 3274806 | 87.67% | 5.135% |
| 7 | 12.668 | 12.627 | 12.720 | PB | 300038 | 3588430 | 96.07% | 5.627% |
| 8 | 13.115 | 13.055 | 13.150 | BB | 287842 | 3465185 | 92.77% | 5.433% |
| 9 | 13.282 | 13.223 | 13.320 | BB | 292085 | 3526278 | 94.40% | 5.529% |
| 10 | 13.869 | 13.831 | 13.908 | PB | 303197 | 3548367 | 94.99% | 5.564% |
| 11 | 14.974 | 14.885 | 15.030 | BB | 293241 | 3595477 | 96.25% | 5.638% |
| 12 | 15.999 | 15.905 | 16.037 | BB | 267266 | 3569762 | 95.57% | 5.597% |
| 13 | 16.950 | 16.865 | 17.005 | BB | 262631 | 3570341 | 95.58% | 5.598% |
| 14 | 17.840 | 17.800 | 17.895 | BB | 269117 | 3651998 | 97.77% | 5.726% |
| 15 | 18.674 | 18.598 | 18.737 | BB | 265201 | 3697035 | 98.97% | 5.797% |
| 16 | 19.461 | 19.420 | 19.508 | BB | 260286 | 3735390 | 100.00% | 5.857% |
| 17 | 20.202 | 20.160 | 20.258 | BB | 242842 | 3662913 | 98.06% | 5.743% |
| 18 | 20.972 | 20.895 | 21.048 | BB | 170513 | 3539927 | 94.77% | 5.550% |
| 19 | 21.941 | 21.890 | 22.048 | BB | 118535 | 3012966 | 80.66% | 4.724% |
| | | | Sum of corrected areas: | | | 63777209 | | |

Aliphatic EPH 052425.M Thu Jun 12 06:58:19 2025

Quantitation Report (QT Reviewed)

Sample Results: **FD049434.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061125AR\
Data File : FD049434.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 17:57
Operator : YP/AJ
Sample : PB168408BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB168408BSD

Integration File: autoint1.e
Quant Time: Jun 12 04:59:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.732 | 5575880 | 33.542 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 67.08% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.598 | 3792496 | 33.152 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 66.30% |
| 11) S | ortho-Terphenyl (SURR) | 11.643 | 5678306 | 28.290 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 56.58% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.525 | 3411733 | 21.443 ug/ml |
| 2) T | Naphthalene (C11.7) | 6.068 | 4008193 | 22.828 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 7.122 | 3923959 | 21.965 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.401 | 4615942 | 23.829 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.697 | 4650906 | 24.451 ug/ml |
| 8) T | Flouorene (C16.55) | 9.478 | 4894839 | 25.035 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.877 | 5044883 | 26.532 ug/ml |
| 10) T | Anthracene (C19.43) | 10.952 | 4860253 | 27.801 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.692 | 5099467 | 28.271 ug/ml |
| 13) T | Pyrene (C20.8) | 12.990 | 5104528 | 28.600 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.863 | 4803591 | 31.605 ug/ml |
| 15) T | Chrysene (C27.41) | 14.906 | 5280312 | 34.772 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.414 | 4810805 | 33.236 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.449 | 4785489 | 33.348 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.794 | 4627157 | 34.045 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 18.161 | 4768815 | 37.335 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 18.199 | 4476908 | 33.255 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 18.416 | 4514892 | 33.497 ug/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

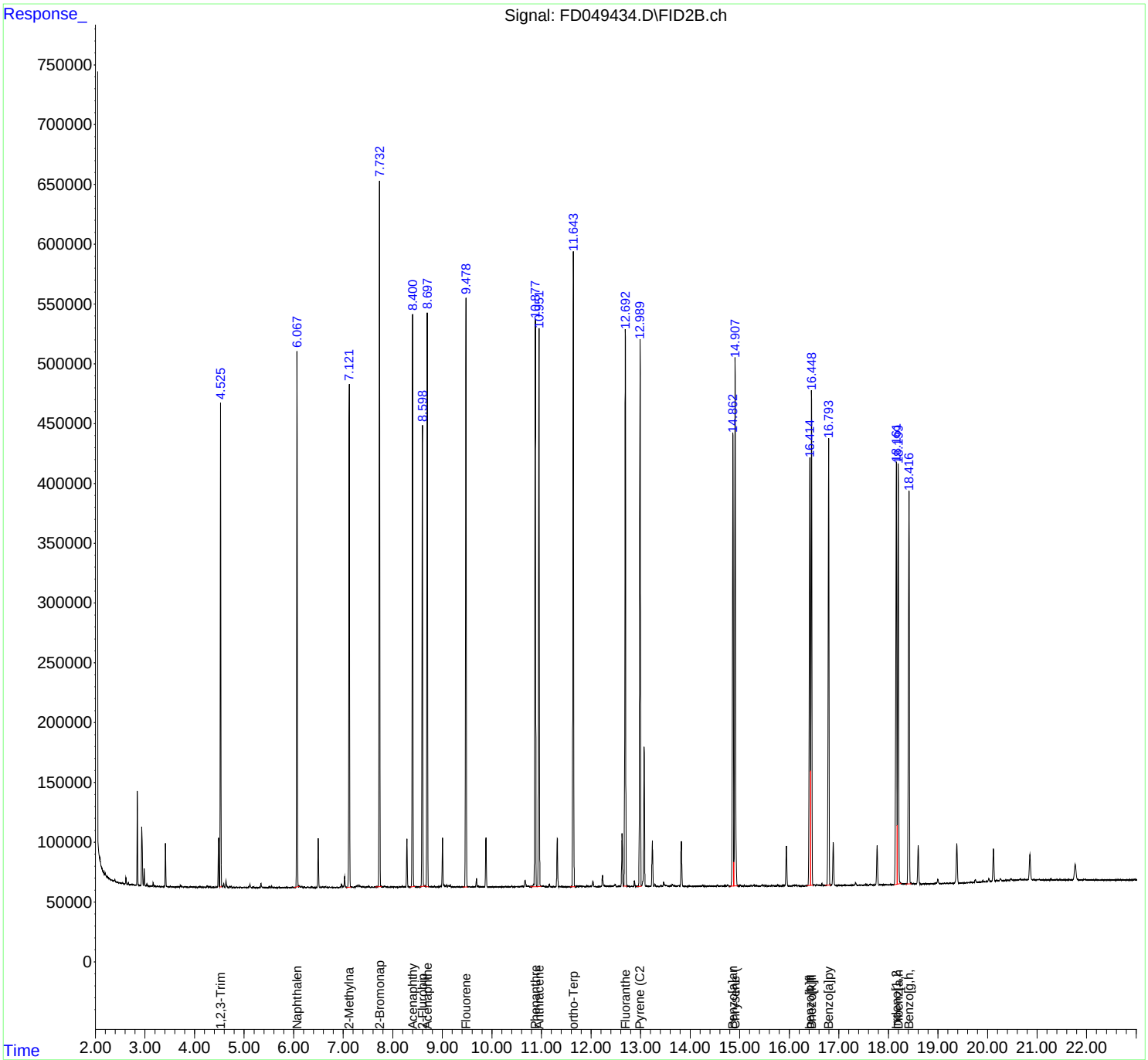
Sample Results: **FD049434.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061125AR\
Data File : FD049434.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 17:57
Operator : YP/AJ
Sample : PB168408BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
PB168408BSD

Integration File: autoint1.e
Quant Time: Jun 12 04:59:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061225AR\
Data File : FD049434.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 17:57
Sample : PB168408BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.525 | 4.503 | 4.551 | VV | 404430 | 3411733 | 60.08% | 3.456% |
| 2 | 6.068 | 6.012 | 6.107 | BB | 447788 | 4008193 | 70.59% | 4.060% |
| 3 | 7.122 | 7.070 | 7.160 | BB | 420101 | 3923959 | 69.10% | 3.974% |
| 4 | 7.732 | 7.645 | 7.778 | BB | 588507 | 5575880 | 98.20% | 5.648% |
| 5 | 8.401 | 8.350 | 8.443 | BB | 479001 | 4615942 | 81.29% | 4.675% |
| 6 | 8.598 | 8.538 | 8.640 | BB | 385737 | 3792496 | 66.79% | 3.841% |
| 7 | 8.697 | 8.647 | 8.727 | BB | 479926 | 4650906 | 81.91% | 4.711% |
| 8 | 9.478 | 9.417 | 9.513 | BB | 491510 | 4894839 | 86.20% | 4.958% |
| 9 | 10.877 | 10.778 | 10.915 | BV | 474293 | 5044883 | 88.84% | 5.110% |
| 10 | 10.952 | 10.915 | 10.998 | PB | 466393 | 4860253 | 85.59% | 4.923% |
| 11 | 11.643 | 11.582 | 11.688 | BB | 531375 | 5678306 | 100.00% | 5.751% |
| 12 | 12.692 | 12.650 | 12.732 | BB | 464799 | 5099467 | 89.81% | 5.165% |
| 13 | 12.990 | 12.932 | 13.015 | BV | 457377 | 5104528 | 89.90% | 5.170% |
| 14 | 14.863 | 14.797 | 14.882 | BV | 378192 | 4803591 | 84.60% | 4.865% |
| 15 | 14.906 | 14.882 | 14.963 | VB | 441990 | 5280312 | 92.99% | 5.348% |
| 16 | 16.414 | 16.350 | 16.429 | BV | 357432 | 4810805 | 84.72% | 4.873% |
| 17 | 16.449 | 16.429 | 16.483 | VB | 413478 | 4785489 | 84.28% | 4.847% |
| 18 | 16.794 | 16.732 | 16.837 | BB | 373242 | 4627157 | 81.49% | 4.687% |
| 19 | 18.161 | 18.110 | 18.176 | BV | 352299 | 4768815 | 83.98% | 4.830% |
| 20 | 18.199 | 18.176 | 18.255 | VB | 352003 | 4476908 | 78.84% | 4.535% |
| 21 | 18.416 | 18.352 | 18.465 | BB | 328881 | 4514892 | 79.51% | 4.573% |
| | | | Sum of corrected areas: | | | 98729354 | | |

Aromatic EPH 052425.M Thu Jun 12 05:41:18 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069165.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 22:09
Operator : YP/AJ
Sample : Q2177-02MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01MS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Integration File: autoint1.e
Quant Time: Jun 12 06:06:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 12) S | 1-chlorooctadecane (S... | 13.118 | 6218026 | 69.309 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 138.62% |
| | **Target Compounds** | | | |
| 1) T | n-Nonane (C9) | 3.404 | 2188921 | 20.626 ug/ml |
| 2) T | n-Decane (C10) | 4.479 | 2684592 | 25.349 ug/mlm |
| 4) T | n-Dodecane (C12) | 6.507 | 3278980 | 31.192 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.308 | 3646211 | 35.572 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.912 | 3471433 | 34.212 ug/ml |
| 8) T | n-Octadecane (C18) | 11.357 | 3441548 | 34.435 ug/ml |
| 10) T | n-Eicosane (C20) | 12.669 | 3494770 | 35.881 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.283 | 3333560 | 34.633 ug/ml |
| 13) T | n-Docosane (C22) | 13.869 | 3315435 | 34.801 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.975 | 3310877 | 35.165 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.998 | 3253315 | 35.042 ug/ml |
| 16) T | n-Octacosane (C28) | 16.950 | 3224546 | 34.690 ug/ml |
| 17) T | n-Tricontane (C30) | 17.839 | 3233820 | 33.422 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.673 | 3264137 | 32.938 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.459 | 3307215 | 34.315 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 20.201 | 3214033 | 33.857 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.969 | 3075733 | 33.712 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.936 | 2660293 | 30.150 ug/mlm |

(f)=RT Delta > 1/2 Window (m)=manual int.

Sample Results: **FC069165.D**

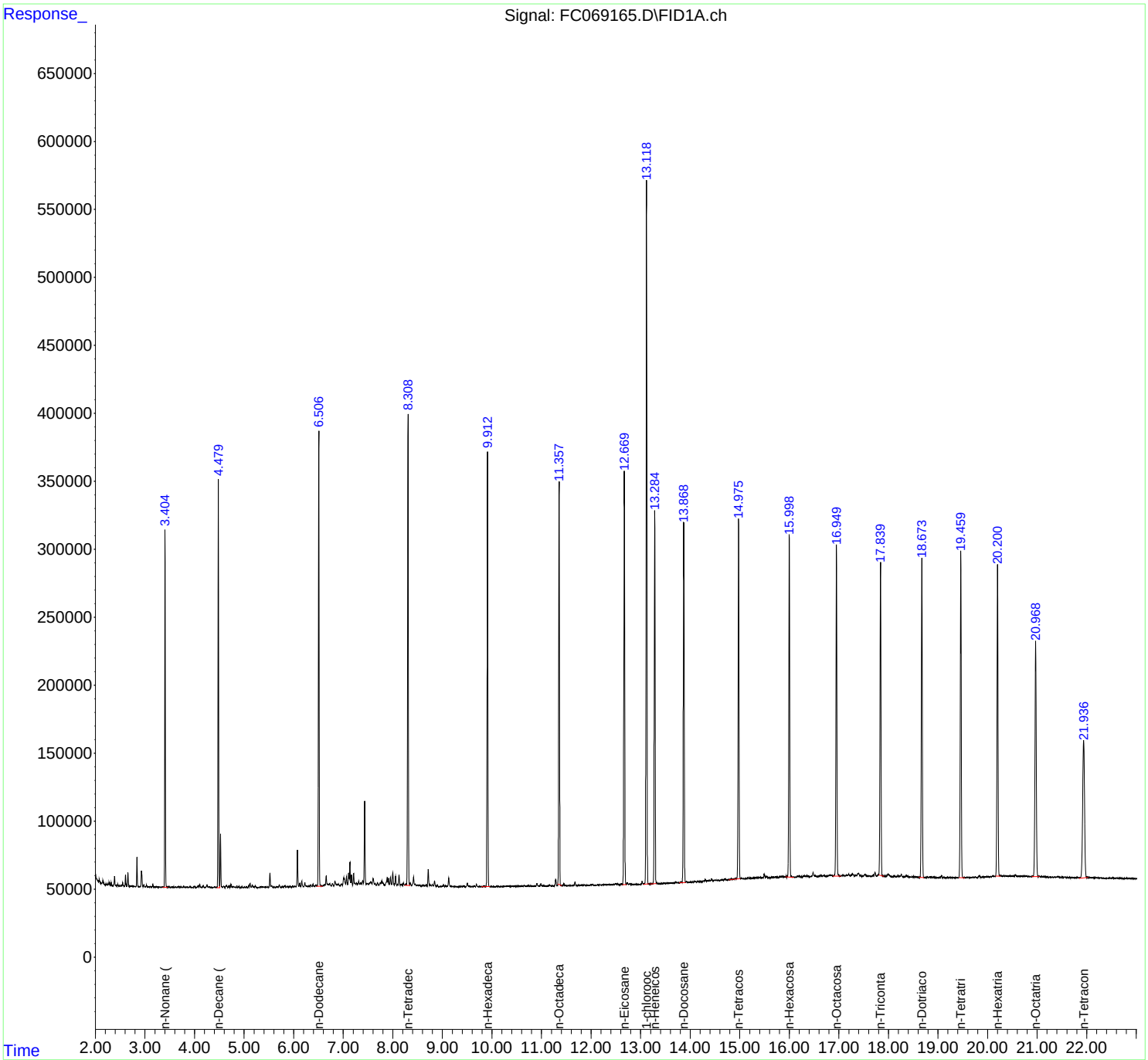
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069165.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 22:09
Operator : YP/AJ
Sample : Q2177-02MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01MS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Integration File: autoint1.e
Quant Time: Jun 12 06:06:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01MS

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06112
Data File : FC069165.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 22:09
Sample : Q2177-02MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.229 | 3.204 | 3.274 | BV | 192 | 3866 | 0.06% | 0.004% |
| 2 | 3.297 | 3.274 | 3.322 | VV | 207 | 2307 | 0.04% | 0.003% |
| 3 | 3.331 | 3.322 | 3.371 | PV | 80 | 1417 | 0.02% | 0.002% |
| 4 | 3.404 | 3.371 | 3.511 | VV | 262390 | 2198132 | 35.07% | 2.533% |
| 5 | 3.534 | 3.511 | 3.571 | VV | 277 | 5207 | 0.08% | 0.006% |
| 6 | 3.608 | 3.571 | 3.632 | VV | 406 | 6389 | 0.10% | 0.007% |
| 7 | 3.683 | 3.632 | 3.704 | PV | 646 | 12875 | 0.21% | 0.015% |
| 8 | 3.733 | 3.704 | 3.757 | VV | 588 | 9256 | 0.15% | 0.011% |
| 9 | 3.782 | 3.757 | 3.832 | VV | 876 | 15252 | 0.24% | 0.018% |
| 10 | 3.851 | 3.832 | 3.871 | VV | 328 | 5095 | 0.08% | 0.006% |
| 11 | 3.878 | 3.871 | 3.888 | VV | 122 | 1047 | 0.02% | 0.001% |
| 12 | 3.904 | 3.888 | 3.942 | VV | 747 | 10848 | 0.17% | 0.012% |
| 13 | 3.954 | 3.942 | 3.968 | VV | 234 | 2047 | 0.03% | 0.002% |
| 14 | 3.991 | 3.968 | 4.041 | VV | 662 | 14329 | 0.23% | 0.017% |
| 15 | 4.078 | 4.041 | 4.092 | VV | 1751 | 22085 | 0.35% | 0.025% |
| 16 | 4.107 | 4.092 | 4.126 | VV | 2388 | 22447 | 0.36% | 0.026% |
| 17 | 4.141 | 4.126 | 4.155 | VV | 475 | 5291 | 0.08% | 0.006% |
| 18 | 4.175 | 4.155 | 4.198 | VV | 1723 | 17515 | 0.28% | 0.020% |
| 19 | 4.247 | 4.198 | 4.275 | VV | 1361 | 27156 | 0.43% | 0.031% |
| 20 | 4.288 | 4.275 | 4.366 | VV | 605 | 14526 | 0.23% | 0.017% |
| 21 | 4.398 | 4.366 | 4.414 | PV | 399 | 6587 | 0.11% | 0.008% |
| 22 | 4.434 | 4.414 | 4.450 | VV | 413 | 5121 | 0.08% | 0.006% |
| 23 | 4.480 | 4.450 | 4.505 | VV | 300087 | 2683790 | 42.82% | 3.092% |
| 24 | 4.524 | 4.505 | 4.568 | VV | 39526 | 359419 | 5.73% | 0.414% |
| 25 | 4.586 | 4.568 | 4.613 | VV | 1205 | 16785 | 0.27% | 0.019% |
| 26 | 4.634 | 4.613 | 4.670 | VV | 1532 | 30047 | 0.48% | 0.035% |
| 27 | 4.684 | 4.670 | 4.693 | VV | 723 | 7816 | 0.12% | 0.009% |
| 28 | 4.706 | 4.693 | 4.721 | VV | 1150 | 12210 | 0.19% | 0.014% |
| 29 | 4.735 | 4.721 | 4.753 | VV | 2673 | 24726 | 0.39% | 0.028% |
| 30 | 4.767 | 4.753 | 4.779 | VV | 1002 | 10081 | 0.16% | 0.012% |
| 31 | 4.789 | 4.779 | 4.805 | VV | 734 | 8980 | 0.14% | 0.010% |
| 32 | 4.814 | 4.805 | 4.828 | VV | 570 | 5480 | 0.09% | 0.006% |
| 33 | 4.856 | 4.828 | 4.874 | VV | 830 | 11835 | 0.19% | 0.014% |
| 34 | 4.897 | 4.874 | 4.917 | VV | 755 | 10730 | 0.17% | 0.012% |
| 35 | 4.931 | 4.917 | 4.948 | VV | 314 | 4680 | 0.07% | 0.005% |
| 36 | 4.960 | 4.948 | 4.982 | VV | 711 | 7467 | 0.12% | 0.009% |

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01MS

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

| | | | | | rteres | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 5.005 | 4.982 | 5.020 | VV | 372 | 5098 | 0.08% | 0.006% |
| 38 | 5.038 | 5.020 | 5.068 | VV | 530 | 8334 | | |
| 39 | 5.092 | 5.068 | 5.103 | VV | 1696 | 16751 | | |
| 40 | 5.120 | 5.103 | 5.143 | VV | 3184 | 38049 | | |
| 41 | 5.162 | 5.143 | 5.191 | VV | 1887 | 26955 | | |
| 42 | 5.225 | 5.191 | 5.267 | VV | 1731 | 26709 | | |
| 43 | 5.280 | 5.267 | 5.300 | PV | 200 | 3284 | 0.05% | 0.004% |
| 44 | 5.325 | 5.300 | 5.378 | VV | 779 | 19076 | 0.30% | 0.022% |
| 45 | 5.387 | 5.378 | 5.404 | VV | 504 | 6960 | 0.11% | 0.008% |
| 46 | 5.417 | 5.404 | 5.430 | VV | 548 | 6216 | 0.10% | 0.007% |
| 47 | 5.446 | 5.430 | 5.497 | VV | 454 | 13866 | 0.22% | 0.016% |
| 48 | 5.521 | 5.497 | 5.542 | VV | 10920 | 110153 | 1.76% | 0.127% |
| 49 | 5.553 | 5.542 | 5.580 | VV | 1377 | 22341 | 0.36% | 0.026% |
| 50 | 5.593 | 5.580 | 5.608 | VV | 518 | 6485 | 0.10% | 0.007% |
| 51 | 5.619 | 5.608 | 5.638 | VV | 398 | 5920 | 0.09% | 0.007% |
| 52 | 5.711 | 5.638 | 5.751 | VV | 2044 | 43535 | 0.69% | 0.050% |
| 53 | 5.770 | 5.751 | 5.785 | VV | 721 | 11227 | 0.18% | 0.013% |
| 54 | 5.823 | 5.785 | 5.854 | VV | 1456 | 34514 | 0.55% | 0.040% |
| 55 | 5.871 | 5.854 | 5.903 | VV | 1016 | 17164 | 0.27% | 0.020% |
| 56 | 5.922 | 5.903 | 5.958 | VV | 1069 | 20820 | 0.33% | 0.024% |
| 57 | 5.977 | 5.958 | 6.008 | VV | 1099 | 18092 | 0.29% | 0.021% |
| 58 | 6.026 | 6.008 | 6.047 | VV | 1129 | 18480 | 0.29% | 0.021% |
| 59 | 6.076 | 6.047 | 6.104 | VV | 27613 | 289700 | 4.62% | 0.334% |
| 60 | 6.122 | 6.104 | 6.143 | VV | 3280 | 42962 | 0.69% | 0.050% |
| 61 | 6.164 | 6.143 | 6.196 | VV | 4698 | 64662 | 1.03% | 0.075% |
| 62 | 6.226 | 6.196 | 6.247 | VV | 3720 | 53135 | 0.85% | 0.061% |
| 63 | 6.264 | 6.247 | 6.288 | VV | 1237 | 25118 | 0.40% | 0.029% |
| 64 | 6.318 | 6.288 | 6.327 | VV | 1138 | 24673 | 0.39% | 0.028% |
| 65 | 6.345 | 6.327 | 6.369 | VV | 1950 | 33066 | 0.53% | 0.038% |
| 66 | 6.389 | 6.369 | 6.418 | VV | 2064 | 37048 | 0.59% | 0.043% |
| 67 | 6.442 | 6.418 | 6.457 | VV | 1718 | 30013 | 0.48% | 0.035% |
| 68 | 6.469 | 6.457 | 6.475 | VV | 1332 | 12557 | 0.20% | 0.014% |
| 69 | 6.507 | 6.475 | 6.561 | VV | 335762 | 3320385 | 52.97% | 3.826% |
| 70 | 6.569 | 6.561 | 6.588 | VV | 1315 | 18418 | 0.29% | 0.021% |
| 71 | 6.623 | 6.588 | 6.635 | VV | 2023 | 46280 | 0.74% | 0.053% |
| 72 | 6.656 | 6.635 | 6.679 | VV | 8441 | 113683 | 1.81% | 0.131% |
| 73 | 6.689 | 6.679 | 6.713 | VV | 2505 | 45984 | 0.73% | 0.053% |
| 74 | 6.728 | 6.713 | 6.759 | VV | 2984 | 52727 | 0.84% | 0.061% |
| 75 | 6.782 | 6.759 | 6.808 | VV | 2866 | 54884 | 0.88% | 0.063% |
| 76 | 6.834 | 6.808 | 6.859 | VV | 4663 | 84739 | 1.35% | 0.098% |
| 77 | 6.868 | 6.859 | 6.880 | VV | 2134 | 24797 | 0.40% | 0.029% |
| 78 | 6.900 | 6.880 | 6.934 | VV | 2345 | 57892 | 0.92% | 0.067% |
| 79 | 6.967 | 6.934 | 6.985 | VV | 2654 | 62097 | 0.99% | 0.072% |
| 80 | 7.009 | 6.985 | 7.048 | VV | 7091 | 175250 | 2.80% | 0.202% |
| 81 | 7.067 | 7.048 | 7.090 | VV | 7965 | 111199 | 1.77% | 0.128% |
| 82 | 7.110 | 7.090 | 7.120 | VV | 10500 | 118477 | 1.89% | 0.137% |
| 83 | 7.135 | 7.120 | 7.154 | VV | 18560 | 211714 | 3.38% | 0.244% |
| 84 | 7.168 | 7.154 | 7.189 | VV | 9308 | 113562 | 1.81% | 0.131% |
| 85 | 7.210 | 7.189 | 7.252 | VV | 10135 | 164269 | 2.62% | 0.189% |
| 86 | 7.268 | 7.252 | 7.282 | VV | 3541 | 50093 | 0.80% | 0.058% |
| 87 | 7.313 | 7.282 | 7.334 | VV | 4476 | 94690 | 1.51% | 0.109% |
| 88 | 7.357 | 7.334 | 7.374 | VV | 3056 | 63602 | 1.01% | 0.073% |
| 89 | 7.394 | 7.374 | 7.411 | VV | 4949 | 80849 | 1.29% | 0.093% |

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01MS

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 90 | 7.433 | 7.411 | 7.465 | VV | 63536 | 704472 | 11.24% | 0.812% |
| 91 | 7.485 | 7.465 | 7.509 | VV | 2790 | 63684 | | |
| 92 | 7.554 | 7.509 | 7.581 | VV | 4146 | 139562 | | |
| 93 | 7.605 | 7.581 | 7.632 | VV | 6485 | 128769 | | |
| 94 | 7.645 | 7.632 | 7.669 | VV | 2849 | 49220 | | |
| 95 | 7.692 | 7.669 | 7.717 | VV | 3410 | 65197 | | |
| 96 | 7.747 | 7.717 | 7.758 | VV | 3262 | 61643 | 0.98% | 0.071% |
| 97 | 7.776 | 7.758 | 7.792 | VV | 4734 | 74083 | 1.18% | 0.085% |
| 98 | 7.800 | 7.792 | 7.836 | VV | 3165 | 60881 | 0.97% | 0.070% |
| 99 | 7.887 | 7.836 | 7.901 | VV | 7126 | 149898 | 2.39% | 0.173% |
| 100 | 7.913 | 7.901 | 7.933 | VV | 6377 | 80447 | 1.28% | 0.093% |
| 101 | 7.955 | 7.933 | 7.977 | VV | 7393 | 104272 | 1.66% | 0.120% |
| 102 | 8.001 | 7.977 | 8.034 | VV | 10772 | 162805 | 2.60% | 0.188% |
| 103 | 8.057 | 8.034 | 8.080 | VV | 8028 | 111278 | 1.78% | 0.128% |
| 104 | 8.096 | 8.080 | 8.108 | VV | 1923 | 28374 | 0.45% | 0.033% |
| 105 | 8.127 | 8.108 | 8.150 | VV | 8780 | 114845 | 1.83% | 0.132% |
| 106 | 8.165 | 8.150 | 8.197 | VV | 2060 | 52567 | 0.84% | 0.061% |
| 107 | 8.217 | 8.197 | 8.237 | VV | 2774 | 49332 | 0.79% | 0.057% |
| 108 | 8.262 | 8.237 | 8.274 | VV | 2014 | 40859 | 0.65% | 0.047% |
| 109 | 8.308 | 8.274 | 8.340 | VV | 346983 | 3684506 | 58.78% | 4.245% |
| 110 | 8.355 | 8.340 | 8.378 | VV | 2742 | 44618 | 0.71% | 0.051% |
| 111 | 8.420 | 8.378 | 8.441 | VV | 7459 | 125100 | 2.00% | 0.144% |
| 112 | 8.451 | 8.441 | 8.484 | VV | 2198 | 41781 | 0.67% | 0.048% |
| 113 | 8.497 | 8.484 | 8.524 | VV | 1580 | 31246 | 0.50% | 0.036% |
| 114 | 8.543 | 8.524 | 8.569 | VV | 1296 | 27701 | 0.44% | 0.032% |
| 115 | 8.618 | 8.569 | 8.647 | VV | 1379 | 48328 | 0.77% | 0.056% |
| 116 | 8.668 | 8.647 | 8.694 | VV | 1598 | 31911 | 0.51% | 0.037% |
| 117 | 8.717 | 8.694 | 8.742 | VV | 13137 | 154712 | 2.47% | 0.178% |
| 118 | 8.754 | 8.742 | 8.780 | VV | 1774 | 29627 | 0.47% | 0.034% |
| 119 | 8.798 | 8.780 | 8.820 | VV | 1926 | 29977 | 0.48% | 0.035% |
| 120 | 8.844 | 8.820 | 8.876 | VV | 4407 | 66257 | 1.06% | 0.076% |
| 121 | 8.896 | 8.876 | 8.951 | VV | 1588 | 29674 | 0.47% | 0.034% |
| 122 | 8.962 | 8.951 | 8.981 | VV | 499 | 7348 | 0.12% | 0.008% |
| 123 | 9.027 | 8.981 | 9.051 | VV | 1262 | 30357 | 0.48% | 0.035% |
| 124 | 9.068 | 9.051 | 9.104 | VV | 688 | 17546 | 0.28% | 0.020% |
| 125 | 9.130 | 9.104 | 9.178 | VV | 6598 | 92057 | 1.47% | 0.106% |
| 126 | 9.216 | 9.197 | 9.238 | VV | 472 | 8509 | 0.14% | 0.010% |
| 127 | 9.269 | 9.238 | 9.301 | VV | 337 | 8118 | 0.13% | 0.009% |
| 128 | 9.312 | 9.301 | 9.328 | VV | 233 | 3112 | 0.05% | 0.004% |
| 129 | 9.371 | 9.328 | 9.401 | VV | 378 | 9663 | 0.15% | 0.011% |
| 130 | 9.430 | 9.401 | 9.478 | VV | 484 | 9944 | 0.16% | 0.011% |
| 131 | 9.504 | 9.478 | 9.535 | PV | 2749 | 38248 | 0.61% | 0.044% |
| 132 | 9.548 | 9.535 | 9.573 | VV | 590 | 8213 | 0.13% | 0.009% |
| 133 | 9.593 | 9.573 | 9.614 | VV | 315 | 4961 | 0.08% | 0.006% |
| 134 | 9.639 | 9.614 | 9.667 | VV | 515 | 10251 | 0.16% | 0.012% |
| 135 | 9.690 | 9.667 | 9.730 | VV | 1819 | 23059 | 0.37% | 0.027% |
| 136 | 9.750 | 9.730 | 9.762 | VV | 167 | 2627 | 0.04% | 0.003% |
| 137 | 9.773 | 9.762 | 9.805 | VV | 170 | 2518 | 0.04% | 0.003% |
| 138 | 9.829 | 9.805 | 9.873 | VV | 453 | 9091 | 0.15% | 0.010% |
| 139 | 9.912 | 9.873 | 9.968 | VV | 316144 | 3472582 | 55.40% | 4.001% |
| 140 | 9.985 | 9.968 | 10.038 | VV | 183 | 5706 | 0.09% | 0.007% |
| 141 | 10.085 | 10.038 | 10.114 | VV | 208 | 4262 | 0.07% | 0.005% |

**Instrument :**
FID_C
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**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

rteres

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.132 | 10.114 | 10.176 | VV | 148 | 3455 | 0.06% | 0.004% |
| 143 | 10.189 | 10.176 | 10.211 | VV | 127 | 1841 | | |
| 144 | 10.301 | 10.211 | 10.328 | VV | 420 | 14122 | | |
| 145 | 10.346 | 10.328 | 10.364 | VV | 260 | 4306 | | |
| 146 | 10.398 | 10.364 | 10.439 | VV | 316 | 8393 | | |
| 147 | 10.449 | 10.439 | 10.483 | VV | 200 | 3009 | | |
| 148 | 10.550 | 10.483 | 10.568 | PV | 267 | 8689 | 0.14% | 0.010% |
| 149 | 10.578 | 10.568 | 10.614 | VV | 305 | 7067 | 0.11% | 0.008% |
| 150 | 10.652 | 10.614 | 10.684 | VV | 777 | 15456 | 0.25% | 0.018% |
| 151 | 10.718 | 10.684 | 10.734 | VV | 439 | 10218 | 0.16% | 0.012% |
| 152 | 10.747 | 10.734 | 10.767 | VV | 541 | 8587 | 0.14% | 0.010% |
| 153 | 10.783 | 10.767 | 10.808 | VV | 500 | 7328 | 0.12% | 0.008% |
| 154 | 10.827 | 10.808 | 10.861 | VV | 259 | 5802 | 0.09% | 0.007% |
| 155 | 10.870 | 10.861 | 10.880 | VV | 262 | 2111 | 0.03% | 0.002% |
| 156 | 10.909 | 10.880 | 10.947 | VV | 2102 | 28204 | 0.45% | 0.032% |
| 157 | 10.985 | 10.947 | 11.009 | VV | 1926 | 26912 | 0.43% | 0.031% |
| 158 | 11.025 | 11.009 | 11.061 | VV | 407 | 7197 | 0.11% | 0.008% |
| 159 | 11.077 | 11.061 | 11.094 | VV | 231 | 3475 | 0.06% | 0.004% |
| 160 | 11.103 | 11.094 | 11.128 | VV | 192 | 2302 | 0.04% | 0.003% |
| 161 | 11.159 | 11.128 | 11.194 | VV | 859 | 11620 | 0.19% | 0.013% |
| 162 | 11.216 | 11.194 | 11.227 | VV | 193 | 2363 | 0.04% | 0.003% |
| 163 | 11.286 | 11.227 | 11.321 | VV | 5115 | 70824 | 1.13% | 0.082% |
| 164 | 11.357 | 11.321 | 11.413 | VV | 298500 | 3483455 | 55.58% | 4.014% |
| 165 | 11.451 | 11.413 | 11.478 | VV | 1597 | 23946 | 0.38% | 0.028% |
| 166 | 11.488 | 11.478 | 11.495 | VV | 164 | 1568 | 0.03% | 0.002% |
| 167 | 11.506 | 11.495 | 11.521 | VV | 218 | 2517 | 0.04% | 0.003% |
| 168 | 11.555 | 11.521 | 11.564 | VV | 183 | 2957 | 0.05% | 0.003% |
| 169 | 11.583 | 11.564 | 11.609 | VV | 227 | 3805 | 0.06% | 0.004% |
| 170 | 11.676 | 11.609 | 11.726 | PV | 3009 | 42738 | 0.68% | 0.049% |
| 171 | 11.753 | 11.726 | 11.798 | VV | 405 | 11529 | 0.18% | 0.013% |
| 172 | 11.812 | 11.798 | 11.851 | VV | 597 | 11739 | 0.19% | 0.014% |
| 173 | 11.867 | 11.851 | 11.918 | VV | 419 | 10038 | 0.16% | 0.012% |
| 174 | 12.025 | 11.918 | 12.064 | VV | 866 | 33527 | 0.53% | 0.039% |
| 175 | 12.069 | 12.064 | 12.104 | VV | 357 | 5840 | 0.09% | 0.007% |
| 176 | 12.129 | 12.104 | 12.158 | VV | 347 | 9819 | 0.16% | 0.011% |
| 177 | 12.182 | 12.158 | 12.210 | VV | 345 | 8983 | 0.14% | 0.010% |
| 178 | 12.247 | 12.210 | 12.278 | VV | 473 | 13945 | 0.22% | 0.016% |
| 179 | 12.298 | 12.278 | 12.332 | VV | 594 | 13855 | 0.22% | 0.016% |
| 180 | 12.360 | 12.332 | 12.381 | VV | 615 | 13325 | 0.21% | 0.015% |
| 181 | 12.403 | 12.381 | 12.419 | VV | 565 | 9441 | 0.15% | 0.011% |
| 182 | 12.489 | 12.419 | 12.511 | VV | 1150 | 36807 | 0.59% | 0.042% |
| 183 | 12.531 | 12.511 | 12.565 | VV | 866 | 17799 | 0.28% | 0.021% |
| 184 | 12.576 | 12.565 | 12.584 | VV | 289 | 2881 | 0.05% | 0.003% |
| 185 | 12.607 | 12.584 | 12.631 | VV | 1188 | 19419 | 0.31% | 0.022% |
| 186 | 12.669 | 12.631 | 12.708 | VV | 301612 | 3512218 | 56.03% | 4.047% |
| 187 | 12.731 | 12.708 | 12.765 | VV | 1810 | 33515 | 0.53% | 0.039% |
| 188 | 12.788 | 12.765 | 12.814 | VV | 1006 | 19399 | 0.31% | 0.022% |
| 189 | 12.828 | 12.814 | 12.854 | VV | 424 | 9062 | 0.14% | 0.010% |
| 190 | 12.868 | 12.854 | 12.879 | VV | 387 | 5140 | 0.08% | 0.006% |
| 191 | 12.924 | 12.879 | 12.988 | VV | 545 | 27827 | 0.44% | 0.032% |
| 192 | 13.030 | 12.988 | 13.054 | VV | 2575 | 42158 | 0.67% | 0.049% |
| 193 | 13.118 | 13.054 | 13.204 | VV | 520671 | 6267969 | 100.00% | 7.222% |
| 194 | 13.223 | 13.204 | 13.244 | VV | 928 | 17233 | 0.27% | 0.020% |

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**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

rteres

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.283 | 13.244 | 13.317 | VV | 279805 | 3365531 | 53.69% | 3.878% |
| 196 | 13.332 | 13.317 | 13.355 | VV | 1208 | 22237 | | |
| 197 | 13.378 | 13.355 | 13.389 | VV | 800 | 14914 | | |
| 198 | 13.405 | 13.389 | 13.430 | VV | 766 | 17025 | | |
| 199 | 13.456 | 13.430 | 13.488 | VV | 984 | 26962 | | |
| 200 | 13.506 | 13.488 | 13.526 | VV | 949 | 19209 | | |
| 201 | 13.560 | 13.526 | 13.581 | VV | 1096 | 31084 | 0.50% | 0.036% |
| 202 | 13.587 | 13.581 | 13.618 | VV | 972 | 20481 | 0.33% | 0.024% |
| 203 | 13.626 | 13.618 | 13.640 | VV | 1057 | 13150 | 0.21% | 0.015% |
| 204 | 13.662 | 13.640 | 13.679 | VV | 1300 | 25747 | 0.41% | 0.030% |
| 205 | 13.712 | 13.679 | 13.762 | VV | 1670 | 60708 | 0.97% | 0.070% |
| 206 | 13.785 | 13.762 | 13.793 | VV | 1174 | 20786 | 0.33% | 0.024% |
| 207 | 13.818 | 13.793 | 13.833 | VV | 1872 | 36663 | 0.58% | 0.042% |
| 208 | 13.869 | 13.833 | 13.911 | VV | 269031 | 3367354 | 53.72% | 3.880% |
| 209 | 13.929 | 13.911 | 13.951 | VV | 1866 | 37332 | 0.60% | 0.043% |
| 210 | 13.964 | 13.951 | 13.979 | VV | 1492 | 22753 | 0.36% | 0.026% |
| 211 | 14.093 | 13.979 | 14.126 | VV | 2197 | 142542 | 2.27% | 0.164% |
| 212 | 14.181 | 14.126 | 14.194 | VV | 1876 | 71800 | 1.15% | 0.083% |
| 213 | 14.203 | 14.194 | 14.217 | VV | 1828 | 24141 | 0.39% | 0.028% |
| 214 | 14.232 | 14.217 | 14.248 | VV | 1902 | 32839 | 0.52% | 0.038% |
| 215 | 14.304 | 14.248 | 14.364 | VV | 3374 | 164134 | 2.62% | 0.189% |
| 216 | 14.386 | 14.364 | 14.409 | VV | 3013 | 68034 | 1.09% | 0.078% |
| 217 | 14.432 | 14.409 | 14.467 | VV | 3401 | 92747 | 1.48% | 0.107% |
| 218 | 14.504 | 14.467 | 14.542 | VV | 2699 | 114152 | 1.82% | 0.132% |
| 219 | 14.555 | 14.542 | 14.573 | VV | 2749 | 48139 | 0.77% | 0.055% |
| 220 | 14.585 | 14.573 | 14.603 | VV | 2595 | 45499 | 0.73% | 0.052% |
| 221 | 14.635 | 14.603 | 14.674 | VV | 2966 | 116123 | 1.85% | 0.134% |
| 222 | 14.694 | 14.674 | 14.771 | VV | 3633 | 175218 | 2.80% | 0.202% |
| 223 | 14.828 | 14.771 | 14.848 | VV | 3444 | 140178 | 2.24% | 0.162% |
| 224 | 14.913 | 14.848 | 14.924 | VV | 4032 | 160215 | 2.56% | 0.185% |
| 225 | 14.975 | 14.924 | 15.014 | VV | 267341 | 3474322 | 55.43% | 4.003% |
| 226 | 15.037 | 15.014 | 15.061 | VV | 3801 | 103479 | 1.65% | 0.119% |
| 227 | 15.075 | 15.061 | 15.091 | VV | 3588 | 61629 | 0.98% | 0.071% |
| 228 | 15.113 | 15.091 | 15.127 | VV | 3595 | 74535 | 1.19% | 0.086% |
| 229 | 15.170 | 15.127 | 15.195 | VV | 3951 | 149965 | 2.39% | 0.173% |
| 230 | 15.213 | 15.195 | 15.235 | VV | 3900 | 89356 | 1.43% | 0.103% |
| 231 | 15.253 | 15.235 | 15.265 | VV | 3799 | 67197 | 1.07% | 0.077% |
| 232 | 15.309 | 15.265 | 15.339 | VV | 4175 | 175631 | 2.80% | 0.202% |
| 233 | 15.354 | 15.339 | 15.386 | VV | 4243 | 114108 | 1.82% | 0.131% |
| 234 | 15.402 | 15.386 | 15.414 | VV | 4261 | 71097 | 1.13% | 0.082% |
| 235 | 15.425 | 15.414 | 15.455 | VV | 4288 | 99243 | 1.58% | 0.114% |
| 236 | 15.494 | 15.455 | 15.524 | VV | 6634 | 201510 | 3.21% | 0.232% |
| 237 | 15.541 | 15.524 | 15.621 | VV | 4762 | 237500 | 3.79% | 0.274% |
| 238 | 15.635 | 15.621 | 15.647 | VV | 4225 | 61155 | 0.98% | 0.070% |
| 239 | 15.676 | 15.647 | 15.684 | VV | 4367 | 94163 | 1.50% | 0.109% |
| 240 | 15.692 | 15.684 | 15.700 | VV | 4222 | 38651 | 0.62% | 0.045% |
| 241 | 15.720 | 15.700 | 15.739 | VV | 4425 | 101428 | 1.62% | 0.117% |
| 242 | 15.755 | 15.739 | 15.784 | VV | 4413 | 115326 | 1.84% | 0.133% |
| 243 | 15.814 | 15.784 | 15.838 | VV | 4755 | 142352 | 2.27% | 0.164% |
| 244 | 15.870 | 15.838 | 15.885 | VV | 4733 | 127769 | 2.04% | 0.147% |
| 245 | 15.898 | 15.885 | 15.909 | VV | 4565 | 63470 | 1.01% | 0.073% |
| 246 | 15.925 | 15.909 | 15.950 | VV | 4429 | 109077 | 1.74% | 0.126% |

**Instrument :**
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**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

rteres

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|---|---|---|---|---|---|---|---|---|
| 247 | 15.998 | 15.950 | 16.113 | VV | 255272 | 3655814 | 58.33% | 4.212% |
| 248 | 16.124 | 16.113 | 16.139 | VV | 4216 | 63409 | | |
| 249 | 16.167 | 16.139 | 16.198 | VV | 4753 | 159922 | | |
| 250 | 16.211 | 16.198 | 16.238 | VV | 4837 | 108508 | | |
| 251 | 16.249 | 16.238 | 16.261 | VV | 4435 | 60898 | | |
| 252 | 16.305 | 16.261 | 16.323 | VV | 4997 | 171958 | | |
| 253 | 16.336 | 16.323 | 16.345 | VV | 4836 | 62096 | 0.99% | 0.072% |
| 254 | 16.357 | 16.345 | 16.420 | VV | 5114 | 208283 | 3.32% | 0.240% |
| 255 | 16.478 | 16.420 | 16.558 | VV | 7372 | 414237 | 6.61% | 0.477% |
| 256 | 16.585 | 16.558 | 16.594 | VV | 4567 | 96364 | 1.54% | 0.111% |
| 257 | 16.642 | 16.594 | 16.670 | VV | 5275 | 219225 | 3.50% | 0.253% |
| 258 | 16.687 | 16.670 | 16.741 | VV | 4978 | 203874 | 3.25% | 0.235% |
| 259 | 16.756 | 16.741 | 16.772 | VV | 4869 | 86318 | 1.38% | 0.099% |
| 260 | 16.824 | 16.772 | 16.885 | VV | 5317 | 333129 | 5.31% | 0.384% |
| 261 | 16.950 | 16.885 | 17.025 | VV | 245544 | 3598250 | 57.41% | 4.146% |
| 262 | 17.033 | 17.025 | 17.047 | VV | 4710 | 58331 | 0.93% | 0.067% |
| 263 | 17.066 | 17.047 | 17.101 | VV | 4922 | 154228 | 2.46% | 0.178% |
| 264 | 17.108 | 17.101 | 17.134 | VV | 4758 | 92697 | 1.48% | 0.107% |
| 265 | 17.162 | 17.134 | 17.170 | VV | 4926 | 102643 | 1.64% | 0.118% |
| 266 | 17.200 | 17.170 | 17.247 | VV | 5549 | 227553 | 3.63% | 0.262% |
| 267 | 17.272 | 17.247 | 17.311 | VV | 5864 | 201276 | 3.21% | 0.232% |
| 268 | 17.328 | 17.311 | 17.348 | VV | 4721 | 102774 | 1.64% | 0.118% |
| 269 | 17.400 | 17.348 | 17.424 | VV | 6341 | 243081 | 3.88% | 0.280% |
| 270 | 17.438 | 17.424 | 17.474 | VV | 4611 | 130947 | 2.09% | 0.151% |
| 271 | 17.482 | 17.474 | 17.487 | VV | 4263 | 32979 | 0.53% | 0.038% |
| 272 | 17.523 | 17.487 | 17.595 | VV | 5306 | 298494 | 4.76% | 0.344% |
| 273 | 17.610 | 17.595 | 17.646 | VV | 4387 | 130027 | 2.07% | 0.150% |
| 274 | 17.728 | 17.646 | 17.774 | VV | 6852 | 357677 | 5.71% | 0.412% |
| 275 | 17.839 | 17.774 | 17.920 | VV | 234136 | 3612101 | 57.63% | 4.162% |
| 276 | 17.931 | 17.920 | 17.947 | VV | 3954 | 61607 | 0.98% | 0.071% |
| 277 | 17.991 | 17.947 | 18.055 | VV | 5242 | 280435 | 4.47% | 0.323% |
| 278 | 18.063 | 18.055 | 18.077 | VV | 3611 | 47272 | 0.75% | 0.054% |
| 279 | 18.096 | 18.077 | 18.105 | VV | 3792 | 59097 | 0.94% | 0.068% |
| 280 | 18.120 | 18.105 | 18.138 | VV | 3810 | 72283 | 1.15% | 0.083% |
| 281 | 18.154 | 18.138 | 18.175 | VV | 3623 | 78922 | 1.26% | 0.091% |
| 282 | 18.197 | 18.175 | 18.211 | VV | 3908 | 79154 | 1.26% | 0.091% |
| 283 | 18.225 | 18.211 | 18.237 | VV | 3895 | 58647 | 0.94% | 0.068% |
| 284 | 18.261 | 18.237 | 18.301 | VV | 5163 | 148341 | 2.37% | 0.171% |
| 285 | 18.311 | 18.301 | 18.341 | VV | 3435 | 80532 | 1.28% | 0.093% |
| 286 | 18.361 | 18.341 | 18.461 | VV | 4070 | 241528 | 3.85% | 0.278% |
| 287 | 18.484 | 18.461 | 18.501 | VV | 3217 | 73173 | 1.17% | 0.084% |
| 288 | 18.512 | 18.501 | 18.562 | VV | 3191 | 109941 | 1.75% | 0.127% |
| 289 | 18.573 | 18.562 | 18.628 | VV | 2955 | 108270 | 1.73% | 0.125% |
| 290 | 18.673 | 18.628 | 18.732 | VV | 234651 | 3423787 | 54.62% | 3.945% |
| 291 | 18.740 | 18.732 | 18.764 | VV | 2641 | 48177 | 0.77% | 0.056% |
| 292 | 18.792 | 18.764 | 18.811 | VV | 2832 | 72943 | 1.16% | 0.084% |
| 293 | 18.834 | 18.811 | 18.853 | VV | 2892 | 68377 | 1.09% | 0.079% |
| 294 | 18.867 | 18.853 | 18.895 | VV | 2935 | 66280 | 1.06% | 0.076% |
| 295 | 18.915 | 18.895 | 18.948 | VV | 2547 | 76999 | 1.23% | 0.089% |
| 296 | 18.961 | 18.948 | 19.015 | VV | 2487 | 89812 | 1.43% | 0.103% |
| 297 | 19.070 | 19.015 | 19.100 | VV | 3640 | 131805 | 2.10% | 0.152% |
| 298 | 19.117 | 19.100 | 19.152 | VV | 2358 | 68393 | 1.09% | 0.079% |
| 299 | 19.178 | 19.152 | 19.228 | VV | 2302 | 96881 | 1.55% | 0.112% |

**Instrument :**
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rteres

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|---|---|---|---|---|---|---|---|---|
| 300 | 19.245 | 19.228 | 19.286 | VV | 2249 | 74206 | 1.18% | 0.086% |
| 301 | 19.302 | 19.286 | 19.323 | VV | 2236 | 45920 | | |
| 302 | 19.334 | 19.323 | 19.361 | VV | 2128 | 45343 | | |
| 303 | 19.374 | 19.361 | 19.412 | VV | 2120 | 59766 | | |
| 304 | 19.459 | 19.412 | 19.557 | VV | 240667 | 3474999 | 55 | |
| 305 | 19.585 | 19.557 | 19.607 | VV | 2209 | 61631 | | |
| 306 | 19.619 | 19.607 | 19.635 | VV | 2149 | 34717 | 0.55% | 0.040% |
| 307 | 19.646 | 19.635 | 19.655 | VV | 2111 | 23656 | 0.38% | 0.027% |
| 308 | 19.662 | 19.655 | 19.668 | VV | 2088 | 15933 | 0.25% | 0.018% |
| 309 | 19.698 | 19.668 | 19.721 | VV | 2247 | 68616 | 1.09% | 0.079% |
| 310 | 19.739 | 19.721 | 19.798 | VV | 2262 | 97422 | 1.55% | 0.112% |
| 311 | 19.834 | 19.798 | 19.858 | VV | 3131 | 91800 | 1.46% | 0.106% |
| 312 | 19.874 | 19.858 | 19.896 | VV | 2258 | 48827 | 0.78% | 0.056% |
| 313 | 19.905 | 19.896 | 19.921 | VV | 2221 | 33645 | 0.54% | 0.039% |
| 314 | 19.938 | 19.921 | 19.949 | VV | 2327 | 37203 | 0.59% | 0.043% |
| 315 | 19.962 | 19.949 | 19.973 | VV | 2365 | 33473 | 0.53% | 0.039% |
| 316 | 19.989 | 19.973 | 20.002 | VV | 2483 | 40184 | 0.64% | 0.046% |
| 317 | 20.015 | 20.002 | 20.032 | VV | 2433 | 41467 | 0.66% | 0.048% |
| 318 | 20.063 | 20.032 | 20.073 | VV | 2468 | 59406 | 0.95% | 0.068% |
| 319 | 20.106 | 20.073 | 20.134 | VV | 2864 | 95734 | 1.53% | 0.110% |
| 320 | 20.201 | 20.134 | 20.260 | VV | 231359 | 3418291 | 54.54% | 3.939% |
| 321 | 20.273 | 20.260 | 20.315 | VV | 3047 | 94966 | 1.52% | 0.109% |
| 322 | 20.334 | 20.315 | 20.368 | VV | 2888 | 89139 | 1.42% | 0.103% |
| 323 | 20.375 | 20.368 | 20.401 | VV | 2892 | 56197 | 0.90% | 0.065% |
| 324 | 20.406 | 20.401 | 20.431 | VV | 2817 | 49516 | 0.79% | 0.057% |
| 325 | 20.458 | 20.431 | 20.484 | VV | 2803 | 87491 | 1.40% | 0.101% |
| 326 | 20.493 | 20.484 | 20.523 | VV | 2737 | 61131 | 0.98% | 0.070% |
| 327 | 20.562 | 20.523 | 20.612 | VV | 3453 | 146497 | 2.34% | 0.169% |
| 328 | 20.629 | 20.612 | 20.654 | VV | 2547 | 61451 | 0.98% | 0.071% |
| 329 | 20.684 | 20.654 | 20.696 | VV | 2510 | 60915 | 0.97% | 0.070% |
| 330 | 20.714 | 20.696 | 20.728 | VV | 2522 | 47432 | 0.76% | 0.055% |
| 331 | 20.738 | 20.728 | 20.774 | VV | 2470 | 66841 | 1.07% | 0.077% |
| 332 | 20.784 | 20.774 | 20.814 | VV | 2405 | 55631 | 0.89% | 0.064% |
| 333 | 20.824 | 20.814 | 20.833 | VV | 2271 | 24139 | 0.39% | 0.028% |
| 334 | 20.840 | 20.833 | 20.861 | VV | 2272 | 37629 | 0.60% | 0.043% |
| 335 | 20.867 | 20.861 | 20.891 | VV | 2200 | 37027 | 0.59% | 0.043% |
| 336 | 20.969 | 20.891 | 21.058 | VV | 175198 | 3277044 | 52.28% | 3.776% |
| 337 | 21.065 | 21.058 | 21.096 | VV | 2110 | 45765 | 0.73% | 0.053% |
| 338 | 21.105 | 21.096 | 21.184 | VV | 1864 | 96043 | 1.53% | 0.111% |
| 339 | 21.194 | 21.184 | 21.248 | VV | 1749 | 60410 | 0.96% | 0.070% |
| 340 | 21.261 | 21.248 | 21.344 | VV | 1521 | 81641 | 1.30% | 0.094% |
| 341 | 21.417 | 21.344 | 21.494 | VV | 1938 | 127927 | 2.04% | 0.147% |
| 342 | 21.503 | 21.494 | 21.549 | VV | 1287 | 40445 | 0.65% | 0.047% |
| 343 | 21.560 | 21.549 | 21.590 | VV | 1319 | 29122 | 0.46% | 0.034% |
| 344 | 21.604 | 21.590 | 21.651 | VV | 1124 | 38304 | 0.61% | 0.044% |
| 345 | 21.657 | 21.651 | 21.761 | VV | 1004 | 57619 | 0.92% | 0.066% |
| 346 | 21.803 | 21.761 | 21.854 | VV | 916 | 45346 | 0.72% | 0.052% |
| 347 | 21.938 | 21.854 | 22.064 | VV | 101314 | 2740903 | 43.73% | 3.158% |
| 348 | 22.071 | 22.064 | 22.116 | VV | 854 | 20232 | 0.32% | 0.023% |
| 349 | 22.128 | 22.116 | 22.161 | VV | 616 | 14369 | 0.23% | 0.017% |
| 350 | 22.189 | 22.161 | 22.217 | VV | 592 | 16078 | 0.26% | 0.019% |
| 351 | 22.233 | 22.217 | 22.281 | VV | 493 | 15762 | 0.25% | 0.018% |

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01MS

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | rteres | | | | |
| 352 | 22.289 | 22.281 | 22.361 | VV | 404 | 11986 | 0.19% | 0.014% | |
| 353 | 22.371 | 22.361 | 22.417 | VV | 171 | 3173 | | | |
| 354 | 22.426 | 22.417 | 22.439 | PV | 70 | 447 | | | |
| | | | Sum of corrected areas: | | | 867 | | | |

Aliphatic EPH 052425.M Thu Jun 12 07:04:23 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061325AR\
Data File : FD049484.D
Signal(s) : FID2B.ch
Acq On : 13 Jun 2025 09:48
Operator : YP/AJ
Sample : Q2177-02MS
Misc :
ALS Vial : 63 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
B-187-SB01MS

Integration File: autoint1.e
Quant Time: Jun 13 21:19:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.733 | 6278432 | 37.769 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 75.54% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.598 | 4233429 | 37.006 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 74.01% |
| 11) S | ortho-Terphenyl (SURR) | 11.644 | 6518438 | 32.475 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 64.95% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.522 | 2028339 | 12.748 ug/ml |
| 2) T | Naphthalene (C11.7) | 6.066 | 2506308 | 14.274 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 7.120 | 2576852 | 14.424 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.399 | 3018456 | 15.582 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.696 | 3122059 | 16.413 ug/ml |
| 8) T | Flouorene (C16.55) | 9.476 | 3285254 | 16.803 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.875 | 3591192 | 18.887 ug/ml |
| 10) T | Anthracene (C19.43) | 10.949 | 3220864 | 18.424 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.689 | 3643400 | 20.199 ug/ml |
| 13) T | Pyrene (C20.8) | 12.988 | 3552754 | 19.905 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.859 | 3088305 | 20.319 ug/ml |
| 15) T | Chrysene (C27.41) | 14.901 | 3380823 | 22.263 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.410 | 3013552 | 20.819 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.443 | 2894814 | 20.173 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.789 | 2856949 | 21.020 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 18.155 | 2925066 | 22.900 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 18.194 | 2748005 | 20.412 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 18.409 | 2710958 | 20.113 ug/ml |

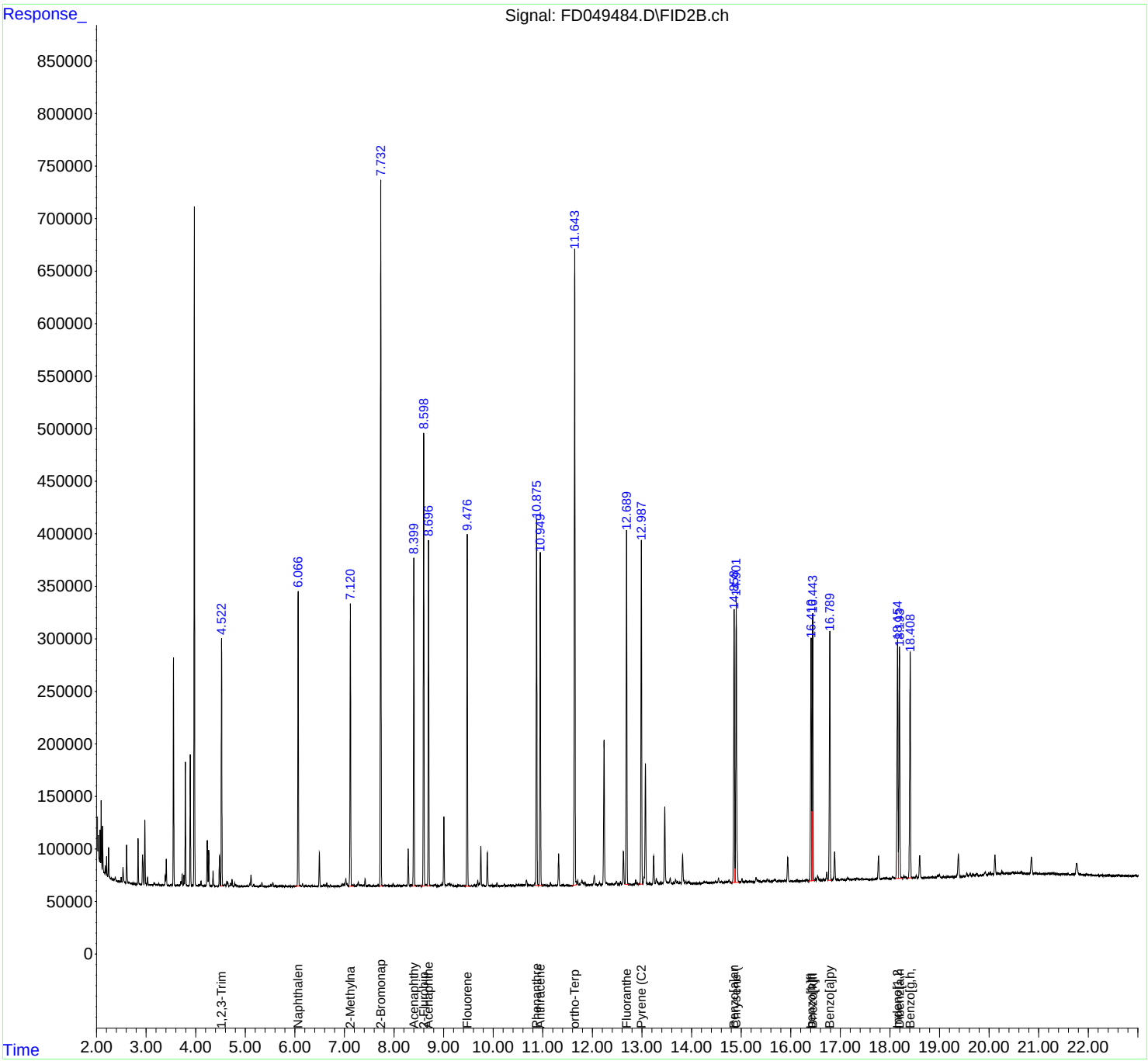
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061325AR\
Data File : FD049484.D
Signal(s) : FID2B.ch
Acq On : 13 Jun 2025 09:48
Operator : YP/AJ
Sample : Q2177-02MS
Misc :
ALS Vial : 63 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
B-187-SB01MS

Integration File: autoint1.e
Quant Time: Jun 13 21:19:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061325AR\
Data File : FD049484.D
Signal(s) : FID2B.ch
Acq On : 13 Jun 2025 09:48
Sample : Q2177-02MS
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.264 | 4.252 | 4.299 | PH | 34331 | 290789 | 4.46% | 0.332% |
| 2 | 4.305 | 4.299 | 4.316 | PV | 152 | 1228 | 0.02% | 0.001% |
| 3 | 4.327 | 4.316 | 4.333 | VV | 308 | 1989 | 0.03% | 0.002% |
| 4 | 4.351 | 4.333 | 4.370 | VV | 14102 | 113337 | 1.74% | 0.129% |
| 5 | 4.373 | 4.370 | 4.400 | VV | 916 | 6722 | 0.10% | 0.008% |
| 6 | 4.413 | 4.400 | 4.418 | PV | 296 | 1644 | 0.03% | 0.002% |
| 7 | 4.435 | 4.418 | 4.452 | VV | 386 | 4444 | 0.07% | 0.005% |
| 8 | 4.480 | 4.452 | 4.500 | PV | 29279 | 261127 | 4.00% | 0.298% |
| 9 | 4.522 | 4.500 | 4.547 | VV | 236107 | 2040777 | 31.28% | 2.329% |
| 10 | 4.559 | 4.547 | 4.571 | VV | 1043 | 11477 | 0.18% | 0.013% |
| 11 | 4.588 | 4.571 | 4.609 | VV | 2032 | 27337 | 0.42% | 0.031% |
| 12 | 4.629 | 4.609 | 4.640 | VV | 4889 | 52976 | 0.81% | 0.060% |
| 13 | 4.648 | 4.640 | 4.667 | VV | 4080 | 39004 | 0.60% | 0.045% |
| 14 | 4.704 | 4.667 | 4.718 | VV | 3319 | 37045 | 0.57% | 0.042% |
| 15 | 4.734 | 4.718 | 4.755 | VV | 6562 | 63912 | 0.98% | 0.073% |
| 16 | 4.761 | 4.755 | 4.769 | VV | 449 | 3080 | 0.05% | 0.004% |
| 17 | 4.787 | 4.769 | 4.802 | VV | 3537 | 32959 | 0.51% | 0.038% |
| 18 | 4.814 | 4.802 | 4.837 | VV | 1626 | 18067 | 0.28% | 0.021% |
| 19 | 4.850 | 4.837 | 4.874 | VV | 724 | 9080 | 0.14% | 0.010% |
| 20 | 4.902 | 4.882 | 4.908 | PV | 260 | 2298 | 0.04% | 0.003% |
| 21 | 4.928 | 4.908 | 4.949 | VV | 541 | 6496 | 0.10% | 0.007% |
| 22 | 4.953 | 4.949 | 4.966 | VV | 329 | 2115 | 0.03% | 0.002% |
| 23 | 4.978 | 4.966 | 5.006 | VV | 292 | 5119 | 0.08% | 0.006% |
| 24 | 5.043 | 5.006 | 5.072 | VV | 767 | 15911 | 0.24% | 0.018% |
| 25 | 5.089 | 5.072 | 5.099 | VV | 2483 | 24024 | 0.37% | 0.027% |
| 26 | 5.115 | 5.099 | 5.145 | VV | 11000 | 117620 | 1.80% | 0.134% |
| 27 | 5.173 | 5.145 | 5.209 | VV | 2340 | 31768 | 0.49% | 0.036% |
| 28 | 5.219 | 5.209 | 5.239 | VV | 605 | 6583 | 0.10% | 0.008% |
| 29 | 5.278 | 5.263 | 5.290 | VV | 461 | 4690 | 0.07% | 0.005% |
| 30 | 5.305 | 5.290 | 5.316 | VV | 766 | 7918 | 0.12% | 0.009% |
| 31 | 5.335 | 5.316 | 5.387 | VV | 3956 | 47398 | 0.73% | 0.054% |
| 32 | 5.396 | 5.387 | 5.404 | VV | 369 | 3487 | 0.05% | 0.004% |
| 33 | 5.407 | 5.404 | 5.426 | VV | 326 | 2908 | 0.04% | 0.003% |
| 34 | 5.432 | 5.426 | 5.457 | PV | 231 | 3034 | 0.05% | 0.003% |
| 35 | 5.481 | 5.457 | 5.500 | VV | 641 | 11060 | 0.17% | 0.013% |
| 36 | 5.517 | 5.500 | 5.534 | VV | 2453 | 24541 | 0.38% | 0.028% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.558 | 5.534 | 5.576 | VV | 3821 | 46602 | 0.71% | 0.053% |
| 38 | 5.583 | 5.576 | 5.602 | VV | 512 | 6427 | 0.10% | 0.007% |
| 39 | 5.614 | 5.602 | 5.631 | VV | 882 | 10700 | 0.16% | 0.012% |
| 40 | 5.639 | 5.631 | 5.645 | VV | 343 | 1813 | 0.03% | 0.002% |
| 41 | 5.650 | 5.645 | 5.655 | VV | 213 | 1169 | 0.02% | 0.001% |
| 42 | 5.682 | 5.655 | 5.689 | VV | 592 | 7739 | 0.12% | 0.009% |
| 43 | 5.702 | 5.689 | 5.725 | VV | 703 | 9599 | 0.15% | 0.011% |
| 44 | 5.729 | 5.725 | 5.741 | VV | 316 | 2302 | 0.04% | 0.003% |
| 45 | 5.760 | 5.741 | 5.782 | VV | 591 | 7858 | 0.12% | 0.009% |
| 46 | 5.814 | 5.782 | 5.835 | VV | 775 | 12147 | 0.19% | 0.014% |
| 47 | 5.842 | 5.835 | 5.849 | VV | 225 | 1657 | 0.03% | 0.002% |
| 48 | 5.858 | 5.849 | 5.865 | VV | 435 | 3363 | 0.05% | 0.004% |
| 49 | 5.868 | 5.865 | 5.876 | VV | 403 | 1970 | 0.03% | 0.002% |
| 50 | 5.886 | 5.876 | 5.894 | VV | 357 | 2824 | 0.04% | 0.003% |
| 51 | 5.906 | 5.894 | 5.912 | VV | 335 | 3562 | 0.05% | 0.004% |
| 52 | 5.915 | 5.912 | 5.920 | VV | 437 | 1405 | 0.02% | 0.002% |
| 53 | 5.939 | 5.920 | 5.959 | VV | 506 | 6961 | 0.11% | 0.008% |
| 54 | 5.969 | 5.959 | 5.992 | VV | 529 | 6361 | 0.10% | 0.007% |
| 55 | 6.009 | 5.992 | 6.020 | VV | 629 | 7382 | 0.11% | 0.008% |
| 56 | 6.024 | 6.020 | 6.032 | VV | 469 | 2984 | 0.05% | 0.003% |
| 57 | 6.066 | 6.032 | 6.097 | VV | 280913 | 2528990 | 38.76% | 2.886% |
| 58 | 6.113 | 6.097 | 6.138 | VV | 1570 | 21534 | 0.33% | 0.025% |
| 59 | 6.155 | 6.138 | 6.177 | VV | 2893 | 31456 | 0.48% | 0.036% |
| 60 | 6.182 | 6.177 | 6.198 | VV | 432 | 4056 | 0.06% | 0.005% |
| 61 | 6.218 | 6.198 | 6.254 | VV | 968 | 18324 | 0.28% | 0.021% |
| 62 | 6.287 | 6.254 | 6.323 | VV | 852 | 19860 | 0.30% | 0.023% |
| 63 | 6.346 | 6.323 | 6.369 | VV | 1211 | 16269 | 0.25% | 0.019% |
| 64 | 6.407 | 6.369 | 6.420 | VV | 484 | 9054 | 0.14% | 0.010% |
| 65 | 6.427 | 6.420 | 6.448 | VV | 245 | 3143 | 0.05% | 0.004% |
| 66 | 6.459 | 6.448 | 6.466 | VV | 415 | 2778 | 0.04% | 0.003% |
| 67 | 6.495 | 6.466 | 6.523 | VV | 32547 | 321233 | 4.92% | 0.367% |
| 68 | 6.580 | 6.523 | 6.600 | VV | 1354 | 31055 | 0.48% | 0.035% |
| 69 | 6.615 | 6.600 | 6.629 | VV | 1272 | 14251 | 0.22% | 0.016% |
| 70 | 6.645 | 6.629 | 6.665 | VV | 3542 | 36609 | 0.56% | 0.042% |
| 71 | 6.677 | 6.665 | 6.702 | VV | 894 | 10526 | 0.16% | 0.012% |
| 72 | 6.717 | 6.702 | 6.742 | VV | 1794 | 20037 | 0.31% | 0.023% |
| 73 | 6.755 | 6.742 | 6.760 | VV | 384 | 3005 | 0.05% | 0.003% |
| 74 | 6.765 | 6.760 | 6.797 | VV | 406 | 5913 | 0.09% | 0.007% |
| 75 | 6.822 | 6.797 | 6.845 | VV | 798 | 11665 | 0.18% | 0.013% |
| 76 | 6.862 | 6.845 | 6.875 | VV | 567 | 6903 | 0.11% | 0.008% |
| 77 | 6.886 | 6.875 | 6.912 | VV | 607 | 7962 | 0.12% | 0.009% |
| 78 | 6.937 | 6.912 | 6.950 | PV | 1387 | 16532 | 0.25% | 0.019% |
| 79 | 6.964 | 6.950 | 6.979 | VV | 2828 | 31015 | 0.48% | 0.035% |
| 80 | 6.992 | 6.979 | 7.010 | VV | 2524 | 36380 | 0.56% | 0.042% |
| 81 | 7.028 | 7.010 | 7.083 | VV | 7434 | 118097 | 1.81% | 0.135% |
| 82 | 7.120 | 7.083 | 7.146 | VV | 269264 | 2579422 | 39.54% | 2.943% |
| 83 | 7.153 | 7.146 | 7.181 | VV | 1327 | 20792 | 0.32% | 0.024% |
| 84 | 7.195 | 7.181 | 7.209 | VV | 1241 | 13452 | 0.21% | 0.015% |
| 85 | 7.224 | 7.209 | 7.235 | VV | 789 | 8369 | 0.13% | 0.010% |
| 86 | 7.257 | 7.235 | 7.265 | VV | 1702 | 17999 | 0.28% | 0.021% |
| 87 | 7.279 | 7.265 | 7.298 | VV | 4337 | 51354 | 0.79% | 0.059% |
| 88 | 7.310 | 7.298 | 7.322 | VV | 1295 | 16706 | 0.26% | 0.019% |
| 89 | 7.335 | 7.322 | 7.367 | VV | 1845 | 29237 | 0.45% | 0.033% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.386 | 7.367 | 7.399 | VV | 1618 | 20327 | 0.31% | 0.023% |
| 91 | 7.417 | 7.399 | 7.441 | VV | 7478 | 81679 | 1.25% | 0.093% |
| 92 | 7.453 | 7.441 | 7.462 | VV | 675 | 6874 | 0.11% | 0.008% |
| 93 | 7.481 | 7.462 | 7.492 | VV | 1034 | 14635 | 0.22% | 0.017% |
| 94 | 7.509 | 7.492 | 7.526 | VV | 1591 | 19843 | 0.30% | 0.023% |
| 95 | 7.532 | 7.526 | 7.547 | VV | 439 | 4283 | 0.07% | 0.005% |
| 96 | 7.591 | 7.547 | 7.615 | VV | 1056 | 22750 | 0.35% | 0.026% |
| 97 | 7.632 | 7.615 | 7.637 | VV | 575 | 6609 | 0.10% | 0.008% |
| 98 | 7.646 | 7.637 | 7.662 | VV | 668 | 7616 | 0.12% | 0.009% |
| 99 | 7.679 | 7.662 | 7.701 | VV | 1908 | 24229 | 0.37% | 0.028% |
| 100 | 7.733 | 7.701 | 7.802 | VV | 670152 | 6306916 | 96.67% | 7.197% |
| 101 | 7.823 | 7.802 | 7.832 | VV | 1133 | 15498 | 0.24% | 0.018% |
| 102 | 7.842 | 7.832 | 7.856 | VV | 1006 | 12131 | 0.19% | 0.014% |
| 103 | 7.870 | 7.856 | 7.886 | VV | 1168 | 14360 | 0.22% | 0.016% |
| 104 | 7.896 | 7.886 | 7.917 | VV | 772 | 10428 | 0.16% | 0.012% |
| 105 | 7.938 | 7.917 | 7.956 | VV | 1140 | 14614 | 0.22% | 0.017% |
| 106 | 7.982 | 7.956 | 8.009 | VV | 2266 | 29797 | 0.46% | 0.034% |
| 107 | 8.012 | 8.009 | 8.026 | VV | 594 | 4990 | 0.08% | 0.006% |
| 108 | 8.036 | 8.026 | 8.055 | VV | 880 | 9919 | 0.15% | 0.011% |
| 109 | 8.069 | 8.055 | 8.094 | VV | 699 | 12876 | 0.20% | 0.015% |
| 110 | 8.110 | 8.094 | 8.128 | VV | 1258 | 15996 | 0.25% | 0.018% |
| 111 | 8.152 | 8.128 | 8.159 | VV | 595 | 8571 | 0.13% | 0.010% |
| 112 | 8.189 | 8.159 | 8.193 | VV | 990 | 16567 | 0.25% | 0.019% |
| 113 | 8.198 | 8.193 | 8.205 | VV | 1079 | 7239 | 0.11% | 0.008% |
| 114 | 8.214 | 8.205 | 8.229 | VV | 1221 | 13404 | 0.21% | 0.015% |
| 115 | 8.232 | 8.229 | 8.237 | VV | 795 | 3733 | 0.06% | 0.004% |
| 116 | 8.241 | 8.237 | 8.258 | VV | 994 | 9850 | 0.15% | 0.011% |
| 117 | 8.286 | 8.258 | 8.319 | VV | 35985 | 374342 | 5.74% | 0.427% |
| 118 | 8.346 | 8.319 | 8.361 | VV | 1572 | 24811 | 0.38% | 0.028% |
| 119 | 8.399 | 8.361 | 8.458 | VV | 312460 | 3044983 | 46.67% | 3.475% |
| 120 | 8.481 | 8.458 | 8.507 | VV | 1196 | 18548 | 0.28% | 0.021% |
| 121 | 8.521 | 8.507 | 8.545 | VV | 946 | 11776 | 0.18% | 0.013% |
| 122 | 8.598 | 8.545 | 8.630 | VV | 431184 | 4253110 | 65.19% | 4.853% |
| 123 | 8.648 | 8.630 | 8.667 | VV | 2115 | 31284 | 0.48% | 0.036% |
| 124 | 8.696 | 8.667 | 8.725 | VV | 328908 | 3145934 | 48.22% | 3.590% |
| 125 | 8.743 | 8.725 | 8.763 | VV | 1266 | 23788 | 0.36% | 0.027% |
| 126 | 8.773 | 8.763 | 8.788 | VV | 1098 | 13878 | 0.21% | 0.016% |
| 127 | 8.794 | 8.788 | 8.804 | VV | 904 | 7139 | 0.11% | 0.008% |
| 128 | 8.822 | 8.804 | 8.867 | VV | 1529 | 34429 | 0.53% | 0.039% |
| 129 | 8.876 | 8.867 | 8.884 | VV | 610 | 4589 | 0.07% | 0.005% |
| 130 | 8.888 | 8.884 | 8.900 | VV | 692 | 4887 | 0.07% | 0.006% |
| 131 | 8.909 | 8.900 | 8.920 | VV | 476 | 4433 | 0.07% | 0.005% |
| 132 | 8.936 | 8.920 | 8.947 | VV | 1091 | 11875 | 0.18% | 0.014% |
| 133 | 8.966 | 8.947 | 8.980 | VV | 2368 | 27596 | 0.42% | 0.031% |
| 134 | 9.005 | 8.980 | 9.030 | VV | 66277 | 660630 | 10.13% | 0.754% |
| 135 | 9.041 | 9.030 | 9.073 | VV | 1647 | 32316 | 0.50% | 0.037% |
| 136 | 9.090 | 9.073 | 9.113 | VV | 2399 | 43732 | 0.67% | 0.050% |
| 137 | 9.124 | 9.113 | 9.145 | VV | 2456 | 34264 | 0.53% | 0.039% |
| 138 | 9.158 | 9.145 | 9.180 | VV | 1975 | 23729 | 0.36% | 0.027% |
| 139 | 9.196 | 9.180 | 9.212 | VV | 870 | 9077 | 0.14% | 0.010% |
| 140 | 9.216 | 9.212 | 9.229 | VV | 210 | 1224 | 0.02% | 0.001% |
| 141 | 9.248 | 9.229 | 9.271 | VV | 467 | 8699 | 0.13% | 0.010% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.291 | 9.271 | 9.309 | VV | 1103 | 14014 | 0.21% | 0.016% |
| 143 | 9.330 | 9.309 | 9.374 | VV | 1056 | 21112 | 0.32% | 0.024% |
| 144 | 9.389 | 9.374 | 9.425 | VV | 812 | 15298 | 0.23% | 0.017% |
| 145 | 9.442 | 9.425 | 9.446 | VV | 391 | 3857 | 0.06% | 0.004% |
| 146 | 9.476 | 9.446 | 9.511 | VV | 334452 | 3290534 | 50.44% | 3.755% |
| 147 | 9.517 | 9.511 | 9.525 | VV | 402 | 1971 | 0.03% | 0.002% |
| 148 | 9.561 | 9.525 | 9.582 | VV | 782 | 13673 | 0.21% | 0.016% |
| 149 | 9.622 | 9.582 | 9.640 | VV | 1304 | 26578 | 0.41% | 0.030% |
| 150 | 9.654 | 9.640 | 9.668 | VV | 939 | 12340 | 0.19% | 0.014% |
| 151 | 9.689 | 9.668 | 9.706 | VV | 5485 | 60657 | 0.93% | 0.069% |
| 152 | 9.721 | 9.706 | 9.731 | VV | 3202 | 31854 | 0.49% | 0.036% |
| 153 | 9.751 | 9.731 | 9.776 | VV | 38322 | 389180 | 5.97% | 0.444% |
| 154 | 9.798 | 9.776 | 9.843 | VV | 1379 | 25491 | 0.39% | 0.029% |
| 155 | 9.881 | 9.843 | 9.936 | VV | 31910 | 359980 | 5.52% | 0.411% |
| 156 | 9.956 | 9.936 | 9.972 | PV | 726 | 10167 | 0.16% | 0.012% |
| 157 | 9.975 | 9.972 | 10.020 | VV | 522 | 9600 | 0.15% | 0.011% |
| 158 | 10.032 | 10.020 | 10.037 | VV | 289 | 1788 | 0.03% | 0.002% |
| 159 | 10.076 | 10.037 | 10.122 | VV | 3401 | 44138 | 0.68% | 0.050% |
| 160 | 10.159 | 10.122 | 10.180 | VV | 544 | 9632 | 0.15% | 0.011% |
| 161 | 10.192 | 10.180 | 10.196 | VV | 387 | 2920 | 0.04% | 0.003% |
| 162 | 10.223 | 10.196 | 10.239 | VV | 1666 | 22785 | 0.35% | 0.026% |
| 163 | 10.245 | 10.239 | 10.255 | VV | 524 | 3763 | 0.06% | 0.004% |
| 164 | 10.276 | 10.255 | 10.289 | VV | 785 | 10136 | 0.16% | 0.012% |
| 165 | 10.315 | 10.289 | 10.333 | VV | 971 | 17936 | 0.27% | 0.020% |
| 166 | 10.353 | 10.333 | 10.377 | VV | 1443 | 23562 | 0.36% | 0.027% |
| 167 | 10.400 | 10.377 | 10.419 | VV | 1073 | 17994 | 0.28% | 0.021% |
| 168 | 10.424 | 10.419 | 10.434 | VV | 383 | 2756 | 0.04% | 0.003% |
| 169 | 10.470 | 10.434 | 10.496 | VV | 1120 | 25216 | 0.39% | 0.029% |
| 170 | 10.520 | 10.496 | 10.541 | VV | 1172 | 22597 | 0.35% | 0.026% |
| 171 | 10.549 | 10.541 | 10.560 | VV | 744 | 7554 | 0.12% | 0.009% |
| 172 | 10.566 | 10.560 | 10.584 | VV | 903 | 9192 | 0.14% | 0.010% |
| 173 | 10.608 | 10.584 | 10.628 | VV | 1327 | 25196 | 0.39% | 0.029% |
| 174 | 10.640 | 10.628 | 10.648 | VV | 1258 | 12860 | 0.20% | 0.015% |
| 175 | 10.673 | 10.648 | 10.696 | VV | 5259 | 91249 | 1.40% | 0.104% |
| 176 | 10.704 | 10.696 | 10.730 | VV | 1116 | 17854 | 0.27% | 0.020% |
| 177 | 10.750 | 10.730 | 10.789 | VV | 1225 | 26114 | 0.40% | 0.030% |
| 178 | 10.815 | 10.789 | 10.825 | VV | 1144 | 14874 | 0.23% | 0.017% |
| 179 | 10.841 | 10.825 | 10.848 | VV | 2767 | 27566 | 0.42% | 0.031% |
| 180 | 10.875 | 10.848 | 10.917 | VV | 349884 | 3613622 | 55.39% | 4.123% |
| 181 | 10.949 | 10.917 | 11.003 | VV | 318275 | 3253926 | 49.88% | 3.713% |
| 182 | 11.027 | 11.003 | 11.037 | VV | 933 | 16120 | 0.25% | 0.018% |
| 183 | 11.044 | 11.037 | 11.063 | VV | 970 | 12048 | 0.18% | 0.014% |
| 184 | 11.070 | 11.063 | 11.098 | VV | 709 | 10366 | 0.16% | 0.012% |
| 185 | 11.103 | 11.098 | 11.134 | VV | 333 | 5791 | 0.09% | 0.007% |
| 186 | 11.156 | 11.134 | 11.194 | VV | 3386 | 42493 | 0.65% | 0.048% |
| 187 | 11.201 | 11.194 | 11.210 | VV | 322 | 1883 | 0.03% | 0.002% |
| 188 | 11.218 | 11.210 | 11.226 | VV | 326 | 2045 | 0.03% | 0.002% |
| 189 | 11.251 | 11.226 | 11.269 | VV | 795 | 11685 | 0.18% | 0.013% |
| 190 | 11.319 | 11.269 | 11.348 | VV | 30738 | 349835 | 5.36% | 0.399% |
| 191 | 11.370 | 11.348 | 11.375 | PV | 555 | 5569 | 0.09% | 0.006% |
| 192 | 11.408 | 11.375 | 11.433 | VV | 1275 | 25001 | 0.38% | 0.029% |
| 193 | 11.440 | 11.433 | 11.445 | VV | 303 | 1468 | 0.02% | 0.002% |
| 194 | 11.474 | 11.445 | 11.502 | VV | 799 | 15465 | 0.24% | 0.018% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 11.523 | 11.502 | 11.547 | VV | 679 | 10634 | 0.16% | 0.012% |
| 196 | 11.560 | 11.547 | 11.584 | VV | 421 | 7098 | 0.11% | 0.008% |
| 197 | 11.644 | 11.584 | 11.668 | PV | 606519 | 6524090 | 100.00% | 7.445% |
| 198 | 11.673 | 11.668 | 11.688 | VV | 4150 | 36599 | 0.56% | 0.042% |
| 199 | 11.704 | 11.688 | 11.724 | VV | 5101 | 60429 | 0.93% | 0.069% |
| 200 | 11.736 | 11.724 | 11.751 | VV | 1542 | 18857 | 0.29% | 0.022% |
| 201 | 11.789 | 11.751 | 11.810 | VV | 5258 | 105863 | 1.62% | 0.121% |
| 202 | 11.821 | 11.810 | 11.836 | VV | 2558 | 31058 | 0.48% | 0.035% |
| 203 | 11.852 | 11.836 | 11.882 | VV | 3698 | 47689 | 0.73% | 0.054% |
| 204 | 11.914 | 11.882 | 11.938 | VV | 1175 | 20473 | 0.31% | 0.023% |
| 205 | 11.984 | 11.938 | 12.003 | VV | 1079 | 27877 | 0.43% | 0.032% |
| 206 | 12.037 | 12.003 | 12.063 | VV | 9610 | 139001 | 2.13% | 0.159% |
| 207 | 12.077 | 12.063 | 12.109 | VV | 1498 | 22554 | 0.35% | 0.026% |
| 208 | 12.142 | 12.109 | 12.165 | VV | 2886 | 42433 | 0.65% | 0.048% |
| 209 | 12.169 | 12.165 | 12.176 | VV | 518 | 2967 | 0.05% | 0.003% |
| 210 | 12.236 | 12.176 | 12.279 | VV | 138273 | 1653142 | 25.34% | 1.886% |
| 211 | 12.291 | 12.279 | 12.336 | VV | 2271 | 48205 | 0.74% | 0.055% |
| 212 | 12.347 | 12.336 | 12.355 | VV | 925 | 9790 | 0.15% | 0.011% |
| 213 | 12.361 | 12.355 | 12.369 | VV | 1022 | 7725 | 0.12% | 0.009% |
| 214 | 12.393 | 12.369 | 12.436 | VV | 1246 | 36703 | 0.56% | 0.042% |
| 215 | 12.488 | 12.436 | 12.512 | VV | 3428 | 79001 | 1.21% | 0.090% |
| 216 | 12.517 | 12.512 | 12.533 | VV | 998 | 9472 | 0.15% | 0.011% |
| 217 | 12.541 | 12.533 | 12.549 | VV | 811 | 6462 | 0.10% | 0.007% |
| 218 | 12.569 | 12.549 | 12.590 | VV | 3132 | 40133 | 0.62% | 0.046% |
| 219 | 12.626 | 12.590 | 12.654 | VV | 32065 | 394472 | 6.05% | 0.450% |
| 220 | 12.689 | 12.654 | 12.739 | VV | 336193 | 3673156 | 56.30% | 4.191% |
| 221 | 12.749 | 12.739 | 12.766 | VV | 617 | 6562 | 0.10% | 0.007% |
| 222 | 12.775 | 12.766 | 12.793 | VV | 317 | 4134 | 0.06% | 0.005% |
| 223 | 12.802 | 12.793 | 12.806 | VV | 343 | 2001 | 0.03% | 0.002% |
| 224 | 12.845 | 12.806 | 12.852 | VV | 733 | 12354 | 0.19% | 0.014% |
| 225 | 12.873 | 12.852 | 12.917 | VV | 4672 | 70683 | 1.08% | 0.081% |
| 226 | 12.923 | 12.917 | 12.955 | VV | 992 | 14294 | 0.22% | 0.016% |
| 227 | 12.988 | 12.955 | 13.014 | VV | 327520 | 3575500 | 54.80% | 4.080% |
| 228 | 13.040 | 13.014 | 13.046 | VV | 6835 | 70873 | 1.09% | 0.081% |
| 229 | 13.070 | 13.046 | 13.100 | VV | 115027 | 1343275 | 20.59% | 1.533% |
| 230 | 13.117 | 13.100 | 13.137 | VV | 728 | 10574 | 0.16% | 0.012% |
| 231 | 13.154 | 13.137 | 13.177 | VV | 1594 | 19896 | 0.30% | 0.023% |
| 232 | 13.190 | 13.177 | 13.205 | VV | 480 | 5261 | 0.08% | 0.006% |
| 233 | 13.236 | 13.205 | 13.265 | VV | 27175 | 343829 | 5.27% | 0.392% |
| 234 | 13.289 | 13.265 | 13.341 | VV | 5646 | 105022 | 1.61% | 0.120% |
| 235 | 13.354 | 13.341 | 13.364 | VV | 950 | 10375 | 0.16% | 0.012% |
| 236 | 13.380 | 13.364 | 13.395 | VV | 1556 | 20814 | 0.32% | 0.024% |
| 237 | 13.405 | 13.395 | 13.421 | VV | 1018 | 13108 | 0.20% | 0.015% |
| 238 | 13.460 | 13.421 | 13.535 | VV | 73773 | 943510 | 14.46% | 1.077% |
| 239 | 13.569 | 13.535 | 13.605 | VV | 5891 | 105052 | 1.61% | 0.120% |
| 240 | 13.616 | 13.605 | 13.623 | VV | 853 | 8277 | 0.13% | 0.009% |
| 241 | 13.639 | 13.623 | 13.655 | VV | 1446 | 19268 | 0.30% | 0.022% |
| 242 | 13.677 | 13.655 | 13.700 | VV | 3960 | 60675 | 0.93% | 0.069% |
| 243 | 13.717 | 13.700 | 13.740 | VV | 2698 | 36668 | 0.56% | 0.042% |
| 244 | 13.766 | 13.740 | 13.790 | VV | 1820 | 34538 | 0.53% | 0.039% |
| 245 | 13.820 | 13.790 | 13.866 | VV | 27516 | 378753 | 5.81% | 0.432% |
| 246 | 13.886 | 13.866 | 13.905 | VV | 2281 | 30672 | 0.47% | 0.035% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 13.933 | 13.905 | 13.977 | VV | 2017 | 49406 | 0.76% | 0.056% |
| 248 | 13.991 | 13.977 | 14.014 | VV | 473 | 6494 | 0.10% | 0.007% |
| 249 | 14.047 | 14.014 | 14.074 | PV | 702 | 12704 | 0.19% | 0.014% |
| 250 | 14.093 | 14.074 | 14.123 | VV | 454 | 7078 | 0.11% | 0.008% |
| 251 | 14.154 | 14.137 | 14.183 | VV | 498 | 9345 | 0.14% | 0.011% |
| 252 | 14.189 | 14.183 | 14.194 | VV | 274 | 1515 | 0.02% | 0.002% |
| 253 | 14.214 | 14.194 | 14.228 | VV | 592 | 8798 | 0.13% | 0.010% |
| 254 | 14.257 | 14.228 | 14.287 | VV | 1828 | 38908 | 0.60% | 0.044% |
| 255 | 14.299 | 14.287 | 14.334 | VV | 1391 | 24078 | 0.37% | 0.027% |
| 256 | 14.387 | 14.334 | 14.393 | VV | 954 | 21206 | 0.33% | 0.024% |
| 257 | 14.406 | 14.393 | 14.428 | VV | 1075 | 15986 | 0.25% | 0.018% |
| 258 | 14.444 | 14.428 | 14.457 | VV | 855 | 11483 | 0.18% | 0.013% |
| 259 | 14.479 | 14.457 | 14.504 | VV | 1911 | 34434 | 0.53% | 0.039% |
| 260 | 14.510 | 14.504 | 14.523 | VV | 1081 | 10606 | 0.16% | 0.012% |
| 261 | 14.544 | 14.523 | 14.567 | VV | 4917 | 65995 | 1.01% | 0.075% |
| 262 | 14.602 | 14.567 | 14.626 | VV | 1563 | 35087 | 0.54% | 0.040% |
| 263 | 14.669 | 14.626 | 14.680 | VV | 945 | 20704 | 0.32% | 0.024% |
| 264 | 14.699 | 14.680 | 14.715 | VV | 1015 | 17783 | 0.27% | 0.020% |
| 265 | 14.726 | 14.715 | 14.738 | VV | 1212 | 14612 | 0.22% | 0.017% |
| 266 | 14.758 | 14.738 | 14.786 | VV | 2751 | 40449 | 0.62% | 0.046% |
| 267 | 14.798 | 14.786 | 14.821 | VV | 367 | 7104 | 0.11% | 0.008% |
| 268 | 14.859 | 14.821 | 14.878 | VV | 260320 | 3101231 | 47.54% | 3.539% |
| 269 | 14.901 | 14.878 | 14.952 | VV | 271972 | 3399395 | 52.11% | 3.879% |
| 270 | 14.957 | 14.952 | 14.976 | VV | 627 | 7322 | 0.11% | 0.008% |
| 271 | 15.018 | 14.976 | 15.036 | VV | 3946 | 56738 | 0.87% | 0.065% |
| 272 | 15.055 | 15.036 | 15.070 | VV | 1064 | 14921 | 0.23% | 0.017% |
| 273 | 15.094 | 15.070 | 15.129 | VV | 1626 | 29731 | 0.46% | 0.034% |
| 274 | 15.151 | 15.129 | 15.177 | VV | 1263 | 22858 | 0.35% | 0.026% |
| 275 | 15.192 | 15.177 | 15.262 | VV | 882 | 28817 | 0.44% | 0.033% |
| 276 | 15.301 | 15.262 | 15.327 | VV | 4243 | 81800 | 1.25% | 0.093% |
| 277 | 15.333 | 15.327 | 15.358 | VV | 1834 | 24003 | 0.37% | 0.027% |
| 278 | 15.362 | 15.358 | 15.365 | VV | 761 | 3116 | 0.05% | 0.004% |
| 279 | 15.369 | 15.365 | 15.374 | VV | 724 | 3150 | 0.05% | 0.004% |
| 280 | 15.376 | 15.374 | 15.391 | VV | 756 | 5185 | 0.08% | 0.006% |
| 281 | 15.395 | 15.391 | 15.415 | VV | 472 | 3196 | 0.05% | 0.004% |
| 282 | 15.458 | 15.415 | 15.500 | VV | 1688 | 44956 | 0.69% | 0.051% |
| 283 | 15.524 | 15.500 | 15.544 | VV | 3026 | 40897 | 0.63% | 0.047% |
| 284 | 15.563 | 15.544 | 15.587 | VV | 1462 | 23032 | 0.35% | 0.026% |
| 285 | 15.604 | 15.587 | 15.624 | VV | 1079 | 17308 | 0.27% | 0.020% |
| 286 | 15.669 | 15.624 | 15.674 | VV | 1910 | 33039 | 0.51% | 0.038% |
| 287 | 15.685 | 15.674 | 15.724 | VV | 2147 | 39177 | 0.60% | 0.045% |
| 288 | 15.736 | 15.724 | 15.740 | VV | 663 | 5344 | 0.08% | 0.006% |
| 289 | 15.765 | 15.740 | 15.790 | VV | 1620 | 28358 | 0.43% | 0.032% |
| 290 | 15.801 | 15.790 | 15.819 | VV | 726 | 10947 | 0.17% | 0.012% |
| 291 | 15.820 | 15.819 | 15.826 | VV | 662 | 2318 | 0.04% | 0.003% |
| 292 | 15.847 | 15.826 | 15.859 | VV | 986 | 14918 | 0.23% | 0.017% |
| 293 | 15.873 | 15.859 | 15.907 | VV | 1024 | 21293 | 0.33% | 0.024% |
| 294 | 15.939 | 15.907 | 15.977 | VV | 23285 | 316301 | 4.85% | 0.361% |
| 295 | 15.983 | 15.977 | 15.990 | VV | 469 | 3356 | 0.05% | 0.004% |
| 296 | 15.995 | 15.990 | 16.004 | VV | 451 | 3272 | 0.05% | 0.004% |
| 297 | 16.009 | 16.004 | 16.028 | VV | 415 | 4086 | 0.06% | 0.005% |
| 298 | 16.032 | 16.028 | 16.052 | VV | 310 | 2383 | 0.04% | 0.003% |
| 299 | 16.088 | 16.066 | 16.096 | PV | 472 | 5315 | 0.08% | 0.006% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 16.128 | 16.096 | 16.176 | VV | 933 | 27832 | 0.43% | 0.032% |
| 301 | 16.189 | 16.176 | 16.210 | VV | 441 | 6588 | 0.10% | 0.008% |
| 302 | 16.225 | 16.210 | 16.256 | VV | 772 | 13530 | 0.21% | 0.015% |
| 303 | 16.270 | 16.256 | 16.282 | VV | 492 | 6528 | 0.10% | 0.007% |
| 304 | 16.324 | 16.282 | 16.356 | VV | 1104 | 31253 | 0.48% | 0.036% |
| 305 | 16.410 | 16.356 | 16.425 | VV | 231205 | 3021520 | 46.31% | 3.448% |
| 306 | 16.443 | 16.425 | 16.477 | VV | 254412 | 2908651 | 44.58% | 3.319% |
| 307 | 16.501 | 16.477 | 16.517 | VV | 1446 | 23486 | 0.36% | 0.027% |
| 308 | 16.542 | 16.517 | 16.572 | VV | 4351 | 83709 | 1.28% | 0.096% |
| 309 | 16.576 | 16.572 | 16.615 | VV | 1183 | 21641 | 0.33% | 0.025% |
| 310 | 16.656 | 16.615 | 16.675 | VV | 1822 | 33130 | 0.51% | 0.038% |
| 311 | 16.689 | 16.675 | 16.694 | VV | 993 | 9076 | 0.14% | 0.010% |
| 312 | 16.727 | 16.694 | 16.752 | VV | 8288 | 119826 | 1.84% | 0.137% |
| 313 | 16.789 | 16.752 | 16.830 | VV | 237286 | 2875120 | 44.07% | 3.281% |
| 314 | 16.885 | 16.830 | 16.916 | VV | 27302 | 377869 | 5.79% | 0.431% |
| 315 | 16.937 | 16.916 | 16.979 | VV | 1369 | 27854 | 0.43% | 0.032% |
| 316 | 17.022 | 16.979 | 17.029 | VV | 1013 | 18354 | 0.28% | 0.021% |
| 317 | 17.036 | 17.029 | 17.062 | VV | 1013 | 14084 | 0.22% | 0.016% |
| 318 | 17.067 | 17.062 | 17.079 | VV | 402 | 3237 | 0.05% | 0.004% |
| 319 | 17.091 | 17.079 | 17.107 | VV | 451 | 5571 | 0.09% | 0.006% |
| 320 | 17.146 | 17.107 | 17.231 | VV | 1843 | 65265 | 1.00% | 0.074% |
| 321 | 17.246 | 17.231 | 17.258 | VV | 874 | 10944 | 0.17% | 0.012% |
| 322 | 17.282 | 17.258 | 17.294 | VV | 1182 | 20079 | 0.31% | 0.023% |
| 323 | 17.310 | 17.294 | 17.319 | VV | 1240 | 14215 | 0.22% | 0.016% |
| 324 | 17.336 | 17.319 | 17.354 | VV | 1863 | 27310 | 0.42% | 0.031% |
| 325 | 17.363 | 17.354 | 17.384 | VV | 829 | 12272 | 0.19% | 0.014% |
| 326 | 17.391 | 17.384 | 17.400 | VV | 664 | 5119 | 0.08% | 0.006% |
| 327 | 17.438 | 17.400 | 17.460 | VV | 1525 | 28936 | 0.44% | 0.033% |
| 328 | 17.464 | 17.460 | 17.470 | VV | 585 | 2250 | 0.03% | 0.003% |
| 329 | 17.485 | 17.470 | 17.497 | VV | 604 | 6546 | 0.10% | 0.007% |
| 330 | 17.512 | 17.497 | 17.536 | VV | 595 | 10324 | 0.16% | 0.012% |
| 331 | 17.553 | 17.536 | 17.590 | VV | 571 | 9091 | 0.14% | 0.010% |
| 332 | 17.601 | 17.590 | 17.607 | PV | 328 | 1606 | 0.02% | 0.002% |
| 333 | 17.626 | 17.607 | 17.645 | VV | 579 | 5841 | 0.09% | 0.007% |
| 334 | 17.664 | 17.645 | 17.687 | VV | 389 | 5795 | 0.09% | 0.007% |
| 335 | 17.703 | 17.687 | 17.710 | VV | 520 | 4524 | 0.07% | 0.005% |
| 336 | 17.771 | 17.710 | 17.802 | VV | 22200 | 324398 | 4.97% | 0.370% |
| 337 | 17.864 | 17.802 | 17.892 | VV | 826 | 27259 | 0.42% | 0.031% |
| 338 | 17.934 | 17.892 | 17.970 | VV | 1126 | 34210 | 0.52% | 0.039% |
| 339 | 17.984 | 17.970 | 18.022 | VV | 480 | 10885 | 0.17% | 0.012% |
| 340 | 18.056 | 18.022 | 18.108 | VV | 2369 | 52502 | 0.80% | 0.060% |
| 341 | 18.155 | 18.108 | 18.171 | VV | 227598 | 2941594 | 45.09% | 3.357% |
| 342 | 18.194 | 18.171 | 18.258 | VV | 220955 | 2769736 | 42.45% | 3.161% |
| 343 | 18.282 | 18.258 | 18.297 | VV | 2251 | 30798 | 0.47% | 0.035% |
| 344 | 18.314 | 18.297 | 18.341 | VV | 1960 | 32113 | 0.49% | 0.037% |
| 345 | 18.345 | 18.341 | 18.366 | VV | 533 | 7173 | 0.11% | 0.008% |
| 346 | 18.409 | 18.366 | 18.443 | VV | 215253 | 2740026 | 42.00% | 3.127% |
| 347 | 18.450 | 18.443 | 18.469 | VV | 945 | 11307 | 0.17% | 0.013% |
| 348 | 18.477 | 18.469 | 18.482 | VV | 889 | 5456 | 0.08% | 0.006% |
| 349 | 18.487 | 18.482 | 18.505 | VV | 870 | 10037 | 0.15% | 0.011% |
| 350 | 18.530 | 18.505 | 18.562 | VV | 2862 | 43225 | 0.66% | 0.049% |
| 351 | 18.600 | 18.562 | 18.657 | VV | 21894 | 318107 | 4.88% | 0.363% |

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|---|---|---|---|---|---|---|---|---|
| 352 | 18.705 | 18.657 | 18.724 | VV | 657 | 16852 | 0.26% | 0.019% |
| 353 | 18.728 | 18.724 | 18.732 | VV | 273 | 1114 | 0.02% | 0.001% |
| 354 | 18.750 | 18.732 | 18.757 | VV | 534 | 4830 | 0.07% | 0.006% |
| 355 | 18.761 | 18.757 | 18.788 | VV | 492 | 5876 | 0.09% | 0.007% |
| 356 | 18.833 | 18.788 | 18.856 | PV | 573 | 14056 | 0.22% | 0.016% |
| 357 | 18.864 | 18.856 | 18.892 | VV | 537 | 5610 | 0.09% | 0.006% |
| 358 | 18.910 | 18.900 | 18.920 | VV | 193 | 1233 | 0.02% | 0.001% |
| 359 | 18.963 | 18.920 | 18.980 | PV | 1340 | 14095 | 0.22% | 0.016% |

Sum of corrected areas: 87635738

Aromatic EPH 052425.M Fri Jun 13 22:45:04 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069166.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 22:50
Operator : YP/AJ
Sample : Q2177-02MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01MSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Integration File: autoint1.e
Quant Time: Jun 12 06:06:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | System Monitoring Compounds | | | |
| 12) S | 1-chlorooctadecane (S... | 13.118 | 6098846 | 67.981 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 135.96% |
| | Target Compounds | | | |
| 1) T | n-Nonane (C9) | 3.404 | 2206907 | 20.796 ug/ml |
| 2) T | n-Decane (C10) | 4.479 | 2703700 | 25.529 ug/mlm |
| 4) T | n-Dodecane (C12) | 6.507 | 3279378 | 31.196 ug/ml |
| 6) T | n-Tetradecane (C14) | 8.307 | 3644091 | 35.551 ug/ml |
| 7) T | n-Hexadecane (C16) | 9.911 | 3446165 | 33.963 ug/ml |
| 8) T | n-Octadecane (C18) | 11.356 | 3399983 | 34.019 ug/ml |
| 10) T | n-Eicosane (C20) | 12.669 | 3460700 | 35.532 ug/ml |
| 11) T | n-Heneicosane (C21) | 13.282 | 3301753 | 34.303 ug/ml |
| 13) T | n-Docosane (C22) | 13.869 | 3282558 | 34.456 ug/ml |
| 14) T | n-Tetracosane (C24) | 14.975 | 3280063 | 34.838 ug/ml |
| 15) T | n-Hexacosane (C26) | 15.998 | 3253279 | 35.041 ug/ml |
| 16) T | n-Octacosane (C28) | 16.949 | 3217537 | 34.615 ug/ml |
| 17) T | n-Tricontane (C30) | 17.839 | 3242305 | 33.510 ug/ml |
| 18) T | n-Dotriacontane (C32) | 18.674 | 3276603 | 33.064 ug/ml |
| 19) T | n-Tetratriacontane (C34) | 19.459 | 3328230 | 34.533 ug/ml |
| 20) T | n-Hexatriacontane (C36) | 20.201 | 3277362 | 34.524 ug/ml |
| 21) T | n-Octatriacontane (C38) | 20.970 | 3206710 | 35.148 ug/ml |
| 22) T | n-Tetracontane (C40) | 21.939 | 2906027 | 32.935 ug/mlm |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069166.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 22:50
Operator : YP/AJ
Sample : Q2177-02MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

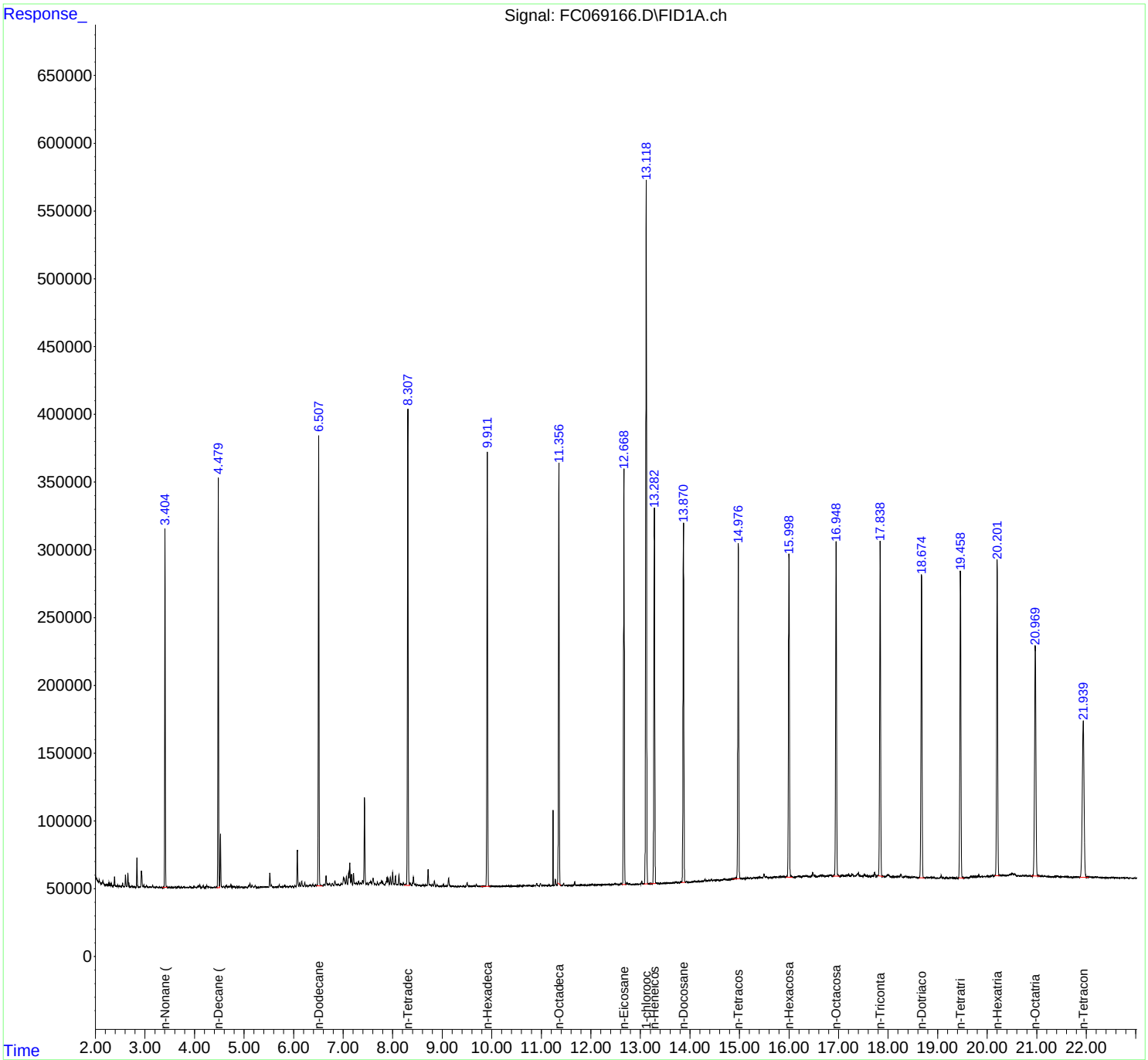
**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01MSD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Integration File: autoint1.e
Quant Time: Jun 12 06:06:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01MSD

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06112
Data File : FC069166.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 22:50
Sample : Q2177-02MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.229 | 3.204 | 3.243 | BV | 373 | 3610 | 0.06% | 0.004% |
| 2 | 3.252 | 3.243 | 3.281 | VV | 183 | 2110 | 0.03% | 0.002% |
| 3 | 3.299 | 3.281 | 3.325 | VV | 185 | 2590 | 0.04% | 0.003% |
| 4 | 3.352 | 3.325 | 3.364 | PV | 94 | 1175 | 0.02% | 0.001% |
| 5 | 3.404 | 3.364 | 3.488 | VV | 264351 | 2216208 | 36.10% | 2.585% |
| 6 | 3.507 | 3.488 | 3.521 | VV | 173 | 2257 | 0.04% | 0.003% |
| 7 | 3.529 | 3.521 | 3.571 | VV | 279 | 4536 | 0.07% | 0.005% |
| 8 | 3.609 | 3.571 | 3.637 | VV | 444 | 7355 | 0.12% | 0.009% |
| 9 | 3.682 | 3.637 | 3.708 | VV | 697 | 11955 | 0.19% | 0.014% |
| 10 | 3.732 | 3.708 | 3.761 | VV | 481 | 7710 | 0.13% | 0.009% |
| 11 | 3.782 | 3.761 | 3.809 | PV | 816 | 10927 | 0.18% | 0.013% |
| 12 | 3.848 | 3.809 | 3.870 | VV | 308 | 7827 | 0.13% | 0.009% |
| 13 | 3.904 | 3.870 | 3.942 | VV | 781 | 12835 | 0.21% | 0.015% |
| 14 | 3.953 | 3.942 | 3.968 | VV | 222 | 1957 | 0.03% | 0.002% |
| 15 | 3.992 | 3.968 | 4.039 | VV | 699 | 15288 | 0.25% | 0.018% |
| 16 | 4.078 | 4.039 | 4.092 | VV | 1761 | 22765 | 0.37% | 0.027% |
| 17 | 4.107 | 4.092 | 4.127 | VV | 2344 | 23251 | 0.38% | 0.027% |
| 18 | 4.143 | 4.127 | 4.154 | VV | 461 | 5166 | 0.08% | 0.006% |
| 19 | 4.174 | 4.154 | 4.198 | VV | 1811 | 18764 | 0.31% | 0.022% |
| 20 | 4.209 | 4.198 | 4.224 | VV | 212 | 3032 | 0.05% | 0.004% |
| 21 | 4.246 | 4.224 | 4.275 | VV | 1485 | 23918 | 0.39% | 0.028% |
| 22 | 4.288 | 4.275 | 4.365 | VV | 660 | 13833 | 0.23% | 0.016% |
| 23 | 4.398 | 4.365 | 4.416 | PV | 382 | 6346 | 0.10% | 0.007% |
| 24 | 4.437 | 4.416 | 4.454 | VV | 389 | 5687 | 0.09% | 0.007% |
| 25 | 4.480 | 4.454 | 4.505 | VV | 300503 | 2704184 | 44.05% | 3.155% |
| 26 | 4.524 | 4.505 | 4.569 | VV | 39776 | 363362 | 5.92% | 0.424% |
| 27 | 4.587 | 4.569 | 4.613 | VV | 1230 | 15239 | 0.25% | 0.018% |
| 28 | 4.634 | 4.613 | 4.670 | VV | 1541 | 29871 | 0.49% | 0.035% |
| 29 | 4.684 | 4.670 | 4.693 | VV | 723 | 7060 | 0.12% | 0.008% |
| 30 | 4.706 | 4.693 | 4.720 | VV | 1103 | 11295 | 0.18% | 0.013% |
| 31 | 4.736 | 4.720 | 4.753 | VV | 2512 | 23513 | 0.38% | 0.027% |
| 32 | 4.767 | 4.753 | 4.779 | VV | 931 | 9014 | 0.15% | 0.011% |
| 33 | 4.790 | 4.779 | 4.805 | VV | 748 | 9153 | 0.15% | 0.011% |
| 34 | 4.813 | 4.805 | 4.830 | VV | 549 | 5374 | 0.09% | 0.006% |
| 35 | 4.856 | 4.830 | 4.875 | VV | 779 | 10714 | 0.17% | 0.012% |
| 36 | 4.896 | 4.875 | 4.915 | VV | 682 | 9321 | 0.15% | 0.011% |

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 4.933 | 4.915 | 4.945 | VV | 289 | 4266 | 0.07% | 0.005% |
| 38 | 4.960 | 4.945 | 4.982 | VV | 746 | 7446 | | |
| 39 | 5.006 | 4.982 | 5.020 | VV | 317 | 3831 | | |
| 40 | 5.037 | 5.020 | 5.067 | VV | 502 | 7257 | | |
| 41 | 5.092 | 5.067 | 5.103 | PV | 1588 | 16117 | | |
| 42 | 5.120 | 5.103 | 5.144 | VV | 3096 | 37779 | | |
| 43 | 5.162 | 5.144 | 5.193 | VV | 1846 | 25020 | 0.41% | 0.029% |
| 44 | 5.225 | 5.193 | 5.271 | VV | 1709 | 22737 | 0.37% | 0.027% |
| 45 | 5.281 | 5.271 | 5.299 | PV | 130 | 1639 | 0.03% | 0.002% |
| 46 | 5.325 | 5.299 | 5.358 | VV | 694 | 11106 | 0.18% | 0.013% |
| 47 | 5.386 | 5.358 | 5.403 | VV | 477 | 9563 | 0.16% | 0.011% |
| 48 | 5.417 | 5.403 | 5.430 | VV | 415 | 5187 | 0.08% | 0.006% |
| 49 | 5.446 | 5.430 | 5.460 | VV | 342 | 5437 | 0.09% | 0.006% |
| 50 | 5.474 | 5.460 | 5.496 | VV | 341 | 5742 | 0.09% | 0.007% |
| 51 | 5.521 | 5.496 | 5.542 | VV | 10781 | 109842 | 1.79% | 0.128% |
| 52 | 5.554 | 5.542 | 5.578 | VV | 1468 | 21104 | 0.34% | 0.025% |
| 53 | 5.591 | 5.578 | 5.604 | VV | 377 | 4593 | 0.07% | 0.005% |
| 54 | 5.618 | 5.604 | 5.631 | VV | 365 | 4318 | 0.07% | 0.005% |
| 55 | 5.679 | 5.631 | 5.689 | VV | 454 | 10980 | 0.18% | 0.013% |
| 56 | 5.711 | 5.689 | 5.741 | VV | 2028 | 26667 | 0.43% | 0.031% |
| 57 | 5.770 | 5.741 | 5.784 | VV | 685 | 11409 | 0.19% | 0.013% |
| 58 | 5.823 | 5.784 | 5.853 | VV | 1410 | 32237 | 0.53% | 0.038% |
| 59 | 5.872 | 5.853 | 5.903 | VV | 1006 | 16583 | 0.27% | 0.019% |
| 60 | 5.922 | 5.903 | 5.956 | VV | 1020 | 19507 | 0.32% | 0.023% |
| 61 | 5.976 | 5.956 | 6.004 | VV | 1104 | 16387 | 0.27% | 0.019% |
| 62 | 6.025 | 6.004 | 6.045 | VV | 1084 | 17829 | 0.29% | 0.021% |
| 63 | 6.076 | 6.045 | 6.104 | VV | 27669 | 291897 | 4.75% | 0.341% |
| 64 | 6.122 | 6.104 | 6.141 | VV | 3343 | 42246 | 0.69% | 0.049% |
| 65 | 6.164 | 6.141 | 6.197 | VV | 4637 | 66273 | 1.08% | 0.077% |
| 66 | 6.226 | 6.197 | 6.248 | VV | 3749 | 53107 | 0.87% | 0.062% |
| 67 | 6.265 | 6.248 | 6.288 | VV | 1339 | 25280 | 0.41% | 0.029% |
| 68 | 6.319 | 6.288 | 6.329 | VV | 1190 | 26254 | 0.43% | 0.031% |
| 69 | 6.345 | 6.329 | 6.368 | VV | 1944 | 30566 | 0.50% | 0.036% |
| 70 | 6.389 | 6.368 | 6.414 | VV | 2100 | 36529 | 0.60% | 0.043% |
| 71 | 6.442 | 6.414 | 6.458 | VV | 1785 | 33205 | 0.54% | 0.039% |
| 72 | 6.468 | 6.458 | 6.474 | VV | 1342 | 12858 | 0.21% | 0.015% |
| 73 | 6.507 | 6.474 | 6.558 | VV | 333094 | 3327138 | 54.20% | 3.881% |
| 74 | 6.570 | 6.558 | 6.584 | VV | 1334 | 18661 | 0.30% | 0.022% |
| 75 | 6.622 | 6.584 | 6.635 | VV | 1988 | 48411 | 0.79% | 0.056% |
| 76 | 6.656 | 6.635 | 6.679 | VV | 8413 | 114633 | 1.87% | 0.134% |
| 77 | 6.689 | 6.679 | 6.713 | VV | 2607 | 46518 | 0.76% | 0.054% |
| 78 | 6.728 | 6.713 | 6.761 | VV | 3037 | 54353 | 0.89% | 0.063% |
| 79 | 6.781 | 6.761 | 6.808 | VV | 2843 | 55029 | 0.90% | 0.064% |
| 80 | 6.834 | 6.808 | 6.859 | VV | 4741 | 86045 | 1.40% | 0.100% |
| 81 | 6.867 | 6.859 | 6.881 | VV | 2151 | 25707 | 0.42% | 0.030% |
| 82 | 6.896 | 6.881 | 6.931 | VV | 2234 | 54770 | 0.89% | 0.064% |
| 83 | 6.966 | 6.931 | 6.986 | VV | 2582 | 65594 | 1.07% | 0.077% |
| 84 | 7.008 | 6.986 | 7.048 | VV | 7206 | 172914 | 2.82% | 0.202% |
| 85 | 7.067 | 7.048 | 7.090 | VV | 7797 | 112863 | 1.84% | 0.132% |
| 86 | 7.111 | 7.090 | 7.120 | VV | 10519 | 117709 | 1.92% | 0.137% |
| 87 | 7.135 | 7.120 | 7.153 | VV | 17893 | 213509 | 3.48% | 0.249% |
| 88 | 7.168 | 7.153 | 7.190 | VV | 9494 | 114454 | 1.86% | 0.134% |
| 89 | 7.210 | 7.190 | 7.252 | VV | 10154 | 162684 | 2.65% | 0.190% |

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01MSD

rteres

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 90 | 7.267 | 7.252 | 7.283 | VV | 3425 | 51015 | 0.83% | 0.060% |
| 91 | 7.313 | 7.283 | 7.331 | VV | 4490 | 88134 | | |
| 92 | 7.357 | 7.331 | 7.374 | VV | 3078 | 67350 | | |
| 93 | 7.394 | 7.374 | 7.408 | VV | 4915 | 75121 | | |
| 94 | 7.432 | 7.408 | 7.463 | VV | 64989 | 703342 | 11 | |
| 95 | 7.484 | 7.463 | 7.510 | VV | 2842 | 69071 | | |
| 96 | 7.554 | 7.510 | 7.581 | VV | 4117 | 135892 | 2.21% | 0.159% |
| 97 | 7.605 | 7.581 | 7.632 | VV | 6439 | 129686 | 2.11% | 0.151% |
| 98 | 7.645 | 7.632 | 7.671 | VV | 2758 | 49449 | 0.81% | 0.058% |
| 99 | 7.693 | 7.671 | 7.716 | VV | 3376 | 62439 | 1.02% | 0.073% |
| 100 | 7.747 | 7.716 | 7.758 | VV | 3232 | 62059 | 1.01% | 0.072% |
| 101 | 7.775 | 7.758 | 7.791 | VV | 4724 | 72563 | 1.18% | 0.085% |
| 102 | 7.800 | 7.791 | 7.836 | VV | 3257 | 62220 | 1.01% | 0.073% |
| 103 | 7.888 | 7.836 | 7.902 | VV | 7191 | 147916 | 2.41% | 0.173% |
| 104 | 7.913 | 7.902 | 7.933 | VV | 6178 | 79080 | 1.29% | 0.092% |
| 105 | 7.955 | 7.933 | 7.977 | VV | 7284 | 104927 | 1.71% | 0.122% |
| 106 | 8.000 | 7.977 | 8.031 | VV | 10692 | 158098 | 2.58% | 0.184% |
| 107 | 8.057 | 8.031 | 8.080 | VV | 8163 | 114617 | 1.87% | 0.134% |
| 108 | 8.127 | 8.080 | 8.151 | VV | 8996 | 146244 | 2.38% | 0.171% |
| 109 | 8.166 | 8.151 | 8.198 | VV | 2125 | 52967 | 0.86% | 0.062% |
| 110 | 8.217 | 8.198 | 8.236 | VV | 2830 | 45927 | 0.75% | 0.054% |
| 111 | 8.307 | 8.236 | 8.339 | VV | 353153 | 3714421 | 60.51% | 4.333% |
| 112 | 8.354 | 8.339 | 8.377 | VV | 2722 | 44573 | 0.73% | 0.052% |
| 113 | 8.420 | 8.377 | 8.441 | VV | 7412 | 124628 | 2.03% | 0.145% |
| 114 | 8.452 | 8.441 | 8.481 | VV | 2107 | 39348 | 0.64% | 0.046% |
| 115 | 8.500 | 8.481 | 8.521 | VV | 1509 | 31020 | 0.51% | 0.036% |
| 116 | 8.535 | 8.521 | 8.569 | VV | 1169 | 29319 | 0.48% | 0.034% |
| 117 | 8.619 | 8.569 | 8.645 | VV | 1346 | 45422 | 0.74% | 0.053% |
| 118 | 8.667 | 8.645 | 8.694 | VV | 1533 | 33531 | 0.55% | 0.039% |
| 119 | 8.716 | 8.694 | 8.741 | VV | 12911 | 153760 | 2.50% | 0.179% |
| 120 | 8.755 | 8.741 | 8.780 | VV | 1810 | 29849 | 0.49% | 0.035% |
| 121 | 8.797 | 8.780 | 8.821 | VV | 1918 | 29157 | 0.47% | 0.034% |
| 122 | 8.843 | 8.821 | 8.874 | VV | 4314 | 62799 | 1.02% | 0.073% |
| 123 | 8.895 | 8.874 | 8.941 | VV | 1456 | 26586 | 0.43% | 0.031% |
| 124 | 8.964 | 8.941 | 8.979 | VV | 453 | 8074 | 0.13% | 0.009% |
| 125 | 9.025 | 8.979 | 9.051 | VV | 1331 | 29754 | 0.48% | 0.035% |
| 126 | 9.068 | 9.051 | 9.104 | VV | 667 | 15904 | 0.26% | 0.019% |
| 127 | 9.130 | 9.104 | 9.175 | VV | 6344 | 89993 | 1.47% | 0.105% |
| 128 | 9.187 | 9.175 | 9.197 | VV | 314 | 3550 | 0.06% | 0.004% |
| 129 | 9.214 | 9.197 | 9.244 | VV | 499 | 7466 | 0.12% | 0.009% |
| 130 | 9.267 | 9.244 | 9.299 | VV | 256 | 4412 | 0.07% | 0.005% |
| 131 | 9.320 | 9.299 | 9.338 | VV | 224 | 3016 | 0.05% | 0.004% |
| 132 | 9.371 | 9.338 | 9.382 | VV | 287 | 5570 | 0.09% | 0.006% |
| 133 | 9.387 | 9.382 | 9.403 | VV | 230 | 1761 | 0.03% | 0.002% |
| 134 | 9.430 | 9.403 | 9.470 | VV | 413 | 7392 | 0.12% | 0.009% |
| 135 | 9.504 | 9.470 | 9.534 | PV | 2879 | 39220 | 0.64% | 0.046% |
| 136 | 9.550 | 9.534 | 9.568 | VV | 645 | 7949 | 0.13% | 0.009% |
| 137 | 9.593 | 9.568 | 9.614 | VV | 272 | 5897 | 0.10% | 0.007% |
| 138 | 9.643 | 9.614 | 9.667 | VV | 583 | 10765 | 0.18% | 0.013% |
| 139 | 9.689 | 9.667 | 9.737 | VV | 1858 | 23500 | 0.38% | 0.027% |
| 140 | 9.754 | 9.737 | 9.771 | VV | 190 | 2467 | 0.04% | 0.003% |
| 141 | 9.777 | 9.771 | 9.798 | VV | 145 | 1899 | 0.03% | 0.002% |

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

rteres

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.828 | 9.798 | 9.873 | VV | 437 | 9603 | 0.16% | 0.011% |
| 143 | 9.911 | 9.873 | 9.977 | VV | 319195 | 3449253 | 56 | |
| 144 | 9.988 | 9.977 | 10.034 | VV | 231 | 4618 | | |
| 145 | 10.042 | 10.034 | 10.073 | VV | 85 | 1731 | | |
| 146 | 10.084 | 10.073 | 10.111 | VV | 157 | 2047 | | |
| 147 | 10.122 | 10.111 | 10.141 | PV | 79 | 1379 | | |
| 148 | 10.155 | 10.141 | 10.168 | VV | 158 | 1439 | 0.02% | 0.002% |
| 149 | 10.179 | 10.168 | 10.205 | VV | 107 | 1684 | 0.03% | 0.002% |
| 150 | 10.223 | 10.205 | 10.246 | PV | 185 | 2736 | 0.04% | 0.003% |
| 151 | 10.262 | 10.246 | 10.271 | VV | 202 | 2314 | 0.04% | 0.003% |
| 152 | 10.303 | 10.271 | 10.321 | VV | 356 | 7274 | 0.12% | 0.008% |
| 153 | 10.345 | 10.321 | 10.364 | VV | 264 | 5157 | 0.08% | 0.006% |
| 154 | 10.389 | 10.364 | 10.451 | VV | 306 | 9241 | 0.15% | 0.011% |
| 155 | 10.461 | 10.451 | 10.498 | VV | 162 | 2908 | 0.05% | 0.003% |
| 156 | 10.551 | 10.498 | 10.564 | VV | 291 | 7893 | 0.13% | 0.009% |
| 157 | 10.577 | 10.564 | 10.618 | VV | 326 | 7700 | 0.13% | 0.009% |
| 158 | 10.651 | 10.618 | 10.681 | VV | 676 | 12256 | 0.20% | 0.014% |
| 159 | 10.704 | 10.681 | 10.730 | VV | 489 | 9275 | 0.15% | 0.011% |
| 160 | 10.747 | 10.730 | 10.808 | VV | 542 | 15349 | 0.25% | 0.018% |
| 161 | 10.835 | 10.808 | 10.857 | VV | 256 | 5048 | 0.08% | 0.006% |
| 162 | 10.909 | 10.857 | 10.950 | VV | 2059 | 30723 | 0.50% | 0.036% |
| 163 | 10.984 | 10.950 | 11.010 | VV | 1979 | 27219 | 0.44% | 0.032% |
| 164 | 11.026 | 11.010 | 11.053 | VV | 365 | 6695 | 0.11% | 0.008% |
| 165 | 11.077 | 11.053 | 11.091 | VV | 261 | 4511 | 0.07% | 0.005% |
| 166 | 11.104 | 11.091 | 11.128 | VV | 235 | 2961 | 0.05% | 0.003% |
| 167 | 11.158 | 11.128 | 11.181 | VV | 851 | 10599 | 0.17% | 0.012% |
| 168 | 11.214 | 11.181 | 11.231 | PV | 182 | 2331 | 0.04% | 0.003% |
| 169 | 11.238 | 11.231 | 11.248 | VV | 20854 | 39852 | 0.65% | 0.046% |
| 170 | 11.285 | 11.248 | 11.317 | VV | 4795 | 65539 | 1.07% | 0.076% |
| 171 | 11.356 | 11.317 | 11.419 | VV | 310449 | 3449273 | 56.19% | 4.024% |
| 172 | 11.450 | 11.419 | 11.481 | VV | 1615 | 20448 | 0.33% | 0.024% |
| 173 | 11.501 | 11.481 | 11.512 | VV | 144 | 2112 | 0.03% | 0.002% |
| 174 | 11.517 | 11.512 | 11.569 | VV | 127 | 1952 | 0.03% | 0.002% |
| 175 | 11.578 | 11.569 | 11.601 | VV | 152 | 1333 | 0.02% | 0.002% |
| 176 | 11.676 | 11.601 | 11.727 | PV | 2902 | 38056 | 0.62% | 0.044% |
| 177 | 11.750 | 11.727 | 11.793 | VV | 343 | 8760 | 0.14% | 0.010% |
| 178 | 11.812 | 11.793 | 11.849 | VV | 558 | 10430 | 0.17% | 0.012% |
| 179 | 11.866 | 11.849 | 11.938 | VV | 359 | 9183 | 0.15% | 0.011% |
| 180 | 11.982 | 11.938 | 11.996 | VV | 396 | 8504 | 0.14% | 0.010% |
| 181 | 12.024 | 11.996 | 12.074 | VV | 810 | 17897 | 0.29% | 0.021% |
| 182 | 12.079 | 12.074 | 12.098 | VV | 249 | 2348 | 0.04% | 0.003% |
| 183 | 12.141 | 12.098 | 12.204 | VV | 331 | 14090 | 0.23% | 0.016% |
| 184 | 12.260 | 12.204 | 12.276 | VV | 432 | 11541 | 0.19% | 0.013% |
| 185 | 12.297 | 12.276 | 12.310 | VV | 507 | 7692 | 0.13% | 0.009% |
| 186 | 12.321 | 12.310 | 12.341 | VV | 499 | 6885 | 0.11% | 0.008% |
| 187 | 12.361 | 12.341 | 12.388 | VV | 548 | 10318 | 0.17% | 0.012% |
| 188 | 12.404 | 12.388 | 12.420 | VV | 353 | 6391 | 0.10% | 0.007% |
| 189 | 12.488 | 12.420 | 12.508 | VV | 1114 | 31130 | 0.51% | 0.036% |
| 190 | 12.530 | 12.508 | 12.562 | VV | 752 | 15051 | 0.25% | 0.018% |
| 191 | 12.607 | 12.562 | 12.630 | VV | 1060 | 18614 | 0.30% | 0.022% |
| 192 | 12.669 | 12.630 | 12.706 | VV | 304145 | 3471486 | 56.55% | 4.050% |
| 193 | 12.731 | 12.706 | 12.761 | VV | 1782 | 28712 | 0.47% | 0.033% |
| 194 | 12.786 | 12.761 | 12.861 | VV | 848 | 21572 | 0.35% | 0.025% |

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01MSD

rteres

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 195 | 12.875 | 12.861 | 12.894 | VV | 306 | 4532 | 0.07% | 0.005% |
| 196 | 12.922 | 12.894 | 12.959 | VV | 441 | 12295 | | |
| 197 | 12.981 | 12.959 | 13.003 | VV | 337 | 7993 | | |
| 198 | 13.029 | 13.003 | 13.055 | VV | 2514 | 35645 | | |
| 199 | 13.118 | 13.055 | 13.201 | VV | 515763 | 6138838 | 100 | |
| 200 | 13.223 | 13.201 | 13.243 | VV | 827 | 14542 | | |
| 201 | 13.282 | 13.243 | 13.316 | VV | 277680 | 3328588 | 54.22% | 3.883% |
| 202 | 13.332 | 13.316 | 13.353 | VV | 1200 | 19496 | 0.32% | 0.023% |
| 203 | 13.377 | 13.353 | 13.431 | VV | 746 | 28520 | 0.46% | 0.033% |
| 204 | 13.454 | 13.431 | 13.472 | VV | 916 | 17087 | 0.28% | 0.020% |
| 205 | 13.514 | 13.472 | 13.528 | VV | 775 | 24411 | 0.40% | 0.028% |
| 206 | 13.551 | 13.528 | 13.560 | VV | 998 | 16882 | 0.28% | 0.020% |
| 207 | 13.573 | 13.560 | 13.613 | VV | 946 | 27462 | 0.45% | 0.032% |
| 208 | 13.628 | 13.613 | 13.641 | VV | 1002 | 14634 | 0.24% | 0.017% |
| 209 | 13.659 | 13.641 | 13.678 | VV | 1316 | 22596 | 0.37% | 0.026% |
| 210 | 13.712 | 13.678 | 13.753 | VV | 1561 | 52201 | 0.85% | 0.061% |
| 211 | 13.763 | 13.753 | 13.796 | VV | 1076 | 26518 | 0.43% | 0.031% |
| 212 | 13.816 | 13.796 | 13.831 | VV | 1849 | 31554 | 0.51% | 0.037% |
| 213 | 13.869 | 13.831 | 13.908 | VV | 270501 | 3335961 | 54.34% | 3.892% |
| 214 | 13.927 | 13.908 | 13.945 | VV | 1724 | 32669 | 0.53% | 0.038% |
| 215 | 13.957 | 13.945 | 13.969 | VV | 1298 | 17934 | 0.29% | 0.021% |
| 216 | 13.998 | 13.969 | 14.010 | VV | 1421 | 32444 | 0.53% | 0.038% |
| 217 | 14.022 | 14.010 | 14.043 | VV | 1412 | 27108 | 0.44% | 0.032% |
| 218 | 14.097 | 14.043 | 14.128 | VV | 2011 | 82653 | 1.35% | 0.096% |
| 219 | 14.162 | 14.128 | 14.176 | VV | 1757 | 46819 | 0.76% | 0.055% |
| 220 | 14.193 | 14.176 | 14.218 | VV | 1756 | 41486 | 0.68% | 0.048% |
| 221 | 14.264 | 14.218 | 14.273 | VV | 1941 | 57602 | 0.94% | 0.067% |
| 222 | 14.304 | 14.273 | 14.326 | VV | 3307 | 77653 | 1.26% | 0.091% |
| 223 | 14.336 | 14.326 | 14.358 | VV | 2203 | 40072 | 0.65% | 0.047% |
| 224 | 14.385 | 14.358 | 14.409 | VV | 2815 | 70199 | 1.14% | 0.082% |
| 225 | 14.431 | 14.409 | 14.462 | VV | 3200 | 80542 | 1.31% | 0.094% |
| 226 | 14.501 | 14.462 | 14.519 | VV | 2577 | 80346 | 1.31% | 0.094% |
| 227 | 14.571 | 14.519 | 14.591 | VV | 2546 | 104063 | 1.70% | 0.121% |
| 228 | 14.597 | 14.591 | 14.607 | VV | 2373 | 22805 | 0.37% | 0.027% |
| 229 | 14.637 | 14.607 | 14.664 | VV | 2786 | 86826 | 1.41% | 0.101% |
| 230 | 14.695 | 14.664 | 14.742 | VV | 3401 | 135001 | 2.20% | 0.157% |
| 231 | 14.753 | 14.742 | 14.768 | VV | 2661 | 42042 | 0.68% | 0.049% |
| 232 | 14.831 | 14.768 | 14.847 | VV | 3455 | 136739 | 2.23% | 0.160% |
| 233 | 14.915 | 14.847 | 14.936 | VV | 3839 | 181828 | 2.96% | 0.212% |
| 234 | 14.975 | 14.936 | 15.012 | VV | 248925 | 3417253 | 55.67% | 3.986% |
| 235 | 15.027 | 15.012 | 15.045 | VV | 3880 | 71820 | 1.17% | 0.084% |
| 236 | 15.055 | 15.045 | 15.072 | VV | 3524 | 53536 | 0.87% | 0.062% |
| 237 | 15.083 | 15.072 | 15.095 | VV | 3312 | 45089 | 0.73% | 0.053% |
| 238 | 15.112 | 15.095 | 15.134 | VV | 3374 | 76365 | 1.24% | 0.089% |
| 239 | 15.165 | 15.134 | 15.211 | VV | 3838 | 161758 | 2.63% | 0.189% |
| 240 | 15.224 | 15.211 | 15.239 | VV | 3821 | 60313 | 0.98% | 0.070% |
| 241 | 15.252 | 15.239 | 15.268 | VV | 3670 | 61762 | 1.01% | 0.072% |
| 242 | 15.294 | 15.268 | 15.314 | VV | 4015 | 105409 | 1.72% | 0.123% |
| 243 | 15.324 | 15.314 | 15.341 | VV | 3836 | 59852 | 0.97% | 0.070% |
| 244 | 15.414 | 15.341 | 15.467 | VV | 4234 | 291395 | 4.75% | 0.340% |
| 245 | 15.494 | 15.467 | 15.523 | VV | 6418 | 164335 | 2.68% | 0.192% |
| 246 | 15.540 | 15.523 | 15.585 | VV | 4513 | 150975 | 2.46% | 0.176% |

**Instrument :**
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**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 247 | 15.599 | 15.585 | 15.612 | VV | 3867 | 59603 | 0.97% | 0.070% |
| 248 | 15.635 | 15.612 | 15.651 | VV | 4047 | 88482 | | |
| 249 | 15.674 | 15.651 | 15.707 | VV | 4096 | 130969 | | |
| 250 | 15.721 | 15.707 | 15.751 | VV | 4236 | 107217 | | |
| 251 | 15.760 | 15.751 | 15.783 | VV | 4218 | 78373 | | |
| 252 | 15.809 | 15.783 | 15.838 | VV | 4448 | 138288 | | |
| 253 | 15.848 | 15.838 | 15.856 | VV | 4421 | 48208 | 0.79% | 0.056% |
| 254 | 15.871 | 15.856 | 15.907 | VV | 4375 | 130623 | 2.13% | 0.152% |
| 255 | 15.922 | 15.907 | 15.938 | VV | 4302 | 74862 | 1.22% | 0.087% |
| 256 | 15.998 | 15.938 | 16.115 | VV | 242873 | 3660723 | 59.63% | 4.270% |
| 257 | 16.171 | 16.115 | 16.184 | VV | 4428 | 167672 | 2.73% | 0.196% |
| 258 | 16.192 | 16.184 | 16.265 | VV | 4622 | 206067 | 3.36% | 0.240% |
| 259 | 16.303 | 16.265 | 16.334 | VV | 4747 | 184476 | 3.01% | 0.215% |
| 260 | 16.345 | 16.334 | 16.388 | VV | 4709 | 146150 | 2.38% | 0.170% |
| 261 | 16.398 | 16.388 | 16.420 | VV | 4206 | 78966 | 1.29% | 0.092% |
| 262 | 16.478 | 16.420 | 16.547 | VV | 7049 | 366680 | 5.97% | 0.428% |
| 263 | 16.562 | 16.547 | 16.570 | VV | 4143 | 55115 | 0.90% | 0.064% |
| 264 | 16.644 | 16.570 | 16.662 | VV | 5023 | 245586 | 4.00% | 0.286% |
| 265 | 16.672 | 16.662 | 16.691 | VV | 4745 | 79001 | 1.29% | 0.092% |
| 266 | 16.700 | 16.691 | 16.720 | VV | 4842 | 78769 | 1.28% | 0.092% |
| 267 | 16.731 | 16.720 | 16.744 | VV | 4412 | 60610 | 0.99% | 0.071% |
| 268 | 16.761 | 16.744 | 16.774 | VV | 4554 | 80113 | 1.31% | 0.093% |
| 269 | 16.823 | 16.774 | 16.837 | VV | 5052 | 174333 | 2.84% | 0.203% |
| 270 | 16.847 | 16.837 | 16.889 | VV | 4930 | 139609 | 2.27% | 0.163% |
| 271 | 16.949 | 16.889 | 17.044 | VV | 250676 | 3601054 | 58.66% | 4.201% |
| 272 | 17.079 | 17.044 | 17.101 | VV | 4706 | 148734 | 2.42% | 0.174% |
| 273 | 17.108 | 17.101 | 17.126 | VV | 4401 | 64729 | 1.05% | 0.076% |
| 274 | 17.143 | 17.126 | 17.157 | VV | 4389 | 79267 | 1.29% | 0.092% |
| 275 | 17.194 | 17.157 | 17.224 | VV | 4963 | 185593 | 3.02% | 0.217% |
| 276 | 17.270 | 17.224 | 17.313 | VV | 5374 | 244815 | 3.99% | 0.286% |
| 277 | 17.328 | 17.313 | 17.344 | VV | 4370 | 77527 | 1.26% | 0.090% |
| 278 | 17.397 | 17.344 | 17.424 | VV | 5848 | 235281 | 3.83% | 0.274% |
| 279 | 17.433 | 17.424 | 17.459 | VV | 4221 | 84965 | 1.38% | 0.099% |
| 280 | 17.527 | 17.483 | 17.554 | VV | 4827 | 183966 | 3.00% | 0.215% |
| 281 | 17.572 | 17.554 | 17.591 | VV | 4149 | 86546 | 1.41% | 0.101% |
| 282 | 17.606 | 17.591 | 17.651 | VV | 3971 | 135615 | 2.21% | 0.158% |
| 283 | 17.694 | 17.651 | 17.703 | VV | 3944 | 115264 | 1.88% | 0.134% |
| 284 | 17.727 | 17.703 | 17.771 | VV | 6193 | 185026 | 3.01% | 0.216% |
| 285 | 17.838 | 17.771 | 17.881 | VV | 250445 | 3494321 | 56.92% | 4.076% |
| 286 | 17.889 | 17.881 | 17.944 | VV | 3616 | 128409 | 2.09% | 0.150% |
| 287 | 17.993 | 17.944 | 18.074 | VV | 4598 | 285774 | 4.66% | 0.333% |
| 288 | 18.099 | 18.074 | 18.158 | VV | 3266 | 155450 | 2.53% | 0.181% |
| 289 | 18.169 | 18.158 | 18.181 | VV | 3012 | 40500 | 0.66% | 0.047% |
| 290 | 18.196 | 18.181 | 18.209 | VV | 3332 | 54087 | 0.88% | 0.063% |
| 291 | 18.220 | 18.209 | 18.237 | VV | 3267 | 55017 | 0.90% | 0.064% |
| 292 | 18.260 | 18.237 | 18.293 | VV | 4762 | 118205 | 1.93% | 0.138% |
| 293 | 18.316 | 18.293 | 18.334 | VV | 2906 | 68582 | 1.12% | 0.080% |
| 294 | 18.361 | 18.334 | 18.378 | VV | 3455 | 80559 | 1.31% | 0.094% |
| 295 | 18.392 | 18.378 | 18.434 | VV | 3006 | 92665 | 1.51% | 0.108% |
| 296 | 18.443 | 18.434 | 18.457 | VV | 2511 | 32593 | 0.53% | 0.038% |
| 297 | 18.480 | 18.457 | 18.496 | VV | 2720 | 60099 | 0.98% | 0.070% |
| 298 | 18.515 | 18.496 | 18.548 | VV | 2718 | 78665 | 1.28% | 0.092% |
| 299 | 18.550 | 18.548 | 18.561 | VV | 2553 | 19335 | 0.31% | 0.023% |

**Instrument :**
FID_C
**ClientSampleId :**
B-187-SB01MSD

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | rteres | | | | |
| 300 | 18.569 | 18.561 | 18.591 | VV | 2390 | 40896 | 0.67% | 0.048% |
| 301 | 18.603 | 18.591 | 18.624 | VV | 2229 | 42002 | | |
| 302 | 18.674 | 18.624 | 18.758 | VV | 225620 | 3434188 | 55 | |
| 303 | 18.785 | 18.758 | 18.813 | VV | 2398 | 69937 | 1 | |
| 304 | 18.836 | 18.813 | 18.846 | VV | 2217 | 41513 | 0 | |
| 305 | 18.865 | 18.846 | 18.901 | VV | 2372 | 68549 | 1 | |
| 306 | 18.925 | 18.901 | 18.962 | VV | 2085 | 69145 | 1.13% | 0.081% |
| 307 | 18.976 | 18.962 | 18.998 | VV | 1815 | 36091 | 0.59% | 0.042% |
| 308 | 19.015 | 18.998 | 19.031 | VV | 1654 | 31700 | 0.52% | 0.037% |
| 309 | 19.070 | 19.031 | 19.156 | VV | 3619 | 147714 | 2.41% | 0.172% |
| 310 | 19.178 | 19.156 | 19.229 | VV | 1917 | 71483 | 1.16% | 0.083% |
| 311 | 19.248 | 19.229 | 19.260 | VV | 1770 | 29831 | 0.49% | 0.035% |
| 312 | 19.271 | 19.260 | 19.286 | VV | 1726 | 25431 | 0.41% | 0.030% |
| 313 | 19.317 | 19.286 | 19.344 | VV | 1701 | 54667 | 0.89% | 0.064% |
| 314 | 19.352 | 19.344 | 19.367 | VV | 1584 | 20781 | 0.34% | 0.024% |
| 315 | 19.388 | 19.367 | 19.407 | VV | 1575 | 35068 | 0.57% | 0.041% |
| 316 | 19.459 | 19.407 | 19.547 | VV | 227959 | 3449363 | 56.19% | 4.024% |
| 317 | 19.562 | 19.547 | 19.571 | VV | 1592 | 21528 | 0.35% | 0.025% |
| 318 | 19.589 | 19.571 | 19.607 | VV | 1708 | 34597 | 0.56% | 0.040% |
| 319 | 19.619 | 19.607 | 19.634 | VV | 1612 | 25051 | 0.41% | 0.029% |
| 320 | 19.673 | 19.634 | 19.688 | VV | 2173 | 64857 | 1.06% | 0.076% |
| 321 | 19.699 | 19.688 | 19.708 | VV | 2265 | 27304 | 0.44% | 0.032% |
| 322 | 19.714 | 19.708 | 19.721 | VV | 2201 | 16518 | 0.27% | 0.019% |
| 323 | 19.741 | 19.721 | 19.761 | VV | 2376 | 53606 | 0.87% | 0.063% |
| 324 | 19.778 | 19.761 | 19.794 | VV | 2179 | 41095 | 0.67% | 0.048% |
| 325 | 19.832 | 19.794 | 19.859 | VV | 3277 | 97818 | 1.59% | 0.114% |
| 326 | 19.893 | 19.859 | 19.921 | VV | 2307 | 81703 | 1.33% | 0.095% |
| 327 | 19.937 | 19.921 | 19.948 | VV | 2258 | 36028 | 0.59% | 0.042% |
| 328 | 19.992 | 19.948 | 20.002 | VV | 2486 | 77393 | 1.26% | 0.090% |
| 329 | 20.014 | 20.002 | 20.027 | VV | 2578 | 34799 | 0.57% | 0.041% |
| 330 | 20.038 | 20.027 | 20.051 | VV | 2353 | 32916 | 0.54% | 0.038% |
| 331 | 20.107 | 20.051 | 20.134 | VV | 2997 | 128630 | 2.10% | 0.150% |
| 332 | 20.201 | 20.134 | 20.251 | VV | 234949 | 3469415 | 56.52% | 4.047% |
| 333 | 20.266 | 20.251 | 20.287 | VV | 2933 | 61880 | 1.01% | 0.072% |
| 334 | 20.297 | 20.287 | 20.314 | VV | 2912 | 47511 | 0.77% | 0.055% |
| 335 | 20.325 | 20.314 | 20.349 | VV | 2974 | 59279 | 0.97% | 0.069% |
| 336 | 20.362 | 20.349 | 20.390 | VV | 2855 | 69956 | 1.14% | 0.082% |
| 337 | 20.507 | 20.390 | 20.545 | VV | 3995 | 314098 | 5.12% | 0.366% |
| 338 | 20.559 | 20.545 | 20.598 | VV | 3752 | 100481 | 1.64% | 0.117% |
| 339 | 20.603 | 20.598 | 20.628 | VV | 2565 | 44642 | 0.73% | 0.052% |
| 340 | 20.634 | 20.628 | 20.667 | VV | 2516 | 57584 | 0.94% | 0.067% |
| 341 | 20.678 | 20.667 | 20.695 | VV | 2462 | 41614 | 0.68% | 0.049% |
| 342 | 20.711 | 20.695 | 20.734 | VV | 2599 | 58226 | 0.95% | 0.068% |
| 343 | 20.765 | 20.734 | 20.776 | VV | 2499 | 61207 | 1.00% | 0.071% |
| 344 | 20.794 | 20.776 | 20.837 | VV | 2441 | 85437 | 1.39% | 0.100% |
| 345 | 20.850 | 20.837 | 20.907 | VV | 2375 | 91992 | 1.50% | 0.107% |
| 346 | 20.970 | 20.907 | 21.034 | VV | 171427 | 3366157 | 54.83% | 3.927% |
| 347 | 21.044 | 21.034 | 21.104 | VV | 2285 | 87302 | 1.42% | 0.102% |
| 348 | 21.117 | 21.104 | 21.135 | VV | 1955 | 35404 | 0.58% | 0.041% |
| 349 | 21.151 | 21.135 | 21.188 | VV | 1883 | 55774 | 0.91% | 0.065% |
| 350 | 21.193 | 21.188 | 21.248 | VV | 1732 | 57450 | 0.94% | 0.067% |
| 351 | 21.253 | 21.248 | 21.280 | VV | 1551 | 28256 | 0.46% | 0.033% |

**Instrument :**
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**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | rteres | | | |
| 352 | 21.318 | 21.280 | 21.328 | VV | 1436 | 39433 | 0.64% | 0.046% |
| 353 | 21.357 | 21.328 | 21.378 | VV | 1427 | 40748 | | |
| 354 | 21.414 | 21.378 | 21.464 | VV | 1939 | 81085 | | |
| 355 | 21.474 | 21.464 | 21.488 | VV | 1248 | 17043 | | |
| 356 | 21.514 | 21.488 | 21.541 | VV | 1288 | 39761 | | |
| 357 | 21.550 | 21.541 | 21.644 | VV | 1280 | 69496 | | |
| 358 | 21.656 | 21.644 | 21.695 | VV | 939 | 27094 | 0.44% | 0.032% |
| 359 | 21.705 | 21.695 | 21.731 | VV | 870 | 18090 | 0.29% | 0.021% |
| 360 | 21.745 | 21.731 | 21.763 | VV | 911 | 15948 | 0.26% | 0.019% |
| 361 | 21.794 | 21.763 | 21.863 | VV | 1039 | 50096 | 0.82% | 0.058% |
| 362 | 21.939 | 21.863 | 22.093 | VV | 115545 | 2997687 | 48.83% | 3.497% |
| 363 | 22.107 | 22.093 | 22.117 | VV | 696 | 9626 | 0.16% | 0.011% |
| 364 | 22.133 | 22.117 | 22.211 | VV | 707 | 32541 | 0.53% | 0.038% |
| 365 | 22.218 | 22.211 | 22.372 | VV | 580 | 31274 | 0.51% | 0.036% |

Sum of corrected areas: 85722590

Aliphatic EPH 052425.M Thu Jun 12 07:05:00 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061325AR\
Data File : FD049485.D
Signal(s) : FID2B.ch
Acq On : 13 Jun 2025 10:28
Operator : YP/AJ
Sample : Q2177-02MSD
Misc :
ALS Vial : 64 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
B-187-SB01MSD

Integration File: autoint1.e
Quant Time: Jun 13 21:20:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 4) S | 2-Bromonaphthalene (S... | 7.733 | 6422490 | 38.635 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 77.27% |
| 6) S | 2-Flurobiphenyl (SURR) | 8.599 | 4310794 | 37.683 ug/ml |
| Spiked Amount | 50.000 Range | 0 - 131 | Recovery = | 75.37% |
| 11) S | ortho-Terphenyl (SURR) | 11.644 | 6612603 | 32.944 ug/ml |
| Spiked Amount | 50.000 | | Recovery = | 65.89% |
| | **Target Compounds** | | | |
| 1) T | 1,2,3-Trimethylbenzen... | 4.524 | 2066500 | 12.988 ug/ml |
| 2) T | Naphthalene (C11.7) | 6.067 | 2554939 | 14.551 ug/ml |
| 3) T | 2-Methylnaphthalene (... | 7.121 | 2609761 | 14.608 ug/ml |
| 5) T | Acenaphthylene (C15.06) | 8.401 | 3078661 | 15.893 ug/ml |
| 7) T | Acenaphthene (C15.5) | 8.696 | 3179562 | 16.715 ug/ml |
| 8) T | Flouorene (C16.55) | 9.477 | 3339048 | 17.078 ug/ml |
| 9) T | Phenanthrene (C19.36) | 10.876 | 3627949 | 19.080 ug/ml |
| 10) T | Anthracene (C19.43) | 10.950 | 3257528 | 18.634 ug/ml |
| 12) T | Fluoranthene (C21.85) | 12.690 | 3658473 | 20.282 ug/ml |
| 13) T | Pyrene (C20.8) | 12.988 | 3565559 | 19.977 ug/ml |
| 14) T | Benzo[a]anthracene (C... | 14.859 | 3096764 | 20.375 ug/ml |
| 15) T | Chrysene (C27.41) | 14.902 | 3386617 | 22.302 ug/ml |
| 16) T | benzo[b]fluoranthene ... | 16.409 | 3021110 | 20.872 ug/ml |
| 17) T | Bnezo[k]fluoranthene ... | 16.442 | 2904297 | 20.239 ug/ml |
| 18) T | Benzo[a]pyrene (C31.34) | 16.789 | 2870129 | 21.117 ug/ml |
| 19) T | Indeno[1,2,3-cd]pyren... | 18.153 | 2943227 | 23.042 ug/ml |
| 20) T | Dibenz[a,h]anthracene... | 18.193 | 2786556 | 20.699 ug/ml |
| 21) T | Benzo[g,h,i]perylene ... | 18.409 | 2739045 | 20.322 ug/ml |

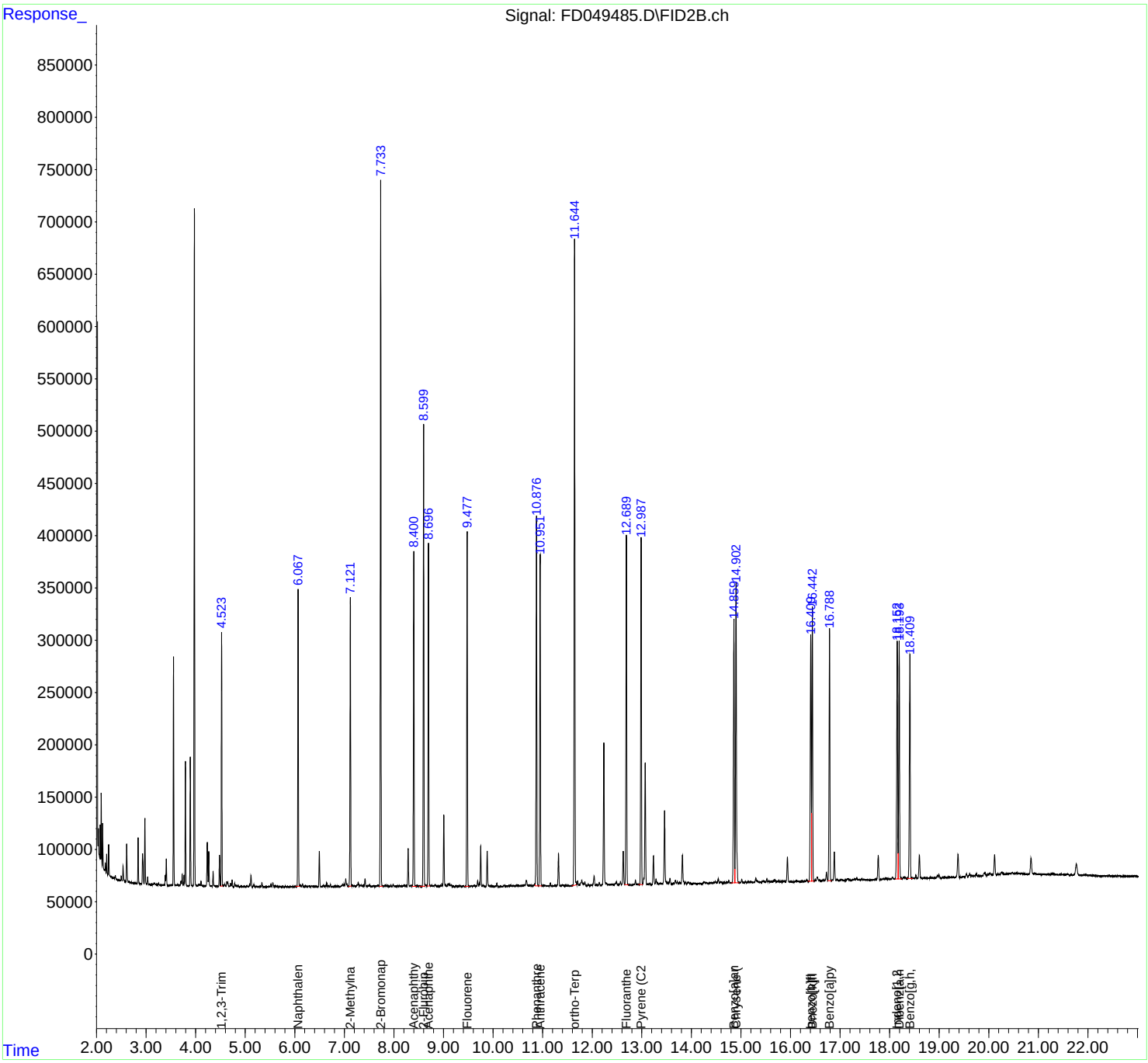
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061325AR\
Data File : FD049485.D
Signal(s) : FID2B.ch
Acq On : 13 Jun 2025 10:28
Operator : YP/AJ
Sample : Q2177-02MSD
Misc :
ALS Vial : 64 Sample Multiplier: 1

**Instrument :**
FID_D
**ClientSampleId :**
B-187-SB01MSD

Integration File: autoint1.e
Quant Time: Jun 13 21:20:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061325AR\
Data File : FD049485.D
Signal(s) : FID2B.ch
Acq On : 13 Jun 2025 10:28
Sample : Q2177-02MSD
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.265 | 4.252 | 4.308 | PH | 33372 | 289960 | 4.36% | 0.327% |
| 2 | 4.323 | 4.308 | 4.331 | PV | 317 | 2173 | 0.03% | 0.002% |
| 3 | 4.352 | 4.331 | 4.370 | PV | 14111 | 111883 | 1.68% | 0.126% |
| 4 | 4.373 | 4.370 | 4.404 | VV | 899 | 8077 | 0.12% | 0.009% |
| 5 | 4.414 | 4.404 | 4.425 | VV | 230 | 2074 | 0.03% | 0.002% |
| 6 | 4.430 | 4.425 | 4.451 | VV | 545 | 3278 | 0.05% | 0.004% |
| 7 | 4.481 | 4.458 | 4.502 | PV | 30062 | 265773 | 3.99% | 0.299% |
| 8 | 4.524 | 4.502 | 4.549 | VV | 242594 | 2080660 | 31.25% | 2.343% |
| 9 | 4.562 | 4.549 | 4.572 | VV | 1174 | 12949 | 0.19% | 0.015% |
| 10 | 4.586 | 4.572 | 4.610 | VV | 2354 | 30661 | 0.46% | 0.035% |
| 11 | 4.630 | 4.610 | 4.641 | VV | 5058 | 54585 | 0.82% | 0.061% |
| 12 | 4.650 | 4.641 | 4.677 | VV | 4281 | 42921 | 0.64% | 0.048% |
| 13 | 4.706 | 4.677 | 4.719 | VV | 3330 | 34594 | 0.52% | 0.039% |
| 14 | 4.736 | 4.719 | 4.758 | VV | 6495 | 61886 | 0.93% | 0.070% |
| 15 | 4.788 | 4.758 | 4.804 | VV | 3495 | 32077 | 0.48% | 0.036% |
| 16 | 4.815 | 4.804 | 4.842 | VV | 1585 | 18625 | 0.28% | 0.021% |
| 17 | 4.853 | 4.842 | 4.885 | VV | 834 | 9747 | 0.15% | 0.011% |
| 18 | 4.899 | 4.885 | 4.914 | PV | 253 | 2744 | 0.04% | 0.003% |
| 19 | 4.927 | 4.914 | 4.944 | VV | 575 | 5406 | 0.08% | 0.006% |
| 20 | 4.954 | 4.944 | 4.966 | VV | 293 | 2869 | 0.04% | 0.003% |
| 21 | 4.978 | 4.966 | 4.982 | VV | 447 | 2857 | 0.04% | 0.003% |
| 22 | 4.986 | 4.982 | 5.006 | VV | 509 | 4825 | 0.07% | 0.005% |
| 23 | 5.038 | 5.006 | 5.066 | VV | 758 | 15795 | 0.24% | 0.018% |
| 24 | 5.090 | 5.066 | 5.099 | VV | 2455 | 24217 | 0.36% | 0.027% |
| 25 | 5.116 | 5.099 | 5.148 | VV | 11171 | 121229 | 1.82% | 0.137% |
| 26 | 5.173 | 5.148 | 5.209 | VV | 2332 | 31720 | 0.48% | 0.036% |
| 27 | 5.224 | 5.209 | 5.242 | VV | 663 | 8477 | 0.13% | 0.010% |
| 28 | 5.247 | 5.242 | 5.259 | VV | 313 | 1374 | 0.02% | 0.002% |
| 29 | 5.294 | 5.259 | 5.298 | PV | 612 | 8256 | 0.12% | 0.009% |
| 30 | 5.307 | 5.298 | 5.322 | VV | 798 | 7032 | 0.11% | 0.008% |
| 31 | 5.337 | 5.322 | 5.382 | VV | 4136 | 44625 | 0.67% | 0.050% |
| 32 | 5.395 | 5.382 | 5.428 | VV | 541 | 8839 | 0.13% | 0.010% |
| 33 | 5.440 | 5.428 | 5.450 | VV | 332 | 2147 | 0.03% | 0.002% |
| 34 | 5.483 | 5.450 | 5.497 | VV | 770 | 10926 | 0.16% | 0.012% |
| 35 | 5.517 | 5.497 | 5.535 | VV | 2524 | 27752 | 0.42% | 0.031% |
| 36 | 5.559 | 5.535 | 5.602 | VV | 4058 | 56388 | 0.85% | 0.064% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 5.615 | 5.602 | 5.645 | VV | 1141 | 15427 | 0.23% | 0.017% |
| 38 | 5.655 | 5.645 | 5.663 | VV | 497 | 3170 | 0.05% | 0.004% |
| 39 | 5.669 | 5.663 | 5.689 | VV | 443 | 5094 | 0.08% | 0.006% |
| 40 | 5.700 | 5.689 | 5.742 | VV | 578 | 8434 | 0.13% | 0.009% |
| 41 | 5.762 | 5.742 | 5.781 | VV | 480 | 5522 | 0.08% | 0.006% |
| 42 | 5.786 | 5.781 | 5.795 | VV | 165 | 1033 | 0.02% | 0.001% |
| 43 | 5.809 | 5.795 | 5.842 | VV | 819 | 11225 | 0.17% | 0.013% |
| 44 | 5.863 | 5.842 | 5.873 | VV | 529 | 6648 | 0.10% | 0.007% |
| 45 | 5.881 | 5.873 | 5.910 | VV | 439 | 7452 | 0.11% | 0.008% |
| 46 | 5.921 | 5.910 | 5.952 | VV | 531 | 9942 | 0.15% | 0.011% |
| 47 | 5.970 | 5.952 | 5.982 | VV | 624 | 7182 | 0.11% | 0.008% |
| 48 | 6.002 | 5.982 | 6.015 | VV | 541 | 8378 | 0.13% | 0.009% |
| 49 | 6.020 | 6.015 | 6.028 | VV | 742 | 4325 | 0.06% | 0.005% |
| 50 | 6.067 | 6.028 | 6.101 | VV | 284940 | 2588810 | 38.89% | 2.915% |
| 51 | 6.114 | 6.101 | 6.139 | VV | 1830 | 23583 | 0.35% | 0.027% |
| 52 | 6.156 | 6.139 | 6.187 | VV | 3145 | 38690 | 0.58% | 0.044% |
| 53 | 6.219 | 6.187 | 6.247 | VV | 1139 | 24296 | 0.36% | 0.027% |
| 54 | 6.254 | 6.247 | 6.262 | VV | 556 | 4394 | 0.07% | 0.005% |
| 55 | 6.286 | 6.262 | 6.317 | VV | 1011 | 21905 | 0.33% | 0.025% |
| 56 | 6.319 | 6.317 | 6.324 | VV | 408 | 1532 | 0.02% | 0.002% |
| 57 | 6.344 | 6.324 | 6.368 | VV | 1294 | 18454 | 0.28% | 0.021% |
| 58 | 6.375 | 6.368 | 6.403 | VV | 547 | 9001 | 0.14% | 0.010% |
| 59 | 6.408 | 6.403 | 6.414 | VV | 428 | 2505 | 0.04% | 0.003% |
| 60 | 6.418 | 6.414 | 6.424 | VV | 429 | 2126 | 0.03% | 0.002% |
| 61 | 6.433 | 6.424 | 6.442 | VV | 435 | 3991 | 0.06% | 0.004% |
| 62 | 6.459 | 6.442 | 6.464 | VV | 533 | 5203 | 0.08% | 0.006% |
| 63 | 6.496 | 6.464 | 6.525 | VV | 34265 | 335883 | 5.05% | 0.378% |
| 64 | 6.538 | 6.525 | 6.550 | VV | 676 | 7191 | 0.11% | 0.008% |
| 65 | 6.582 | 6.550 | 6.602 | VV | 1424 | 25940 | 0.39% | 0.029% |
| 66 | 6.614 | 6.602 | 6.629 | VV | 1347 | 14282 | 0.21% | 0.016% |
| 67 | 6.646 | 6.629 | 6.669 | VV | 3674 | 42520 | 0.64% | 0.048% |
| 68 | 6.677 | 6.669 | 6.692 | VV | 955 | 9904 | 0.15% | 0.011% |
| 69 | 6.718 | 6.692 | 6.737 | VV | 1948 | 23098 | 0.35% | 0.026% |
| 70 | 6.770 | 6.737 | 6.796 | VV | 606 | 13896 | 0.21% | 0.016% |
| 71 | 6.822 | 6.796 | 6.849 | VV | 1012 | 14940 | 0.22% | 0.017% |
| 72 | 6.878 | 6.849 | 6.885 | VV | 735 | 10993 | 0.17% | 0.012% |
| 73 | 6.890 | 6.885 | 6.918 | VV | 734 | 7071 | 0.11% | 0.008% |
| 74 | 6.940 | 6.918 | 6.951 | VV | 1464 | 18390 | 0.28% | 0.021% |
| 75 | 6.964 | 6.951 | 6.977 | VV | 2872 | 29495 | 0.44% | 0.033% |
| 76 | 6.992 | 6.977 | 7.005 | VV | 2603 | 32741 | 0.49% | 0.037% |
| 77 | 7.029 | 7.005 | 7.079 | VV | 7736 | 127424 | 1.91% | 0.143% |
| 78 | 7.121 | 7.079 | 7.147 | VV | 276791 | 2637346 | 39.61% | 2.970% |
| 79 | 7.154 | 7.147 | 7.184 | VV | 1432 | 24288 | 0.36% | 0.027% |
| 80 | 7.198 | 7.184 | 7.212 | VV | 1331 | 15427 | 0.23% | 0.017% |
| 81 | 7.226 | 7.212 | 7.240 | VV | 1008 | 11120 | 0.17% | 0.013% |
| 82 | 7.257 | 7.240 | 7.265 | VV | 1941 | 20541 | 0.31% | 0.023% |
| 83 | 7.280 | 7.265 | 7.300 | VV | 4624 | 56890 | 0.85% | 0.064% |
| 84 | 7.311 | 7.300 | 7.323 | VV | 1597 | 19162 | 0.29% | 0.022% |
| 85 | 7.336 | 7.323 | 7.366 | VV | 1927 | 33049 | 0.50% | 0.037% |
| 86 | 7.384 | 7.366 | 7.397 | VV | 1861 | 24571 | 0.37% | 0.028% |
| 87 | 7.418 | 7.397 | 7.442 | VV | 7804 | 90523 | 1.36% | 0.102% |
| 88 | 7.459 | 7.442 | 7.464 | VV | 1003 | 9770 | 0.15% | 0.011% |
| 89 | 7.483 | 7.464 | 7.498 | VV | 1194 | 17752 | 0.27% | 0.020% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 7.510 | 7.498 | 7.535 | VV | 1650 | 22579 | 0.34% | 0.025% |
| 91 | 7.539 | 7.535 | 7.548 | VV | 549 | 3993 | 0.06% | 0.004% |
| 92 | 7.560 | 7.548 | 7.565 | VV | 624 | 5457 | 0.08% | 0.006% |
| 93 | 7.594 | 7.565 | 7.615 | VV | 1144 | 23239 | 0.35% | 0.026% |
| 94 | 7.650 | 7.615 | 7.661 | VV | 975 | 18901 | 0.28% | 0.021% |
| 95 | 7.680 | 7.661 | 7.700 | VV | 2134 | 27145 | 0.41% | 0.031% |
| 96 | 7.733 | 7.700 | 7.778 | VV | 676068 | 6448524 | 96.86% | 7.262% |
| 97 | 7.782 | 7.778 | 7.802 | VV | 845 | 9906 | 0.15% | 0.011% |
| 98 | 7.821 | 7.802 | 7.835 | VV | 1310 | 20100 | 0.30% | 0.023% |
| 99 | 7.845 | 7.835 | 7.861 | VV | 1267 | 14602 | 0.22% | 0.016% |
| 100 | 7.874 | 7.861 | 7.886 | VV | 1187 | 13284 | 0.20% | 0.015% |
| 101 | 7.896 | 7.886 | 7.920 | VV | 874 | 13441 | 0.20% | 0.015% |
| 102 | 7.940 | 7.920 | 7.960 | VV | 1138 | 15683 | 0.24% | 0.018% |
| 103 | 7.984 | 7.960 | 8.016 | VV | 2612 | 35642 | 0.54% | 0.040% |
| 104 | 8.040 | 8.016 | 8.057 | VV | 1103 | 16170 | 0.24% | 0.018% |
| 105 | 8.071 | 8.057 | 8.095 | VV | 816 | 14627 | 0.22% | 0.016% |
| 106 | 8.111 | 8.095 | 8.147 | VV | 1368 | 22444 | 0.34% | 0.025% |
| 107 | 8.159 | 8.147 | 8.164 | VV | 569 | 4742 | 0.07% | 0.005% |
| 108 | 8.192 | 8.164 | 8.197 | VV | 1180 | 18328 | 0.28% | 0.021% |
| 109 | 8.213 | 8.197 | 8.264 | VV | 1531 | 43272 | 0.65% | 0.049% |
| 110 | 8.287 | 8.264 | 8.314 | VV | 36774 | 379780 | 5.70% | 0.428% |
| 111 | 8.319 | 8.314 | 8.330 | VV | 822 | 6758 | 0.10% | 0.008% |
| 112 | 8.345 | 8.330 | 8.365 | VV | 1831 | 22426 | 0.34% | 0.025% |
| 113 | 8.401 | 8.365 | 8.464 | VV | 320467 | 3106049 | 46.66% | 3.498% |
| 114 | 8.483 | 8.464 | 8.503 | VV | 1212 | 18559 | 0.28% | 0.021% |
| 115 | 8.521 | 8.503 | 8.555 | VV | 924 | 16188 | 0.24% | 0.018% |
| 116 | 8.599 | 8.555 | 8.629 | VV | 442124 | 4332037 | 65.07% | 4.878% |
| 117 | 8.650 | 8.629 | 8.667 | VV | 2111 | 34077 | 0.51% | 0.038% |
| 118 | 8.696 | 8.667 | 8.737 | VV | 329014 | 3215437 | 48.30% | 3.621% |
| 119 | 8.743 | 8.737 | 8.761 | VV | 1250 | 14842 | 0.22% | 0.017% |
| 120 | 8.774 | 8.761 | 8.792 | VV | 1173 | 17516 | 0.26% | 0.020% |
| 121 | 8.798 | 8.792 | 8.807 | VV | 912 | 7543 | 0.11% | 0.008% |
| 122 | 8.822 | 8.807 | 8.837 | VV | 1854 | 23226 | 0.35% | 0.026% |
| 123 | 8.843 | 8.837 | 8.864 | VV | 1289 | 13799 | 0.21% | 0.016% |
| 124 | 8.896 | 8.864 | 8.917 | VV | 657 | 15038 | 0.23% | 0.017% |
| 125 | 8.938 | 8.917 | 8.951 | VV | 1238 | 14745 | 0.22% | 0.017% |
| 126 | 8.967 | 8.951 | 8.981 | VV | 2353 | 26139 | 0.39% | 0.029% |
| 127 | 9.007 | 8.981 | 9.031 | VV | 68664 | 676147 | 10.16% | 0.761% |
| 128 | 9.041 | 9.031 | 9.075 | VV | 1608 | 32989 | 0.50% | 0.037% |
| 129 | 9.091 | 9.075 | 9.100 | VV | 2402 | 27225 | 0.41% | 0.031% |
| 130 | 9.105 | 9.100 | 9.114 | VV | 2114 | 16389 | 0.25% | 0.018% |
| 131 | 9.126 | 9.114 | 9.147 | VV | 2487 | 36508 | 0.55% | 0.041% |
| 132 | 9.160 | 9.147 | 9.180 | VV | 1996 | 23629 | 0.35% | 0.027% |
| 133 | 9.194 | 9.180 | 9.218 | VV | 779 | 9255 | 0.14% | 0.010% |
| 134 | 9.252 | 9.218 | 9.275 | VV | 596 | 10156 | 0.15% | 0.011% |
| 135 | 9.292 | 9.275 | 9.312 | VV | 829 | 11140 | 0.17% | 0.013% |
| 136 | 9.330 | 9.312 | 9.370 | VV | 1096 | 18108 | 0.27% | 0.020% |
| 137 | 9.394 | 9.370 | 9.426 | PV | 848 | 16992 | 0.26% | 0.019% |
| 138 | 9.440 | 9.426 | 9.445 | VV | 463 | 4006 | 0.06% | 0.005% |
| 139 | 9.477 | 9.445 | 9.535 | VV | 338962 | 3357500 | 50.43% | 3.781% |
| 140 | 9.557 | 9.535 | 9.587 | VV | 833 | 17618 | 0.26% | 0.020% |
| 141 | 9.623 | 9.587 | 9.642 | VV | 1327 | 30652 | 0.46% | 0.035% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 9.651 | 9.642 | 9.670 | VV | 803 | 10937 | 0.16% | 0.012% |
| 143 | 9.690 | 9.670 | 9.706 | VV | 5895 | 63650 | 0.96% | 0.072% |
| 144 | 9.722 | 9.706 | 9.732 | VV | 3411 | 35470 | 0.53% | 0.040% |
| 145 | 9.751 | 9.732 | 9.780 | VV | 39159 | 395601 | 5.94% | 0.445% |
| 146 | 9.797 | 9.780 | 9.819 | VV | 1577 | 22426 | 0.34% | 0.025% |
| 147 | 9.823 | 9.819 | 9.837 | VV | 635 | 4601 | 0.07% | 0.005% |
| 148 | 9.840 | 9.837 | 9.850 | VV | 269 | 2033 | 0.03% | 0.002% |
| 149 | 9.882 | 9.850 | 9.924 | VV | 34068 | 373081 | 5.60% | 0.420% |
| 150 | 9.928 | 9.924 | 9.937 | VV | 533 | 2620 | 0.04% | 0.003% |
| 151 | 9.961 | 9.937 | 9.979 | VV | 732 | 13165 | 0.20% | 0.015% |
| 152 | 9.989 | 9.979 | 10.010 | VV | 521 | 6890 | 0.10% | 0.008% |
| 153 | 10.024 | 10.010 | 10.030 | VV | 308 | 2514 | 0.04% | 0.003% |
| 154 | 10.077 | 10.030 | 10.119 | VV | 3639 | 49570 | 0.74% | 0.056% |
| 155 | 10.127 | 10.119 | 10.140 | VV | 356 | 2777 | 0.04% | 0.003% |
| 156 | 10.145 | 10.140 | 10.149 | VV | 214 | 1021 | 0.02% | 0.001% |
| 157 | 10.163 | 10.149 | 10.176 | VV | 525 | 4469 | 0.07% | 0.005% |
| 158 | 10.223 | 10.176 | 10.246 | PV | 1551 | 24552 | 0.37% | 0.028% |
| 159 | 10.252 | 10.246 | 10.257 | VV | 512 | 2576 | 0.04% | 0.003% |
| 160 | 10.276 | 10.257 | 10.287 | VV | 785 | 9226 | 0.14% | 0.010% |
| 161 | 10.319 | 10.287 | 10.337 | VV | 893 | 17846 | 0.27% | 0.020% |
| 162 | 10.356 | 10.337 | 10.381 | VV | 1586 | 26331 | 0.40% | 0.030% |
| 163 | 10.400 | 10.381 | 10.424 | VV | 1163 | 19552 | 0.29% | 0.022% |
| 164 | 10.432 | 10.424 | 10.438 | VV | 550 | 3034 | 0.05% | 0.003% |
| 165 | 10.444 | 10.438 | 10.450 | VV | 522 | 2929 | 0.04% | 0.003% |
| 166 | 10.470 | 10.450 | 10.510 | VV | 1246 | 30958 | 0.47% | 0.035% |
| 167 | 10.522 | 10.510 | 10.542 | VV | 1252 | 16800 | 0.25% | 0.019% |
| 168 | 10.548 | 10.542 | 10.559 | VV | 768 | 7165 | 0.11% | 0.008% |
| 169 | 10.570 | 10.559 | 10.584 | VV | 968 | 10645 | 0.16% | 0.012% |
| 170 | 10.610 | 10.584 | 10.626 | VV | 1307 | 23386 | 0.35% | 0.026% |
| 171 | 10.639 | 10.626 | 10.650 | VV | 1334 | 16494 | 0.25% | 0.019% |
| 172 | 10.673 | 10.650 | 10.697 | VV | 5550 | 95214 | 1.43% | 0.107% |
| 173 | 10.710 | 10.697 | 10.725 | VV | 1063 | 14945 | 0.22% | 0.017% |
| 174 | 10.752 | 10.725 | 10.766 | VV | 1286 | 24580 | 0.37% | 0.028% |
| 175 | 10.771 | 10.766 | 10.797 | VV | 776 | 11119 | 0.17% | 0.013% |
| 176 | 10.817 | 10.797 | 10.825 | VV | 1031 | 14009 | 0.21% | 0.016% |
| 177 | 10.841 | 10.825 | 10.848 | VV | 2789 | 26735 | 0.40% | 0.030% |
| 178 | 10.876 | 10.848 | 10.920 | VV | 355132 | 3652813 | 54.87% | 4.114% |
| 179 | 10.950 | 10.920 | 10.989 | VV | 317005 | 3279607 | 49.26% | 3.693% |
| 180 | 10.992 | 10.989 | 11.013 | VV | 721 | 8940 | 0.13% | 0.010% |
| 181 | 11.029 | 11.013 | 11.042 | VV | 917 | 14226 | 0.21% | 0.016% |
| 182 | 11.047 | 11.042 | 11.101 | VV | 969 | 20800 | 0.31% | 0.023% |
| 183 | 11.106 | 11.101 | 11.110 | VV | 406 | 1700 | 0.03% | 0.002% |
| 184 | 11.115 | 11.110 | 11.125 | VV | 416 | 3300 | 0.05% | 0.004% |
| 185 | 11.131 | 11.125 | 11.136 | VV | 358 | 1952 | 0.03% | 0.002% |
| 186 | 11.156 | 11.136 | 11.206 | VV | 3253 | 40780 | 0.61% | 0.046% |
| 187 | 11.253 | 11.206 | 11.260 | PV | 761 | 12810 | 0.19% | 0.014% |
| 188 | 11.262 | 11.260 | 11.273 | VV | 680 | 3952 | 0.06% | 0.004% |
| 189 | 11.320 | 11.273 | 11.348 | VV | 31405 | 361818 | 5.43% | 0.407% |
| 190 | 11.409 | 11.348 | 11.445 | VV | 1168 | 33766 | 0.51% | 0.038% |
| 191 | 11.472 | 11.445 | 11.497 | VV | 923 | 14643 | 0.22% | 0.016% |
| 192 | 11.522 | 11.497 | 11.549 | VV | 653 | 11095 | 0.17% | 0.012% |
| 193 | 11.565 | 11.549 | 11.579 | VV | 399 | 4673 | 0.07% | 0.005% |
| 194 | 11.644 | 11.579 | 11.689 | VV | 616910 | 6657445 | 100.00% | 7.497% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 11.705 | 11.689 | 11.725 | VV | 5133 | 62336 | 0.94% | 0.070% |
| 196 | 11.738 | 11.725 | 11.754 | VV | 1452 | 18711 | 0.28% | 0.021% |
| 197 | 11.770 | 11.754 | 11.775 | VV | 2993 | 27709 | 0.42% | 0.031% |
| 198 | 11.790 | 11.775 | 11.814 | VV | 5259 | 84384 | 1.27% | 0.095% |
| 199 | 11.822 | 11.814 | 11.836 | VV | 2801 | 28554 | 0.43% | 0.032% |
| 200 | 11.852 | 11.836 | 11.879 | VV | 3683 | 46376 | 0.70% | 0.052% |
| 201 | 11.920 | 11.879 | 11.945 | PV | 1068 | 18566 | 0.28% | 0.021% |
| 202 | 11.983 | 11.945 | 12.004 | VV | 1054 | 23273 | 0.35% | 0.026% |
| 203 | 12.038 | 12.004 | 12.065 | VV | 9506 | 139923 | 2.10% | 0.158% |
| 204 | 12.079 | 12.065 | 12.098 | VV | 1458 | 18306 | 0.27% | 0.021% |
| 205 | 12.104 | 12.098 | 12.107 | VV | 574 | 2787 | 0.04% | 0.003% |
| 206 | 12.143 | 12.107 | 12.163 | VV | 3093 | 43545 | 0.65% | 0.049% |
| 207 | 12.178 | 12.163 | 12.184 | VV | 570 | 5560 | 0.08% | 0.006% |
| 208 | 12.235 | 12.184 | 12.279 | VV | 136715 | 1628690 | 24.46% | 1.834% |
| 209 | 12.291 | 12.279 | 12.318 | VV | 2014 | 35381 | 0.53% | 0.040% |
| 210 | 12.322 | 12.318 | 12.333 | VV | 1036 | 7825 | 0.12% | 0.009% |
| 211 | 12.346 | 12.333 | 12.355 | VV | 975 | 11566 | 0.17% | 0.013% |
| 212 | 12.367 | 12.355 | 12.377 | VV | 975 | 11151 | 0.17% | 0.013% |
| 213 | 12.394 | 12.377 | 12.402 | VV | 1218 | 15376 | 0.23% | 0.017% |
| 214 | 12.410 | 12.402 | 12.430 | VV | 1158 | 15110 | 0.23% | 0.017% |
| 215 | 12.434 | 12.430 | 12.445 | VV | 675 | 5500 | 0.08% | 0.006% |
| 216 | 12.465 | 12.445 | 12.472 | VV | 2071 | 24412 | 0.37% | 0.027% |
| 217 | 12.488 | 12.472 | 12.509 | VV | 3455 | 50167 | 0.75% | 0.056% |
| 218 | 12.518 | 12.509 | 12.532 | VV | 1033 | 11414 | 0.17% | 0.013% |
| 219 | 12.541 | 12.532 | 12.550 | VV | 876 | 7572 | 0.11% | 0.009% |
| 220 | 12.570 | 12.550 | 12.588 | VV | 3332 | 43304 | 0.65% | 0.049% |
| 221 | 12.626 | 12.588 | 12.653 | VV | 32704 | 405645 | 6.09% | 0.457% |
| 222 | 12.690 | 12.653 | 12.736 | VV | 335181 | 3688250 | 55.40% | 4.153% |
| 223 | 12.755 | 12.736 | 12.771 | VV | 618 | 8612 | 0.13% | 0.010% |
| 224 | 12.776 | 12.771 | 12.799 | VV | 393 | 4366 | 0.07% | 0.005% |
| 225 | 12.820 | 12.799 | 12.827 | VV | 515 | 6174 | 0.09% | 0.007% |
| 226 | 12.843 | 12.827 | 12.857 | VV | 784 | 10464 | 0.16% | 0.012% |
| 227 | 12.873 | 12.857 | 12.896 | VV | 4737 | 57020 | 0.86% | 0.064% |
| 228 | 12.900 | 12.896 | 12.915 | VV | 1022 | 9817 | 0.15% | 0.011% |
| 229 | 12.922 | 12.915 | 12.939 | VV | 829 | 8619 | 0.13% | 0.010% |
| 230 | 12.945 | 12.939 | 12.955 | VV | 375 | 3103 | 0.05% | 0.003% |
| 231 | 12.988 | 12.955 | 13.014 | VV | 331679 | 3582296 | 53.81% | 4.034% |
| 232 | 13.041 | 13.014 | 13.046 | VV | 6880 | 71312 | 1.07% | 0.080% |
| 233 | 13.070 | 13.046 | 13.100 | VV | 116896 | 1363539 | 20.48% | 1.536% |
| 234 | 13.116 | 13.100 | 13.139 | VV | 727 | 12677 | 0.19% | 0.014% |
| 235 | 13.156 | 13.139 | 13.180 | VV | 1746 | 23755 | 0.36% | 0.027% |
| 236 | 13.193 | 13.180 | 13.204 | VV | 461 | 4752 | 0.07% | 0.005% |
| 237 | 13.236 | 13.204 | 13.266 | VV | 27790 | 348028 | 5.23% | 0.392% |
| 238 | 13.288 | 13.266 | 13.310 | VV | 5594 | 78669 | 1.18% | 0.089% |
| 239 | 13.315 | 13.310 | 13.340 | VV | 1689 | 20903 | 0.31% | 0.024% |
| 240 | 13.378 | 13.340 | 13.395 | VV | 1505 | 30338 | 0.46% | 0.034% |
| 241 | 13.408 | 13.395 | 13.420 | VV | 944 | 11328 | 0.17% | 0.013% |
| 242 | 13.461 | 13.420 | 13.534 | VV | 70509 | 912449 | 13.71% | 1.028% |
| 243 | 13.569 | 13.534 | 13.598 | VV | 5951 | 101400 | 1.52% | 0.114% |
| 244 | 13.607 | 13.598 | 13.619 | VV | 543 | 6164 | 0.09% | 0.007% |
| 245 | 13.639 | 13.619 | 13.656 | VV | 1253 | 18633 | 0.28% | 0.021% |
| 246 | 13.677 | 13.656 | 13.700 | VV | 3782 | 56755 | 0.85% | 0.064% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 13.716 | 13.700 | 13.733 | VV | 2692 | 34126 | 0.51% | 0.038% |
| 248 | 13.738 | 13.733 | 13.748 | VV | 881 | 7111 | 0.11% | 0.008% |
| 249 | 13.766 | 13.748 | 13.790 | VV | 1916 | 31130 | 0.47% | 0.035% |
| 250 | 13.820 | 13.790 | 13.868 | VV | 27899 | 379403 | 5.70% | 0.427% |
| 251 | 13.886 | 13.868 | 13.910 | VV | 2151 | 29032 | 0.44% | 0.033% |
| 252 | 13.931 | 13.910 | 13.973 | VV | 1714 | 40473 | 0.61% | 0.046% |
| 253 | 13.993 | 13.973 | 14.014 | VV | 362 | 6093 | 0.09% | 0.007% |
| 254 | 14.036 | 14.014 | 14.042 | VV | 466 | 6410 | 0.10% | 0.007% |
| 255 | 14.050 | 14.042 | 14.056 | VV | 650 | 4797 | 0.07% | 0.005% |
| 256 | 14.064 | 14.056 | 14.093 | VV | 689 | 10297 | 0.15% | 0.012% |
| 257 | 14.099 | 14.093 | 14.112 | VV | 446 | 3217 | 0.05% | 0.004% |
| 258 | 14.125 | 14.112 | 14.136 | PV | 287 | 2942 | 0.04% | 0.003% |
| 259 | 14.146 | 14.136 | 14.172 | VV | 403 | 5617 | 0.08% | 0.006% |
| 260 | 14.179 | 14.172 | 14.192 | VV | 208 | 1404 | 0.02% | 0.002% |
| 261 | 14.214 | 14.199 | 14.226 | VV | 490 | 5754 | 0.09% | 0.006% |
| 262 | 14.257 | 14.226 | 14.284 | VV | 1826 | 38040 | 0.57% | 0.043% |
| 263 | 14.299 | 14.284 | 14.332 | VV | 1579 | 26584 | 0.40% | 0.030% |
| 264 | 14.340 | 14.332 | 14.347 | VV | 539 | 4814 | 0.07% | 0.005% |
| 265 | 14.386 | 14.347 | 14.394 | VV | 1068 | 21528 | 0.32% | 0.024% |
| 266 | 14.404 | 14.394 | 14.420 | VV | 1070 | 13004 | 0.20% | 0.015% |
| 267 | 14.443 | 14.420 | 14.453 | VV | 1021 | 13696 | 0.21% | 0.015% |
| 268 | 14.482 | 14.453 | 14.499 | VV | 2169 | 34319 | 0.52% | 0.039% |
| 269 | 14.505 | 14.499 | 14.514 | VV | 1093 | 8492 | 0.13% | 0.010% |
| 270 | 14.517 | 14.514 | 14.523 | VV | 943 | 4978 | 0.07% | 0.006% |
| 271 | 14.544 | 14.523 | 14.567 | VV | 4737 | 64389 | 0.97% | 0.073% |
| 272 | 14.598 | 14.567 | 14.627 | VV | 1609 | 35357 | 0.53% | 0.040% |
| 273 | 14.669 | 14.627 | 14.682 | VV | 921 | 17855 | 0.27% | 0.020% |
| 274 | 14.693 | 14.682 | 14.699 | VV | 802 | 7472 | 0.11% | 0.008% |
| 275 | 14.707 | 14.699 | 14.711 | VV | 912 | 6522 | 0.10% | 0.007% |
| 276 | 14.727 | 14.711 | 14.738 | VV | 1148 | 15310 | 0.23% | 0.017% |
| 277 | 14.757 | 14.738 | 14.780 | VV | 2808 | 39396 | 0.59% | 0.044% |
| 278 | 14.786 | 14.780 | 14.796 | VV | 406 | 3749 | 0.06% | 0.004% |
| 279 | 14.805 | 14.796 | 14.824 | VV | 559 | 7056 | 0.11% | 0.008% |
| 280 | 14.859 | 14.824 | 14.879 | VV | 252949 | 3110285 | 46.72% | 3.503% |
| 281 | 14.902 | 14.879 | 14.978 | VV | 288163 | 3410205 | 51.22% | 3.840% |
| 282 | 14.982 | 14.978 | 14.985 | VV | 361 | 1506 | 0.02% | 0.002% |
| 283 | 15.017 | 14.985 | 15.037 | VV | 3614 | 49399 | 0.74% | 0.056% |
| 284 | 15.055 | 15.037 | 15.073 | VV | 840 | 12650 | 0.19% | 0.014% |
| 285 | 15.092 | 15.073 | 15.112 | VV | 1520 | 20832 | 0.31% | 0.023% |
| 286 | 15.117 | 15.112 | 15.129 | VV | 464 | 4021 | 0.06% | 0.005% |
| 287 | 15.149 | 15.129 | 15.170 | VV | 1128 | 18521 | 0.28% | 0.021% |
| 288 | 15.193 | 15.170 | 15.206 | VV | 1039 | 17234 | 0.26% | 0.019% |
| 289 | 15.214 | 15.206 | 15.267 | VV | 822 | 16389 | 0.25% | 0.018% |
| 290 | 15.300 | 15.267 | 15.359 | VV | 4250 | 105975 | 1.59% | 0.119% |
| 291 | 15.363 | 15.359 | 15.393 | VV | 787 | 10753 | 0.16% | 0.012% |
| 292 | 15.456 | 15.393 | 15.474 | VV | 1769 | 46189 | 0.69% | 0.052% |
| 293 | 15.480 | 15.474 | 15.501 | VV | 1146 | 13658 | 0.21% | 0.015% |
| 294 | 15.524 | 15.501 | 15.545 | VV | 3080 | 43007 | 0.65% | 0.048% |
| 295 | 15.561 | 15.545 | 15.590 | VV | 1803 | 28651 | 0.43% | 0.032% |
| 296 | 15.604 | 15.590 | 15.620 | VV | 1164 | 15463 | 0.23% | 0.017% |
| 297 | 15.668 | 15.620 | 15.675 | VV | 1814 | 36107 | 0.54% | 0.041% |
| 298 | 15.683 | 15.675 | 15.719 | VV | 2087 | 36129 | 0.54% | 0.041% |
| 299 | 15.734 | 15.719 | 15.740 | VV | 726 | 7269 | 0.11% | 0.008% |

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|---|---|---|---|---|---|---|---|---|
| 300 | 15.764 | 15.740 | 15.788 | VV | 1606 | 28137 | 0.42% | 0.032% |
| 301 | 15.800 | 15.788 | 15.808 | VV | 646 | 7041 | 0.11% | 0.008% |
| 302 | 15.812 | 15.808 | 15.824 | VV | 672 | 4747 | 0.07% | 0.005% |
| 303 | 15.847 | 15.824 | 15.859 | VV | 777 | 12236 | 0.18% | 0.014% |
| 304 | 15.874 | 15.859 | 15.892 | VV | 1176 | 15123 | 0.23% | 0.017% |
| 305 | 15.938 | 15.892 | 15.972 | VV | 24049 | 321963 | 4.84% | 0.363% |
| 306 | 15.996 | 15.972 | 16.005 | VV | 520 | 6311 | 0.09% | 0.007% |
| 307 | 16.008 | 16.005 | 16.013 | VV | 426 | 1223 | 0.02% | 0.001% |
| 308 | 16.019 | 16.013 | 16.026 | VV | 315 | 1696 | 0.03% | 0.002% |
| 309 | 16.034 | 16.026 | 16.040 | VV | 259 | 1359 | 0.02% | 0.002% |
| 310 | 16.054 | 16.040 | 16.059 | VV | 202 | 1187 | 0.02% | 0.001% |
| 311 | 16.066 | 16.059 | 16.077 | PV | 213 | 1453 | 0.02% | 0.002% |
| 312 | 16.084 | 16.077 | 16.097 | VV | 333 | 3371 | 0.05% | 0.004% |
| 313 | 16.134 | 16.097 | 16.143 | VV | 843 | 17357 | 0.26% | 0.020% |
| 314 | 16.146 | 16.143 | 16.171 | VV | 580 | 6433 | 0.10% | 0.007% |
| 315 | 16.192 | 16.171 | 16.209 | PV | 524 | 5122 | 0.08% | 0.006% |
| 316 | 16.232 | 16.209 | 16.255 | VV | 818 | 12243 | 0.18% | 0.014% |
| 317 | 16.275 | 16.255 | 16.282 | VV | 552 | 6459 | 0.10% | 0.007% |
| 318 | 16.327 | 16.282 | 16.363 | VV | 1276 | 33263 | 0.50% | 0.037% |
| 319 | 16.409 | 16.363 | 16.425 | VV | 235796 | 3035183 | 45.59% | 3.418% |
| 320 | 16.442 | 16.425 | 16.476 | VV | 262608 | 2917247 | 43.82% | 3.285% |
| 321 | 16.500 | 16.476 | 16.519 | VV | 1392 | 25055 | 0.38% | 0.028% |
| 322 | 16.541 | 16.519 | 16.631 | VV | 4378 | 104257 | 1.57% | 0.117% |
| 323 | 16.656 | 16.631 | 16.675 | VV | 1841 | 25673 | 0.39% | 0.029% |
| 324 | 16.726 | 16.675 | 16.754 | VV | 8569 | 130044 | 1.95% | 0.146% |
| 325 | 16.789 | 16.754 | 16.825 | VV | 240711 | 2888494 | 43.39% | 3.253% |
| 326 | 16.885 | 16.825 | 16.917 | VV | 27998 | 382678 | 5.75% | 0.431% |
| 327 | 16.934 | 16.917 | 16.973 | VV | 1524 | 29316 | 0.44% | 0.033% |
| 328 | 16.981 | 16.973 | 16.987 | VV | 412 | 2932 | 0.04% | 0.003% |
| 329 | 17.032 | 16.987 | 17.068 | VV | 1093 | 33297 | 0.50% | 0.037% |
| 330 | 17.090 | 17.068 | 17.105 | VV | 612 | 8381 | 0.13% | 0.009% |
| 331 | 17.151 | 17.105 | 17.187 | VV | 1735 | 48797 | 0.73% | 0.055% |
| 332 | 17.191 | 17.187 | 17.222 | VV | 871 | 11131 | 0.17% | 0.013% |
| 333 | 17.245 | 17.222 | 17.263 | VV | 815 | 14734 | 0.22% | 0.017% |
| 334 | 17.278 | 17.263 | 17.293 | VV | 1254 | 18552 | 0.28% | 0.021% |
| 335 | 17.307 | 17.293 | 17.315 | VV | 1264 | 14650 | 0.22% | 0.016% |
| 336 | 17.335 | 17.315 | 17.359 | VV | 2390 | 39008 | 0.59% | 0.044% |
| 337 | 17.368 | 17.359 | 17.379 | VV | 930 | 9360 | 0.14% | 0.011% |
| 338 | 17.393 | 17.379 | 17.415 | VV | 836 | 11752 | 0.18% | 0.013% |
| 339 | 17.438 | 17.415 | 17.464 | VV | 1537 | 24277 | 0.36% | 0.027% |
| 340 | 17.479 | 17.464 | 17.497 | VV | 838 | 9802 | 0.15% | 0.011% |
| 341 | 17.516 | 17.497 | 17.535 | VV | 655 | 10175 | 0.15% | 0.011% |
| 342 | 17.552 | 17.535 | 17.576 | VV | 599 | 8086 | 0.12% | 0.009% |
| 343 | 17.588 | 17.576 | 17.604 | VV | 268 | 1905 | 0.03% | 0.002% |
| 344 | 17.623 | 17.604 | 17.645 | VV | 462 | 6499 | 0.10% | 0.007% |
| 345 | 17.665 | 17.645 | 17.677 | PV | 459 | 4309 | 0.06% | 0.005% |
| 346 | 17.709 | 17.677 | 17.714 | VV | 457 | 6942 | 0.10% | 0.008% |
| 347 | 17.770 | 17.714 | 17.807 | VV | 23581 | 329445 | 4.95% | 0.371% |
| 348 | 17.833 | 17.807 | 17.839 | VV | 466 | 6223 | 0.09% | 0.007% |
| 349 | 17.864 | 17.839 | 17.887 | VV | 1016 | 20004 | 0.30% | 0.023% |
| 350 | 17.910 | 17.887 | 17.922 | VV | 960 | 14914 | 0.22% | 0.017% |
| 351 | 17.936 | 17.922 | 17.979 | VV | 1152 | 27108 | 0.41% | 0.031% |

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|---|---|---|---|---|---|---|---|---|
| 352 | 17.990 | 17.979 | 18.024 | VV | 622 | 11557 | 0.17% | 0.013% |
| 353 | 18.056 | 18.024 | 18.079 | VV | 2194 | 37095 | 0.56% | 0.042% |
| 354 | 18.085 | 18.079 | 18.105 | VV | 732 | 8635 | 0.13% | 0.010% |
| 355 | 18.153 | 18.105 | 18.171 | VV | 227202 | 2958632 | 44.44% | 3.332% |
| 356 | 18.193 | 18.171 | 18.225 | VV | 228273 | 2788128 | 41.88% | 3.140% |
| 357 | 18.229 | 18.225 | 18.252 | VV | 1329 | 14271 | 0.21% | 0.016% |
| 358 | 18.281 | 18.252 | 18.296 | VV | 2118 | 31554 | 0.47% | 0.036% |
| 359 | 18.311 | 18.296 | 18.353 | VV | 1875 | 36421 | 0.55% | 0.041% |
| 360 | 18.358 | 18.353 | 18.367 | VV | 621 | 4841 | 0.07% | 0.005% |
| 361 | 18.409 | 18.367 | 18.473 | VV | 214779 | 2768118 | 41.58% | 3.117% |
| 362 | 18.484 | 18.473 | 18.504 | VV | 965 | 12945 | 0.19% | 0.015% |
| 363 | 18.530 | 18.504 | 18.555 | VV | 2803 | 42898 | 0.64% | 0.048% |
| 364 | 18.600 | 18.555 | 18.670 | VV | 22467 | 332399 | 4.99% | 0.374% |
| 365 | 18.704 | 18.670 | 18.734 | VV | 737 | 14186 | 0.21% | 0.016% |
| 366 | 18.746 | 18.734 | 18.753 | VV | 429 | 2765 | 0.04% | 0.003% |
| 367 | 18.759 | 18.753 | 18.780 | VV | 425 | 5111 | 0.08% | 0.006% |
| 368 | 18.830 | 18.788 | 18.847 | PV | 750 | 13737 | 0.21% | 0.015% |
| 369 | 18.855 | 18.847 | 18.865 | VV | 523 | 4067 | 0.06% | 0.005% |
| 370 | 18.874 | 18.865 | 18.889 | VV | 421 | 4381 | 0.07% | 0.005% |
| 371 | 18.908 | 18.889 | 18.922 | PV | 268 | 2819 | 0.04% | 0.003% |
| 372 | 18.962 | 18.922 | 18.977 | PV | 1241 | 10962 | 0.16% | 0.012% |
| | | | Sum of corrected areas: | | | 88799371 | | |

Aromatic EPH 052425.M Fri Jun 13 22:45:29 2025

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

# Manual Integration Report

| Sequence: | FC052425AL | Instrument | FID_c |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| 20 PPM ALIPHATIC HC | FC069003.D | n-Octacosane (C28) | yogesh | 5/27/2025 7:30:02 AM | mohammad | 5/28/2025 1:48:12 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069003.D | n-Tetracosane (C24) | yogesh | 5/27/2025 7:30:02 AM | mohammad | 5/28/2025 1:48:12 | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | FC060925AL | Instrument | FID_c |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| 20 PPM ALIPHATIC HC | FC069133.D | n-Octacosane (C28) | yogesh | 6/10/2025 7:52:28 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069133.D | n-Octadecane (C18) | yogesh | 6/10/2025 7:52:28 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069133.D | n-Tetracontane (C40) | yogesh | 6/10/2025 7:52:28 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |
| PB168324BS | FC069135.D | n-Octadecane (C18) | yogesh | 6/10/2025 7:52:30 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |
| PB168324BS | FC069135.D | n-Tetracontane (C40) | yogesh | 6/10/2025 7:52:30 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |
| PB168324BSD | FC069136.D | n-Octadecane (C18) | yogesh | 6/10/2025 7:52:32 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |
| PB168324BSD | FC069136.D | n-Tetracontane (C40) | yogesh | 6/10/2025 7:52:32 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069140.D | n-Octadecane (C18) | yogesh | 6/10/2025 7:52:33 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069140.D | n-Tetracontane (C40) | yogesh | 6/10/2025 7:52:33 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069140.D | n-Tetracosane (C24) | yogesh | 6/10/2025 7:52:33 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |
| PB168341BS | FC069142.D | n-Decane (C10) | yogesh | 6/10/2025 7:52:35 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |
| PB168341BSD | FC069143.D | n-Decane (C10) | yogesh | 6/10/2025 7:52:37 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |
| PB168341BSD | FC069143.D | n-Tetracontane (C40) | yogesh | 6/10/2025 7:52:37 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | FC060925AL | Instrument | FID_c |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q2265-01MS | FC069146.D | n-Decane (C10) | yogesh | 6/10/2025 7:52:39 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |
| Q2265-01MSD | FC069147.D | n-Decane (C10) | yogesh | 6/10/2025 7:52:41 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |
| Q2265-01MSD | FC069147.D | n-Tetracontane (C40) | yogesh | 6/10/2025 7:52:41 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069150.D | n-Tetracontane (C40) | yogesh | 6/10/2025 7:52:43 AM | mohammad | 6/11/2025 2:15:53 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FC061125AL | Instrument | FID_c |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| 20 PPM ALIPHATIC HC | FC069156.D | n-Octacosane (C28) | yogesh | 6/12/2025 11:34:52 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069156.D | n-Octadecane (C18) | yogesh | 6/12/2025 11:34:52 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069156.D | n-Tetracontane (C40) | yogesh | 6/12/2025 11:34:52 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| PB168408BS | FC069158.D | n-Tetracontane (C40) | yogesh | 6/12/2025 11:34:54 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| PB168408BSD | FC069159.D | n-Octadecane (C18) | yogesh | 6/12/2025 11:34:56 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| PB168408BSD | FC069159.D | n-Tetracontane (C40) | yogesh | 6/12/2025 11:34:56 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2126-01 | FC069160.D | n-Decane (C10) | yogesh | 6/12/2025 11:34:58 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2126-01 | FC069160.D | n-Tetracontane (C40) | yogesh | 6/12/2025 11:34:58 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2126-01 | FC069161.D | n-Decane (C10) | yogesh | 6/12/2025 11:35:00 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2126-01 | FC069161.D | n-Tetracontane (C40) | yogesh | 6/12/2025 11:35:00 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2126-02 | FC069162.D | n-Decane (C10) | yogesh | 6/12/2025 11:35:02 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2126-02 | FC069162.D | n-Tetracontane (C40) | yogesh | 6/12/2025 11:35:02 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2177-02MS | FC069165.D | n-Decane (C10) | yogesh | 6/12/2025 11:35:04 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FC061125AL | Instrument | FID_c |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q2177-02MS | FC069165.D | n-Tetracontane (C40) | yogesh | 6/12/2025 11:35:04 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2177-02MSD | FC069166.D | n-Decane (C10) | yogesh | 6/12/2025 11:35:08 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2177-02MSD | FC069166.D | n-Tetracontane (C40) | yogesh | 6/12/2025 11:35:08 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069168.D | n-Octacosane (C28) | yogesh | 6/12/2025 11:35:11 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069168.D | n-Tetracontane (C40) | yogesh | 6/12/2025 11:35:11 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069168.D | n-Tetracosane (C24) | yogesh | 6/12/2025 11:35:11 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069174.D | n-Octadecane (C18) | yogesh | 6/12/2025 11:35:13 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069174.D | n-Tetracontane (C40) | yogesh | 6/12/2025 11:35:13 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069174.D | n-Tetracosane (C24) | yogesh | 6/12/2025 11:35:13 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2126-07 | FC069176.D | n-Decane (C10) | yogesh | 6/12/2025 11:35:14 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2126-07 | FC069176.D | n-Nonane (C9) | yogesh | 6/12/2025 11:35:14 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2126-07 | FC069176.D | n-Tetracontane (C40) | yogesh | 6/12/2025 11:35:14 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2126-07 | FC069177.D | n-Decane (C10) | yogesh | 6/12/2025 11:35:44 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FC061125AL | Instrument | FID_c |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q2126-07 | FC069177.D | n-Hexadecane (C16) | yogesh | 6/12/2025 11:35:44 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2126-07 | FC069177.D | n-Tetracontane (C40) | yogesh | 6/12/2025 11:35:44 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2126-08 | FC069178.D | n-Decane (C10) | yogesh | 6/12/2025 11:35:46 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2126-08 | FC069178.D | n-Hexadecane (C16) | yogesh | 6/12/2025 11:35:46 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| Q2126-08 | FC069178.D | n-Tetracontane (C40) | yogesh | 6/12/2025 11:35:46 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069180.D | n-Tetracontane (C40) | yogesh | 6/12/2025 11:35:48 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069180.D | n-Tetracosane (C24) | yogesh | 6/12/2025 11:35:48 AM | mohammad | 6/13/2025 1:40:04 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FC061225AL | Instrument | FID_c |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| 20 PPM ALIPHATIC HC | FC069183.D | n-Octacosane (C28) | yogesh | 6/13/2025 7:21:40 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069183.D | n-Octadecane (C18) | yogesh | 6/13/2025 7:21:40 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069183.D | n-Tetracontane (C40) | yogesh | 6/13/2025 7:21:40 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069183.D | n-Tetracosane (C24) | yogesh | 6/13/2025 7:21:40 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| Q2177-02MS | FC069188.D | n-Tetracontane (C40) | yogesh | 6/13/2025 7:21:42 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| Q2177-02MSD | FC069189.D | n-Tetracontane (C40) | yogesh | 6/13/2025 7:21:44 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069191.D | n-Hexacosane (C26) | yogesh | 6/13/2025 7:21:45 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069191.D | n-Octatriacontane (C38) | yogesh | 6/13/2025 7:21:45 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069191.D | n-Tetracontane (C40) | yogesh | 6/13/2025 7:21:45 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069191.D | n-Tetracosane (C24) | yogesh | 6/13/2025 7:21:45 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| PB168441BS | FC069193.D | n-Decane (C10) | yogesh | 6/13/2025 7:21:47 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| PB168441BS | FC069193.D | n-Tetracontane (C40) | yogesh | 6/13/2025 7:21:47 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| PB168441BSD | FC069194.D | n-Decane (C10) | yogesh | 6/13/2025 7:21:49 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FC061225AL | Instrument | FID_c |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PB168441BSD | FC069194.D | n-Tetracontane (C40) | yogesh | 6/13/2025 7:21:49 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| Q2126-03 | FC069196.D | n-Docosane (C22) | yogesh | 6/13/2025 7:21:50 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| Q2126-03 | FC069196.D | n-Dodecane (C12) | yogesh | 6/13/2025 7:21:50 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| Q2126-03 | FC069196.D | n-Hexadecane (C16) | yogesh | 6/13/2025 7:21:50 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| Q2126-03 | FC069196.D | n-Octadecane (C18) | yogesh | 6/13/2025 7:21:50 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| Q2126-03 | FC069196.D | n-Tetracontane (C40) | yogesh | 6/13/2025 7:21:50 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| Q2126-09 | FC069197.D | n-Tetracontane (C40) | yogesh | 6/13/2025 7:21:52 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| Q2126-09 | FC069197.D | n-Tetracosane (C24) | yogesh | 6/13/2025 7:21:52 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069200.D | n-Octadecane (C18) | yogesh | 6/13/2025 7:21:54 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069200.D | n-Tetracontane (C40) | yogesh | 6/13/2025 7:21:54 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FC069200.D | n-Tetracosane (C24) | yogesh | 6/13/2025 7:21:54 AM | mohammad | 6/16/2025 2:08:18 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FD052425AR | Instrument | FID_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| 100 PPM AROMATIC HC | FD049394.D | Bnezo[k]fluoranthene (C30.14) | yogesh | 5/27/2025 7:30:09 AM | mohammad | 5/28/2025 1:48:35 | Peak Integrated by Software |
| 100 PPM AROMATIC HC | FD049394.D | Dibenz[a,h]anthracene (C30.36) | yogesh | 5/27/2025 7:30:09 AM | mohammad | 5/28/2025 1:48:35 | Peak Integrated by Software |
| 100 PPM AROMATIC HC | FD049394.D | Fluoranthene (C21.85) | yogesh | 5/27/2025 7:30:09 AM | mohammad | 5/28/2025 1:48:35 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FD060925AR | Instrument | FID_d |
|---|---|---|---|

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

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# Manual Integration Report

| Sequence: | FD061125AR | Instrument | FID_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q2126-02 | FD049437.D | 1,2,3-Trimethylbenzene (C10.1) | yogesh | 6/12/2025 11:36:32 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-02 | FD049437.D | 2-Methylnaphthalene (C12.89) | yogesh | 6/12/2025 11:36:32 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-02 | FD049437.D | Acenaphthene (C15.5) | yogesh | 6/12/2025 11:36:32 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-02 | FD049437.D | Acenaphthylene (C15.06) | yogesh | 6/12/2025 11:36:32 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-02 | FD049437.D | Naphthalene (C11.7) | yogesh | 6/12/2025 11:36:32 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2177-04 | FD049444.D | 2-Flurobiphenyl (SURR) | yogesh | 6/12/2025 11:36:34 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-07 | FD049452.D | 1,2,3-Trimethylbenzene (C10.1) | yogesh | 6/12/2025 11:36:35 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-07 | FD049452.D | 2-Methylnaphthalene (C12.89) | yogesh | 6/12/2025 11:36:35 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-07 | FD049452.D | Acenaphthene (C15.5) | yogesh | 6/12/2025 11:36:35 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-07 | FD049452.D | Acenaphthylene (C15.06) | yogesh | 6/12/2025 11:36:35 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-07 | FD049452.D | Anthracene (C19.43) | yogesh | 6/12/2025 11:36:35 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-07 | FD049452.D | Benzo[a]anthracene (C26.37) | yogesh | 6/12/2025 11:36:35 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-07 | FD049452.D | Benzo[a]pyrene (C31.34) | yogesh | 6/12/2025 11:36:35 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FD061125AR | Instrument | FID_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q2126-07 | FD049452.D | benzo[b]fluoranthene (C30.41) | yogesh | 6/12/2025 11:36:35 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-07 | FD049452.D | Benzo[g,h,i]perylene (C34.01) | yogesh | 6/12/2025 11:36:35 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-07 | FD049452.D | Bnezo[k]fluoranthene (C30.14) | yogesh | 6/12/2025 11:36:35 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-07 | FD049452.D | Indeno[1,2,3-cd]pyrene (C35.01) | yogesh | 6/12/2025 11:36:35 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-07 | FD049452.D | Naphthalene (C11.7) | yogesh | 6/12/2025 11:36:35 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-07 | FD049452.D | Phenanthrene (C19.36) | yogesh | 6/12/2025 11:36:35 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |
| Q2126-07 | FD049452.D | Pyrene (C20.8) | yogesh | 6/12/2025 11:36:35 AM | mohammad | 6/13/2025 1:40:17 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FD061225AR | Instrument | FID_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q2126-03 | FD049468.D | Phenanthrene (C19.36) | yogesh | 6/13/2025 7:23:37 AM | mohammad | 6/16/2025 2:08:44 | Peak Integrated by Software |
| Q2286-03 | FD049470.D | ortho-Terphenyl (SURR) | yogesh | 6/13/2025 7:23:39 AM | mohammad | 6/16/2025 2:08:44 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | FD061325AR | Instrument | FID_d |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q2286-03DL | FD049486.D | 2-Bromonaphthalene (SURR) | yogesh | 6/16/2025 8:10:26 AM | mohammad | 6/16/2025 8:33:02 | Peak Integrated by Software |
| Q2286-03DL | FD049486.D | 2-Flurobiphenyl (SURR) | yogesh | 6/16/2025 8:10:26 AM | mohammad | 6/16/2025 8:33:02 | Peak Integrated by Software |
| Q2286-03DL | FD049486.D | ortho-Terphenyl (SURR) | yogesh | 6/16/2025 8:10:26 AM | mohammad | 6/16/2025 8:33:02 | Peak Integrated by Software |

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**Instrument ID: FID_C**

## Daily Analysis Runlog For Sequence/QCBatch ID # FC052425AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 5/23/2025 12:24:51 PM | | |
| Supervise By | mohammad | Supervise On | 5/28/2025 1:48:12 AM | | |
| SubDirectory | FC052425AL | HP Acquire Method | | HP Processing Method | FC052425AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24170,PP24175,PP24176,PP24177,PP24178 |
| CCC | PP24176 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24174,PP24179 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FC068996.D | 23 May 2025 12:58 | YP/AJ | Ok |
| 2 | I.BLK | FC068997.D | 23 May 2025 13:35 | YP/AJ | Ok |
| 3 | 100 PPM ALIPHATIC HC STD1 | FC068998.D | 23 May 2025 14:12 | YP/AJ | Ok |
| 4 | 50 PPM ALIPHATIC HC STD2 | FC068999.D | 23 May 2025 14:50 | YP/AJ | Ok |
| 5 | 20 PPM ALIPHATIC HC STD3 | FC069000.D | 23 May 2025 15:28 | YP/AJ | Ok |
| 6 | 10 PPM ALIPHATIC HC STD4 | FC069001.D | 23 May 2025 16:05 | YP/AJ | Ok |
| 7 | 5 PPM ALIPHATIC HC STD5 | FC069002.D | 23 May 2025 16:43 | YP/AJ | Ok |
| 8 | 20 PPM ALIPHATIC HC STD ICV | FC069003.D | 23 May 2025 17:20 | YP/AJ | Ok,M |
| 9 | I.BLK | FC069004.D | 23 May 2025 18:36 | YP/AJ | Ok |
| 10 | 20 PPM ALIPHATIC HC STD | FC069005.D | 23 May 2025 19:13 | YP/AJ | Ok |

M : Manual Integration

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**Instrument ID: FID_C**

## Daily Analysis Runlog For Sequence/QCBatch ID # FC060925AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/9/2025 12:18:01 PM | | |
| Supervise By | mohammad | Supervise On | 6/11/2025 2:15:53 AM | | |
| SubDirectory | FC060925AL | HP Acquire Method | | HP Processing Method | FC052425AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24170,PP24175,PP24176,PP24177,PP24178 |
| CCC | PP24176 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24174,PP24179 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FC069131.D | 09 Jun 2025 09:27 | YP/AJ | Ok |
| 2 | I.BLK | FC069132.D | 09 Jun 2025 10:07 | YP/AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC STD | FC069133.D | 09 Jun 2025 12:17 | YP/AJ | Ok,M |
| 4 | PB168324BL | FC069134.D | 09 Jun 2025 16:17 | YP/AJ | Ok |
| 5 | PB168324BS | FC069135.D | 09 Jun 2025 16:57 | YP/AJ | Ok,M |
| 6 | PB168324BSD | FC069136.D | 09 Jun 2025 17:37 | YP/AJ | Ok,M |
| 7 | Q2177-08 | FC069137.D | 09 Jun 2025 18:17 | YP/AJ | Ok |
| 8 | Q2198-05 | FC069138.D | 09 Jun 2025 18:58 | YP/AJ | Ok |
| 9 | I.BLK | FC069139.D | 09 Jun 2025 20:20 | YP/AJ | Ok |
| 10 | 20 PPM ALIPHATIC HC STD | FC069140.D | 09 Jun 2025 21:41 | YP/AJ | Ok,M |
| 11 | PB168341BL | FC069141.D | 09 Jun 2025 22:21 | YP/AJ | Ok |
| 12 | PB168341BS | FC069142.D | 09 Jun 2025 23:02 | YP/AJ | Ok,M |
| 13 | PB168341BSD | FC069143.D | 09 Jun 2025 23:41 | YP/AJ | Ok,M |
| 14 | Q2265-01 | FC069144.D | 10 Jun 2025 00:21 | YP/AJ | Ok |
| 15 | Q2265-01D | FC069145.D | 10 Jun 2025 01:00 | YP/AJ | Ok |
| 16 | Q2265-01MS | FC069146.D | 10 Jun 2025 01:39 | YP/AJ | Ok,M |
| 17 | Q2265-01MSD | FC069147.D | 10 Jun 2025 02:19 | YP/AJ | Ok,M |
| 18 | Q2265-03 | FC069148.D | 10 Jun 2025 02:58 | YP/AJ | Ok |
| 19 | I.BLK | FC069149.D | 10 Jun 2025 04:16 | YP/AJ | Ok |
| 20 | 20 PPM ALIPHATIC HC STD | FC069150.D | 10 Jun 2025 04:55 | YP/AJ | Ok,M |

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**Instrument ID: FID_C**

## Daily Analysis Runlog For Sequence/QCBatch ID # FC061125AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/11/2025 3:08:31 PM | | |
| Supervise By | mohammad | Supervise On | 6/13/2025 1:40:04 AM | | |
| SubDirectory | FC061125AL | HP Acquire Method | | HP Processing Method | FC052425AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24170,PP24175,PP24176,PP24177,PP24178 |
| CCC | PP24176 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24174,PP24179 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FC069154.D | 11 Jun 2025 10:11 | YP/AJ | Ok |
| 2 | I.BLK | FC069155.D | 11 Jun 2025 10:51 | YP/AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC STD | FC069156.D | 11 Jun 2025 12:12 | YP/AJ | Ok,M |
| 4 | PB168408BL | FC069157.D | 11 Jun 2025 16:33 | YP/AJ | Ok |
| 5 | PB168408BS | FC069158.D | 11 Jun 2025 17:15 | YP/AJ | Ok,M |
| 6 | PB168408BSD | FC069159.D | 11 Jun 2025 17:57 | YP/AJ | Ok,M |
| 7 | Q2126-01 | FC069160.D | 11 Jun 2025 18:39 | YP/AJ | Ok,M |
| 8 | Q2126-01 | FC069161.D | 11 Jun 2025 19:23 | YP/AJ | Ok,M |
| 9 | Q2126-02 | FC069162.D | 11 Jun 2025 20:05 | YP/AJ | Ok,M |
| 10 | Q2177-02 | FC069163.D | 11 Jun 2025 20:47 | YP/AJ | Not Ok |
| 11 | Q2177-02D | FC069164.D | 11 Jun 2025 21:28 | YP/AJ | Not Ok |
| 12 | Q2177-02MS | FC069165.D | 11 Jun 2025 22:09 | YP/AJ | Ok,M |
| 13 | Q2177-02MSD | FC069166.D | 11 Jun 2025 22:50 | YP/AJ | Ok,M |
| 14 | I.BLK | FC069167.D | 11 Jun 2025 23:29 | YP/AJ | Ok |
| 15 | 20 PPM ALIPHATIC HC STD | FC069168.D | 12 Jun 2025 00:09 | YP/AJ | Ok,M |
| 16 | Q2177-04 | FC069169.D | 12 Jun 2025 01:28 | YP/AJ | Not Ok |
| 17 | Q2177-06 | FC069170.D | 12 Jun 2025 02:08 | YP/AJ | Not Ok |
| 18 | Q2198-01 | FC069171.D | 12 Jun 2025 02:48 | YP/AJ | Ok |
| 19 | Q2198-03 | FC069172.D | 12 Jun 2025 03:27 | YP/AJ | Ok |
| 20 | I.BLK | FC069173.D | 12 Jun 2025 04:07 | YP/AJ | Ok |
| 21 | 20 PPM ALIPHATIC HC STD | FC069174.D | 12 Jun 2025 04:46 | YP/AJ | Ok,M |

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**Instrument ID: FID_C**

## Daily Analysis Runlog For Sequence/QCBatch ID # FC061125AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/11/2025 3:08:31 PM | | |
| Supervise By | mohammad | Supervise On | 6/13/2025 1:40:04 AM | | |
| SubDirectory | FC061125AL | HP Acquire Method | | HP Processing Method | FC052425AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24170,PP24175,PP24176,PP24177,PP24178 |
| CCC | PP24176 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24174,PP24179 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | PB168409BL | FC069175.D | 12 Jun 2025 06:04 | YP/AJ | Ok |
| 23 | Q2126-07 | FC069176.D | 12 Jun 2025 06:44 | YP/AJ | Ok,M |
| 24 | Q2126-07 | FC069177.D | 12 Jun 2025 07:23 | YP/AJ | Ok,M |
| 25 | Q2126-08 | FC069178.D | 12 Jun 2025 08:02 | YP/AJ | Ok,M |
| 26 | I.BLK | FC069179.D | 12 Jun 2025 08:41 | YP/AJ | Ok |
| 27 | 20 PPM ALIPHATIC HC STD | FC069180.D | 12 Jun 2025 09:21 | YP/AJ | Ok,M |

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**Instrument ID: FID_C**

## Daily Analysis Runlog For Sequence/QCBatch ID # FC061225AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/12/2025 12:40:53 PM | | |
| Supervise By | mohammad | Supervise On | 6/16/2025 2:08:18 AM | | |
| SubDirectory | FC061225AL | HP Acquire Method | | HP Processing Method | FC052425AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24170,PP24175,PP24176,PP24177,PP24178 |
| CCC | PP24176 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24174,PP24179 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FC069181.D | 12 Jun 2025 10:41 | YP/AJ | Ok |
| 2 | I.BLK | FC069182.D | 12 Jun 2025 11:21 | YP/AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC STD | FC069183.D | 12 Jun 2025 12:02 | YP/AJ | Ok,M |
| 4 | Q2177-02 | FC069184.D | 12 Jun 2025 12:59 | YP/AJ | Ok |
| 5 | Q2177-06 | FC069185.D | 12 Jun 2025 13:40 | YP/AJ | Ok |
| 6 | Q2177-04 | FC069186.D | 12 Jun 2025 14:21 | YP/AJ | Ok |
| 7 | Q2177-02D | FC069187.D | 12 Jun 2025 15:02 | YP/AJ | Ok |
| 8 | Q2177-02MS | FC069188.D | 12 Jun 2025 15:44 | YP/AJ | Not Ok |
| 9 | Q2177-02MSD | FC069189.D | 12 Jun 2025 16:26 | YP/AJ | Not Ok |
| 10 | I.BLK | FC069190.D | 12 Jun 2025 17:08 | YP/AJ | Ok |
| 11 | 20 PPM ALIPHATIC HC STD | FC069191.D | 12 Jun 2025 19:18 | YP/AJ | Ok,M |
| 12 | PB168441BL | FC069192.D | 12 Jun 2025 21:22 | YP/AJ | Ok |
| 13 | PB168441BS | FC069193.D | 12 Jun 2025 22:03 | YP/AJ | Ok,M |
| 14 | PB168441BSD | FC069194.D | 12 Jun 2025 22:44 | YP/AJ | Ok,M |
| 15 | PB148442BL | FC069195.D | 12 Jun 2025 23:24 | YP/AJ | Ok |
| 16 | Q2126-03 | FC069196.D | 13 Jun 2025 00:04 | YP/AJ | Ok,M |
| 17 | Q2126-09 | FC069197.D | 13 Jun 2025 00:44 | YP/AJ | Ok,M |
| 18 | Q2286-03 | FC069198.D | 13 Jun 2025 01:24 | YP/AJ | Dilution |
| 19 | I.BLK | FC069199.D | 13 Jun 2025 02:42 | YP/AJ | Ok |
| 20 | 20 PPM ALIPHATIC HC STD | FC069200.D | 13 Jun 2025 03:21 | YP/AJ | Ok,M |

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**Instrument ID: FID_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # FD052425AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 5/23/2025 12:26:08 PM | | |
| Supervise By | mohammad | Supervise On | 5/28/2025 1:48:35 AM | | |
| SubDirectory | FD052425AR | HP Acquire Method | | HP Processing Method | FD052425AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24500,PP24502,PP24503,PP24504,PP24505 |
| CCC | PP24503 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24501,PP24506 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FD049392.D | 23 May 2025 13:35 | YP/AJ | Ok |
| 2 | I.BLK | FD049393.D | 23 May 2025 14:12 | YP/AJ | Ok |
| 3 | 100 PPM AROMATIC HC STD1 | FD049394.D | 23 May 2025 14:50 | YP/AJ | Ok,M |
| 4 | 50 PPM AROMATIC HC STD2 | FD049395.D | 23 May 2025 15:28 | YP/AJ | Ok |
| 5 | 20 PPM AROMATIC HC STD3 | FD049396.D | 23 May 2025 16:05 | YP/AJ | Ok |
| 6 | 10 PPM AROMATIC HC STD4 | FD049397.D | 23 May 2025 16:43 | YP/AJ | Ok |
| 7 | 5 PPM AROMATIC HC STD5 | FD049398.D | 23 May 2025 17:20 | YP/AJ | Ok |
| 8 | 20 PPM AROMATIC HC STD ICV | FD049399.D | 23 May 2025 17:58 | YP/AJ | Ok |
| 9 | I.BLK | FD049400.D | 23 May 2025 19:13 | YP/AJ | Ok |
| 10 | 20 PPM AROMATIC HC STD | FD049401.D | 23 May 2025 19:50 | YP/AJ | Ok |

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**Instrument ID: FID_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # FD060925AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/9/2025 1:09:15 PM | | |
| Supervise By | mohammad | Supervise On | 6/11/2025 2:16:01 AM | | |
| SubDirectory | FD060925AR | HP Acquire Method | | HP Processing Method | FD052425AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24500,PP24502,PP24503,PP24504,PP24505 |
| CCC | PP24503 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24501,PP24506 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FD049412.D | 09 Jun 2025 09:27 | YP/AJ | Ok |
| 2 | I.BLK | FD049413.D | 09 Jun 2025 10:07 | YP/AJ | Ok |
| 3 | 20 PPM AROMATIC HC STD | FD049414.D | 09 Jun 2025 12:17 | YP/AJ | Ok |
| 4 | PB168324BL | FD049415.D | 09 Jun 2025 16:17 | YP/AJ | Ok |
| 5 | PB168324BS | FD049416.D | 09 Jun 2025 16:57 | YP/AJ | Ok |
| 6 | PB168324BSD | FD049417.D | 09 Jun 2025 17:37 | YP/AJ | Ok |
| 7 | Q2177-08 | FD049418.D | 09 Jun 2025 18:17 | YP/AJ | Ok |
| 8 | Q2198-05 | FD049419.D | 09 Jun 2025 18:58 | YP/AJ | Not Ok |
| 9 | I.BLK | FD049420.D | 09 Jun 2025 20:20 | YP/AJ | Ok |
| 10 | 20 PPM AROMATIC HC STD | FD049421.D | 09 Jun 2025 21:01 | YP/AJ | Ok |

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**Instrument ID: FID_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # FD061125AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/11/2025 3:09:24 PM | | |
| Supervise By | mohammad | Supervise On | 6/13/2025 1:40:17 AM | | |
| SubDirectory | FD061125AR | HP Acquire Method | | HP Processing Method | FD052425AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24500,PP24502,PP24503,PP24504,PP24505 |
| CCC | PP24503 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24501,PP24506 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FD049428.D | 11 Jun 2025 10:11 | YP/AJ | Ok |
| 2 | I.BLK | FD049429.D | 11 Jun 2025 10:51 | YP/AJ | Ok |
| 3 | 20 PPM AROMATIC HC STD | FD049430.D | 11 Jun 2025 12:12 | YP/AJ | Ok |
| 4 | PP24647 | FD049431.D | 11 Jun 2025 15:52 | YP/AJ | Ok |
| 5 | PB168408BL | FD049432.D | 11 Jun 2025 16:33 | YP/AJ | Ok |
| 6 | PB168408BS | FD049433.D | 11 Jun 2025 17:15 | YP/AJ | Ok |
| 7 | PB168408BSD | FD049434.D | 11 Jun 2025 17:57 | YP/AJ | Ok |
| 8 | Q2126-01 | FD049435.D | 11 Jun 2025 18:39 | YP/AJ | Ok |
| 9 | Q2126-01 | FD049436.D | 11 Jun 2025 19:23 | YP/AJ | Ok |
| 10 | Q2126-02 | FD049437.D | 11 Jun 2025 20:05 | YP/AJ | Ok,M |
| 11 | Q2177-02 | FD049438.D | 11 Jun 2025 20:47 | YP/AJ | Not Ok |
| 12 | Q2177-02 | FD049438.D | 11 Jun 2025 20:47 | YP/AJ | Not Ok |
| 13 | Q2177-02D | FD049439.D | 11 Jun 2025 21:28 | YP/AJ | Not Ok |
| 14 | Q2177-02MS | FD049440.D | 11 Jun 2025 22:09 | YP/AJ | Not Ok |
| 15 | Q2177-02MSD | FD049441.D | 11 Jun 2025 22:50 | YP/AJ | Not Ok |
| 16 | I.BLK | FD049442.D | 11 Jun 2025 23:29 | YP/AJ | Ok |
| 17 | 20 PPM AROMATIC HC STD | FD049443.D | 12 Jun 2025 00:09 | YP/AJ | Ok |
| 18 | Q2177-04 | FD049444.D | 12 Jun 2025 01:28 | YP/AJ | Not Ok |
| 19 | Q2177-06 | FD049445.D | 12 Jun 2025 02:08 | YP/AJ | Not Ok |
| 20 | Q2198-01 | FD049446.D | 12 Jun 2025 02:48 | YP/AJ | Ok |
| 21 | Q2198-03 | FD049447.D | 12 Jun 2025 03:27 | YP/AJ | Ok |

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**Instrument ID: FID_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # FD061125AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/11/2025 3:09:24 PM | | |
| Supervise By | mohammad | Supervise On | 6/13/2025 1:40:17 AM | | |
| SubDirectory | FD061125AR | HP Acquire Method | | HP Processing Method | FD052425AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24500,PP24502,PP24503,PP24504,PP24505 |
| CCC | PP24503 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24501,PP24506 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | I.BLK | FD049448.D | 12 Jun 2025 04:07 | YP/AJ | Ok |
| 23 | 20 PPM AROMATIC HC STD | FD049449.D | 12 Jun 2025 04:46 | YP/AJ | Ok |
| 24 | PB168409BL | FD049450.D | 12 Jun 2025 06:04 | YP/AJ | Ok |
| 25 | Q2126-07 | FD049451.D | 12 Jun 2025 06:44 | YP/AJ | Ok |
| 26 | Q2126-07 | FD049452.D | 12 Jun 2025 07:23 | YP/AJ | Ok,M |
| 27 | Q2126-08 | FD049453.D | 12 Jun 2025 08:02 | YP/AJ | Ok |
| 28 | I.BLK | FD049454.D | 12 Jun 2025 08:41 | YP/AJ | Ok |
| 29 | 20 PPM AROMATIC HC STD | FD049455.D | 12 Jun 2025 09:21 | YP/AJ | Ok |

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**Instrument ID: FID_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # FD061225AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/12/2025 12:41:59 PM | | |
| Supervise By | mohammad | Supervise On | 6/16/2025 2:08:44 AM | | |
| SubDirectory | FD061225AR | HP Acquire Method | | HP Processing Method | FD052425AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24500,PP24502,PP24503,PP24504,PP24505 |
| CCC | PP24503 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24501,PP24506 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FD049456.D | 12 Jun 2025 10:41 | YP/AJ | Ok |
| 2 | I.BLK | FD049457.D | 12 Jun 2025 11:21 | YP/AJ | Ok |
| 3 | 20 PPM AROMATIC HC STD | FD049458.D | 12 Jun 2025 12:02 | YP/AJ | Ok |
| 4 | Q2177-06 | FD049459.D | 12 Jun 2025 13:40 | YP/AJ | Ok |
| 5 | Q2177-04 | FD049460.D | 12 Jun 2025 14:21 | YP/AJ | Ok |
| 6 | I.BLK | FD049461.D | 12 Jun 2025 15:02 | YP/AJ | Ok |
| 7 | 20 PPM AROMATIC HC STD | FD049462.D | 12 Jun 2025 15:44 | YP/AJ | Ok |
| 8 | PB168441BL | FD049463.D | 12 Jun 2025 16:26 | YP/AJ | Ok |
| 9 | PB168441BS | FD049464.D | 12 Jun 2025 17:08 | YP/AJ | Ok |
| 10 | PB168441BSD | FD049465.D | 12 Jun 2025 19:18 | YP/AJ | Ok |
| 11 | Q2177-02 | FD049466.D | 12 Jun 2025 19:59 | YP/AJ | Not Ok |
| 12 | PB168442BL | FD049467.D | 12 Jun 2025 20:41 | YP/AJ | Ok |
| 13 | Q2126-03 | FD049468.D | 12 Jun 2025 21:22 | YP/AJ | Ok,M |
| 14 | Q2126-09 | FD049469.D | 12 Jun 2025 22:03 | YP/AJ | Ok |
| 15 | Q2286-03 | FD049470.D | 12 Jun 2025 22:44 | YP/AJ | Dilution |
| 16 | I.BLK | FD049471.D | 12 Jun 2025 23:24 | YP/AJ | Ok |
| 17 | 20 PPM AROMATIC HC STD | FD049472.D | 13 Jun 2025 00:04 | YP/AJ | Ok |
| 18 | Q2177-02 | FD049473.D | 13 Jun 2025 01:24 | YP/AJ | Not Ok |
| 19 | Q2177-02D | FD049474.D | 13 Jun 2025 02:03 | YP/AJ | Not Ok |
| 20 | Q2177-02MS | FD049475.D | 13 Jun 2025 02:42 | YP/AJ | Not Ok |
| 21 | Q2177-02MSD | FD049476.D | 13 Jun 2025 03:21 | YP/AJ | Not Ok |

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**Instrument ID: FID_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # FD061225AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/12/2025 12:41:59 PM | | |
| Supervise By | mohammad | Supervise On | 6/16/2025 2:08:44 AM | | |
| SubDirectory | FD061225AR | HP Acquire Method | | HP Processing Method | FD052425AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24500,PP24502,PP24503,PP24504,PP24505 |
| CCC | PP24503 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24501,PP24506 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | I.BLK | FD049477.D | 13 Jun 2025 04:00 | YP/AJ | Ok |
| 23 | 20 PPM AROMATIC HC STD | FD049478.D | 13 Jun 2025 04:39 | YP/AJ | Ok |

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**Instrument ID: FID_D**

## Daily Analysis Runlog For Sequence/QCBatch ID # FD061325AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/13/2025 10:27:20 AM | | |
| Supervise By | mohammad | Supervise On | 6/16/2025 8:33:02 AM | | |
| SubDirectory | FD061325AR | HP Acquire Method | | HP Processing Method | FD052425AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24500,PP24502,PP24503,PP24504,PP24505 |
| CCC | PP24503 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24501,PP24506 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | MECL2 | FD049479.D | 13 Jun 2025 06:29 | YP/AJ | Ok |
| 2 | I.BLK | FD049480.D | 13 Jun 2025 07:07 | YP/AJ | Ok |
| 3 | 20 PPM AROMATIC HC STD | FD049481.D | 13 Jun 2025 07:46 | YP/AJ | Ok |
| 4 | Q2177-02 | FD049482.D | 13 Jun 2025 08:25 | YP/AJ | Ok |
| 5 | Q2177-02D | FD049483.D | 13 Jun 2025 09:04 | YP/AJ | Ok |
| 6 | Q2177-02MS | FD049484.D | 13 Jun 2025 09:48 | YP/AJ | Ok |
| 7 | Q2177-02MSD | FD049485.D | 13 Jun 2025 10:28 | YP/AJ | Ok |
| 8 | Q2286-03DL | FD049486.D | 13 Jun 2025 11:07 | YP/AJ | Dilution |
| 9 | Q2286-03DL2 | FD049487.D | 13 Jun 2025 11:47 | YP/AJ | Ok |
| 10 | I.BLK | FD049488.D | 13 Jun 2025 12:26 | YP/AJ | Ok |
| 11 | 20 PPM AROMATIC HC STD | FD049489.D | 13 Jun 2025 13:06 | YP/AJ | Ok |

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**Instrument ID:** FID_C

## Daily Analysis Runlog For Sequence/QCBatch ID # FC052425AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 5/23/2025 12:24:51 PM | | |
| Supervise By | mohammad | Supervise On | 5/28/2025 1:48:12 AM | | |
| SubDirectory | FC052425AL | HP Acquire Method | | HP Processing Method | FC052425AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24170,PP24175,PP24176,PP24177,PP24178 |
| CCC | PP24176 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24174,PP24179 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FC068996.D | 23 May 2025 12:58 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FC068997.D | 23 May 2025 13:35 | | YP/AJ | Ok |
| 3 | 100 PPM ALIPHATIC H | 100 PPM ALIPHATIC H | FC068998.D | 23 May 2025 14:12 | | YP/AJ | Ok |
| 4 | 50 PPM ALIPHATIC HC | 50 PPM ALIPHATIC HC | FC068999.D | 23 May 2025 14:50 | | YP/AJ | Ok |
| 5 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC069000.D | 23 May 2025 15:28 | | YP/AJ | Ok |
| 6 | 10 PPM ALIPHATIC HC | 10 PPM ALIPHATIC HC | FC069001.D | 23 May 2025 16:05 | | YP/AJ | Ok |
| 7 | 5 PPM ALIPHATIC HC | 5 PPM ALIPHATIC HC | FC069002.D | 23 May 2025 16:43 | | YP/AJ | Ok |
| 8 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC069003.D | 23 May 2025 17:20 | | YP/AJ | Ok,M |
| 9 | I.BLK | I.BLK | FC069004.D | 23 May 2025 18:36 | | YP/AJ | Ok |
| 10 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC069005.D | 23 May 2025 19:13 | | YP/AJ | Ok |

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**Instrument ID:** FID_C

## Daily Analysis Runlog For Sequence/QCBatch ID # FC060925AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/9/2025 12:18:01 PM | | |
| Supervise By | mohammad | Supervise On | 6/11/2025 2:15:53 AM | | |
| SubDirectory | FC060925AL | HP Acquire Method | | HP Processing Method | FC052425AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24170,PP24175,PP24176,PP24177,PP24178 |
| CCC | PP24176 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24174,PP24179 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FC069131.D | 09 Jun 2025 09:27 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FC069132.D | 09 Jun 2025 10:07 | | YP/AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC069133.D | 09 Jun 2025 12:17 | | YP/AJ | Ok,M |
| 4 | PB168324BL | PB168324BL | FC069134.D | 09 Jun 2025 16:17 | | YP/AJ | Ok |
| 5 | PB168324BS | PB168324BS | FC069135.D | 09 Jun 2025 16:57 | naphthalene break down - 0.648, 2-methylnephthalene break down - 0.668 | YP/AJ | Ok,M |
| 6 | PB168324BSD | PB168324BSD | FC069136.D | 09 Jun 2025 17:37 | naphthalene break down - 0.725, 2-methylnephthalene break down - 0.817 | YP/AJ | Ok,M |
| 7 | Q2177-08 | EB05312025 | FC069137.D | 09 Jun 2025 18:17 | | YP/AJ | Ok |
| 8 | Q2198-05 | B-202-GW01 | FC069138.D | 09 Jun 2025 18:58 | | YP/AJ | Ok |
| 9 | I.BLK | I.BLK | FC069139.D | 09 Jun 2025 20:20 | | YP/AJ | Ok |
| 10 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC069140.D | 09 Jun 2025 21:41 | | YP/AJ | Ok,M |
| 11 | PB168341BL | PB168341BL | FC069141.D | 09 Jun 2025 22:21 | | YP/AJ | Ok |
| 12 | PB168341BS | PB168341BS | FC069142.D | 09 Jun 2025 23:02 | | YP/AJ | Ok,M |
| 13 | PB168341BSD | PB168341BSD | FC069143.D | 09 Jun 2025 23:41 | | YP/AJ | Ok,M |
| 14 | Q2265-01 | TP11-MHL-WC | FC069144.D | 10 Jun 2025 00:21 | | YP/AJ | Ok |
| 15 | Q2265-01D | Q2265-01D | FC069145.D | 10 Jun 2025 01:00 | | YP/AJ | Ok |
| 16 | Q2265-01MS | TP11-MHL-WCMS | FC069146.D | 10 Jun 2025 01:39 | FC069144.D | YP/AJ | Ok,M |

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**Instrument ID:** FID_C

## Daily Analysis Runlog For Sequence/QCBatch ID # FC060925AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/9/2025 12:18:01 PM | | |
| Supervise By | mohammad | Supervise On | 6/11/2025 2:15:53 AM | | |
| SubDirectory | FC060925AL | HP Acquire Method | | HP Processing Method | FC052425AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24170,PP24175,PP24176,PP24177,PP24178 |
| CCC | PP24176 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24174,PP24179 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 17 | Q2265-01MSD | TP11-MHL-WCMSD | FC069147.D | 10 Jun 2025 02:19 | FC069144.D!FC069146.D | YP/AJ | Ok,M |
| 18 | Q2265-03 | TP11-MHL-EPH | FC069148.D | 10 Jun 2025 02:58 | | YP/AJ | Ok |
| 19 | I.BLK | I.BLK | FC069149.D | 10 Jun 2025 04:16 | | YP/AJ | Ok |
| 20 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC069150.D | 10 Jun 2025 04:55 | | YP/AJ | Ok,M |

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**Instrument ID:** FID_C

## Daily Analysis Runlog For Sequence/QCBatch ID # FC061125AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/11/2025 3:08:31 PM | | |
| Supervise By | mohammad | Supervise On | 6/13/2025 1:40:04 AM | | |
| SubDirectory | FC061125AL | HP Acquire Method | | HP Processing Method | FC052425AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24170,PP24175,PP24176,PP24177,PP24178 |
| CCC | PP24176 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24174,PP24179 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FC069154.D | 11 Jun 2025 10:11 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FC069155.D | 11 Jun 2025 10:51 | | YP/AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC069156.D | 11 Jun 2025 12:12 | | YP/AJ | Ok,M |
| 4 | PB168408BL | PB168408BL | FC069157.D | 11 Jun 2025 16:33 | | YP/AJ | Ok |
| 5 | PB168408BS | PB168408BS | FC069158.D | 11 Jun 2025 17:15 | naphthalene break down - 0.510, 2-methylnephthalene break down - 0.715 | YP/AJ | Ok,M |
| 6 | PB168408BSD | PB168408BSD | FC069159.D | 11 Jun 2025 17:57 | naphthalene break down - 0.674, 2-methylnephthalene break down - 0.938 | YP/AJ | Ok,M |
| 7 | Q2126-01 | LOD-MDL-SOIL-03-QT | FC069160.D | 11 Jun 2025 18:39 | 2.5 PPM SOIL LOD | YP/AJ | Ok,M |
| 8 | Q2126-01 | LOD-MDL-SOIL-03-QT | FC069161.D | 11 Jun 2025 19:23 | 5 PPM SOIL LOD | YP/AJ | Ok,M |
| 9 | Q2126-02 | LOQ-SOIL-02-QT2-202 | FC069162.D | 11 Jun 2025 20:05 | 5 PPM SOIL LOQ | YP/AJ | Ok,M |
| 10 | Q2177-02 | B-187-SB01 | FC069163.D | 11 Jun 2025 20:47 | Surr Fail | YP/AJ | Not Ok |
| 11 | Q2177-02D | Q2177-02D | FC069164.D | 11 Jun 2025 21:28 | Surr Fail | YP/AJ | Not Ok |
| 12 | Q2177-02MS | B-187-SB01MS | FC069165.D | 11 Jun 2025 22:09 | FC069184.D | YP/AJ | Ok,M |
| 13 | Q2177-02MSD | B-187-SB01MSD | FC069166.D | 11 Jun 2025 22:50 | FC069184.D!FC069165.D | YP/AJ | Ok,M |
| 14 | I.BLK | I.BLK | FC069167.D | 11 Jun 2025 23:29 | | YP/AJ | Ok |
| 15 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC069168.D | 12 Jun 2025 00:09 | | YP/AJ | Ok,M |
| 16 | Q2177-04 | B-187-SB02 | FC069169.D | 12 Jun 2025 01:28 | Surr Fail | YP/AJ | Not Ok |

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**Instrument ID:** FID_C

## Daily Analysis Runlog For Sequence/QCBatch ID # FC061125AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/11/2025 3:08:31 PM | | |
| Supervise By | mohammad | Supervise On | 6/13/2025 1:40:04 AM | | |
| SubDirectory | FC061125AL | HP Acquire Method | | HP Processing Method | FC052425AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24170,PP24175,PP24176,PP24177,PP24178 |
| CCC | PP24176 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24174,PP24179 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 17 | Q2177-06 | B-202-SB01 | FC069170.D | 12 Jun 2025 02:08 | Surr Fail | YP/AJ | Not Ok |
| 18 | Q2198-01 | B-202-SB02 | FC069171.D | 12 Jun 2025 02:48 | | YP/AJ | Ok |
| 19 | Q2198-03 | B-207-SB02 | FC069172.D | 12 Jun 2025 03:27 | | YP/AJ | Ok |
| 20 | I.BLK | I.BLK | FC069173.D | 12 Jun 2025 04:07 | | YP/AJ | Ok |
| 21 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC069174.D | 12 Jun 2025 04:46 | | YP/AJ | Ok,M |
| 22 | PB168409BL | PB168409BL | FC069175.D | 12 Jun 2025 06:04 | | YP/AJ | Ok |
| 23 | Q2126-07 | LOD-MDL-WATER-01-( | FC069176.D | 12 Jun 2025 06:44 | 2.5 PPM WATER LOD | YP/AJ | Ok,M |
| 24 | Q2126-07 | LOD-MDL-WATER-01-( | FC069177.D | 12 Jun 2025 07:23 | 5 PPM WATER LOD | YP/AJ | Ok,M |
| 25 | Q2126-08 | LOQ-WATER-02-QT2-2 | FC069178.D | 12 Jun 2025 08:02 | 5 PPM WATER LOQ | YP/AJ | Ok,M |
| 26 | I.BLK | I.BLK | FC069179.D | 12 Jun 2025 08:41 | | YP/AJ | Ok |
| 27 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC069180.D | 12 Jun 2025 09:21 | | YP/AJ | Ok,M |

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**Instrument ID:** FID_C

## Daily Analysis Runlog For Sequence/QCBatch ID # FC061225AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/12/2025 12:40:53 PM | | |
| Supervise By | mohammad | Supervise On | 6/16/2025 2:08:18 AM | | |
| SubDirectory | FC061225AL | HP Acquire Method | | HP Processing Method | FC052425AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24170,PP24175,PP24176,PP24177,PP24178 |
| CCC | PP24176 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24174,PP24179 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FC069181.D | 12 Jun 2025 10:41 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FC069182.D | 12 Jun 2025 11:21 | | YP/AJ | Ok |
| 3 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC069183.D | 12 Jun 2025 12:02 | | YP/AJ | Ok,M |
| 4 | Q2177-02 | B-187-SB01 | FC069184.D | 12 Jun 2025 12:59 | | YP/AJ | Ok |
| 5 | Q2177-06 | B-202-SB01 | FC069185.D | 12 Jun 2025 13:40 | | YP/AJ | Ok |
| 6 | Q2177-04 | B-187-SB02 | FC069186.D | 12 Jun 2025 14:21 | | YP/AJ | Ok |
| 7 | Q2177-02D | Q2177-02D | FC069187.D | 12 Jun 2025 15:02 | | YP/AJ | Ok |
| 8 | Q2177-02MS | B-187-SB01MS | FC069188.D | 12 Jun 2025 15:44 | | YP/AJ | Not Ok |
| 9 | Q2177-02MSD | B-187-SB01MSD | FC069189.D | 12 Jun 2025 16:26 | | YP/AJ | Not Ok |
| 10 | I.BLK | I.BLK | FC069190.D | 12 Jun 2025 17:08 | | YP/AJ | Ok |
| 11 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC069191.D | 12 Jun 2025 19:18 | | YP/AJ | Ok,M |
| 12 | PB168441BL | PB168441BL | FC069192.D | 12 Jun 2025 21:22 | | YP/AJ | Ok |
| 13 | PB168441BS | PB168441BS | FC069193.D | 12 Jun 2025 22:03 | naphthalene break down - 1.050, 2-methylnephthalene break down - 0.619 | YP/AJ | Ok,M |
| 14 | PB168441BSD | PB168441BSD | FC069194.D | 12 Jun 2025 22:44 | naphthalene break down - 1.123, 2-methylnephthalene break down - 0.510 | YP/AJ | Ok,M |
| 15 | PB148442BL | PB148442BL | FC069195.D | 12 Jun 2025 23:24 | | YP/AJ | Ok |
| 16 | Q2126-03 | MDL-SOIL-03-QT2-202 | FC069196.D | 13 Jun 2025 00:04 | 2.5 PPM SOIL MDL | YP/AJ | Ok,M |

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**Instrument ID:** FID_C

## Daily Analysis Runlog For Sequence/QCBatch ID # FC061225AL

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/12/2025 12:40:53 PM | | |
| Supervise By | mohammad | Supervise On | 6/16/2025 2:08:18 AM | | |
| SubDirectory | FC061225AL | HP Acquire Method | | HP Processing Method | FC052425AL |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24170,PP24175,PP24176,PP24177,PP24178 |
| CCC | PP24176 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24174,PP24179 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 17 | Q2126-09 | MDL-WATER-03-QT2-2 | FC069197.D | 13 Jun 2025 00:44 | 2.5 PPM WATER MDL | YP/AJ | Ok,M |
| 18 | Q2286-03 | LAW-25-0084 | FC069198.D | 13 Jun 2025 01:24 | need 10x, 100x, 500x dilution | YP/AJ | Dilution |
| 19 | I.BLK | I.BLK | FC069199.D | 13 Jun 2025 02:42 | | YP/AJ | Ok |
| 20 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FC069200.D | 13 Jun 2025 03:21 | | YP/AJ | Ok,M |

M : Manual Integration

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**Instrument ID:** FID_D

## Daily Analysis Runlog For Sequence/QCBatch ID # FD052425AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 5/23/2025 12:26:08 PM | | |
| Supervise By | mohammad | Supervise On | 5/28/2025 1:48:35 AM | | |
| SubDirectory | FD052425AR | HP Acquire Method | | HP Processing Method | FD052425AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24500,PP24502,PP24503,PP24504,PP24505 |
| CCC | PP24503 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24501,PP24506 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FD049392.D | 23 May 2025 13:35 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FD049393.D | 23 May 2025 14:12 | | YP/AJ | Ok |
| 3 | 100 PPM AROMATIC H | 100 PPM AROMATIC H | FD049394.D | 23 May 2025 14:50 | | YP/AJ | Ok,M |
| 4 | 50 PPM AROMATIC HC | 50 PPM AROMATIC HC | FD049395.D | 23 May 2025 15:28 | | YP/AJ | Ok |
| 5 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD049396.D | 23 May 2025 16:05 | | YP/AJ | Ok |
| 6 | 10 PPM AROMATIC HC | 10 PPM AROMATIC HC | FD049397.D | 23 May 2025 16:43 | | YP/AJ | Ok |
| 7 | 5 PPM AROMATIC HC | 5 PPM AROMATIC HC | FD049398.D | 23 May 2025 17:20 | | YP/AJ | Ok |
| 8 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD049399.D | 23 May 2025 17:58 | | YP/AJ | Ok |
| 9 | I.BLK | I.BLK | FD049400.D | 23 May 2025 19:13 | | YP/AJ | Ok |
| 10 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD049401.D | 23 May 2025 19:50 | | YP/AJ | Ok |

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**Instrument ID:** FID_D

## Daily Analysis Runlog For Sequence/QCBatch ID # FD060925AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/9/2025 1:09:15 PM | | |
| Supervise By | mohammad | Supervise On | 6/11/2025 2:16:01 AM | | |
| SubDirectory | FD060925AR | HP Acquire Method | | HP Processing Method | FD052425AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24500,PP24502,PP24503,PP24504,PP24505 |
| CCC | PP24503 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24501,PP24506 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FD049412.D | 09 Jun 2025 09:27 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FD049413.D | 09 Jun 2025 10:07 | | YP/AJ | Ok |
| 3 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD049414.D | 09 Jun 2025 12:17 | | YP/AJ | Ok |
| 4 | PB168324BL | PB168324BL | FD049415.D | 09 Jun 2025 16:17 | | YP/AJ | Ok |
| 5 | PB168324BS | PB168324BS | FD049416.D | 09 Jun 2025 16:57 | naphthalene break down - 0.648, 2-methylnephthalene break down - 0.668 | YP/AJ | Ok |
| 6 | PB168324BSD | PB168324BSD | FD049417.D | 09 Jun 2025 17:37 | naphthalene break down - 0.725, 2-methylnephthalene break down - 0.817 | YP/AJ | Ok |
| 7 | Q2177-08 | EB05312025 | FD049418.D | 09 Jun 2025 18:17 | | YP/AJ | Ok |
| 8 | Q2198-05 | B-202-GW01 | FD049419.D | 09 Jun 2025 18:58 | surr fail | YP/AJ | Not Ok |
| 9 | I.BLK | I.BLK | FD049420.D | 09 Jun 2025 20:20 | | YP/AJ | Ok |
| 10 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD049421.D | 09 Jun 2025 21:01 | | YP/AJ | Ok |

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**Instrument ID:** FID_D

## Daily Analysis Runlog For Sequence/QCBatch ID # FD061125AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/11/2025 3:09:24 PM | | |
| Supervise By | mohammad | Supervise On | 6/13/2025 1:40:17 AM | | |
| SubDirectory | FD061125AR | HP Acquire Method | | HP Processing Method | FD052425AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24500,PP24502,PP24503,PP24504,PP24505 |
| CCC | PP24503 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24501,PP24506 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FD049428.D | 11 Jun 2025 10:11 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FD049429.D | 11 Jun 2025 10:51 | | YP/AJ | Ok |
| 3 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD049430.D | 11 Jun 2025 12:12 | | YP/AJ | Ok |
| 4 | PP24647 | PP24647 | FD049431.D | 11 Jun 2025 15:52 | | YP/AJ | Ok |
| 5 | PB168408BL | PB168408BL | FD049432.D | 11 Jun 2025 16:33 | | YP/AJ | Ok |
| 6 | PB168408BS | PB168408BS | FD049433.D | 11 Jun 2025 17:15 | naphthalene break down - 0.510, 2-methylnephthalene break down - 0.715 | YP/AJ | Ok |
| 7 | PB168408BSD | PB168408BSD | FD049434.D | 11 Jun 2025 17:57 | naphthalene break down - 0.674, 2-methylnephthalene break down - 0.938 | YP/AJ | Ok |
| 8 | Q2126-01 | LOD-MDL-SOIL-03-QT | FD049435.D | 11 Jun 2025 18:39 | 2.5 PPM SOIL LOD | YP/AJ | Ok |
| 9 | Q2126-01 | LOD-MDL-SOIL-03-QT | FD049436.D | 11 Jun 2025 19:23 | 5 PPM SOIL LOD | YP/AJ | Ok |
| 10 | Q2126-02 | LOQ-SOIL-02-QT2-202 | FD049437.D | 11 Jun 2025 20:05 | 5 PPM SOIL LOQ | YP/AJ | Ok,M |
| 11 | Q2177-02 | B-187-SB01 | FD049438.D | 11 Jun 2025 20:47 | Surr Fail | YP/AJ | Not Ok |
| 12 | Q2177-02 | B-187-SB01MS | FD049438.D | 11 Jun 2025 20:47 | Surr Fail | YP/AJ | Not Ok |
| 13 | Q2177-02D | Q2177-02D | FD049439.D | 11 Jun 2025 21:28 | Surr Fail | YP/AJ | Not Ok |
| 14 | Q2177-02MS | B-187-SB01MS | FD049440.D | 11 Jun 2025 22:09 | | YP/AJ | Not Ok |
| 15 | Q2177-02MSD | B-187-SB01MSD | FD049441.D | 11 Jun 2025 22:50 | | YP/AJ | Not Ok |
| 16 | I.BLK | I.BLK | FD049442.D | 11 Jun 2025 23:29 | | YP/AJ | Ok |

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**Instrument ID:** FID_D

## Daily Analysis Runlog For Sequence/QCBatch ID # FD061125AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/11/2025 3:09:24 PM | | |
| Supervise By | mohammad | Supervise On | 6/13/2025 1:40:17 AM | | |
| SubDirectory | FD061125AR | HP Acquire Method | | HP Processing Method | FD052425AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24500,PP24502,PP24503,PP24504,PP24505 |
| CCC | PP24503 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24501,PP24506 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 17 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD049443.D | 12 Jun 2025 00:09 | | YP/AJ | Ok |
| 18 | Q2177-04 | B-187-SB02 | FD049444.D | 12 Jun 2025 01:28 | Surr Fail | YP/AJ | Not Ok |
| 19 | Q2177-06 | B-202-SB01 | FD049445.D | 12 Jun 2025 02:08 | Surr Fail | YP/AJ | Not Ok |
| 20 | Q2198-01 | B-202-SB02 | FD049446.D | 12 Jun 2025 02:48 | | YP/AJ | Ok |
| 21 | Q2198-03 | B-207-SB02 | FD049447.D | 12 Jun 2025 03:27 | | YP/AJ | Ok |
| 22 | I.BLK | I.BLK | FD049448.D | 12 Jun 2025 04:07 | | YP/AJ | Ok |
| 23 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD049449.D | 12 Jun 2025 04:46 | | YP/AJ | Ok |
| 24 | PB168409BL | PB168409BL | FD049450.D | 12 Jun 2025 06:04 | | YP/AJ | Ok |
| 25 | Q2126-07 | LOD-MDL-WATER-01-( | FD049451.D | 12 Jun 2025 06:44 | 2.5 PPM WATER LOD | YP/AJ | Ok |
| 26 | Q2126-07 | LOD-MDL-WATER-01-( | FD049452.D | 12 Jun 2025 07:23 | 5 PPM WATER LOD | YP/AJ | Ok,M |
| 27 | Q2126-08 | LOQ-WATER-02-QT2-2 | FD049453.D | 12 Jun 2025 08:02 | 5 PPM WATER LOQ | YP/AJ | Ok |
| 28 | I.BLK | I.BLK | FD049454.D | 12 Jun 2025 08:41 | | YP/AJ | Ok |
| 29 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD049455.D | 12 Jun 2025 09:21 | | YP/AJ | Ok |

M : Manual Integration

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**Instrument ID:** FID_D

## Daily Analysis Runlog For Sequence/QCBatch ID # FD061225AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/12/2025 12:41:59 PM | | |
| Supervise By | mohammad | Supervise On | 6/16/2025 2:08:44 AM | | |
| SubDirectory | FD061225AR | HP Acquire Method | | HP Processing Method | FD052425AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24500,PP24502,PP24503,PP24504,PP24505 |
| CCC | PP24503 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24501,PP24506 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FD049456.D | 12 Jun 2025 10:41 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FD049457.D | 12 Jun 2025 11:21 | | YP/AJ | Ok |
| 3 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD049458.D | 12 Jun 2025 12:02 | | YP/AJ | Ok |
| 4 | Q2177-06 | B-202-SB01 | FD049459.D | 12 Jun 2025 13:40 | | YP/AJ | Ok |
| 5 | Q2177-04 | B-187-SB02 | FD049460.D | 12 Jun 2025 14:21 | | YP/AJ | Ok |
| 6 | I.BLK | I.BLK | FD049461.D | 12 Jun 2025 15:02 | | YP/AJ | Ok |
| 7 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD049462.D | 12 Jun 2025 15:44 | | YP/AJ | Ok |
| 8 | PB168441BL | PB168441BL | FD049463.D | 12 Jun 2025 16:26 | | YP/AJ | Ok |
| 9 | PB168441BS | PB168441BS | FD049464.D | 12 Jun 2025 17:08 | naphthalene break down - 1.050, 2-methylnephthalene break down - 0.619 | YP/AJ | Ok |
| 10 | PB168441BSD | PB168441BSD | FD049465.D | 12 Jun 2025 19:18 | naphthalene break down - 1.123, 2-methylnephthalene break down - 0.510 | YP/AJ | Ok |
| 11 | Q2177-02 | B-187-SB01 | FD049466.D | 12 Jun 2025 19:59 | Surr Fail | YP/AJ | Not Ok |
| 12 | PB168442BL | PB168442BL | FD049467.D | 12 Jun 2025 20:41 | | YP/AJ | Ok |
| 13 | Q2126-03 | MDL-SOIL-03-QT2-202 | FD049468.D | 12 Jun 2025 21:22 | 2.5 PPM SOIL MDL | YP/AJ | Ok,M |
| 14 | Q2126-09 | MDL-WATER-03-QT2-2 | FD049469.D | 12 Jun 2025 22:03 | 2.5 PPM WATER MDL | YP/AJ | Ok |
| 15 | Q2286-03 | LAW-25-0084 | FD049470.D | 12 Jun 2025 22:44 | need 20x & 100x dilution | YP/AJ | Dilution |
| 16 | I.BLK | I.BLK | FD049471.D | 12 Jun 2025 23:24 | | YP/AJ | Ok |

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**Instrument ID:** FID_D

## Daily Analysis Runlog For Sequence/QCBatch ID # FD061225AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/12/2025 12:41:59 PM | | |
| Supervise By | mohammad | Supervise On | 6/16/2025 2:08:44 AM | | |
| SubDirectory | FD061225AR | HP Acquire Method | | HP Processing Method | FD052425AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24500,PP24502,PP24503,PP24504,PP24505 |
| CCC | PP24503 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24501,PP24506 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 17 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD049472.D | 13 Jun 2025 00:04 | | YP/AJ | Ok |
| 18 | Q2177-02 | B-187-SB01 | FD049473.D | 13 Jun 2025 01:24 | Surr Fail | YP/AJ | Not Ok |
| 19 | Q2177-02D | Q2177-02D | FD049474.D | 13 Jun 2025 02:03 | Surr Fail | YP/AJ | Not Ok |
| 20 | Q2177-02MS | B-187-SB01MS | FD049475.D | 13 Jun 2025 02:42 | FD049473.D | YP/AJ | Not Ok |
| 21 | Q2177-02MSD | B-187-SB01MSD | FD049476.D | 13 Jun 2025 03:21 | FD049473.D!FD049475.D | YP/AJ | Not Ok |
| 22 | I.BLK | I.BLK | FD049477.D | 13 Jun 2025 04:00 | | YP/AJ | Ok |
| 23 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD049478.D | 13 Jun 2025 04:39 | | YP/AJ | Ok |

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**Instrument ID:** FID_D

## Daily Analysis Runlog For Sequence/QCBatch ID # FD061325AR

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 6/13/2025 10:27:20 AM | | |
| Supervise By | mohammad | Supervise On | 6/16/2025 8:33:02 AM | | |
| SubDirectory | FD061325AR | HP Acquire Method | | HP Processing Method | FD052425AR |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24500,PP24502,PP24503,PP24504,PP24505 |
| CCC | PP24503 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24501,PP24506 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | MECL2 | MECL2 | FD049479.D | 13 Jun 2025 06:29 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | FD049480.D | 13 Jun 2025 07:07 | | YP/AJ | Ok |
| 3 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD049481.D | 13 Jun 2025 07:46 | | YP/AJ | Ok |
| 4 | Q2177-02 | B-187-SB01 | FD049482.D | 13 Jun 2025 08:25 | | YP/AJ | Ok |
| 5 | Q2177-02D | Q2177-02D | FD049483.D | 13 Jun 2025 09:04 | | YP/AJ | Ok |
| 6 | Q2177-02MS | B-187-SB01MS | FD049484.D | 13 Jun 2025 09:48 | FD049482.D | YP/AJ | Ok |
| 7 | Q2177-02MSD | B-187-SB01MSD | FD049485.D | 13 Jun 2025 10:28 | FD049482.D!FD049484.D | YP/AJ | Ok |
| 8 | Q2286-03DL | LAW-25-0084DL | FD049486.D | 13 Jun 2025 11:07 | need further dilution | YP/AJ | Dilution |
| 9 | Q2286-03DL2 | LAW-25-0084DL2 | FD049487.D | 13 Jun 2025 11:47 | | YP/AJ | Ok |
| 10 | I.BLK | I.BLK | FD049488.D | 13 Jun 2025 12:26 | | YP/AJ | Ok |
| 11 | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FD049489.D | 13 Jun 2025 13:06 | | YP/AJ | Ok |

M : Manual Integration

Alliance TECHNICAL GROUP

# EXTRACTION LOGPAGE

PB168324

**SOP ID:** MNJDEP-EPH-7

**Clean Up SOP #:** N/A

**Matrix :** Water

**Weigh By:** N/A

**Balance check:** N/A

**Balance ID:** N/A

**pH Strip Lot#:** E3880

**Extraction By:** RS

**Filter By:** RS

**pH Meter ID:** N/A

**Hood ID:** 4,6,7

**Extraction Start Date :** 06/06/2025

**Extraction Start Time :** 09:10

**Extraction End Date :** 06/06/2025

**Extraction End Time :** 16:15

**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 | PP24573 |
| Surrogate | 1.0ML | 100 PPM | PP24591 |
| Fractionation Surrogate | 1.0ML | 100 PPM | PP24623 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Methylene Chloride | N/A | E3930 |
| Baked Na2SO4 | N/A | EP2614 |
| Hexane | N/A | E3934 |
| 6N HCL | N/A | EP2615 |
| EPH Cartridge | N/A | E3757 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

1.5ML Vial Lot # 2210443.

**KD Bath ID:** WATER BATH-1

**KD Bath Temperature:** 60 °C

**Envap ID:** NE VAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 6/6/25 | RS (Ext lab) | T-P-Pest Ifo3 |
| 16:20 | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB168324**

**Analytical Method:** MNJDEP-EPH-7

**Concentration Date:** 06/06/2025

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB168324BL | PB168324BL | EPH | 1000 | <2 | RUPESH | ritesh | 2 | | | SEP-1 |
| PB168324BS | PB168324BS | EPH | 1000 | <2 | RUPESH | ritesh | 2 | | | 2 |
| PB168324BSD | PB168324BSD | EPH | 1000 | <2 | RUPESH | ritesh | 2 | | | 3 |
| Q2177-08 | EB05312025 | EPH | 910 | <2 | RUPESH | ritesh | 2 | G | | 4 |
| Q2198-05 | B-202-GW01 | EPH | 990 | <2 | RUPESH | ritesh | 2 | G | | 5 |

RJ
6/6

* **Extracts relinguished on the same date as received.**

168324
9:10

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q2177EPH **WorkList ID :** 189993 **Department :** Extraction **Date :** 06-06-2025 09:05:26

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2177-08 | EB05312025 | Water | EPH | 1:1 HCl to pH < 2 | PORT06 | L41 | 05/31/2025 | NJEPH |
| Q2198-05 | B-202-GW01 | Water | EPH | 1:1 HCl to pH < 2 | PORT06 | N22 | 05/31/2025 | NJEPH |

**Date/Time** 6/6/25 9:05
**Raw Sample Received by:** RS (Ext lab)
**Raw Sample Relinquished by:**



**Date/Time** 6/6/25 · 9:30
**Raw Sample Received by:**
**Raw Sample Relinquished by:** RS (Ext lab)

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB168408

**SOP ID:** MNJDEP-EPH-7

**Clean Up SOP #:** N/A

**Matrix :** Solid

**Weigh By:** EH

**Extraction By:** RJ

**Balance check:** RJ

**Filter By:** RJ

**Balance ID:** EX-SC-2

**pH Meter ID:** N/A

**pH Strip Lot#:** N/A

**Hood ID:** 3,7

**Extraction Start Date :** 06/11/2025

**Extraction Start Time :** 08:45

**Extraction End Date :** 06/11/2025

**Extraction End Time :** 15:45

**Concentration By:** EH

**Supervisor By :** ritesh

**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 | PP24573 |
| Surrogate | 1.0ML | 100 PPM | PP24591 |
| Fractionation Surrogate | 1.0ML | 100 PPM | PP24623 |
| LOD | 0.25ML/0.4ML | 20 PPM | PP24131 |
| LOQ | 0.5ML | 20 PPM | PP24131 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| MeCl2/Acetone/1:1 | N/A | EP2612 |
| Baked Na2SO4 | N/A | EP2620 |
| Sand | N/A | E2865 |
| Hexane | N/A | E3938 |
| Methylene Chloride | N/A | E3939 |
| EPH Cartridge | N/A | E3757 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

1.5ML Vial Lot # 2210443.

**KD Bath ID:** N/A

**KD Bath Temperature:** N/A

**Envap ID:** NEVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 06/11/25 | RP (Extr Tech) | Y-Prep Lab |
| 15:50 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB168408**

**Analytical Method:** MNJDEP-EPH-7

**Concentration Date:** 06/11/2025

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB168408BL | PB168408BL | EPH | 30.01 | N/A | ritesh | Evelyn | 2 | | | U2-1 |
| PB168408BS | PB168408BS | EPH | 30.02 | N/A | ritesh | Evelyn | 2 | | | 2 |
| PB168408BSD | PB168408BSD | EPH | 30.03 | N/A | ritesh | Evelyn | 2 | | | 3 |
| Q2126-01 | LOD-MDL-SOIL-03-QT2-2025 0.25 ML | EPH | 30.04 | N/A | ritesh | Evelyn | 2 | | | 4 |
| Q2126-02 | LOQ-SOIL-02-QT2-2025 0.5 ML | EPH | 30.02 | N/A | ritesh | Evelyn | 2 | | | 5 |
| Q2177-02 | B-187-SB01 | EPH | 30.06 | N/A | ritesh | Evelyn | 2 | F | | 6 |
| Q2177-02DUP | B-187-SB01DUP | EPH | 30.08 | N/A | ritesh | Evelyn | 2 | F | | U3-1 |
| Q2177-02MS | B-187-SB01MS | EPH | 30.03 | N/A | ritesh | Evelyn | 2 | F | | 2 |
| Q2177-02MSD | B-187-SB01MSD | EPH | 30.04 | N/A | ritesh | Evelyn | 2 | F | | 3 |
| Q2177-04 | B-187-SB02 | EPH | 30.01 | N/A | ritesh | Evelyn | 2 | F | | 4 |
| Q2177-06 | B-202-SB01 | EPH | 30.03 | N/A | ritesh | Evelyn | 2 | F | | 5 |
| Q2198-01 | B-202-SB02 | EPH | 30.05 | N/A | ritesh | Evelyn | 2 | D | | 6 |
| Q2198-03 | B-207-SB02 | EPH | 30.06 | N/A | ritesh | Evelyn | 2 | D | | U1-1 |
| | LOD 0.4ML | 1 | 30.01 | 1 | 1 | 1 | 2 | | | 1 |

* **Extracts relinquished on the same date as received.**

6/11/25

10840 9:45

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q2177E **WorkList ID :** 190091 **Department :** Extraction **Date :** 06-11-2025 08:43:23

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2126-01 | LOD-MDL-SOIL-03-QT2-2025 | Solid | EPH | Cool 4 deg C | ALLI03 | QA Of | 05/23/2025 | NJEPH |
| Q2126-02 | LOQ-SOIL-02-QT2-2025 | Solid | EPH | Cool 4 deg C | ALLI03 | QA Of | 05/23/2025 | NJEPH |
| Q2177-02 | B-187-SB01 | Solid | EPH | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | NJEPH |
| Q2177-04 | B-187-SB02 | Solid | EPH | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | NJEPH |
| Q2177-06 | B-202-SB01 | Solid | EPH | Cool 4 deg C | PORT06 | L41 | 05/31/2025 | NJEPH |
| Q2198-01 | B-202-SB02 | Solid | EPH | Cool 4 deg C | PORT06 | N22 | 05/31/2025 | NJEPH |
| Q2198-03 | B-207-SB02 | Solid | EPH | Cool 4 deg C | PORT06 | N22 | 06/01/2025 | NJEPH |

**Date/Time** 06/11/25 8:44
**Raw Sample Received by:** RJ (Ext lab)
**Raw Sample Relinquished by:**



**Date/Time** 06/11/25 9:15
**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:** | Q2177 | **OrderDate:** | 6/2/2025 11:19:00 AM |
| **Client:** | Portal Partners Tri-Venture | **Project:** | Amtrak Sawtooth Bridges 2025 |
| **Contact:** | Joseph Krupansky | **Location:** | L41,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2177-02** | **B-187-SB01** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | PCB | 8082A | | 06/03/25 | 06/03/25 | |
| | | | EPH | NJEPH | | 06/11/25 | 06/12/25 | |
| | | | EPH | NJEPH | | 06/11/25 | 06/13/25 | |
| **Q2177-03** | **B-187-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP Herbicide | 8151A | | 06/03/25 | 06/05/25 | |
| | | | TCLP Pesticide | 8081B | | 06/03/25 | 06/03/25 | |
| **Q2177-04** | **B-187-SB02** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | PCB | 8082A | | 06/03/25 | 06/03/25 | |
| | | | EPH | NJEPH | | 06/11/25 | 06/12/25 | |
| **Q2177-05** | **B-187-SB02** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP Herbicide | 8151A | | 06/03/25 | 06/05/25 | |
| | | | TCLP Pesticide | 8081B | | 06/03/25 | 06/03/25 | |
| **Q2177-06** | **B-202-SB01** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | PCB | 8082A | | 06/03/25 | 06/03/25 | |
| | | | EPH | NJEPH | | 06/11/25 | 06/12/25 | |
| **Q2177-07** | **B-202-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP Herbicide | 8151A | | 06/03/25 | 06/05/25 | |
| | | | TCLP Pesticide | 8081B | | 06/03/25 | 06/03/25 | |
| **Q2177-08** | **EB05312025** | **WATER** | | | **05/31/25** | | | **06/02/25** |
| | | | PCB | 8082A | | 06/03/25 | 06/03/25 | |
| | | | EPH | NJEPH | | 06/06/25 | 06/09/25 | |

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Fax : 908 789 8922

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2177 **Order ID:** Q2177

**Client:** Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : B-187-SB01** | | | | | | | | |
| Q2177-02 | B-187-SB01 | SOIL | Aluminum | 8670 | | 0.88 | 5.23 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Antimony | 0.30 | J | 0.23 | 2.62 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Arsenic | 1.28 | | 0.20 | 1.05 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Barium | 111 | | 0.76 | 5.23 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Beryllium | 0.50 | | 0.026 | 0.31 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Cadmium | 1.02 | | 0.025 | 0.31 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Calcium | 6800 | | 11.6 | 105 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Chromium | 19.2 | | 0.049 | 0.52 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Cobalt | 11.5 | | 0.11 | 1.57 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Copper | 31.3 | | 0.23 | 1.05 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Iron | 16300 | | 4.18 | 5.23 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Lead | 127 | | 0.14 | 0.63 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Magnesium | 5240 | | 12.6 | 105 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Manganese | 118 | | 0.15 | 1.05 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Mercury | 0.12 | | 0.0080 | 0.014 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Nickel | 23.3 | | 0.14 | 2.09 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Potassium | 6410 | | 29.0 | 105 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Sodium | 335 | | 18.6 | 105 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Vanadium | 24.6 | | 0.26 | 2.09 | mg/Kg |
| Q2177-02 | B-187-SB01 | SOIL | Zinc | 82.0 | | 0.24 | 2.09 | mg/Kg |
| **Client ID : B-187-SB02** | | | | | | | | |
| Q2177-04 | B-187-SB02 | SOIL | Aluminum | 5970 | | 1.26 | 7.51 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Arsenic | 1.00 | J | 0.28 | 1.50 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Barium | 5.38 | J | 1.10 | 7.51 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Beryllium | 0.29 | J | 0.038 | 0.45 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Cadmium | 0.19 | J | 0.036 | 0.45 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Calcium | 427 | | 16.7 | 150 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Chromium | 8.68 | | 0.071 | 0.75 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Cobalt | 3.45 | | 0.15 | 2.25 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Copper | 6.86 | | 0.33 | 1.50 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Iron | 9960 | | 5.99 | 7.51 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Lead | 4.48 | | 0.20 | 0.90 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Magnesium | 1580 | | 18.0 | 150 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Manganese | 65.9 | | 0.21 | 1.50 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Mercury | 0.060 | | 0.010 | 0.019 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Nickel | 8.35 | | 0.20 | 3.00 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Potassium | 356 | | 41.6 | 150 | mg/Kg |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2177 **Order ID:** Q2177

**Client:** Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| Q2177-04 | B-187-SB02 | SOIL | Sodium | 357 | | 26.7 | 150 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Vanadium | 9.88 | | 0.38 | 3.00 | mg/Kg |
| Q2177-04 | B-187-SB02 | SOIL | Zinc | 19.9 | | 0.35 | 3.00 | mg/Kg |
| **Client ID :** | **B-202-SB01** | | | | | | | |
| Q2177-06 | B-202-SB01 | SOIL | Aluminum | 7040 | | 0.92 | 5.45 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Arsenic | 2.83 | | 0.21 | 1.09 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Barium | 77.3 | | 0.80 | 5.45 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Beryllium | 0.44 | | 0.027 | 0.33 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Cadmium | 0.87 | | 0.026 | 0.33 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Calcium | 4840 | | 12.1 | 109 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Chromium | 14.5 | | 0.051 | 0.55 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Cobalt | 9.12 | | 0.11 | 1.63 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Copper | 12.0 | | 0.24 | 1.09 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Iron | 17500 | | 4.35 | 5.45 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Lead | 31.2 | | 0.14 | 0.65 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Magnesium | 4570 | | 13.1 | 109 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Manganese | 304 | | 0.15 | 1.09 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Mercury | 0.079 | | 0.0080 | 0.015 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Nickel | 17.5 | | 0.14 | 2.18 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Potassium | 7200 | | 30.2 | 109 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Sodium | 201 | | 19.4 | 109 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Vanadium | 23.0 | | 0.27 | 2.18 | mg/Kg |
| Q2177-06 | B-202-SB01 | SOIL | Zinc | 80.0 | | 0.25 | 2.18 | mg/Kg |
| **Client ID :** | **EB05312025** | | | | | | | |
| Q2177-08 | EB05312025 | Water | Aluminum | 7.81 | J | 5.67 | 50.0 | ug/L |

# SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 84.2 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 8670 | * | 1 | 0.88 | 5.23 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7440-36-0 | Antimony | 0.30 | JN | 1 | 0.23 | 2.62 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7440-38-2 | Arsenic | 1.28 | | 1 | 0.20 | 1.05 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7440-39-3 | Barium | 111 | N* | 1 | 0.76 | 5.23 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7440-41-7 | Beryllium | 0.50 | | 1 | 0.026 | 0.31 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 1.02 | | 1 | 0.025 | 0.31 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7440-70-2 | Calcium | 6800 | * | 1 | 11.6 | 105 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 19.2 | | 1 | 0.049 | 0.52 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7440-48-4 | Cobalt | 11.5 | | 1 | 0.11 | 1.57 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7440-50-8 | Copper | 31.3 | | 1 | 0.23 | 1.05 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7439-89-6 | Iron | 16300 | * | 1 | 4.18 | 5.23 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7439-92-1 | Lead | 127 | | 1 | 0.14 | 0.63 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7439-95-4 | Magnesium | 5240 | * | 1 | 12.6 | 105 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7439-96-5 | Manganese | 118 | | 1 | 0.15 | 1.05 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.12 | | 1 | 0.0080 | 0.014 | mg/Kg | 06/02/25 08:35 | 06/03/25 14:34 | 7471B | |
| 7440-02-0 | Nickel | 23.3 | | 1 | 0.14 | 2.09 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7440-09-7 | Potassium | 6410 | * | 1 | 29.0 | 105 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7782-49-2 | Selenium | 0.27 | U | 1 | 0.27 | 1.05 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7440-22-4 | Silver | 0.13 | U | 1 | 0.13 | 0.52 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7440-23-5 | Sodium | 335 | N* | 1 | 18.6 | 105 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7440-28-0 | Thallium | 0.24 | U | 1 | 0.24 | 2.09 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7440-62-2 | Vanadium | 24.6 | | 1 | 0.26 | 2.09 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |
| 7440-66-6 | Zinc | 82.0 | N | 1 | 0.24 | 2.09 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:36 | 6010D | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Brown | Clarity Before: | | Texture: | Medium |
| Color After: | Yellow | Clarity After: | | Artifacts: | |
| Comments: | METALS-TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-04 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 62.8 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5970 | * | 1 | 1.26 | 7.51 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7440-36-0 | Antimony | 0.33 | UN | 1 | 0.33 | 3.76 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7440-38-2 | Arsenic | 1.00 | J | 1 | 0.28 | 1.50 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7440-39-3 | Barium | 5.38 | JN* | 1 | 1.10 | 7.51 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7440-41-7 | Beryllium | 0.29 | J | 1 | 0.038 | 0.45 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 0.19 | J | 1 | 0.036 | 0.45 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7440-70-2 | Calcium | 427 | * | 1 | 16.7 | 150 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 8.68 | | 1 | 0.071 | 0.75 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7440-48-4 | Cobalt | 3.45 | | 1 | 0.15 | 2.25 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7440-50-8 | Copper | 6.86 | | 1 | 0.33 | 1.50 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7439-89-6 | Iron | 9960 | * | 1 | 5.99 | 7.51 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7439-92-1 | Lead | 4.48 | | 1 | 0.20 | 0.90 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7439-95-4 | Magnesium | 1580 | * | 1 | 18.0 | 150 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7439-96-5 | Manganese | 65.9 | | 1 | 0.21 | 1.50 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.060 | | 1 | 0.010 | 0.019 | mg/Kg | 06/02/25 08:35 | 06/03/25 14:37 | 7471B | |
| 7440-02-0 | Nickel | 8.35 | | 1 | 0.20 | 3.00 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7440-09-7 | Potassium | 356 | * | 1 | 41.6 | 150 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7782-49-2 | Selenium | 0.39 | U | 1 | 0.39 | 1.50 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7440-22-4 | Silver | 0.18 | U | 1 | 0.18 | 0.75 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7440-23-5 | Sodium | 357 | N* | 1 | 26.7 | 150 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7440-28-0 | Thallium | 0.35 | U | 1 | 0.35 | 3.00 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7440-62-2 | Vanadium | 9.88 | | 1 | 0.38 | 3.00 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |
| 7440-66-6 | Zinc | 19.9 | N | 1 | 0.35 | 3.00 | mg/Kg | 06/02/25 13:05 | 06/10/25 21:40 | 6010D | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Brown | Clarity Before: | | Texture: | Medium |
| Color After: | Yellow | Clarity After: | | Artifacts: | |
| Comments: | METALS-TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-06 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 85.4 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 7040 | * | 1 | 0.92 | 5.45 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7440-36-0 | Antimony | 0.24 | UN | 1 | 0.24 | 2.72 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7440-38-2 | Arsenic | 2.83 | | 1 | 0.21 | 1.09 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7440-39-3 | Barium | 77.3 | N* | 1 | 0.80 | 5.45 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7440-41-7 | Beryllium | 0.44 | | 1 | 0.027 | 0.33 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 0.87 | | 1 | 0.026 | 0.33 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7440-70-2 | Calcium | 4840 | * | 1 | 12.1 | 109 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 14.5 | | 1 | 0.051 | 0.55 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7440-48-4 | Cobalt | 9.12 | | 1 | 0.11 | 1.63 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7440-50-8 | Copper | 12.0 | | 1 | 0.24 | 1.09 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7439-89-6 | Iron | 17500 | * | 1 | 4.35 | 5.45 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7439-92-1 | Lead | 31.2 | | 1 | 0.14 | 0.65 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7439-95-4 | Magnesium | 4570 | * | 1 | 13.1 | 109 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7439-96-5 | Manganese | 304 | | 1 | 0.15 | 1.09 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.079 | | 1 | 0.0080 | 0.015 | mg/Kg | 06/02/25 08:35 | 06/03/25 14:39 | 7471B | |
| 7440-02-0 | Nickel | 17.5 | | 1 | 0.14 | 2.18 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7440-09-7 | Potassium | 7200 | * | 1 | 30.2 | 109 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7782-49-2 | Selenium | 0.28 | U | 1 | 0.28 | 1.09 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7440-22-4 | Silver | 0.13 | U | 1 | 0.13 | 0.55 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7440-23-5 | Sodium | 201 | N* | 1 | 19.4 | 109 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7440-28-0 | Thallium | 0.25 | U | 1 | 0.25 | 2.18 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7440-62-2 | Vanadium | 23.0 | | 1 | 0.27 | 2.18 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |
| 7440-66-6 | Zinc | 80.0 | N | 1 | 0.25 | 2.18 | mg/Kg | 06/02/25 13:05 | 06/10/25 22:13 | 6010D | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Brown | Clarity Before: | | Texture: | Medium |
| Color After: | Yellow | Clarity After: | | Artifacts: | |
| Comments: | METALS-TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | EB05312025 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-08 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 7.81 | J | 1 | 5.67 | 50.0 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7440-36-0 | Antimony | 3.38 | UN | 1 | 3.38 | 25.0 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7440-38-2 | Arsenic | 2.56 | U | 1 | 2.56 | 10.0 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7440-39-3 | Barium | 7.28 | U | 1 | 7.28 | 50.0 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7440-41-7 | Beryllium | 0.28 | U | 1 | 0.28 | 3.00 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7440-43-9 | Cadmium | 0.25 | U | 1 | 0.25 | 3.00 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7440-70-2 | Calcium | 117 | U | 1 | 117 | 1000 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7440-47-3 | Chromium | 1.06 | U | 1 | 1.06 | 5.00 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7440-48-4 | Cobalt | 1.13 | U | 1 | 1.13 | 15.0 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7440-50-8 | Copper | 2.30 | UN | 1 | 2.30 | 10.0 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7439-89-6 | Iron | 11.7 | U | 1 | 11.7 | 50.0 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7439-92-1 | Lead | 1.15 | U | 1 | 1.15 | 6.00 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7439-95-4 | Magnesium | 122 | U | 1 | 122 | 1000 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7439-96-5 | Manganese | 2.97 | U | 1 | 2.97 | 10.0 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7439-97-6 | Mercury | 0.076 | UN | 1 | 0.076 | 0.20 | ug/L | 06/02/25 14:40 | 06/03/25 11:48 | 7470A | |
| 7440-02-0 | Nickel | 1.53 | U | 1 | 1.53 | 20.0 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7440-09-7 | Potassium | 459 | U | 1 | 459 | 1000 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7782-49-2 | Selenium | 4.82 | U | 1 | 4.82 | 10.0 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7440-22-4 | Silver | 0.81 | UN | 1 | 0.81 | 5.00 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7440-23-5 | Sodium | 434 | U | 1 | 434 | 1000 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7440-28-0 | Thallium | 2.19 | U | 1 | 2.19 | 20.0 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7440-62-2 | Vanadium | 3.13 | U | 1 | 3.13 | 20.0 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |
| 7440-66-6 | Zinc | 8.33 | UN | 1 | 8.33 | 20.0 | ug/L | 06/03/25 10:05 | 06/04/25 20:20 | 6010D | SW3010 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | METALS-TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICB24** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/03/2025 | 10:35 | LB135986 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB86** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/03/2025 | 10:40 | LB135986 |
| **CCB87** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/03/2025 | 11:25 | LB135986 |
| **CCB88** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/03/2025 | 11:53 | LB135986 |
| **CCB89** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/03/2025 | 12:04 | LB135986 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICB25** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/03/2025 | 12:46 | LB135987 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB90** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/03/2025 | 12:50 | LB135987 |
| **CCB91** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/03/2025 | 13:22 | LB135987 |
| **CCB92** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/03/2025 | 13:51 | LB135987 |
| **CCB93** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/03/2025 | 14:18 | LB135987 |
| **CCB94** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/03/2025 | 14:51 | LB135987 |
| **CCB95** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/03/2025 | 15:04 | LB135987 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| 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 | 06/04/2025 | 16:10 | LB136011 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/04/2025 | 16:10 | LB136011 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/04/2025 | 16:10 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 16:10 | LB136011 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/04/2025 | 16:10 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 16:10 | LB136011 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/04/2025 | 16:10 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 16:10 | LB136011 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/04/2025 | 16:10 | LB136011 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/04/2025 | 16:10 | LB136011 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/04/2025 | 16:10 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 16:10 | LB136011 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/04/2025 | 16:10 | LB136011 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/04/2025 | 16:10 | LB136011 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/04/2025 | 16:10 | LB136011 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/04/2025 | 16:10 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 16:10 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 16:10 | LB136011 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/04/2025 | 16:10 | LB136011 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/04/2025 | 16:10 | LB136011 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/04/2025 | 16:10 | LB136011 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/04/2025 | 16:10 | LB136011 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| 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 | 06/04/2025 | 16:52 | LB136011 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/04/2025 | 16:52 | LB136011 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/04/2025 | 16:52 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 16:52 | LB136011 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/04/2025 | 16:52 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 16:52 | LB136011 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/04/2025 | 16:52 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 16:52 | LB136011 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/04/2025 | 16:52 | LB136011 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/04/2025 | 16:52 | LB136011 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/04/2025 | 16:52 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 16:52 | LB136011 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/04/2025 | 16:52 | LB136011 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/04/2025 | 16:52 | LB136011 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/04/2025 | 16:52 | LB136011 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/04/2025 | 16:52 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 16:52 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 16:52 | LB136011 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/04/2025 | 16:52 | LB136011 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/04/2025 | 16:52 | LB136011 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/04/2025 | 16:52 | LB136011 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/04/2025 | 16:52 | LB136011 |
| CCB02 | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/04/2025 | 17:39 | LB136011 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/04/2025 | 17:39 | LB136011 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/04/2025 | 17:39 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 17:39 | LB136011 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/04/2025 | 17:39 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 17:39 | LB136011 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/04/2025 | 17:39 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 17:39 | LB136011 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/04/2025 | 17:39 | LB136011 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/04/2025 | 17:39 | LB136011 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/04/2025 | 17:39 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 17:39 | LB136011 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/04/2025 | 17:39 | LB136011 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/04/2025 | 17:39 | LB136011 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/04/2025 | 17:39 | LB136011 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/04/2025 | 17:39 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 17:39 | LB136011 |

Alliance TECHNICAL GROUP
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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| 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 | 06/04/2025 | 17:39 | LB136011 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/04/2025 | 17:39 | LB136011 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/04/2025 | 17:39 | LB136011 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/04/2025 | 17:39 | LB136011 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/04/2025 | 17:39 | LB136011 |
| CCB03 | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/04/2025 | 18:42 | LB136011 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/04/2025 | 18:42 | LB136011 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/04/2025 | 18:42 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 18:42 | LB136011 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/04/2025 | 18:42 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 18:42 | LB136011 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/04/2025 | 18:42 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 18:42 | LB136011 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/04/2025 | 18:42 | LB136011 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/04/2025 | 18:42 | LB136011 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/04/2025 | 18:42 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 18:42 | LB136011 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/04/2025 | 18:42 | LB136011 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/04/2025 | 18:42 | LB136011 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/04/2025 | 18:42 | LB136011 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/04/2025 | 18:42 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 18:42 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 18:42 | LB136011 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/04/2025 | 18:42 | LB136011 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/04/2025 | 18:42 | LB136011 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/04/2025 | 18:42 | LB136011 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/04/2025 | 18:42 | LB136011 |
| CCB04 | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/04/2025 | 19:30 | LB136011 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/04/2025 | 19:30 | LB136011 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/04/2025 | 19:30 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 19:30 | LB136011 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/04/2025 | 19:30 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 19:30 | LB136011 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/04/2025 | 19:30 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 19:30 | LB136011 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/04/2025 | 19:30 | LB136011 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/04/2025 | 19:30 | LB136011 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/04/2025 | 19:30 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 19:30 | LB136011 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| 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 | 06/04/2025 | 19:30 | LB136011 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/04/2025 | 19:30 | LB136011 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/04/2025 | 19:30 | LB136011 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/04/2025 | 19:30 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 19:30 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 19:30 | LB136011 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/04/2025 | 19:30 | LB136011 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/04/2025 | 19:30 | LB136011 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/04/2025 | 19:30 | LB136011 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/04/2025 | 19:30 | LB136011 |
| **CCB05** | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/04/2025 | 20:16 | LB136011 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/04/2025 | 20:16 | LB136011 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/04/2025 | 20:16 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 20:16 | LB136011 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/04/2025 | 20:16 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 20:16 | LB136011 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/04/2025 | 20:16 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 20:16 | LB136011 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/04/2025 | 20:16 | LB136011 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/04/2025 | 20:16 | LB136011 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/04/2025 | 20:16 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 20:16 | LB136011 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/04/2025 | 20:16 | LB136011 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/04/2025 | 20:16 | LB136011 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/04/2025 | 20:16 | LB136011 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/04/2025 | 20:16 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 20:16 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 20:16 | LB136011 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/04/2025 | 20:16 | LB136011 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/04/2025 | 20:16 | LB136011 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/04/2025 | 20:16 | LB136011 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/04/2025 | 20:16 | LB136011 |
| **CCB06** | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/04/2025 | 21:02 | LB136011 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/04/2025 | 21:02 | LB136011 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/04/2025 | 21:02 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 21:02 | LB136011 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/04/2025 | 21:02 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 21:02 | LB136011 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/04/2025 | 21:02 | LB136011 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| 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 | 06/04/2025 | 21:02 | LB136011 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/04/2025 | 21:02 | LB136011 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/04/2025 | 21:02 | LB136011 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/04/2025 | 21:02 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 21:02 | LB136011 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/04/2025 | 21:02 | LB136011 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/04/2025 | 21:02 | LB136011 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/04/2025 | 21:02 | LB136011 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/04/2025 | 21:02 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 21:02 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 21:02 | LB136011 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/04/2025 | 21:02 | LB136011 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/04/2025 | 21:02 | LB136011 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/04/2025 | 21:02 | LB136011 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/04/2025 | 21:02 | LB136011 |
| **CCB07** | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/04/2025 | 21:45 | LB136011 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/04/2025 | 21:45 | LB136011 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/04/2025 | 21:45 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 21:45 | LB136011 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/04/2025 | 21:45 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 21:45 | LB136011 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/04/2025 | 21:45 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 21:45 | LB136011 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/04/2025 | 21:45 | LB136011 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/04/2025 | 21:45 | LB136011 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/04/2025 | 21:45 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 21:45 | LB136011 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/04/2025 | 21:45 | LB136011 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/04/2025 | 21:45 | LB136011 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/04/2025 | 21:45 | LB136011 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/04/2025 | 21:45 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 21:45 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 21:45 | LB136011 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/04/2025 | 21:45 | LB136011 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/04/2025 | 21:45 | LB136011 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/04/2025 | 21:45 | LB136011 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/04/2025 | 21:45 | LB136011 |
| **CCB08** | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/04/2025 | 22:10 | LB136011 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/04/2025 | 22:10 | LB136011 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB08** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/04/2025 | 22:10 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 22:10 | LB136011 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/04/2025 | 22:10 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 22:10 | LB136011 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/04/2025 | 22:10 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 22:10 | LB136011 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/04/2025 | 22:10 | LB136011 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/04/2025 | 22:10 | LB136011 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/04/2025 | 22:10 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 22:10 | LB136011 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/04/2025 | 22:10 | LB136011 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/04/2025 | 22:10 | LB136011 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/04/2025 | 22:10 | LB136011 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/04/2025 | 22:10 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 22:10 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 22:10 | LB136011 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/04/2025 | 22:10 | LB136011 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/04/2025 | 22:10 | LB136011 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/04/2025 | 22:10 | LB136011 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/04/2025 | 22:10 | LB136011 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| 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 | 06/10/2025 | 14:45 | LB136097 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/10/2025 | 14:45 | LB136097 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/10/2025 | 14:45 | LB136097 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/10/2025 | 14:45 | LB136097 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/10/2025 | 14:45 | LB136097 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/10/2025 | 14:45 | LB136097 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/10/2025 | 14:45 | LB136097 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/10/2025 | 14:45 | LB136097 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/10/2025 | 14:45 | LB136097 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/10/2025 | 14:45 | LB136097 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/10/2025 | 14:45 | LB136097 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/10/2025 | 14:45 | LB136097 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/10/2025 | 14:45 | LB136097 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/10/2025 | 14:45 | LB136097 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/10/2025 | 14:45 | LB136097 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/10/2025 | 14:45 | LB136097 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/10/2025 | 14:45 | LB136097 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/10/2025 | 14:45 | LB136097 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/10/2025 | 14:45 | LB136097 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/10/2025 | 14:45 | LB136097 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/10/2025 | 14:45 | LB136097 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/10/2025 | 14:45 | LB136097 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| 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 | 06/10/2025 | 15:35 | LB136097 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/10/2025 | 15:35 | LB136097 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/10/2025 | 15:35 | LB136097 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/10/2025 | 15:35 | LB136097 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/10/2025 | 15:35 | LB136097 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/10/2025 | 15:35 | LB136097 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/10/2025 | 15:35 | LB136097 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/10/2025 | 15:35 | LB136097 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/10/2025 | 15:35 | LB136097 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/10/2025 | 15:35 | LB136097 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/10/2025 | 15:35 | LB136097 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/10/2025 | 15:35 | LB136097 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/10/2025 | 15:35 | LB136097 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/10/2025 | 15:35 | LB136097 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/10/2025 | 15:35 | LB136097 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/10/2025 | 15:35 | LB136097 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/10/2025 | 15:35 | LB136097 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/10/2025 | 15:35 | LB136097 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/10/2025 | 15:35 | LB136097 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/10/2025 | 15:35 | LB136097 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/10/2025 | 15:35 | LB136097 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/10/2025 | 15:35 | LB136097 |
| CCB02 | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/10/2025 | 16:32 | LB136097 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/10/2025 | 16:32 | LB136097 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/10/2025 | 16:32 | LB136097 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/10/2025 | 16:32 | LB136097 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/10/2025 | 16:32 | LB136097 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/10/2025 | 16:32 | LB136097 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/10/2025 | 16:32 | LB136097 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/10/2025 | 16:32 | LB136097 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/10/2025 | 16:32 | LB136097 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/10/2025 | 16:32 | LB136097 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/10/2025 | 16:32 | LB136097 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/10/2025 | 16:32 | LB136097 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/10/2025 | 16:32 | LB136097 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/10/2025 | 16:32 | LB136097 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/10/2025 | 16:32 | LB136097 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/10/2025 | 16:32 | LB136097 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/10/2025 | 16:32 | LB136097 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| 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 | 06/10/2025 | 16:32 | LB136097 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/10/2025 | 16:32 | LB136097 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/10/2025 | 16:32 | LB136097 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/10/2025 | 16:32 | LB136097 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/10/2025 | 16:32 | LB136097 |
| **CCB03** | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/10/2025 | 17:40 | LB136097 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/10/2025 | 17:40 | LB136097 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/10/2025 | 17:40 | LB136097 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/10/2025 | 17:40 | LB136097 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/10/2025 | 17:40 | LB136097 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/10/2025 | 17:40 | LB136097 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/10/2025 | 17:40 | LB136097 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/10/2025 | 17:40 | LB136097 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/10/2025 | 17:40 | LB136097 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/10/2025 | 17:40 | LB136097 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/10/2025 | 17:40 | LB136097 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/10/2025 | 17:40 | LB136097 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/10/2025 | 17:40 | LB136097 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/10/2025 | 17:40 | LB136097 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/10/2025 | 17:40 | LB136097 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/10/2025 | 17:40 | LB136097 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/10/2025 | 17:40 | LB136097 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/10/2025 | 17:40 | LB136097 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/10/2025 | 17:40 | LB136097 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/10/2025 | 17:40 | LB136097 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/10/2025 | 17:40 | LB136097 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/10/2025 | 17:40 | LB136097 |
| **CCB04** | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/10/2025 | 18:32 | LB136097 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/10/2025 | 18:32 | LB136097 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/10/2025 | 18:32 | LB136097 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/10/2025 | 18:32 | LB136097 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/10/2025 | 18:32 | LB136097 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/10/2025 | 18:32 | LB136097 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/10/2025 | 18:32 | LB136097 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/10/2025 | 18:32 | LB136097 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/10/2025 | 18:32 | LB136097 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/10/2025 | 18:32 | LB136097 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/10/2025 | 18:32 | LB136097 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/10/2025 | 18:32 | LB136097 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| 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 | 06/10/2025 | 18:32 | LB136097 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/10/2025 | 18:32 | LB136097 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/10/2025 | 18:32 | LB136097 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/10/2025 | 18:32 | LB136097 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/10/2025 | 18:32 | LB136097 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/10/2025 | 18:32 | LB136097 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/10/2025 | 18:32 | LB136097 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/10/2025 | 18:32 | LB136097 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/10/2025 | 18:32 | LB136097 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/10/2025 | 18:32 | LB136097 |
| **CCB05** | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/10/2025 | 19:22 | LB136097 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/10/2025 | 19:22 | LB136097 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/10/2025 | 19:22 | LB136097 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/10/2025 | 19:22 | LB136097 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/10/2025 | 19:22 | LB136097 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/10/2025 | 19:22 | LB136097 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/10/2025 | 19:22 | LB136097 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/10/2025 | 19:22 | LB136097 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/10/2025 | 19:22 | LB136097 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/10/2025 | 19:22 | LB136097 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/10/2025 | 19:22 | LB136097 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/10/2025 | 19:22 | LB136097 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/10/2025 | 19:22 | LB136097 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/10/2025 | 19:22 | LB136097 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/10/2025 | 19:22 | LB136097 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/10/2025 | 19:22 | LB136097 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/10/2025 | 19:22 | LB136097 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/10/2025 | 19:22 | LB136097 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/10/2025 | 19:22 | LB136097 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/10/2025 | 19:22 | LB136097 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/10/2025 | 19:22 | LB136097 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/10/2025 | 19:22 | LB136097 |
| **CCB06** | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/10/2025 | 20:14 | LB136097 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/10/2025 | 20:14 | LB136097 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/10/2025 | 20:14 | LB136097 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/10/2025 | 20:14 | LB136097 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/10/2025 | 20:14 | LB136097 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/10/2025 | 20:14 | LB136097 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/10/2025 | 20:14 | LB136097 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| 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 | 06/10/2025 | 20:14 | LB136097 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/10/2025 | 20:14 | LB136097 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/10/2025 | 20:14 | LB136097 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/10/2025 | 20:14 | LB136097 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/10/2025 | 20:14 | LB136097 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/10/2025 | 20:14 | LB136097 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/10/2025 | 20:14 | LB136097 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/10/2025 | 20:14 | LB136097 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/10/2025 | 20:14 | LB136097 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/10/2025 | 20:14 | LB136097 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/10/2025 | 20:14 | LB136097 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/10/2025 | 20:14 | LB136097 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/10/2025 | 20:14 | LB136097 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/10/2025 | 20:14 | LB136097 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/10/2025 | 20:14 | LB136097 |
| **CCB07** | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/10/2025 | 21:08 | LB136097 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/10/2025 | 21:08 | LB136097 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/10/2025 | 21:08 | LB136097 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/10/2025 | 21:08 | LB136097 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/10/2025 | 21:08 | LB136097 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/10/2025 | 21:08 | LB136097 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/10/2025 | 21:08 | LB136097 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/10/2025 | 21:08 | LB136097 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/10/2025 | 21:08 | LB136097 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/10/2025 | 21:08 | LB136097 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/10/2025 | 21:08 | LB136097 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/10/2025 | 21:08 | LB136097 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/10/2025 | 21:08 | LB136097 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/10/2025 | 21:08 | LB136097 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/10/2025 | 21:08 | LB136097 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/10/2025 | 21:08 | LB136097 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/10/2025 | 21:08 | LB136097 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/10/2025 | 21:08 | LB136097 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/10/2025 | 21:08 | LB136097 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/10/2025 | 21:08 | LB136097 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/10/2025 | 21:08 | LB136097 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/10/2025 | 21:08 | LB136097 |
| **CCB08** | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/10/2025 | 22:08 | LB136097 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/10/2025 | 22:08 | LB136097 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB08** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/10/2025 | 22:08 | LB136097 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/10/2025 | 22:08 | LB136097 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/10/2025 | 22:08 | LB136097 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/10/2025 | 22:08 | LB136097 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/10/2025 | 22:08 | LB136097 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/10/2025 | 22:08 | LB136097 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/10/2025 | 22:08 | LB136097 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/10/2025 | 22:08 | LB136097 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/10/2025 | 22:08 | LB136097 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/10/2025 | 22:08 | LB136097 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/10/2025 | 22:08 | LB136097 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/10/2025 | 22:08 | LB136097 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/10/2025 | 22:08 | LB136097 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/10/2025 | 22:08 | LB136097 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/10/2025 | 22:08 | LB136097 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/10/2025 | 22:08 | LB136097 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/10/2025 | 22:08 | LB136097 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/10/2025 | 22:08 | LB136097 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/10/2025 | 22:08 | LB136097 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/10/2025 | 22:08 | LB136097 |
| **CCB09** | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/10/2025 | 23:01 | LB136097 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/10/2025 | 23:01 | LB136097 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/10/2025 | 23:01 | LB136097 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/10/2025 | 23:01 | LB136097 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/10/2025 | 23:01 | LB136097 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/10/2025 | 23:01 | LB136097 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/10/2025 | 23:01 | LB136097 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/10/2025 | 23:01 | LB136097 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/10/2025 | 23:01 | LB136097 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/10/2025 | 23:01 | LB136097 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/10/2025 | 23:01 | LB136097 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/10/2025 | 23:01 | LB136097 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/10/2025 | 23:01 | LB136097 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/10/2025 | 23:01 | LB136097 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/10/2025 | 23:01 | LB136097 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/10/2025 | 23:01 | LB136097 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/10/2025 | 23:01 | LB136097 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/10/2025 | 23:01 | LB136097 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/10/2025 | 23:01 | LB136097 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB09** | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/10/2025 | 23:01 | LB136097 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/10/2025 | 23:01 | LB136097 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/10/2025 | 23:01 | LB136097 |
| **CCB10** | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/11/2025 | 00:02 | LB136097 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/11/2025 | 00:02 | LB136097 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/11/2025 | 00:02 | LB136097 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/11/2025 | 00:02 | LB136097 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/11/2025 | 00:02 | LB136097 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/11/2025 | 00:02 | LB136097 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/11/2025 | 00:02 | LB136097 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/11/2025 | 00:02 | LB136097 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/11/2025 | 00:02 | LB136097 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/11/2025 | 00:02 | LB136097 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/11/2025 | 00:02 | LB136097 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/11/2025 | 00:02 | LB136097 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/11/2025 | 00:02 | LB136097 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/11/2025 | 00:02 | LB136097 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/11/2025 | 00:02 | LB136097 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/11/2025 | 00:02 | LB136097 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/11/2025 | 00:02 | LB136097 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/11/2025 | 00:02 | LB136097 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/11/2025 | 00:02 | LB136097 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/11/2025 | 00:02 | LB136097 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/11/2025 | 00:02 | LB136097 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/11/2025 | 00:02 | LB136097 |
| **CCB11** | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/11/2025 | 01:39 | LB136097 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/11/2025 | 01:39 | LB136097 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/11/2025 | 01:39 | LB136097 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/11/2025 | 01:39 | LB136097 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/11/2025 | 01:39 | LB136097 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/11/2025 | 01:39 | LB136097 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/11/2025 | 01:39 | LB136097 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/11/2025 | 01:39 | LB136097 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/11/2025 | 01:39 | LB136097 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/11/2025 | 01:39 | LB136097 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/11/2025 | 01:39 | LB136097 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/11/2025 | 01:39 | LB136097 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/11/2025 | 01:39 | LB136097 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/11/2025 | 01:39 | LB136097 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCB11 | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/11/2025 | 01:39 | LB136097 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/11/2025 | 01:39 | LB136097 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/11/2025 | 01:39 | LB136097 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/11/2025 | 01:39 | LB136097 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/11/2025 | 01:39 | LB136097 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/11/2025 | 01:39 | LB136097 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/11/2025 | 01:39 | LB136097 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/11/2025 | 01:39 | LB136097 |
| CCB12 | Aluminum | 11.3 | +/-50 | U | 100 | P | 06/11/2025 | 02:25 | LB136097 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 06/11/2025 | 02:25 | LB136097 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/11/2025 | 02:25 | LB136097 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/11/2025 | 02:25 | LB136097 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 06/11/2025 | 02:25 | LB136097 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/11/2025 | 02:25 | LB136097 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 06/11/2025 | 02:25 | LB136097 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/11/2025 | 02:25 | LB136097 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 06/11/2025 | 02:25 | LB136097 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 06/11/2025 | 02:25 | LB136097 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 06/11/2025 | 02:25 | LB136097 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/11/2025 | 02:25 | LB136097 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 06/11/2025 | 02:25 | LB136097 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 06/11/2025 | 02:25 | LB136097 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 06/11/2025 | 02:25 | LB136097 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 06/11/2025 | 02:25 | LB136097 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/11/2025 | 02:25 | LB136097 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/11/2025 | 02:25 | LB136097 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 06/11/2025 | 02:25 | LB136097 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 06/11/2025 | 02:25 | LB136097 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 06/11/2025 | 02:25 | LB136097 |
| | Zinc | 16.7 | +/-20 | U | 40.0 | P | 06/11/2025 | 02:25 | LB136097 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Instrument:** CV1

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB168247BL** | | **WATER** | | **Batch Number:** | **PB168247** | | **Prep Date:** | **06/02/2025** | |
| | Mercury | 0.076 | <0.2 | U | 0.20 | CV | 06/03/2025 | 10:59 | LB135986 |

| Sample ID | Analyte | Result (mg/Kg) | Acceptance Limit | Conc Qual | CRQL mg/Kg | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB168249BL** | | **SOLID** | | **Batch Number:** | **PB168249** | | **Prep Date:** | **06/02/2025** | |
| | Mercury | 0.0070 | <0.013 | U | 0.013 | CV | 06/03/2025 | 13:53 | LB135987 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Instrument:** P4

| Sample ID | Analyte | Result (mg/Kg) | Acceptance Limit | Conc Qual | CRQL mg/Kg | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB168245BL** | | **SOLID** | | **Batch Number:** | **PB168245** | | **Prep Date:** | **06/02/2025** | |
| | Aluminum | 0.84 | <2.5 | U | 5.00 | P | 06/10/2025 | 20:35 | LB136097 |
| | Antimony | 0.22 | <1.25 | U | 2.50 | P | 06/10/2025 | 20:35 | LB136097 |
| | Arsenic | 0.19 | <0.5 | U | 1.00 | P | 06/10/2025 | 20:35 | LB136097 |
| | Barium | 0.73 | <2.5 | U | 5.00 | P | 06/10/2025 | 20:35 | LB136097 |
| | Beryllium | 0.025 | <0.15 | U | 0.30 | P | 06/10/2025 | 20:35 | LB136097 |
| | Cadmium | 0.024 | <0.15 | U | 0.30 | P | 06/10/2025 | 20:35 | LB136097 |
| | Calcium | 11.1 | <50 | U | 100 | P | 06/10/2025 | 20:35 | LB136097 |
| | Chromium | 0.047 | <0.25 | U | 0.50 | P | 06/10/2025 | 20:35 | LB136097 |
| | Cobalt | 0.10 | <0.75 | U | 1.50 | P | 06/10/2025 | 20:35 | LB136097 |
| | Copper | 0.22 | <0.5 | U | 1.00 | P | 06/10/2025 | 20:35 | LB136097 |
| | Iron | 3.99 | <2.5 | U | 5.00 | P | 06/10/2025 | 20:35 | LB136097 |
| | Lead | 0.13 | <0.3 | U | 0.60 | P | 06/10/2025 | 20:35 | LB136097 |
| | Magnesium | 12.0 | <50 | U | 100 | P | 06/10/2025 | 20:35 | LB136097 |
| | Manganese | 0.14 | <0.5 | U | 1.00 | P | 06/10/2025 | 20:35 | LB136097 |
| | Nickel | 0.13 | <1 | U | 2.00 | P | 06/10/2025 | 20:35 | LB136097 |
| | Potassium | 27.7 | <50 | U | 100 | P | 06/10/2025 | 20:35 | LB136097 |
| | Selenium | 0.26 | <0.5 | U | 1.00 | P | 06/10/2025 | 20:35 | LB136097 |
| | Silver | 0.12 | <0.25 | U | 0.50 | P | 06/10/2025 | 20:35 | LB136097 |
| | Sodium | 17.8 | <50 | U | 100 | P | 06/10/2025 | 20:35 | LB136097 |
| | Thallium | 0.23 | <1 | U | 2.00 | P | 06/10/2025 | 20:35 | LB136097 |
| | Vanadium | 0.25 | <1 | U | 2.00 | P | 06/10/2025 | 20:35 | LB136097 |
| | Zinc | 0.23 | <1 | U | 2.00 | P | 06/10/2025 | 20:35 | LB136097 |

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB168255BL** | | **WATER** | | **Batch Number:** | **PB168255** | | **Prep Date:** | **06/03/2025** | |
| | Aluminum | 5.67 | <25 | U | 50.0 | P | 06/04/2025 | 19:51 | LB136011 |
| | Antimony | 3.38 | <12.5 | U | 25.0 | P | 06/04/2025 | 19:51 | LB136011 |
| | Arsenic | 2.56 | <5 | U | 10.0 | P | 06/04/2025 | 19:51 | LB136011 |
| | Barium | 7.28 | <25 | U | 50.0 | P | 06/04/2025 | 19:51 | LB136011 |
| | Beryllium | 0.28 | <1.5 | U | 3.00 | P | 06/04/2025 | 19:51 | LB136011 |
| | Cadmium | 0.25 | <1.5 | U | 3.00 | P | 06/04/2025 | 19:51 | LB136011 |
| | Calcium | 117 | <500 | U | 1000 | P | 06/04/2025 | 19:51 | LB136011 |
| | Chromium | 1.06 | <2.5 | U | 5.00 | P | 06/04/2025 | 19:51 | LB136011 |
| | Cobalt | 1.13 | <7.5 | U | 15.0 | P | 06/04/2025 | 19:51 | LB136011 |
| | Copper | 2.30 | <5 | U | 10.0 | P | 06/04/2025 | 19:51 | LB136011 |
| | Iron | 11.7 | <25 | U | 50.0 | P | 06/04/2025 | 19:51 | LB136011 |
| | Lead | 1.15 | <3 | U | 6.00 | P | 06/04/2025 | 19:51 | LB136011 |
| | Magnesium | 122 | <500 | U | 1000 | P | 06/04/2025 | 19:51 | LB136011 |
| | Manganese | 2.97 | <5 | U | 10.0 | P | 06/04/2025 | 19:51 | LB136011 |
| | Nickel | 1.53 | <10 | U | 20.0 | P | 06/04/2025 | 19:51 | LB136011 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Instrument:** P4

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Potassium | 459 | <500 | U | 1000 | P | 06/04/2025 | 19:51 | LB136011 |
| Selenium | 4.82 | <5 | U | 10.0 | P | 06/04/2025 | 19:51 | LB136011 |
| Silver | 0.81 | <2.5 | U | 5.00 | P | 06/04/2025 | 19:51 | LB136011 |
| Sodium | 434 | <500 | U | 1000 | P | 06/04/2025 | 19:51 | LB136011 |
| Thallium | 2.19 | <10 | U | 20.0 | P | 06/04/2025 | 19:51 | LB136011 |
| Vanadium | 3.13 | <10 | U | 20.0 | P | 06/04/2025 | 19:51 | LB136011 |
| Zinc | 8.33 | <10 | U | 20.0 | P | 06/04/2025 | 19:51 | LB136011 |

# METAL CALIBRATION DATA

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 |
|---|---|---|---|---|---|---|---|---|---|
| ICV24 | Mercury | 4.16 | 4.0 | 104 | 90 - 110 | CV | 06/03/2025 | 10:33 | LB135986 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 |
|---|---|---|---|---|---|---|---|---|---|
| CCV86 | Mercury | 4.85 | 5.0 | 97 | 90 - 110 | CV | 06/03/2025 | 10:38 | LB135986 |
| CCV87 | Mercury | 4.56 | 5.0 | 91 | 90 - 110 | CV | 06/03/2025 | 11:22 | LB135986 |
| CCV88 | Mercury | 4.81 | 5.0 | 96 | 90 - 110 | CV | 06/03/2025 | 11:50 | LB135986 |
| CCV89 | Mercury | 4.80 | 5.0 | 96 | 90 - 110 | CV | 06/03/2025 | 12:02 | LB135986 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 |
|---|---|---|---|---|---|---|---|---|---|
| ICV25 | Mercury | 4.05 | 4.0 | 101 | 90 - 110 | CV | 06/03/2025 | 12:43 | LB135987 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 |
|---|---|---|---|---|---|---|---|---|---|
| CCV90 | Mercury | 4.72 | 5.0 | 94 | 90 - 110 | CV | 06/03/2025 | 12:48 | LB135987 |
| CCV91 | Mercury | 4.54 | 5.0 | 91 | 90 - 110 | CV | 06/03/2025 | 13:20 | LB135987 |
| CCV92 | Mercury | 4.53 | 5.0 | 90 | 90 - 110 | CV | 06/03/2025 | 13:48 | LB135987 |
| CCV93 | Mercury | 4.88 | 5.0 | 98 | 90 - 110 | CV | 06/03/2025 | 14:16 | LB135987 |
| CCV94 | Mercury | 4.76 | 5.0 | 95 | 90 - 110 | CV | 06/03/2025 | 14:48 | LB135987 |
| CCV95 | Mercury | 4.82 | 5.0 | 96 | 90 - 110 | CV | 06/03/2025 | 15:02 | LB135987 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 | 2470 | 2500 | 99 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Antimony | 1020 | 1000 | 102 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Arsenic | 1000 | 1000 | 100 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Barium | 552 | 520 | 106 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Beryllium | 472 | 510 | 92 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Cadmium | 500 | 510 | 98 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Calcium | 9520 | 10000 | 95 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Chromium | 518 | 520 | 100 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Cobalt | 521 | 520 | 100 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Copper | 527 | 510 | 103 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Iron | 10100 | 10000 | 100 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Lead | 976 | 1000 | 98 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Magnesium | 5940 | 6000 | 99 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Manganese | 500 | 520 | 96 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Nickel | 532 | 530 | 100 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Potassium | 10500 | 9900 | 106 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Selenium | 1000 | 1000 | 100 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Silver | 234 | 250 | 94 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Sodium | 10400 | 10000 | 104 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Thallium | 1000 | 1000 | 100 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Vanadium | 469 | 500 | 94 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Zinc | 971 | 1000 | 97 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV01 | Aluminum | 103 | 100 | 103 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Antimony | 52.4 | 50.0 | 105 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Arsenic | 18.1 | 20.0 | 90 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Barium | 88.2 | 100 | 88 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Beryllium | 5.51 | 6.0 | 92 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Cadmium | 5.84 | 6.0 | 97 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Calcium | 1880 | 2000 | 94 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Chromium | 10.2 | 10.0 | 102 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Cobalt | 29.2 | 30.0 | 97 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Copper | 21.5 | 20.0 | 108 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Iron | 109 | 100 | 109 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Lead | 11.3 | 12.0 | 94 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Magnesium | 1890 | 2000 | 95 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Manganese | 18.7 | 20.0 | 94 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Nickel | 39.9 | 40.0 | 100 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Potassium | 1870 | 2000 | 94 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Selenium | 23.1 | 20.0 | 115 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Silver | 9.80 | 10.0 | 98 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Sodium | 1770 | 2000 | 88 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Thallium | 39.8 | 40.0 | 100 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Vanadium | 37.5 | 40.0 | 94 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Zinc | 42.0 | 40.0 | 105 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 | 9950 | 10000 | 100 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Antimony | 5070 | 5000 | 102 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Arsenic | 5030 | 5000 | 101 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Barium | 9780 | 10000 | 98 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Beryllium | 247 | 250 | 99 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Cadmium | 2510 | 2500 | 100 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Calcium | 24300 | 25000 | 97 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Chromium | 993 | 1000 | 99 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Cobalt | 2510 | 2500 | 100 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Copper | 1280 | 1250 | 102 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Iron | 4790 | 5000 | 96 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Lead | 5010 | 5000 | 100 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Magnesium | 24300 | 25000 | 97 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Manganese | 2440 | 2500 | 98 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Nickel | 2530 | 2500 | 101 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Potassium | 24200 | 25000 | 97 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Selenium | 5070 | 5000 | 101 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Silver | 1230 | 1250 | 99 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Sodium | 24500 | 25000 | 98 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Thallium | 4790 | 5000 | 96 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Vanadium | 2420 | 2500 | 97 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Zinc | 2450 | 2500 | 98 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| CCV02 | Aluminum | 9620 | 10000 | 96 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Antimony | 4990 | 5000 | 100 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Arsenic | 4960 | 5000 | 99 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Barium | 9200 | 10000 | 92 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Beryllium | 244 | 250 | 98 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Cadmium | 2460 | 2500 | 98 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Calcium | 23500 | 25000 | 94 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Chromium | 985 | 1000 | 98 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Cobalt | 2460 | 2500 | 98 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Copper | 1250 | 1250 | 100 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Iron | 4740 | 5000 | 95 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Lead | 4910 | 5000 | 98 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 | 23600 | 25000 | 94 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Manganese | 2330 | 2500 | 93 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Nickel | 2480 | 2500 | 99 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Potassium | 23800 | 25000 | 95 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Selenium | 5060 | 5000 | 101 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Silver | 1230 | 1250 | 98 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Sodium | 23700 | 25000 | 95 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Thallium | 5120 | 5000 | 102 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Vanadium | 2340 | 2500 | 94 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Zinc | 2480 | 2500 | 99 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| CCV03 | Aluminum | 9250 | 10000 | 92 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Antimony | 4830 | 5000 | 97 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Arsenic | 4790 | 5000 | 96 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Barium | 9130 | 10000 | 91 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Beryllium | 231 | 250 | 93 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Cadmium | 2390 | 2500 | 95 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Calcium | 22900 | 25000 | 91 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Chromium | 953 | 1000 | 95 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Cobalt | 2380 | 2500 | 95 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Copper | 1220 | 1250 | 97 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Iron | 4730 | 5000 | 95 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Lead | 4750 | 5000 | 95 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Magnesium | 22800 | 25000 | 91 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Manganese | 2290 | 2500 | 92 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Nickel | 2400 | 2500 | 96 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Potassium | 23600 | 25000 | 95 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Selenium | 4850 | 5000 | 97 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Silver | 1190 | 1250 | 96 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Sodium | 23900 | 25000 | 96 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Thallium | 4610 | 5000 | 92 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Vanadium | 2280 | 2500 | 91 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Zinc | 2370 | 2500 | 95 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| CCV04 | Aluminum | 9170 | 10000 | 92 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Antimony | 4740 | 5000 | 95 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 | 4700 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Barium | 9070 | 10000 | 91 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Beryllium | 227 | 250 | 91 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Cadmium | 2360 | 2500 | 94 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Calcium | 22800 | 25000 | 91 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Chromium | 944 | 1000 | 94 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Cobalt | 2360 | 2500 | 94 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Copper | 1190 | 1250 | 96 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Iron | 4670 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Lead | 4700 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Magnesium | 22700 | 25000 | 91 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Manganese | 2280 | 2500 | 91 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Nickel | 2370 | 2500 | 95 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Potassium | 23200 | 25000 | 93 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Selenium | 4750 | 5000 | 95 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Silver | 1170 | 1250 | 94 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Sodium | 23600 | 25000 | 94 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Thallium | 4830 | 5000 | 97 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Vanadium | 2280 | 2500 | 91 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Zinc | 2310 | 2500 | 92 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| CCV05 | Aluminum | 9260 | 10000 | 93 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Antimony | 4750 | 5000 | 95 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Arsenic | 4700 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Barium | 9550 | 10000 | 96 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Beryllium | 228 | 250 | 91 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Cadmium | 2350 | 2500 | 94 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Calcium | 23100 | 25000 | 92 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Chromium | 942 | 1000 | 94 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Cobalt | 2360 | 2500 | 94 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Copper | 1200 | 1250 | 96 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Iron | 4820 | 5000 | 96 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Lead | 4720 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Magnesium | 22700 | 25000 | 91 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Manganese | 2330 | 2500 | 93 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV05 | Nickel | 2360 | 2500 | 95 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Potassium | 24000 | 25000 | 96 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Selenium | 4730 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Silver | 1190 | 1250 | 95 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Sodium | 24700 | 25000 | 99 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Thallium | 4790 | 5000 | 96 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Vanadium | 2310 | 2500 | 92 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Zinc | 2340 | 2500 | 94 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| CCV06 | Aluminum | 9210 | 10000 | 92 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Antimony | 4660 | 5000 | 93 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Arsenic | 4620 | 5000 | 92 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Barium | 9410 | 10000 | 94 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Beryllium | 231 | 250 | 93 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Cadmium | 2320 | 2500 | 93 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Calcium | 23300 | 25000 | 93 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Chromium | 930 | 1000 | 93 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Cobalt | 2330 | 2500 | 93 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Copper | 1170 | 1250 | 94 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Iron | 4690 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Lead | 4650 | 5000 | 93 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Magnesium | 23000 | 25000 | 92 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Manganese | 2350 | 2500 | 94 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Nickel | 2330 | 2500 | 93 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Potassium | 23000 | 25000 | 92 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Selenium | 4630 | 5000 | 92 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Silver | 1160 | 1250 | 93 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Sodium | 23500 | 25000 | 94 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Thallium | 4690 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Vanadium | 2310 | 2500 | 92 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Zinc | 2290 | 2500 | 92 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| CCV07 | Aluminum | 9220 | 10000 | 92 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Antimony | 4730 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Arsenic | 4710 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Barium | 9600 | 10000 | 96 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV07 | Beryllium | 230 | 250 | 92 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Cadmium | 2370 | 2500 | 95 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Calcium | 23400 | 25000 | 94 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Chromium | 945 | 1000 | 94 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Cobalt | 2360 | 2500 | 95 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Copper | 1190 | 1250 | 95 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Iron | 4930 | 5000 | 98 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Lead | 4730 | 5000 | 95 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Magnesium | 23000 | 25000 | 92 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Manganese | 2370 | 2500 | 95 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Nickel | 2370 | 2500 | 95 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Potassium | 24100 | 25000 | 96 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Selenium | 4690 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Silver | 1190 | 1250 | 95 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Sodium | 24700 | 25000 | 99 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Thallium | 4700 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Vanadium | 2340 | 2500 | 93 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Zinc | 2340 | 2500 | 94 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| CCV08 | Aluminum | 9270 | 10000 | 93 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Antimony | 4660 | 5000 | 93 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Arsenic | 4620 | 5000 | 92 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Barium | 9210 | 10000 | 92 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Beryllium | 245 | 250 | 98 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Cadmium | 2330 | 2500 | 93 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Calcium | 23100 | 25000 | 92 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Chromium | 937 | 1000 | 94 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Cobalt | 2330 | 2500 | 93 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Copper | 1170 | 1250 | 94 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Iron | 4430 | 5000 | 88 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Lead | 4670 | 5000 | 93 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Magnesium | 23200 | 25000 | 93 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Manganese | 2330 | 2500 | 93 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Nickel | 2330 | 2500 | 93 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Potassium | 21800 | 25000 | 87 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV08 | Selenium | 4580 | 5000 | 92 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Silver | 1170 | 1250 | 94 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Sodium | 22000 | 25000 | 88 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Thallium | 4600 | 5000 | 92 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Vanadium | 2300 | 2500 | 92 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Zinc | 2290 | 2500 | 92 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 | 7520 | 8000 | 94 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Antimony | 4020 | 4000 | 100 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Arsenic | 3850 | 4000 | 96 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Barium | 7450 | 8000 | 93 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Beryllium | 198 | 200 | 99 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Cadmium | 1920 | 2000 | 96 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Calcium | 18500 | 20000 | 92 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Chromium | 794 | 800 | 99 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Cobalt | 1940 | 2000 | 97 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Copper | 994 | 1000 | 99 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Iron | 3770 | 4000 | 94 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Lead | 3800 | 4000 | 95 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Magnesium | 18700 | 20000 | 93 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Manganese | 1860 | 2000 | 93 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Nickel | 1930 | 2000 | 97 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Potassium | 21800 | 20000 | 109 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Selenium | 3880 | 4000 | 97 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Silver | 978 | 1000 | 98 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Sodium | 21900 | 20000 | 109 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Thallium | 3740 | 4000 | 94 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Vanadium | 1900 | 2000 | 95 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |
| | Zinc | 1980 | 2000 | 99 | 90 - 110 | P | 06/10/2025 | 14:37 | LB136097 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV01 | Aluminum | 110 | 100 | 110 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Antimony | 55.0 | 50.0 | 110 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Arsenic | 21.2 | 20.0 | 106 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Barium | 101 | 100 | 101 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Beryllium | 6.23 | 6.0 | 104 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Cadmium | 6.31 | 6.0 | 105 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Calcium | 2040 | 2000 | 102 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Chromium | 10.8 | 10.0 | 108 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Cobalt | 30.5 | 30.0 | 102 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Copper | 22.6 | 20.0 | 113 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Iron | 108 | 100 | 108 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Lead | 12.8 | 12.0 | 107 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Magnesium | 2030 | 2000 | 102 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Manganese | 21.1 | 20.0 | 106 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Nickel | 41.6 | 40.0 | 104 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Potassium | 1960 | 2000 | 98 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Selenium | 19.7 | 20.0 | 98 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Silver | 10.5 | 10.0 | 105 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Sodium | 1920 | 2000 | 96 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Thallium | 41.3 | 40.0 | 103 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Vanadium | 38.7 | 40.0 | 97 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |
| | Zinc | 43.7 | 40.0 | 109 | 80 - 120 | P | 06/10/2025 | 14:41 | LB136097 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Aluminum | 10100 | 10000 | 101 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Antimony | 5060 | 5000 | 101 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Arsenic | 5050 | 5000 | 101 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Barium | 9840 | 10000 | 98 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Beryllium | 262 | 250 | 105 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Cadmium | 2510 | 2500 | 100 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Calcium | 24900 | 25000 | 100 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Chromium | 1030 | 1000 | 103 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Cobalt | 2500 | 2500 | 100 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Copper | 1270 | 1250 | 101 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Iron | 4860 | 5000 | 97 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Lead | 5030 | 5000 | 100 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Magnesium | 25000 | 25000 | 100 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Manganese | 2480 | 2500 | 99 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Nickel | 2510 | 2500 | 100 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Potassium | 24200 | 25000 | 97 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Selenium | 5080 | 5000 | 102 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Silver | 1270 | 1250 | 101 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Sodium | 24100 | 25000 | 96 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Thallium | 5100 | 5000 | 102 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Vanadium | 2510 | 2500 | 100 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| | Zinc | 2560 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 15:30 | LB136097 |
| CCV02 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Antimony | 5040 | 5000 | 101 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Arsenic | 5070 | 5000 | 101 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Barium | 9830 | 10000 | 98 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Beryllium | 261 | 250 | 104 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Cadmium | 2540 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Calcium | 24900 | 25000 | 100 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Chromium | 1030 | 1000 | 103 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Cobalt | 2530 | 2500 | 101 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Copper | 1280 | 1250 | 102 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Iron | 4930 | 5000 | 99 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Lead | 5070 | 5000 | 101 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 | 25000 | 25000 | 100 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Manganese | 2460 | 2500 | 98 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Nickel | 2540 | 2500 | 101 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Potassium | 24500 | 25000 | 98 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Selenium | 5100 | 5000 | 102 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Silver | 1270 | 1250 | 102 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Sodium | 24400 | 25000 | 97 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Thallium | 5070 | 5000 | 101 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Vanadium | 2510 | 2500 | 100 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| | Zinc | 2570 | 2500 | 103 | 90 - 110 | P | 06/10/2025 | 16:28 | LB136097 |
| CCV03 | Aluminum | 9930 | 10000 | 99 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Antimony | 5110 | 5000 | 102 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Arsenic | 5130 | 5000 | 103 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Barium | 10200 | 10000 | 102 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Beryllium | 243 | 250 | 97 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Cadmium | 2540 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Calcium | 25000 | 25000 | 100 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Chromium | 1030 | 1000 | 103 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Cobalt | 2530 | 2500 | 101 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Copper | 1280 | 1250 | 102 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Iron | 5390 | 5000 | 108 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Lead | 5080 | 5000 | 102 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Magnesium | 24700 | 25000 | 99 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Manganese | 2500 | 2500 | 100 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Nickel | 2540 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Potassium | 26400 | 25000 | 105 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Selenium | 5140 | 5000 | 103 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Silver | 1280 | 1250 | 103 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Sodium | 26700 | 25000 | 107 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Thallium | 4990 | 5000 | 100 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Vanadium | 2540 | 2500 | 101 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| | Zinc | 2580 | 2500 | 103 | 90 - 110 | P | 06/10/2025 | 17:36 | LB136097 |
| CCV04 | Aluminum | 9910 | 10000 | 99 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Antimony | 5130 | 5000 | 103 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 | 5200 | 5000 | 104 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Barium | 10300 | 10000 | 103 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Beryllium | 246 | 250 | 99 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Cadmium | 2580 | 2500 | 103 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Calcium | 25200 | 25000 | 101 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Chromium | 1050 | 1000 | 105 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Cobalt | 2560 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Copper | 1290 | 1250 | 103 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Iron | 5420 | 5000 | 108 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Lead | 5160 | 5000 | 103 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Magnesium | 24800 | 25000 | 99 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Manganese | 2510 | 2500 | 100 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Nickel | 2570 | 2500 | 103 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Potassium | 25900 | 25000 | 104 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Selenium | 5220 | 5000 | 104 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Silver | 1290 | 1250 | 103 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Sodium | 26000 | 25000 | 104 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Thallium | 5110 | 5000 | 102 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Vanadium | 2550 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| | Zinc | 2540 | 2500 | 101 | 90 - 110 | P | 06/10/2025 | 18:28 | LB136097 |
| CCV05 | Aluminum | 9840 | 10000 | 98 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Antimony | 5120 | 5000 | 102 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Arsenic | 5170 | 5000 | 103 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Barium | 10200 | 10000 | 102 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Beryllium | 243 | 250 | 97 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Cadmium | 2550 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Calcium | 24900 | 25000 | 100 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Chromium | 1030 | 1000 | 103 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Cobalt | 2530 | 2500 | 101 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Copper | 1270 | 1250 | 102 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Iron | 5340 | 5000 | 107 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Lead | 5090 | 5000 | 102 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Magnesium | 24400 | 25000 | 98 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Manganese | 2490 | 2500 | 100 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 | 2540 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Potassium | 25200 | 25000 | 101 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Selenium | 5190 | 5000 | 104 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Sodium | 25200 | 25000 | 101 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Thallium | 5000 | 5000 | 100 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Vanadium | 2540 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| | Zinc | 2510 | 2500 | 100 | 90 - 110 | P | 06/10/2025 | 19:18 | LB136097 |
| CCV06 | Aluminum | 10100 | 10000 | 100 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Antimony | 5120 | 5000 | 102 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Arsenic | 5160 | 5000 | 103 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Barium | 9960 | 10000 | 100 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Beryllium | 262 | 250 | 105 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Cadmium | 2550 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Calcium | 25100 | 25000 | 100 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Chromium | 1050 | 1000 | 105 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Cobalt | 2540 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Copper | 1270 | 1250 | 102 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Iron | 5150 | 5000 | 103 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Lead | 5110 | 5000 | 102 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Magnesium | 25000 | 25000 | 100 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Manganese | 2500 | 2500 | 100 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Nickel | 2550 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Potassium | 24100 | 25000 | 96 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Selenium | 5190 | 5000 | 104 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Silver | 1290 | 1250 | 103 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Sodium | 23800 | 25000 | 95 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Thallium | 5010 | 5000 | 100 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Vanadium | 2560 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| | Zinc | 2570 | 2500 | 103 | 90 - 110 | P | 06/10/2025 | 20:09 | LB136097 |
| CCV07 | Aluminum | 10100 | 10000 | 101 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Antimony | 5160 | 5000 | 103 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Arsenic | 5230 | 5000 | 104 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Barium | 10100 | 10000 | 101 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV07 | Beryllium | 261 | 250 | 104 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Cadmium | 2600 | 2500 | 104 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Calcium | 25600 | 25000 | 102 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Chromium | 1050 | 1000 | 105 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Cobalt | 2590 | 2500 | 103 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Copper | 1270 | 1250 | 102 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Iron | 5190 | 5000 | 104 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Lead | 5210 | 5000 | 104 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Magnesium | 25400 | 25000 | 102 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Manganese | 2550 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Nickel | 2590 | 2500 | 104 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Potassium | 23600 | 25000 | 94 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Selenium | 5230 | 5000 | 105 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Silver | 1280 | 1250 | 102 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Sodium | 23500 | 25000 | 94 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Thallium | 5090 | 5000 | 102 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Vanadium | 2590 | 2500 | 104 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| | Zinc | 2540 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 21:04 | LB136097 |
| CCV08 | Aluminum | 10100 | 10000 | 101 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Antimony | 5200 | 5000 | 104 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Arsenic | 5240 | 5000 | 105 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Barium | 10100 | 10000 | 101 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Beryllium | 262 | 250 | 105 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Cadmium | 2550 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Calcium | 25400 | 25000 | 101 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Chromium | 1050 | 1000 | 105 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Cobalt | 2560 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Copper | 1280 | 1250 | 103 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Iron | 5140 | 5000 | 103 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Lead | 5130 | 5000 | 102 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Magnesium | 25300 | 25000 | 101 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Manganese | 2540 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Nickel | 2560 | 2500 | 103 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Potassium | 23500 | 25000 | 94 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV08 | Selenium | 5280 | 5000 | 106 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Silver | 1280 | 1250 | 102 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Sodium | 23400 | 25000 | 94 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Thallium | 5010 | 5000 | 100 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Vanadium | 2580 | 2500 | 103 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| | Zinc | 2550 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 22:04 | LB136097 |
| CCV09 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Antimony | 5110 | 5000 | 102 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Arsenic | 5150 | 5000 | 103 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Barium | 10100 | 10000 | 101 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Beryllium | 260 | 250 | 104 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Cadmium | 2550 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Calcium | 25100 | 25000 | 101 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Chromium | 1050 | 1000 | 105 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Cobalt | 2550 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Copper | 1270 | 1250 | 102 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Iron | 5160 | 5000 | 103 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Lead | 5100 | 5000 | 102 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Magnesium | 25000 | 25000 | 100 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Manganese | 2510 | 2500 | 100 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Nickel | 2560 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Potassium | 24100 | 25000 | 96 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Selenium | 5180 | 5000 | 104 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Silver | 1290 | 1250 | 103 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Sodium | 23900 | 25000 | 96 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Thallium | 5020 | 5000 | 100 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Vanadium | 2540 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| | Zinc | 2580 | 2500 | 103 | 90 - 110 | P | 06/10/2025 | 22:56 | LB136097 |
| CCV10 | Aluminum | 10200 | 10000 | 102 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Antimony | 5170 | 5000 | 103 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Arsenic | 5180 | 5000 | 104 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Barium | 10000 | 10000 | 100 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Beryllium | 264 | 250 | 106 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Cadmium | 2540 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV10 | Calcium | 25400 | 25000 | 102 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Chromium | 1060 | 1000 | 106 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Cobalt | 2550 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Copper | 1280 | 1250 | 102 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Iron | 5200 | 5000 | 104 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Lead | 5100 | 5000 | 102 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Magnesium | 25400 | 25000 | 102 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Manganese | 2530 | 2500 | 101 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Nickel | 2560 | 2500 | 102 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Potassium | 24000 | 25000 | 96 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Selenium | 5230 | 5000 | 105 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Silver | 1310 | 1250 | 104 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Sodium | 23600 | 25000 | 94 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Thallium | 4940 | 5000 | 99 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Vanadium | 2570 | 2500 | 103 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| | Zinc | 2630 | 2500 | 105 | 90 - 110 | P | 06/10/2025 | 23:57 | LB136097 |
| CCV11 | Aluminum | 10200 | 10000 | 102 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Antimony | 5240 | 5000 | 105 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Arsenic | 5280 | 5000 | 106 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Barium | 10100 | 10000 | 101 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Beryllium | 259 | 250 | 104 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Cadmium | 2570 | 2500 | 103 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Calcium | 25100 | 25000 | 100 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Chromium | 1040 | 1000 | 104 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Cobalt | 2580 | 2500 | 103 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Copper | 1290 | 1250 | 103 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Iron | 5060 | 5000 | 101 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Lead | 5160 | 5000 | 103 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Magnesium | 24900 | 25000 | 100 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Manganese | 2520 | 2500 | 101 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Nickel | 2590 | 2500 | 104 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Potassium | 23800 | 25000 | 95 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Selenium | 5320 | 5000 | 106 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Silver | 1280 | 1250 | 103 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV11 | Sodium | 23700 | 25000 | 95 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Thallium | 4950 | 5000 | 99 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Vanadium | 2560 | 2500 | 102 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| | Zinc | 2600 | 2500 | 104 | 90 - 110 | P | 06/11/2025 | 01:35 | LB136097 |
| CCV12 | Aluminum | 10200 | 10000 | 102 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Antimony | 4840 | 5000 | 97 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Arsenic | 4850 | 5000 | 97 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Barium | 10000 | 10000 | 100 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Beryllium | 264 | 250 | 105 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Cadmium | 2400 | 2500 | 96 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Calcium | 24900 | 25000 | 99 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Chromium | 1030 | 1000 | 103 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Cobalt | 2420 | 2500 | 97 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Copper | 1200 | 1250 | 96 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Iron | 4930 | 5000 | 99 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Lead | 4810 | 5000 | 96 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Magnesium | 24900 | 25000 | 100 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Manganese | 2490 | 2500 | 100 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Nickel | 2420 | 2500 | 97 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Potassium | 23100 | 25000 | 92 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Selenium | 4880 | 5000 | 98 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Silver | 1280 | 1250 | 102 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Sodium | 22800 | 25000 | 91 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Thallium | 4660 | 5000 | 93 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Vanadium | 2530 | 2500 | 101 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |
| | Zinc | 2590 | 2500 | 104 | 90 - 110 | P | 06/11/2025 | 02:21 | LB136097 |

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# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 | 0.18 | 0.2 | 91 | 70 - 130 | CV | 06/03/2025 | 10:50 | LB135986 |
| CRA | Mercury | 0.21 | 0.2 | 104 | 70 - 130 | CV | 06/03/2025 | 12:52 | LB135987 |
| CRI01 | Aluminum | 98.3 | 100 | 98 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Antimony | 50.4 | 50.0 | 101 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Arsenic | 18.7 | 20.0 | 93 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Barium | 86.6 | 100 | 87 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Beryllium | 5.83 | 6.0 | 97 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Cadmium | 5.99 | 6.0 | 100 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Calcium | 1880 | 2000 | 94 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Chromium | 10.8 | 10.0 | 108 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Cobalt | 29.4 | 30.0 | 98 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Copper | 22.0 | 20.0 | 110 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Iron | 102 | 100 | 102 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Lead | 11.2 | 12.0 | 93 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Magnesium | 1930 | 2000 | 96 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Manganese | 18.8 | 20.0 | 94 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Nickel | 40.6 | 40.0 | 102 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Potassium | 1840 | 2000 | 92 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Selenium | 20.9 | 20.0 | 105 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Silver | 10.0 | 10.0 | 100 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Sodium | 1720 | 2000 | 86 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Thallium | 38.5 | 40.0 | 96 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Vanadium | 37.4 | 40.0 | 94 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Zinc | 42.5 | 40.0 | 106 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| CRI01 | Aluminum | 105 | 100 | 105 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Antimony | 53.3 | 50.0 | 107 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Arsenic | 22.9 | 20.0 | 114 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Barium | 98.7 | 100 | 99 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Beryllium | 6.22 | 6.0 | 104 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Cadmium | 6.07 | 6.0 | 101 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Calcium | 2030 | 2000 | 102 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Chromium | 10.7 | 10.0 | 107 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Cobalt | 30.4 | 30.0 | 102 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Copper | 22.7 | 20.0 | 114 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Iron | 111 | 100 | 111 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |

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# Metals

## - 2b -

## CRDL STANDARD FOR AA & ICP

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CRI01 | Lead | 13.4 | 12.0 | 112 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Magnesium | 2040 | 2000 | 102 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Manganese | 21.0 | 20.0 | 105 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Nickel | 40.8 | 40.0 | 102 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Potassium | 1990 | 2000 | 99 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Selenium | 19.5 | 20.0 | 98 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Silver | 10.6 | 10.0 | 106 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Sodium | 1890 | 2000 | 95 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Thallium | 40.8 | 40.0 | 102 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Vanadium | 39.1 | 40.0 | 98 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |
| | Zinc | 44.1 | 40.0 | 110 | 65 - 135 | P | 06/10/2025 | 14:50 | LB136097 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 | 241000 | 255000 | 94 | 216000 | 294000 | 06/04/2025 | 16:26 | LB136011 |
| | Antimony | -1.17 | | | -50 | 50 | 06/04/2025 | 16:26 | LB136011 |
| | Arsenic | 1.52 | | | -20 | 20 | 06/04/2025 | 16:26 | LB136011 |
| | Barium | 0.52 | 6.0 | 9 | -94 | 106 | 06/04/2025 | 16:26 | LB136011 |
| | Beryllium | 1.08 | | | -6 | 6 | 06/04/2025 | 16:26 | LB136011 |
| | Cadmium | 0.92 | 1.0 | 92 | -5 | 7 | 06/04/2025 | 16:26 | LB136011 |
| | Calcium | 226000 | 245000 | 92 | 208000 | 282000 | 06/04/2025 | 16:26 | LB136011 |
| | Chromium | 46.0 | 52.0 | 88 | 42 | 62 | 06/04/2025 | 16:26 | LB136011 |
| | Cobalt | 0.87 | | | -30 | 30 | 06/04/2025 | 16:26 | LB136011 |
| | Copper | 2.26 | 2.0 | 113 | -18 | 22 | 06/04/2025 | 16:26 | LB136011 |
| | Iron | 103000 | 101000 | 102 | 85600 | 116500 | 06/04/2025 | 16:26 | LB136011 |
| | Lead | -0.74 | | | -12 | 12 | 06/04/2025 | 16:26 | LB136011 |
| | Magnesium | 241000 | 255000 | 94 | 216000 | 294000 | 06/04/2025 | 16:26 | LB136011 |
| | Manganese | 4.29 | 7.0 | 61 | -13 | 27 | 06/04/2025 | 16:26 | LB136011 |
| | Nickel | 2.59 | 2.0 | 130 | -38 | 42 | 06/04/2025 | 16:26 | LB136011 |
| | Potassium | 26.5 | | | 0 | 0 | 06/04/2025 | 16:26 | LB136011 |
| | Selenium | 1.80 | | | -20 | 20 | 06/04/2025 | 16:26 | LB136011 |
| | Silver | 4.01 | | | -10 | 10 | 06/04/2025 | 16:26 | LB136011 |
| | Sodium | -67.4 | | | 0 | 0 | 06/04/2025 | 16:26 | LB136011 |
| | Thallium | -0.73 | | | -40 | 40 | 06/04/2025 | 16:26 | LB136011 |
| | Vanadium | 4.43 | | | -40 | 40 | 06/04/2025 | 16:26 | LB136011 |
| | Zinc | 3.39 | | | -40 | 40 | 06/04/2025 | 16:26 | LB136011 |
| ICSAB01 | Aluminum | 247000 | 247000 | 100 | 209000 | 285000 | 06/04/2025 | 16:32 | LB136011 |
| | Antimony | 645 | 618 | 104 | 525 | 711 | 06/04/2025 | 16:32 | LB136011 |
| | Arsenic | 106 | 104 | 102 | 88.4 | 120 | 06/04/2025 | 16:32 | LB136011 |
| | Barium | 469 | 537 | 87 | 437 | 637 | 06/04/2025 | 16:32 | LB136011 |
| | Beryllium | 484 | 495 | 98 | 420 | 570 | 06/04/2025 | 16:32 | LB136011 |
| | Cadmium | 1000 | 972 | 103 | 826 | 1120 | 06/04/2025 | 16:32 | LB136011 |
| | Calcium | 228000 | 235000 | 97 | 199000 | 271000 | 06/04/2025 | 16:32 | LB136011 |
| | Chromium | 556 | 542 | 103 | 460 | 624 | 06/04/2025 | 16:32 | LB136011 |
| | Cobalt | 510 | 476 | 107 | 404 | 548 | 06/04/2025 | 16:32 | LB136011 |
| | Copper | 508 | 511 | 99 | 434 | 588 | 06/04/2025 | 16:32 | LB136011 |
| | Iron | 101000 | 99300 | 102 | 84400 | 114500 | 06/04/2025 | 16:32 | LB136011 |
| | Lead | 47.6 | 49.0 | 97 | 37 | 61 | 06/04/2025 | 16:32 | LB136011 |
| | Magnesium | 246000 | 248000 | 99 | 210000 | 286000 | 06/04/2025 | 16:32 | LB136011 |
| | Manganese | 468 | 507 | 92 | 430 | 584 | 06/04/2025 | 16:32 | LB136011 |
| | Nickel | 1010 | 954 | 106 | 810 | 1100 | 06/04/2025 | 16:32 | LB136011 |
| | Potassium | 22.6 | | | 0 | 0 | 06/04/2025 | 16:32 | LB136011 |
| | Selenium | 56.4 | 46.0 | 123 | 26 | 66 | 06/04/2025 | 16:32 | LB136011 |
| | Silver | 219 | 201 | 109 | 170 | 232 | 06/04/2025 | 16:32 | LB136011 |
| | Sodium | -64.1 | | | 0 | 0 | 06/04/2025 | 16:32 | LB136011 |
| | Thallium | 95.3 | 108 | 88 | 68 | 148 | 06/04/2025 | 16:32 | LB136011 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 | 461 | 491 | 94 | 417 | 565 | 06/04/2025 | 16:32 | LB136011 |
| | Zinc | 1050 | 952 | 110 | 809 | 1095 | 06/04/2025 | 16:32 | LB136011 |
| **ICSA01** | Aluminum | 256000 | 255000 | 100 | 216000 | 294000 | 06/10/2025 | 14:54 | LB136097 |
| | Antimony | -2.43 | | | -50 | 50 | 06/10/2025 | 14:54 | LB136097 |
| | Arsenic | 8.34 | | | -20 | 20 | 06/10/2025 | 14:54 | LB136097 |
| | Barium | 2.84 | 6.0 | 47 | -94 | 106 | 06/10/2025 | 14:54 | LB136097 |
| | Beryllium | 1.10 | | | -6 | 6 | 06/10/2025 | 14:54 | LB136097 |
| | Cadmium | 4.20 | 1.0 | 420 | -5 | 7 | 06/10/2025 | 14:54 | LB136097 |
| | Calcium | 239000 | 245000 | 98 | 208000 | 282000 | 06/10/2025 | 14:54 | LB136097 |
| | Chromium | 47.4 | 52.0 | 91 | 42 | 62 | 06/10/2025 | 14:54 | LB136097 |
| | Cobalt | 1.54 | | | -30 | 30 | 06/10/2025 | 14:54 | LB136097 |
| | Copper | 3.36 | 2.0 | 168 | -18 | 22 | 06/10/2025 | 14:54 | LB136097 |
| | Iron | 97000 | 101000 | 96 | 85600 | 116500 | 06/10/2025 | 14:54 | LB136097 |
| | Lead | -3.62 | | | -12 | 12 | 06/10/2025 | 14:54 | LB136097 |
| | Magnesium | 261000 | 255000 | 102 | 216000 | 294000 | 06/10/2025 | 14:54 | LB136097 |
| | Manganese | 0.37 | 7.0 | 5 | -13 | 27 | 06/10/2025 | 14:54 | LB136097 |
| | Nickel | 2.57 | 2.0 | 128 | -38 | 42 | 06/10/2025 | 14:54 | LB136097 |
| | Potassium | -7.55 | | | 0 | 0 | 06/10/2025 | 14:54 | LB136097 |
| | Selenium | -3.79 | | | -20 | 20 | 06/10/2025 | 14:54 | LB136097 |
| | Silver | -2.86 | | | -10 | 10 | 06/10/2025 | 14:54 | LB136097 |
| | Sodium | -38.2 | | | 0 | 0 | 06/10/2025 | 14:54 | LB136097 |
| | Thallium | -8.11 | | | -40 | 40 | 06/10/2025 | 14:54 | LB136097 |
| | Vanadium | 2.60 | | | -40 | 40 | 06/10/2025 | 14:54 | LB136097 |
| | Zinc | 6.32 | | | -40 | 40 | 06/10/2025 | 14:54 | LB136097 |
| **ICSAB01** | Aluminum | 245000 | 247000 | 99 | 209000 | 285000 | 06/10/2025 | 15:18 | LB136097 |
| | Antimony | 633 | 618 | 102 | 525 | 711 | 06/10/2025 | 15:18 | LB136097 |
| | Arsenic | 112 | 104 | 108 | 88.4 | 120 | 06/10/2025 | 15:18 | LB136097 |
| | Barium | 510 | 537 | 95 | 437 | 637 | 06/10/2025 | 15:18 | LB136097 |
| | Beryllium | 485 | 495 | 98 | 420 | 570 | 06/10/2025 | 15:18 | LB136097 |
| | Cadmium | 1010 | 972 | 104 | 826 | 1120 | 06/10/2025 | 15:18 | LB136097 |
| | Calcium | 230000 | 235000 | 98 | 199000 | 271000 | 06/10/2025 | 15:18 | LB136097 |
| | Chromium | 549 | 542 | 101 | 460 | 624 | 06/10/2025 | 15:18 | LB136097 |
| | Cobalt | 508 | 476 | 107 | 404 | 548 | 06/10/2025 | 15:18 | LB136097 |
| | Copper | 496 | 511 | 97 | 434 | 588 | 06/10/2025 | 15:18 | LB136097 |
| | Iron | 99000 | 99300 | 100 | 84400 | 114500 | 06/10/2025 | 15:18 | LB136097 |
| | Lead | 43.7 | 49.0 | 89 | 37 | 61 | 06/10/2025 | 15:18 | LB136097 |
| | Magnesium | 248000 | 248000 | 100 | 210000 | 286000 | 06/10/2025 | 15:18 | LB136097 |
| | Manganese | 485 | 507 | 96 | 430 | 584 | 06/10/2025 | 15:18 | LB136097 |
| | Nickel | 999 | 954 | 105 | 810 | 1100 | 06/10/2025 | 15:18 | LB136097 |
| | Potassium | -8.47 | | | 0 | 0 | 06/10/2025 | 15:18 | LB136097 |
| | Selenium | 55.8 | 46.0 | 121 | 26 | 66 | 06/10/2025 | 15:18 | LB136097 |
| | Silver | 193 | 201 | 96 | 170 | 232 | 06/10/2025 | 15:18 | LB136097 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICSAB01 | Sodium | -49.9 | | | 0 | 0 | 06/10/2025 | 15:18 | LB136097 |
| | Thallium | 92.5 | 108 | 86 | 68 | 148 | 06/10/2025 | 15:18 | LB136097 |
| | Vanadium | 489 | 491 | 100 | 417 | 565 | 06/10/2025 | 15:18 | LB136097 |
| | Zinc | 1070 | 952 | 112 | 809 | 1095 | 06/10/2025 | 15:18 | LB136097 |

# METAL QC DATA

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** Portal Partners Tri-Venture **level:** low **sdg no.:** Q2177

**contract:** PORT06 **lab code:** CHEM **case no.:** Q2177 **sas no.:** Q2177

**matrix:** Water **sample id:** Q2155-04 **client id:** 444MS

**Percent Solids for Sample:** NA **Spiked ID:** Q2155-04MS **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 75 - 125 | 3.24 | | 0.29 | | 4.0 | 74 | N | CV |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** Portal Partners Tri-Venture **level:** low **sdg no.:** Q2177

**contract:** PORT06 **lab code:** CHEM **case no.:** Q2177 **sas no.:** Q2177

**matrix:** Water **sample id:** Q2155-04 **client id:** 444MSD

**Percent Solids for Sample:** NA **Spiked ID:** Q2155-04MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 75 - 125 | 3.37 | | 0.29 | | 4.0 | 77 | | CV |

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** Portal Partners Tri-Venture **level:** low **sdg no.:** Q2177

**contract:** PORT06 **lab code:** CHEM **case no.:** Q2177 **sas no.:** Q2177

**matrix:** Water **sample id:** Q2169-03 **client id:** 303-PPR-2MS

**Percent Solids for Sample:** NA **Spiked ID:** Q2169-03MS **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 75 - 125 | 23000 | | 21900 | | 1000 | 114 | | P |
| Antimony | ug/L | 75 - 125 | 220 | | 25.0 | U | 400 | 55 | N | P |
| Arsenic | ug/L | 75 - 125 | 349 | | 12.7 | | 400 | 84 | | P |
| Barium | ug/L | 75 - 125 | 224 | | 143 | | 100 | 81 | | P |
| Beryllium | ug/L | 75 - 125 | 83.7 | | 0.90 | J | 100 | 83 | | P |
| Cadmium | ug/L | 75 - 125 | 95.2 | | 0.74 | J | 100 | 94 | | P |
| Calcium | ug/L | 75 - 125 | 39000 | | 36900 | | 500 | 419 | | P |
| Chromium | ug/L | 75 - 125 | 255 | | 86.8 | | 200 | 84 | | P |
| Cobalt | ug/L | 75 - 125 | 106 | | 11.6 | J | 100 | 95 | | P |
| Copper | ug/L | 75 - 125 | 206 | | 94.4 | | 150 | 74 | N | P |
| Iron | ug/L | 75 - 125 | 20500 | | 21500 | | 1500 | -71 | | P |
| Lead | ug/L | 75 - 125 | 542 | | 102 | | 500 | 88 | | P |
| Magnesium | ug/L | 75 - 125 | 11100 | | 9650 | | 1000 | 149 | | P |
| Manganese | ug/L | 75 - 125 | 1070 | | 952 | | 100 | 118 | | P |
| Nickel | ug/L | 75 - 125 | 265 | | 30.1 | | 250 | 94 | | P |
| Potassium | ug/L | 75 - 125 | 10400 | | 6440 | | 5000 | 79 | | P |
| Selenium | ug/L | 75 - 125 | 776 | | 10.0 | U | 1000 | 78 | | P |
| Silver | ug/L | 75 - 125 | 20.0 | | 1.04 | J | 37.5 | 51 | N | P |
| Sodium | ug/L | 75 - 125 | 89200 | | 94200 | | 1500 | -330 | | P |
| Thallium | ug/L | 75 - 125 | 878 | | 20.0 | U | 1000 | 88 | | P |
| Vanadium | ug/L | 75 - 125 | 163 | | 37.3 | | 150 | 84 | | P |
| Zinc | ug/L | 75 - 125 | 278 | | 216 | | 100 | 62 | N | P |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** Portal Partners Tri-Venture **level:** low **sdg no.:** Q2177

**contract:** PORT06 **lab code:** CHEM **case no.:** Q2177 **sas no.:** Q2177

**matrix:** Water **sample id:** Q2169-03 **client id:** 303-PPR-2MSD

**Percent Solids for Sample:** NA **Spiked ID:** Q2169-03MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 75 - 125 | 23800 | | 21900 | | 1000 | 193 | | P |
| Antimony | ug/L | 75 - 125 | 232 | | 25.0 | U | 400 | 58 | N | P |
| Arsenic | ug/L | 75 - 125 | 367 | | 12.7 | | 400 | 89 | | P |
| Barium | ug/L | 75 - 125 | 222 | | 143 | | 100 | 79 | | P |
| Beryllium | ug/L | 75 - 125 | 92.7 | | 0.90 | J | 100 | 92 | | P |
| Cadmium | ug/L | 75 - 125 | 101 | | 0.74 | J | 100 | 100 | | P |
| Calcium | ug/L | 75 - 125 | 38700 | | 36900 | | 500 | 347 | | P |
| Chromium | ug/L | 75 - 125 | 268 | | 86.8 | | 200 | 91 | | P |
| Cobalt | ug/L | 75 - 125 | 112 | | 11.6 | J | 100 | 100 | | P |
| Copper | ug/L | 75 - 125 | 216 | | 94.4 | | 150 | 81 | | P |
| Iron | ug/L | 75 - 125 | 20500 | | 21500 | | 1500 | -66 | | P |
| Lead | ug/L | 75 - 125 | 570 | | 102 | | 500 | 94 | | P |
| Magnesium | ug/L | 75 - 125 | 11300 | | 9650 | | 1000 | 168 | | P |
| Manganese | ug/L | 75 - 125 | 1080 | | 952 | | 100 | 125 | | P |
| Nickel | ug/L | 75 - 125 | 279 | | 30.1 | | 250 | 99 | | P |
| Potassium | ug/L | 75 - 125 | 10600 | | 6440 | | 5000 | 84 | | P |
| Selenium | ug/L | 75 - 125 | 825 | | 10.0 | U | 1000 | 82 | | P |
| Silver | ug/L | 75 - 125 | 21.8 | | 1.04 | J | 37.5 | 55 | N | P |
| Sodium | ug/L | 75 - 125 | 87300 | | 94200 | | 1500 | -456 | | P |
| Thallium | ug/L | 75 - 125 | 915 | | 20.0 | U | 1000 | 92 | | P |
| Vanadium | ug/L | 75 - 125 | 166 | | 37.3 | | 150 | 86 | | P |
| Zinc | ug/L | 75 - 125 | 290 | | 216 | | 100 | 74 | N | P |

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** Portal Partners Tri-Venture **level:** low **sdg no.:** Q2177

**contract:** PORT06 **lab code:** CHEM **case no.:** Q2177 **sas no.:** Q2177

**matrix:** Solid **sample id:** Q2176-08 **client id:** TP-65MS

**Percent Solids for Sample:** 87.3 **Spiked ID:** Q2176-08MS **Percent Solids for Spike Sample:** 87.3

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 80 - 120 | 0.27 | | 0.011 | J | 0.3 | 87 | | CV |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** Portal Partners Tri-Venture **level:** low **sdg no.:** Q2177

**contract:** PORT06 **lab code:** CHEM **case no.:** Q2177 **sas no.:** Q2177

**matrix:** Solid **sample id:** Q2176-08 **client id:** TP-65MSD

**Percent Solids for Sample:** 87.3 **Spiked ID:** Q2176-08MSD **Percent Solids for Spike Sample:** 87.3

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 80 - 120 | 0.29 | | 0.011 | J | 0.29 | 95 | | CV |

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** Portal Partners Tri-Venture **level:** low **sdg no.:** Q2177

**contract:** PORT06 **lab code:** CHEM **case no.:** Q2177 **sas no.:** Q2177

**matrix:** Solid **sample id:** Q2177-04 **client id:** B-187-SB02MS

**Percent Solids for Sample:** 62.8 **Spiked ID:** Q2177-04MS **Percent Solids for Spike Sample:** 62.8

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 75 - 125 | 7400 | | 5970 | | 140 | 1023 | | P |
| Antimony | mg/Kg | 75 - 125 | 22.4 | | 3.76 | U | 54.4 | 41 | N | P |
| Arsenic | mg/Kg | 75 - 125 | 53.0 | | 1.00 | J | 54.4 | 96 | | P |
| Barium | mg/Kg | 75 - 125 | 19.0 | | 5.38 | J | 13.6 | 100 | | P |
| Beryllium | mg/Kg | 75 - 125 | 13.9 | | 0.29 | J | 13.6 | 100 | | P |
| Cadmium | mg/Kg | 75 - 125 | 13.9 | | 0.19 | J | 13.6 | 101 | | P |
| Calcium | mg/Kg | 75 - 125 | 586 | | 427 | | 68.0 | 234 | | P |
| Chromium | mg/Kg | 75 - 125 | 36.3 | | 8.68 | | 27.2 | 102 | | P |
| Cobalt | mg/Kg | 75 - 125 | 17.8 | | 3.45 | | 13.6 | 105 | | P |
| Copper | mg/Kg | 75 - 125 | 27.0 | | 6.86 | | 20.4 | 99 | | P |
| Iron | mg/Kg | 75 - 125 | 10500 | | 9960 | | 200 | 266 | | P |
| Lead | mg/Kg | 75 - 125 | 69.1 | | 4.48 | | 68.0 | 95 | | P |
| Magnesium | mg/Kg | 75 - 125 | 1940 | | 1580 | | 140 | 254 | | P |
| Manganese | mg/Kg | 75 - 125 | 82.6 | | 65.9 | | 13.6 | 123 | | P |
| Nickel | mg/Kg | 75 - 125 | 43.6 | | 8.35 | | 34.0 | 104 | | P |
| Potassium | mg/Kg | 75 - 125 | 979 | | 356 | | 680 | 92 | | P |
| Selenium | mg/Kg | 75 - 125 | 125 | | 1.50 | U | 140 | 89 | | P |
| Silver | mg/Kg | 75 - 125 | 4.82 | | 0.75 | U | 5.1 | 94 | | P |
| Sodium | mg/Kg | 75 - 125 | 572 | | 357 | | 200 | 108 | | P |
| Thallium | mg/Kg | 75 - 125 | 125 | | 3.00 | U | 140 | 89 | | P |
| Vanadium | mg/Kg | 75 - 125 | 30.8 | | 9.88 | | 20.4 | 103 | | P |
| Zinc | mg/Kg | 75 - 125 | 35.5 | | 19.9 | | 13.6 | 115 | | P |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** Portal Partners Tri-Venture **level:** low **sdg no.:** Q2177

**contract:** PORT06 **lab code:** CHEM **case no.:** Q2177 **sas no.:** Q2177

**matrix:** Solid **sample id:** Q2177-04 **client id:** B-187-SB02MSD

**Percent Solids for Sample:** 62.8 **Spiked ID:** Q2177-04MSD **Percent Solids for Spike Sample:** 62.8

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 75 - 125 | 9640 | | 5970 | | 150 | 2448 | | P |
| Antimony | mg/Kg | 75 - 125 | 21.9 | | 3.76 | U | 58.4 | 38 | N | P |
| Arsenic | mg/Kg | 75 - 125 | 57.8 | | 1.00 | J | 58.4 | 97 | | P |
| Barium | mg/Kg | 75 - 125 | 23.7 | | 5.38 | J | 14.6 | 126 | N | P |
| Beryllium | mg/Kg | 75 - 125 | 14.3 | | 0.29 | J | 14.6 | 96 | | P |
| Cadmium | mg/Kg | 75 - 125 | 15.0 | | 0.19 | J | 14.6 | 102 | | P |
| Calcium | mg/Kg | 75 - 125 | 868 | | 427 | | 73.0 | 604 | | P |
| Chromium | mg/Kg | 75 - 125 | 41.4 | | 8.68 | | 29.2 | 112 | | P |
| Cobalt | mg/Kg | 75 - 125 | 20.1 | | 3.45 | | 14.6 | 114 | | P |
| Copper | mg/Kg | 75 - 125 | 31.2 | | 6.86 | | 21.9 | 111 | | P |
| Iron | mg/Kg | 75 - 125 | 13600 | | 9960 | | 220 | 1676 | | P |
| Lead | mg/Kg | 75 - 125 | 77.2 | | 4.48 | | 73.0 | 100 | | P |
| Magnesium | mg/Kg | 75 - 125 | 2430 | | 1580 | | 150 | 565 | | P |
| Manganese | mg/Kg | 75 - 125 | 98.2 | | 65.9 | | 14.6 | 221 | | P |
| Nickel | mg/Kg | 75 - 125 | 49.4 | | 8.35 | | 36.5 | 113 | | P |
| Potassium | mg/Kg | 75 - 125 | 1250 | | 356 | | 730 | 123 | | P |
| Selenium | mg/Kg | 75 - 125 | 136 | | 1.50 | U | 150 | 91 | | P |
| Silver | mg/Kg | 75 - 125 | 5.46 | | 0.75 | U | 5.5 | 99 | | P |
| Sodium | mg/Kg | 75 - 125 | 789 | | 357 | | 220 | 196 | N | P |
| Thallium | mg/Kg | 75 - 125 | 136 | | 3.00 | U | 150 | 91 | | P |
| Vanadium | mg/Kg | 75 - 125 | 37.2 | | 9.88 | | 21.9 | 125 | | P |
| Zinc | mg/Kg | 75 - 125 | 43.4 | | 19.9 | | 14.6 | 161 | N | P |

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# Metals
## - 5b -
## POST DIGEST SPIKE SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Matrix:** Water **Level:** LOW **Client ID:** 444A

**Sample ID:** Q2155-04 **Spiked ID:** Q2155-04A

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 75 - 125 | 3.23 | | 0.29 | | 4.00 | 74 | N | CV |

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# Metals
## - 5b -
## POST DIGEST SPIKE SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Matrix:** Water **Level:** LOW **Client ID:** 303-PPR-2A

**Sample ID:** Q2169-03 **Spiked ID:** Q2169-03A

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ug/L | 75 - 125 | 368 | | 25.0 | U | 400 | 92 | | P |
| Copper | ug/L | 75 - 125 | 224 | | 94.4 | | 150 | 86 | | P |
| Silver | ug/L | 75 - 125 | 33.2 | | 1.04 | J | 37.5 | 86 | | P |
| Zinc | ug/L | 75 - 125 | 294 | | 216 | | 100 | 78 | | P |

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# Metals
## - 5b -
## POST DIGEST SPIKE SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Matrix:** Solid **Level:** LOW **Client ID:** B-187-SB02A

**Sample ID:** Q2177-04 **Spiked ID:** Q2177-04A

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/Kg | 75 - 125 | 57.7 | | 3.76 | U | 60.1 | 96 | | P |
| Barium | mg/Kg | 75 - 125 | 19.7 | | 5.38 | J | 15.0 | 95 | | P |
| Sodium | mg/Kg | 75 - 125 | 565 | | 357 | | 230 | 91 | | P |
| Zinc | mg/Kg | 75 - 125 | 34.6 | | 19.9 | | 15.0 | 98 | | P |

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Matrix:** Water **Sample ID:** Q2155-04 **Client ID:** 444DUP

**Percent Solids for Sample:** NA **Duplicate ID** Q2155-04DUP **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 20 | 0.29 | | 0.24 | | 18 | | CV |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Matrix:** Water **Sample ID:** Q2155-04MS **Client ID:** 444MSD

**Percent Solids for Sample:** NA **Duplicate ID** Q2155-04MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 20 | 3.24 | | 3.37 | | 4 | | CV |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Matrix:** Water **Sample ID:** Q2169-03 **Client ID:** 303-PPR-2DUP

**Percent Solids for Sample:** NA **Duplicate ID** Q2169-03DUP **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 20 | 21900 | | 20800 | | 5 | | P |
| Antimony | ug/L | 20 | 25.0 | U | 25.0 | U | | | P |
| Arsenic | ug/L | 20 | 12.7 | | 12.0 | | 6 | | P |
| Barium | ug/L | 20 | 143 | | 134 | | 6 | | P |
| Beryllium | ug/L | 20 | 0.90 | J | 0.99 | J | 9 | | P |
| Cadmium | ug/L | 20 | 0.74 | J | 0.72 | J | 4 | | P |
| Calcium | ug/L | 20 | 36900 | | 36600 | | 1 | | P |
| Chromium | ug/L | 20 | 86.8 | | 83.7 | | 4 | | P |
| Cobalt | ug/L | 20 | 11.6 | J | 10.5 | J | 10 | | P |
| Copper | ug/L | 20 | 94.4 | | 80.4 | | 16 | | P |
| Iron | ug/L | 20 | 21500 | | 18900 | | 13 | | P |
| Lead | ug/L | 20 | 102 | | 90.7 | | 12 | | P |
| Magnesium | ug/L | 20 | 9650 | | 9860 | | 2 | | P |
| Manganese | ug/L | 20 | 952 | | 944 | | 1 | | P |
| Nickel | ug/L | 20 | 30.1 | | 27.1 | | 10 | | P |
| Potassium | ug/L | 20 | 6440 | | 5690 | | 12 | | P |
| Selenium | ug/L | 20 | 10.0 | U | 10.0 | U | | | P |
| Silver | ug/L | 20 | 1.04 | J | 5.00 | U | 200.0 | | P |
| Sodium | ug/L | 20 | 94200 | | 83400 | | 12 | | P |
| Thallium | ug/L | 20 | 20.0 | U | 20.0 | U | | | P |
| Vanadium | ug/L | 20 | 37.3 | | 35.4 | | 5 | | P |
| Zinc | ug/L | 20 | 216 | | 200 | | 8 | | 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:** Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Matrix:** Water **Sample ID:** Q2169-03MS **Client ID:** 303-PPR-2MSD

**Percent Solids for Sample:** NA **Duplicate ID** Q2169-03MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 20 | 23000 | | 23800 | | 3 | | P |
| Antimony | ug/L | 20 | 220 | | 232 | | 5 | | P |
| Arsenic | ug/L | 20 | 349 | | 367 | | 5 | | P |
| Barium | ug/L | 20 | 224 | | 222 | | 1 | | P |
| Beryllium | ug/L | 20 | 83.7 | | 92.7 | | 10 | | P |
| Cadmium | ug/L | 20 | 95.2 | | 101 | | 6 | | P |
| Calcium | ug/L | 20 | 39000 | | 38700 | | 1 | | P |
| Chromium | ug/L | 20 | 255 | | 268 | | 5 | | P |
| Cobalt | ug/L | 20 | 106 | | 112 | | 6 | | P |
| Copper | ug/L | 20 | 206 | | 216 | | 5 | | P |
| Iron | ug/L | 20 | 20500 | | 20500 | | 0 | | P |
| Lead | ug/L | 20 | 542 | | 570 | | 5 | | P |
| Magnesium | ug/L | 20 | 11100 | | 11300 | | 2 | | P |
| Manganese | ug/L | 20 | 1070 | | 1080 | | 1 | | P |
| Nickel | ug/L | 20 | 265 | | 279 | | 5 | | P |
| Potassium | ug/L | 20 | 10400 | | 10600 | | 2 | | P |
| Selenium | ug/L | 20 | 776 | | 825 | | 6 | | P |
| Silver | ug/L | 20 | 20.0 | | 21.8 | | 9 | | P |
| Sodium | ug/L | 20 | 89200 | | 87300 | | 2 | | P |
| Thallium | ug/L | 20 | 878 | | 915 | | 4 | | P |
| Vanadium | ug/L | 20 | 163 | | 166 | | 2 | | P |
| Zinc | ug/L | 20 | 278 | | 290 | | 4 | | 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:** Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Matrix:** Solid **Sample ID:** Q2176-08 **Client ID:** TP-65DUP

**Percent Solids for Sample:** 87.3 **Duplicate ID** Q2176-08DUP **Percent Solids for Spike Sample:** 87.3

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 20 | 0.011 | J | 0.010 | J | 10 | | CV |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Matrix:** Solid **Sample ID:** Q2176-08MS **Client ID:** TP-65MSD

**Percent Solids for Sample:** 87.3 **Duplicate ID** Q2176-08MSD **Percent Solids for Spike Sample:** 87.3

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 20 | 0.27 | | 0.29 | | 5 | | CV |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Matrix:** Solid **Sample ID:** Q2177-04 **Client ID:** B-187-SB02DUP

**Percent Solids for Sample:** 62.8 **Duplicate ID** Q2177-04DUP **Percent Solids for Spike Sample:** 62.8

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 20 | 5970 | | 5850 | | 2 | | P |
| Antimony | mg/Kg | 20 | 3.76 | U | 3.59 | U | | | P |
| Arsenic | mg/Kg | 20 | 1.00 | J | 0.84 | J | 18 | | P |
| Barium | mg/Kg | 20 | 5.38 | J | 5.76 | J | 7 | | P |
| Beryllium | mg/Kg | 20 | 0.29 | J | 0.29 | J | 2 | | P |
| Cadmium | mg/Kg | 20 | 0.19 | J | 0.19 | J | 4 | | P |
| Calcium | mg/Kg | 20 | 427 | | 426 | | 0 | | P |
| Chromium | mg/Kg | 20 | 8.68 | | 8.54 | | 2 | | P |
| Cobalt | mg/Kg | 20 | 3.45 | | 3.40 | | 1 | | P |
| Copper | mg/Kg | 20 | 6.86 | | 6.63 | | 3 | | P |
| Iron | mg/Kg | 20 | 9960 | | 9540 | | 4 | | P |
| Lead | mg/Kg | 20 | 4.48 | | 4.45 | | 1 | | P |
| Magnesium | mg/Kg | 20 | 1580 | | 1560 | | 1 | | P |
| Manganese | mg/Kg | 20 | 65.9 | | 64.5 | | 2 | | P |
| Nickel | mg/Kg | 20 | 8.35 | | 8.09 | | 3 | | P |
| Potassium | mg/Kg | 20 | 356 | | 357 | | 0 | | P |
| Selenium | mg/Kg | 20 | 1.50 | U | 1.43 | U | | | P |
| Silver | mg/Kg | 20 | 0.75 | U | 0.72 | U | | | P |
| Sodium | mg/Kg | 20 | 357 | | 342 | | 4 | | P |
| Thallium | mg/Kg | 20 | 3.00 | U | 2.87 | U | | | P |
| Vanadium | mg/Kg | 20 | 9.88 | | 9.91 | | 0 | | P |
| Zinc | mg/Kg | 20 | 19.9 | | 19.3 | | 3 | | P |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Matrix:** Solid **Sample ID:** Q2177-04MS **Client ID:** B-187-SB02MSD

**Percent Solids for Sample:** 62.8 **Duplicate ID** Q2177-04MSD **Percent Solids for Spike Sample:** 62.8

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 20 | 7400 | | 9640 | | 26 | * | P |
| Antimony | mg/Kg | 20 | 22.4 | | 21.9 | | 2 | | P |
| Arsenic | mg/Kg | 20 | 53.0 | | 57.8 | | 9 | | P |
| Barium | mg/Kg | 20 | 19.0 | | 23.7 | | 22 | * | P |
| Beryllium | mg/Kg | 20 | 13.9 | | 14.3 | | 3 | | P |
| Cadmium | mg/Kg | 20 | 13.9 | | 15.0 | | 8 | | P |
| Calcium | mg/Kg | 20 | 586 | | 868 | | 39 | * | P |
| Chromium | mg/Kg | 20 | 36.3 | | 41.4 | | 13 | | P |
| Cobalt | mg/Kg | 20 | 17.8 | | 20.1 | | 12 | | P |
| Copper | mg/Kg | 20 | 27.0 | | 31.2 | | 14 | | P |
| Iron | mg/Kg | 20 | 10500 | | 13600 | | 26 | * | P |
| Lead | mg/Kg | 20 | 69.1 | | 77.2 | | 11 | | P |
| Magnesium | mg/Kg | 20 | 1940 | | 2430 | | 22 | * | P |
| Manganese | mg/Kg | 20 | 82.6 | | 98.2 | | 17 | | P |
| Nickel | mg/Kg | 20 | 43.6 | | 49.4 | | 12 | | P |
| Potassium | mg/Kg | 20 | 979 | | 1250 | | 24 | * | P |
| Selenium | mg/Kg | 20 | 125 | | 136 | | 8 | | P |
| Silver | mg/Kg | 20 | 4.82 | | 5.46 | | 12 | | P |
| Sodium | mg/Kg | 20 | 572 | | 789 | | 32 | * | P |
| Thallium | mg/Kg | 20 | 125 | | 136 | | 8 | | P |
| Vanadium | mg/Kg | 20 | 30.8 | | 37.2 | | 19 | | P |
| Zinc | mg/Kg | 20 | 35.5 | | 43.4 | | 20 | | P |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB168245BS | | | | | | | |
| Aluminum | mg/Kg | 100 | 101 | | 101 | 80 - 120 | P |
| Antimony | mg/Kg | 40.0 | 41.7 | | 104 | 80 - 120 | P |
| Arsenic | mg/Kg | 40.0 | 41.4 | | 104 | 80 - 120 | P |
| Barium | mg/Kg | 10.0 | 9.63 | | 96 | 80 - 120 | P |
| Beryllium | mg/Kg | 10.0 | 11.0 | | 110 | 80 - 120 | P |
| Cadmium | mg/Kg | 10.0 | 10.4 | | 104 | 80 - 120 | P |
| Calcium | mg/Kg | 50.0 | 52.8 | J | 106 | 80 - 120 | P |
| Chromium | mg/Kg | 20.0 | 21.5 | | 108 | 80 - 120 | P |
| Cobalt | mg/Kg | 10.0 | 10.5 | | 105 | 80 - 120 | P |
| Copper | mg/Kg | 15.0 | 16.2 | | 108 | 80 - 120 | P |
| Iron | mg/Kg | 150 | 149 | | 99 | 80 - 120 | P |
| Lead | mg/Kg | 50.0 | 51.5 | | 103 | 80 - 120 | P |
| Magnesium | mg/Kg | 100 | 101 | | 101 | 80 - 120 | P |
| Manganese | mg/Kg | 10.0 | 10.4 | | 104 | 80 - 120 | P |
| Nickel | mg/Kg | 25.0 | 26.3 | | 105 | 80 - 120 | P |
| Potassium | mg/Kg | 500 | 454 | | 91 | 80 - 120 | P |
| Selenium | mg/Kg | 100 | 105 | | 105 | 80 - 120 | P |
| Silver | mg/Kg | 3.8 | 3.94 | | 104 | 80 - 120 | P |
| Sodium | mg/Kg | 150 | 127 | | 85 | 80 - 120 | P |
| Thallium | mg/Kg | 100 | 104 | | 104 | 80 - 120 | P |
| Vanadium | mg/Kg | 15.0 | 15.4 | | 103 | 80 - 120 | P |
| Zinc | mg/Kg | 10.0 | 10.9 | | 109 | 80 - 120 | P |

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB168247BS | | | | | | | |
| Mercury | ug/L | 4.0 | 3.55 | | 89 | 80 - 120 | CV |

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB168249BS | | | | | | | |
| Mercury | mg/Kg | 0.27 | 0.27 | | 100 | 80 - 120 | CV |

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB168255BS | | | | | | | |
| Aluminum | ug/L | 1000 | 985 | | 98 | 80 - 120 | P |
| Antimony | ug/L | 400 | 441 | | 110 | 80 - 120 | P |
| Arsenic | ug/L | 400 | 427 | | 107 | 80 - 120 | P |
| Barium | ug/L | 100 | 95.4 | | 95 | 80 - 120 | P |
| Beryllium | ug/L | 100 | 102 | | 102 | 80 - 120 | P |
| Cadmium | ug/L | 100 | 107 | | 107 | 80 - 120 | P |
| Calcium | ug/L | 500 | 503 | J | 101 | 80 - 120 | P |
| Chromium | ug/L | 200 | 211 | | 106 | 80 - 120 | P |
| Cobalt | ug/L | 100 | 107 | | 107 | 80 - 120 | P |
| Copper | ug/L | 150 | 168 | | 112 | 80 - 120 | P |
| Iron | ug/L | 1500 | 1580 | | 105 | 80 - 120 | P |
| Lead | ug/L | 500 | 522 | | 104 | 80 - 120 | P |
| Magnesium | ug/L | 1000 | 996 | J | 100 | 80 - 120 | P |
| Manganese | ug/L | 100 | 101 | | 101 | 80 - 120 | P |
| Nickel | ug/L | 250 | 272 | | 109 | 80 - 120 | P |
| Potassium | ug/L | 5000 | 4970 | | 99 | 80 - 120 | P |
| Selenium | ug/L | 1000 | 1090 | | 109 | 80 - 120 | P |
| Silver | ug/L | 37.5 | 38.3 | | 102 | 80 - 120 | P |
| Sodium | ug/L | 1500 | 1450 | | 97 | 80 - 120 | P |
| Thallium | ug/L | 1000 | 1070 | | 107 | 80 - 120 | P |
| Vanadium | ug/L | 150 | 148 | | 99 | 80 - 120 | P |
| Zinc | ug/L | 100 | 106 | | 106 | 80 - 120 | P |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

444L

**Lab Name:** Chemtech Consulting Group **Contract:** PORT06

**Lab Code:** CHEM **Lb No.:** lb135986 **Lab Sample ID :** Q2155-04L **SDG No.:** Q2177

**Matrix (soil/water):** Water **Level (low/med):** LOW

**Concentration Units:** ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Mercury | 0.29 | | 1.00 | U | 100.0 | | CV |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

303-PPR-2L

**Lab Name:** Chemtech Consulting Group **Contract:** PORT06

**Lab Code:** CHEM **Lb No.:** lb136011 **Lab Sample ID :** Q2169-03L **SDG No.:** Q2177

**Matrix (soil/water):** Water **Level (low/med):** LOW

**Concentration Units:** ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Aluminum | 21900 | | 23800 | | 9 | | P |
| Antimony | 25.0 | U | 125 | U | | | P |
| Arsenic | 12.7 | | 50.0 | U | 100.0 | | P |
| Barium | 143 | | 147 | J | 3 | | P |
| Beryllium | 0.90 | J | 15.0 | U | 100.0 | | P |
| Cadmium | 0.74 | J | 15.0 | U | 100.0 | | P |
| Calcium | 36900 | | 40100 | | 9 | | P |
| Chromium | 86.8 | | 93.5 | | 8 | | P |
| Cobalt | 11.6 | J | 11.9 | J | 3 | | P |
| Copper | 94.4 | | 105 | | 12 | | P |
| Iron | 21500 | | 23200 | | 8 | | P |
| Lead | 102 | | 101 | | 1 | | P |
| Magnesium | 9650 | | 10600 | | 10 | | P |
| Manganese | 952 | | 1040 | | 9 | | P |
| Nickel | 30.1 | | 30.7 | J | 2 | | P |
| Potassium | 6440 | | 6330 | | 2 | | P |
| Selenium | 10.0 | U | 50.0 | U | | | P |
| Silver | 1.04 | J | 25.0 | U | 100.0 | | P |
| Sodium | 94200 | | 94700 | | 1 | | P |
| Thallium | 20.0 | U | 100 | U | | | P |
| Vanadium | 37.3 | | 42.3 | J | 14 | | P |
| Zinc | 216 | | 244 | | 13 | | P |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

TP-65L

**Lab Name:** Chemtech Consulting Group **Contract:** PORT06

**Lab Code:** CHEM **Lb No.:** lb135987 **Lab Sample ID :** Q2176-08L **SDG No.:** Q2177

**Matrix (soil/water):** Solid **Level (low/med):** LOW

**Concentration Units:** mg/Kg

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Mercury | 0.011 | J | 0.072 | U | 100.0 | | CV |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

B-187-SB02L

**Lab Name:** Chemtech Consulting Group **Contract:** PORT06

**Lab Code:** CHEM **Lb No.:** lb136097 **Lab Sample ID :** Q2177-04L **SDG No.:** Q2177

**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 | 5970 | | 5860 | | 2 | | P |
| Antimony | 3.76 | U | 18.8 | U | | | P |
| Arsenic | 1.00 | J | 1.52 | J | 51 | | P |
| Barium | 5.38 | J | 37.6 | U | 100.0 | | P |
| Beryllium | 0.29 | J | 0.28 | J | 5 | | P |
| Cadmium | 0.19 | J | 2.25 | U | 100.0 | | P |
| Calcium | 427 | | 429 | J | 1 | | P |
| Chromium | 8.68 | | 8.81 | | 2 | | P |
| Cobalt | 3.45 | | 3.39 | J | 2 | | P |
| Copper | 6.86 | | 6.98 | J | 2 | | P |
| Iron | 9960 | | 10400 | | 4 | | P |
| Lead | 4.48 | | 4.59 | | 2 | | P |
| Magnesium | 1580 | | 1570 | | 0 | | P |
| Manganese | 65.9 | | 67.2 | | 2 | | P |
| Nickel | 8.35 | | 8.04 | J | 4 | | P |
| Potassium | 356 | | 340 | J | 4 | | P |
| Selenium | 1.50 | U | 7.51 | U | | | P |
| Silver | 0.75 | U | 3.76 | U | | | P |
| Sodium | 357 | | 326 | J | 9 | | P |
| Thallium | 3.00 | U | 15.0 | U | | | P |
| Vanadium | 9.88 | | 9.71 | J | 2 | | P |
| Zinc | 19.9 | | 19.8 | | 1 | | P |

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**metals**
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**ANALYSIS RUN LOG**

**Client:** Portal Partners Tri-Venture **Contract:** PORT06

**Lab code:** CHEM **Case no.:** Q2177 **Sas no.:** Q2177 **Sdg no.:** Q2177

**Instrument id number:** **Method:** **Run number:** LB135986

**Start date:** 06/03/2025 **End date:** 06/03/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1009 | HG |
| S0.2 | S0.2 | 1 | 1012 | HG |
| S2.5 | S2.5 | 1 | 1014 | HG |
| S5 | S5 | 1 | 1016 | HG |
| S7.5 | S7.5 | 1 | 1019 | HG |
| S10 | S10 | 1 | 1027 | HG |
| ICV24 | ICV24 | 1 | 1033 | HG |
| ICB24 | ICB24 | 1 | 1035 | HG |
| CCV86 | CCV86 | 1 | 1038 | HG |
| CCB86 | CCB86 | 1 | 1040 | HG |
| CRA | CRA | 1 | 1050 | HG |
| PB168247BL | PB168247BL | 1 | 1059 | HG |
| PB168247BS | PB168247BS | 1 | 1104 | HG |
| Q2155-04DUP | 444DUP | 1 | 1113 | HG |
| Q2155-04MS | 444MS | 1 | 1120 | HG |
| CCV87 | CCV87 | 1 | 1122 | HG |
| CCB87 | CCB87 | 1 | 1125 | HG |
| Q2155-04MSD | 444MSD | 1 | 1127 | HG |
| Q2177-08 | EB05312025 | 1 | 1148 | HG |
| CCV88 | CCV88 | 1 | 1150 | HG |
| CCB88 | CCB88 | 1 | 1153 | HG |
| Q2155-04L | 444L | 5 | 1155 | HG |
| Q2155-04A | 444A | 1 | 1157 | HG |
| CCV89 | CCV89 | 1 | 1202 | HG |
| CCB89 | CCB89 | 1 | 1204 | HG |

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**metals**
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**ANALYSIS RUN LOG**

**Client:** Portal Partners Tri-Venture **Contract:** PORT06

**Lab code:** CHEM **Case no.:** Q2177 **Sas no.:** Q2177 **Sdg no.:** Q2177

**Instrument id number:** **Method:** **Run number:** LB135987

**Start date:** 06/03/2025 **End date:** 06/03/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1229 | HG |
| S0.2 | S0.2 | 1 | 1231 | HG |
| S2.5 | S2.5 | 1 | 1233 | HG |
| S5 | S5 | 1 | 1236 | HG |
| S7.5 | S7.5 | 1 | 1238 | HG |
| S10 | S10 | 1 | 1240 | HG |
| ICV25 | ICV25 | 1 | 1243 | HG |
| ICB25 | ICB25 | 1 | 1246 | HG |
| CCV90 | CCV90 | 1 | 1248 | HG |
| CCB90 | CCB90 | 1 | 1250 | HG |
| CRA | CRA | 1 | 1252 | HG |
| CCV91 | CCV91 | 1 | 1320 | HG |
| CCB91 | CCB91 | 1 | 1322 | HG |
| CCV92 | CCV92 | 1 | 1348 | HG |
| CCB92 | CCB92 | 1 | 1351 | HG |
| PB168249BL | PB168249BL | 1 | 1353 | HG |
| PB168249BS | PB168249BS | 1 | 1355 | HG |
| CCV93 | CCV93 | 1 | 1416 | HG |
| CCB93 | CCB93 | 1 | 1418 | HG |
| Q2176-08DUP | TP-65DUP | 1 | 1427 | HG |
| Q2176-08MS | TP-65MS | 1 | 1430 | HG |
| Q2176-08MSD | TP-65MSD | 1 | 1432 | HG |
| Q2177-02 | B-187-SB01 | 1 | 1434 | HG |
| Q2177-04 | B-187-SB02 | 1 | 1437 | HG |
| Q2177-06 | B-202-SB01 | 1 | 1439 | HG |
| CCV94 | CCV94 | 1 | 1448 | HG |
| CCB94 | CCB94 | 1 | 1451 | HG |
| Q2176-08L | TP-65L | 5 | 1457 | HG |
| CCV95 | CCV95 | 1 | 1502 | HG |
| CCB95 | CCB95 | 1 | 1504 | HG |

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# metals
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## ANALYSIS RUN LOG

**Client:** Portal Partners Tri-Venture **Contract:** PORT06

**Lab code:** CHEM **Case no.:** Q2177 **Sas no.:** Q2177 **Sdg no.:** Q2177

**Instrument id number:** **Method:** **Run number:** LB136011

**Start date:** 06/04/2025 **End date:** 06/04/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1418 | 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 | 1423 | 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 | 1427 | 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 | 1431 | 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 | 1435 | 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 | 1439 | 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 | 1549 | 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 | 1606 | 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 | 1610 | 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 | 1615 | 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 | 1626 | 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 | 1632 | 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 | 1645 | 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 | 1652 | 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 | 1735 | 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 | 1739 | 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 | 1837 | 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 | 1842 | 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 | 1926 | 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 | 1930 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB168255BL | PB168255BL | 1 | 1951 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB168255BS | PB168255BS | 1 | 1955 | 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 | 2012 | 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 | 2016 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2177-08 | EB05312025 | 1 | 2020 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2169-03DUP | 303-PPR-2DUP | 1 | 2025 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2169-03L | 303-PPR-2L | 5 | 2029 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2169-03MS | 303-PPR-2MS | 1 | 2033 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2169-03MSD | 303-PPR-2MSD | 1 | 2037 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2169-03A | 303-PPR-2A | 1 | 2042 | Ag,Cu,Sb,Zn |
| CCV06 | CCV06 | 1 | 2058 | 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 | 2102 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV07 | CCV07 | 1 | 2141 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB07 | CCB07 | 1 | 2145 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV08 | CCV08 | 1 | 2206 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB08 | CCB08 | 1 | 2210 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |

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**metals**
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**ANALYSIS RUN LOG**

**Client:** Portal Partners Tri-Venture **Contract:** PORT06

**Lab code:** CHEM **Case no.:** Q2177 **Sas no.:** Q2177 **Sdg no.:** Q2177

**Instrument id number:** **Method:** **Run number:** LB136097

**Start date:** 06/10/2025 **End date:** 06/11/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1401 | 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 | 1405 | 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 | 1409 | 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 | 1414 | 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 | 1418 | 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 | 1422 | 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 | 1437 | 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 | 1441 | 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 | 1445 | 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 | 1450 | 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 | 1454 | 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 | 1518 | 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 | 1530 | 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 | 1535 | 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 | 1628 | 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 | 1632 | 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 | 1736 | 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 | 1740 | 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 | 1828 | 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 | 1832 | 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 | 1918 | 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 | 1922 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV06 | CCV06 | 1 | 2009 | 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 | 2014 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB168245BL | PB168245BL | 1 | 2035 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB168245BS | PB168245BS | 1 | 2039 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV07 | CCV07 | 1 | 2104 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB07 | CCB07 | 1 | 2108 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2177-02 | B-187-SB01 | 1 | 2136 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2177-04 | B-187-SB02 | 1 | 2140 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2177-04DUP | B-187-SB02DUP | 1 | 2144 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2177-04L | B-187-SB02L | 5 | 2148 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2177-04MS | B-187-SB02MS | 1 | 2152 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2177-04MSD | B-187-SB02MSD | 1 | 2156 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2177-04A | B-187-SB02A | 1 | 2200 | Ba,Na,Sb,Zn |
| CCV08 | CCV08 | 1 | 2204 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB08 | CCB08 | 1 | 2208 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2177-06 | B-202-SB01 | 1 | 2213 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV09 | CCV09 | 1 | 2256 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB09 | CCB09 | 1 | 2301 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV10 | CCV10 | 1 | 2357 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |

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**metals**
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**ANALYSIS RUN LOG**

**Client:** Portal Partners Tri-Venture **Contract:** PORT06

**Lab code:** CHEM **Case no.:** Q2177 **Sas no.:** Q2177 **Sdg no.:** Q2177

**Instrument id number:** **Method:** **Run number:** LB136097

**Start date:** 06/10/2025 **End date:** 06/11/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| CCB10 | CCB10 | 1 | 0002 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV11 | CCV11 | 1 | 0135 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB11 | CCB11 | 1 | 0139 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV12 | CCV12 | 1 | 0221 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB12 | CCB12 | 1 | 0225 | 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
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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:** | Q2177 | **OrderDate:** | 6/2/2025 11:19:00 AM |
| **Client:** | Portal Partners Tri-Venture | **Project:** | Amtrak Sawtooth Bridges 2025 |
| **Contact:** | Joseph Krupansky | **Location:** | L41,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2177-02** | **B-187-SB01** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | Mercury | 7471B | | 06/02/25 | 06/03/25 | |
| | | | Metals ICP-TAL | 6010D | | 06/02/25 | 06/10/25 | |
| **Q2177-04** | **B-187-SB02** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | Mercury | 7471B | | 06/02/25 | 06/03/25 | |
| | | | Metals ICP-TAL | 6010D | | 06/02/25 | 06/10/25 | |
| **Q2177-06** | **B-202-SB01** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | Mercury | 7471B | | 06/02/25 | 06/03/25 | |
| | | | Metals ICP-TAL | 6010D | | 06/02/25 | 06/10/25 | |
| **Q2177-08** | **EB05312025** | **Water** | | | **05/31/25** | | | **06/02/25** |
| | | | Mercury | 7470A | | 06/02/25 | 06/03/25 | |
| | | | Metals ICP-TAL | 6010D | | 06/03/25 | 06/04/25 | |

# METAL PREPARATION & ANALYICAL SUMMARY

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# Metals
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## SAMPLE PREPARATION SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Method:**

**Case No.:** Q2177 **SAS No.:** Q2177

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB168245** | | | | | | |
| PB168245BL | PB168245BL | MB | SOLID | 06/02/2025 | 2.00 | 100.0 | 100.00 |
| PB168245BS | PB168245BS | LCS | SOLID | 06/02/2025 | 2.00 | 100.0 | 100.00 |
| Q2177-02 | B-187-SB01 | SAM | SOLID | 06/02/2025 | 2.27 | 100.0 | 84.20 |
| Q2177-04 | B-187-SB02 | SAM | SOLID | 06/02/2025 | 2.12 | 100.0 | 62.80 |
| Q2177-04DUP | B-187-SB02DUP | DUP | SOLID | 06/02/2025 | 2.22 | 100.0 | 62.80 |
| Q2177-04MS | B-187-SB02MS | MS | SOLID | 06/02/2025 | 2.34 | 100.0 | 62.80 |
| Q2177-04MSD | B-187-SB02MSD | MSD | SOLID | 06/02/2025 | 2.18 | 100.0 | 62.80 |
| Q2177-06 | B-202-SB01 | SAM | SOLID | 06/02/2025 | 2.15 | 100.0 | 85.40 |

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Method:**

**Case No.:** Q2177 **SAS No.:** Q2177

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB168247** | | | | | | |
| PB168247BL | PB168247BL | MB | WATER | 06/02/2025 | 30.0 | 30.0 | |
| PB168247BS | PB168247BS | LCS | WATER | 06/02/2025 | 30.0 | 30.0 | |
| Q2155-04DUP | 444DUP | DUP | WATER | 06/02/2025 | 30.0 | 30.0 | |
| Q2155-04MS | 444MS | MS | WATER | 06/02/2025 | 30.0 | 30.0 | |
| Q2155-04MSD | 444MSD | MSD | WATER | 06/02/2025 | 30.0 | 30.0 | |
| Q2177-08 | EB05312025 | SAM | WATER | 06/02/2025 | 30.0 | 30.0 | |

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Method:**

**Case No.:** Q2177 **SAS No.:** Q2177

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB168249** | | | | | | |
| PB168249BL | PB168249BL | MB | SOLID | 06/02/2025 | 0.55 | 35.0 | 100.00 |
| PB168249BS | PB168249BS | LCS | SOLID | 06/02/2025 | 0.52 | 35.0 | 100.00 |
| Q2176-08DUP | TP-65DUP | DUP | SOLID | 06/02/2025 | 0.58 | 35.0 | 87.30 |
| Q2176-08MS | TP-65MS | MS | SOLID | 06/02/2025 | 0.54 | 35.0 | 87.30 |
| Q2176-08MSD | TP-65MSD | MSD | SOLID | 06/02/2025 | 0.56 | 35.0 | 87.30 |
| Q2177-02 | B-187-SB01 | SAM | SOLID | 06/02/2025 | 0.58 | 35.0 | 84.20 |
| Q2177-04 | B-187-SB02 | SAM | SOLID | 06/02/2025 | 0.60 | 35.0 | 62.80 |
| Q2177-06 | B-202-SB01 | SAM | SOLID | 06/02/2025 | 0.54 | 35.0 | 85.40 |

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Method:**

**Case No.:** Q2177 **SAS No.:** Q2177

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB168255** | | | | | | |
| PB168255BL | PB168255BL | MB | WATER | 06/03/2025 | 50.0 | 25.0 | |
| PB168255BS | PB168255BS | LCS | WATER | 06/03/2025 | 50.0 | 25.0 | |
| Q2169-03DUP | 303-PPR-2DUP | DUP | WATER | 06/03/2025 | 50.0 | 25.0 | |
| Q2169-03MS | 303-PPR-2MS | MS | WATER | 06/03/2025 | 50.0 | 25.0 | |
| Q2169-03MSD | 303-PPR-2MSD | MSD | WATER | 06/03/2025 | 50.0 | 25.0 | |
| Q2177-08 | EB05312025 | SAM | WATER | 06/03/2025 | 50.0 | 25.0 | |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135986

| | | | |
|---|---|---|---|
| Review By | MOHAN | Review On | 6/3/2025 4:23:45 PM |
| Supervise By | jaswal | Supervise On | 6/3/2025 4:39:12 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85814,MP85815,MP85816,MP85817,MP85818,MP85819 |
| ICV Standard | MP85820 |
| CCV Standard | MP85822 |
| ICSA Standard | |
| CRI Standard | MP85824 |
| LCS Standard | |
| Chk Standard | MP85821,MP85823,MP85825,MP8550 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 06/03/25 10:09 | | MOHAN | OK |
| 2 | S0.2 | S0.2 | CAL2 | 06/03/25 10:12 | | MOHAN | OK |
| 3 | S2.5 | S2.5 | CAL3 | 06/03/25 10:14 | | MOHAN | OK |
| 4 | S5 | S5 | CAL4 | 06/03/25 10:16 | | MOHAN | OK |
| 5 | S7.5 | S7.5 | CAL5 | 06/03/25 10:19 | | MOHAN | OK |
| 6 | S10 | S10 | CAL6 | 06/03/25 10:27 | | MOHAN | OK |
| 7 | ICV24 | ICV24 | ICV | 06/03/25 10:33 | | MOHAN | OK |
| 8 | ICB24 | ICB24 | ICB | 06/03/25 10:35 | | MOHAN | OK |
| 9 | CCV86 | CCV86 | CCV | 06/03/25 10:38 | | MOHAN | OK |
| 10 | CCB86 | CCB86 | CCB | 06/03/25 10:40 | | MOHAN | OK |
| 11 | CRA | CRA | CRDL | 06/03/25 10:50 | | MOHAN | OK |
| 12 | HighStd | HighStd | HIGH STD | 06/03/25 10:52 | | MOHAN | OK |
| 13 | ChkStd | ChkStd | SAM | 06/03/25 10:54 | | MOHAN | OK |
| 14 | PB168247BL | PB168247BL | MB | 06/03/25 10:59 | | MOHAN | OK |
| 15 | PB168247BS | PB168247BS | LCS | 06/03/25 11:04 | | MOHAN | OK |
| 16 | Q2137-03 | MOO-25-0149 | SAM | 06/03/25 11:06 | | MOHAN | OK |
| 17 | Q2155-03 | 447-WATER | SAM | 06/03/25 11:08 | | MOHAN | OK |
| 18 | Q2155-04 | 444 | SAM | 06/03/25 11:11 | | MOHAN | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135986

| | | | |
|---|---|---|---|
| Review By | MOHAN | Review On | 6/3/2025 4:23:45 PM |
| Supervise By | jaswal | Supervise On | 6/3/2025 4:39:12 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85814,MP85815,MP85816,MP85817,MP85818,MP85819 |
| ICV Standard | MP85820 |
| CCV Standard | MP85822 |
| ICSA Standard | |
| CRI Standard | MP85824 |
| LCS Standard | |
| Chk Standard | MP85821,MP85823,MP85825,MP8550 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2155-04DUP | 444DUP | DUP | 06/03/25 11:13 | | MOHAN | OK |
| 20 | Q2155-04MS | 444MS | MS | 06/03/25 11:20 | | MOHAN | OK |
| 21 | CCV87 | CCV87 | CCV | 06/03/25 11:22 | | MOHAN | OK |
| 22 | CCB87 | CCB87 | CCB | 06/03/25 11:25 | | MOHAN | OK |
| 23 | Q2155-04MSD | 444MSD | MSD | 06/03/25 11:27 | | MOHAN | OK |
| 24 | Q2155-05 | 445 | SAM | 06/03/25 11:29 | | MOHAN | OK |
| 25 | Q2157-02 | 289 | SAM | 06/03/25 11:32 | | MOHAN | OK |
| 26 | Q2165-03 | TRE-25-63-64 | SAM | 06/03/25 11:34 | | MOHAN | OK |
| 27 | Q2165-06 | TRE-25-65-66 | SAM | 06/03/25 11:36 | | MOHAN | OK |
| 28 | Q2169-01 | 303-PPR-1 | SAM | 06/03/25 11:38 | Hg high | MOHAN | Dilution |
| 29 | Q2169-03 | 303-PPR-2 | SAM | 06/03/25 11:41 | | MOHAN | OK |
| 30 | Q2170-01 | 51925-AQ | SAM | 06/03/25 11:43 | | MOHAN | OK |
| 31 | Q2175-06 | EGR-LIQUID | SAM | 06/03/25 11:46 | | MOHAN | OK |
| 32 | Q2177-08 | EB05312025 | SAM | 06/03/25 11:48 | | MOHAN | OK |
| 33 | CCV88 | CCV88 | CCV | 06/03/25 11:50 | | MOHAN | OK |
| 34 | CCB88 | CCB88 | CCB | 06/03/25 11:53 | | MOHAN | OK |
| 35 | Q2155-04L | 444L | SD | 06/03/25 11:55 | | MOHAN | OK |
| 36 | Q2155-04A | 444A | PS | 06/03/25 11:57 | | MOHAN | OK |
| 37 | Q2169-01DL | 303-PPR-1DL | SAM | 06/03/25 11:59 | 10X for Hg | MOHAN | Confirms |
| 38 | CCV89 | CCV89 | CCV | 06/03/25 12:02 | | MOHAN | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135986

| | | | |
|---|---|---|---|
| Review By | MOHAN | Review On | 6/3/2025 4:23:45 PM |
| Supervise By | jaswal | Supervise On | 6/3/2025 4:39:12 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85814,MP85815,MP85816,MP85817,MP85818,MP85819 |
| ICV Standard | MP85820 |
| CCV Standard | MP85822 |
| ICSA Standard | |
| CRI Standard | MP85824 |
| LCS Standard | |
| Chk Standard | MP85821,MP85823,MP85825,MP8550 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | CCB89 | CCB89 | CCB | 06/03/25 12:04 | | MOHAN | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135987

| | | | |
|---|---|---|---|
| Review By | MOHAN | Review On | 6/4/2025 5:35:54 PM |
| Supervise By | jaswal | Supervise On | 6/4/2025 5:41:40 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85814,MP85815,MP85816,MP85817,MP85818,MP85819 |
| ICV Standard | MP85820 |
| CCV Standard | MP85822 |
| ICSA Standard | |
| CRI Standard | MP85824 |
| LCS Standard | |
| Chk Standard | MP85821,MP85823,MP85825,MP8596 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 06/03/25 12:29 | | MOHAN | OK |
| 2 | S0.2 | S0.2 | CAL2 | 06/03/25 12:31 | | MOHAN | OK |
| 3 | S2.5 | S2.5 | CAL3 | 06/03/25 12:33 | | MOHAN | OK |
| 4 | S5 | S5 | CAL4 | 06/03/25 12:36 | | MOHAN | OK |
| 5 | S7.5 | S7.5 | CAL5 | 06/03/25 12:38 | | MOHAN | OK |
| 6 | S10 | S10 | CAL6 | 06/03/25 12:40 | | MOHAN | OK |
| 7 | ICV25 | ICV25 | ICV | 06/03/25 12:43 | | MOHAN | OK |
| 8 | ICB25 | ICB25 | ICB | 06/03/25 12:46 | | MOHAN | OK |
| 9 | CCV90 | CCV90 | CCV | 06/03/25 12:48 | | MOHAN | OK |
| 10 | CCB90 | CCB90 | CCB | 06/03/25 12:50 | | MOHAN | OK |
| 11 | CRA | CRA | CRDL | 06/03/25 12:52 | | MOHAN | OK |
| 12 | HighStd | HighStd | HIGH STD | 06/03/25 12:55 | | MOHAN | OK |
| 13 | ChkStd | ChkStd | SAM | 06/03/25 12:57 | | MOHAN | OK |
| 14 | PB168248BL | PB168248BL | MB | 06/03/25 12:59 | | MOHAN | OK |
| 15 | PB168248BS | PB168248BS | LCS | 06/03/25 13:04 | | MOHAN | OK |
| 16 | Q2152-01 | OK-02-05292025 | SAM | 06/03/25 13:07 | | MOHAN | OK |
| 17 | Q2153-01 | TR-04-0592025 | SAM | 06/03/25 13:09 | | MOHAN | OK |
| 18 | Q2159-01 | TP05-MHO-WC | SAM | 06/03/25 13:11 | | MOHAN | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135987

| | | | |
|---|---|---|---|
| Review By | MOHAN | Review On | 6/4/2025 5:35:54 PM |
| Supervise By | jaswal | Supervise On | 6/4/2025 5:41:40 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85814,MP85815,MP85816,MP85817,MP85818,MP85819 |
| ICV Standard | MP85820 |
| CCV Standard | MP85822 |
| ICSA Standard | |
| CRI Standard | MP85824 |
| LCS Standard | |
| Chk Standard | MP85821,MP85823,MP85825,MP8596 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2160-01 | TP04-MHG-WC | SAM | 06/03/25 13:13 | | MOHAN | OK |
| 20 | Q2160-01DUP | TP04-MHG-WCDUP | DUP | 06/03/25 13:18 | | MOHAN | OK |
| 21 | CCV91 | CCV91 | CCV | 06/03/25 13:20 | | MOHAN | OK |
| 22 | CCB91 | CCB91 | CCB | 06/03/25 13:22 | | MOHAN | OK |
| 23 | Q2160-01MS | TP04-MHG-WCMS | MS | 06/03/25 13:25 | | MOHAN | OK |
| 24 | Q2160-01MSD | TP04-MHG-WCMSD | MSD | 06/03/25 13:27 | | MOHAN | OK |
| 25 | Q2160-05 | TP05-MHH-WC | SAM | 06/03/25 13:29 | | MOHAN | OK |
| 26 | Q2168-01 | SAN-A1-A3 | SAM | 06/03/25 13:32 | | MOHAN | OK |
| 27 | Q2168-05 | SAN-B1-B3 | SAM | 06/03/25 13:34 | | MOHAN | OK |
| 28 | Q2168-09 | SAN-C1-C2 | SAM | 06/03/25 13:36 | Hg High | MOHAN | Dilution |
| 29 | Q2172-01 | TP06-MHQ | SAM | 06/03/25 13:39 | | MOHAN | OK |
| 30 | Q2173-01 | OR-400-CF-402B-CO | SAM | 06/03/25 13:41 | | MOHAN | OK |
| 31 | Q2173-07 | OR-400-CF-402B-CO | SAM | 06/03/25 13:44 | | MOHAN | OK |
| 32 | Q2173-13 | OR-400-CF-402B-CO | SAM | 06/03/25 13:46 | | MOHAN | OK |
| 33 | CCV92 | CCV92 | CCV | 06/03/25 13:48 | | MOHAN | OK |
| 34 | CCB92 | CCB92 | CCB | 06/03/25 13:51 | | MOHAN | OK |
| 35 | PB168249BL | PB168249BL | MB | 06/03/25 13:53 | | MOHAN | OK |
| 36 | PB168249BS | PB168249BS | LCS | 06/03/25 13:55 | | MOHAN | OK |
| 37 | Q2175-02 | 52725 | SAM | 06/03/25 13:57 | not present on log in page | MOHAN | Not Ok |
| 38 | Q2176-01 | TP-46 | SAM | 06/03/25 14:00 | | MOHAN | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135987

| | | | |
|---|---|---|---|
| Review By | MOHAN | Review On | 6/4/2025 5:35:54 PM |
| Supervise By | jaswal | Supervise On | 6/4/2025 5:41:40 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85814,MP85815,MP85816,MP85817,MP85818,MP85819 |
| ICV Standard | MP85820 |
| CCV Standard | MP85822 |
| ICSA Standard | |
| CRI Standard | MP85824 |
| LCS Standard | |
| Chk Standard | MP85821,MP85823,MP85825,MP8596 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | Q2176-02 | TP-56 | SAM | 06/03/25 14:02 | | MOHAN | OK |
| 40 | Q2176-03 | TP-25 | SAM | 06/03/25 14:04 | | MOHAN | OK |
| 41 | Q2176-04 | TP-26 | SAM | 06/03/25 14:07 | | MOHAN | OK |
| 42 | Q2176-05 | TP-28 | SAM | 06/03/25 14:09 | | MOHAN | OK |
| 43 | Q2176-06 | TP-27 | SAM | 06/03/25 14:11 | | MOHAN | OK |
| 44 | Q2176-07 | TP-31 | SAM | 06/03/25 14:13 | | MOHAN | OK |
| 45 | CCV93 | CCV93 | CCV | 06/03/25 14:16 | | MOHAN | OK |
| 46 | CCB93 | CCB93 | CCB | 06/03/25 14:18 | | MOHAN | OK |
| 47 | Q2176-08 | TP-65 | SAM | 06/03/25 14:25 | | MOHAN | OK |
| 48 | Q2176-08DUP | TP-65DUP | DUP | 06/03/25 14:27 | | MOHAN | OK |
| 49 | Q2176-08MS | TP-65MS | MS | 06/03/25 14:30 | | MOHAN | OK |
| 50 | Q2176-08MSD | TP-65MSD | MSD | 06/03/25 14:32 | | MOHAN | OK |
| 51 | Q2177-02 | B-187-SB01 | SAM | 06/03/25 14:34 | | MOHAN | OK |
| 52 | Q2177-04 | B-187-SB02 | SAM | 06/03/25 14:37 | | MOHAN | OK |
| 53 | Q2177-06 | B-202-SB01 | SAM | 06/03/25 14:39 | | MOHAN | OK |
| 54 | Q2185-01 | TP02-MHB-WC | SAM | 06/03/25 14:41 | | MOHAN | OK |
| 55 | Q2185-05 | TP01-MHA-WC | SAM | 06/03/25 14:44 | | MOHAN | OK |
| 56 | Q2168-09DL | SAN-C1-C2DL | SAM | 06/03/25 14:46 | 5X For HG | MOHAN | Confirms |
| 57 | CCV94 | CCV94 | CCV | 06/03/25 14:48 | | MOHAN | OK |
| 58 | CCB94 | CCB94 | CCB | 06/03/25 14:51 | | MOHAN | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135987

| | | | |
|---|---|---|---|
| Review By | MOHAN | Review On | 6/4/2025 5:35:54 PM |
| Supervise By | jaswal | Supervise On | 6/4/2025 5:41:40 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85814,MP85815,MP85816,MP85817,MP85818,MP85819 |
| ICV Standard | MP85820 |
| CCV Standard | MP85822 |
| ICSA Standard | |
| CRI Standard | MP85824 |
| LCS Standard | |
| Chk Standard | MP85821,MP85823,MP85825,MP8596 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 59 | Q2160-01L | TP04-MHG-WCL | SD | 06/03/25 14:53 | | MOHAN | OK |
| 60 | Q2160-01A | TP04-MHG-WCA | PS | 06/03/25 14:55 | | MOHAN | OK |
| 61 | Q2176-08L | TP-65L | SD | 06/03/25 14:57 | | MOHAN | OK |
| 62 | Q2176-08A | TP-65A | PS | 06/03/25 15:00 | | MOHAN | OK |
| 63 | CCV95 | CCV95 | CCV | 06/03/25 15:02 | | MOHAN | OK |
| 64 | CCB95 | CCB95 | CCB | 06/03/25 15:04 | | MOHAN | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136011

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/5/2025 3:57:54 PM |
| Supervise By | jaswal | Supervise On | 6/10/2025 4:55:25 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85872 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 06/04/25 14:18 | | Jaswal | OK |
| 2 | S1 | S1 | CAL2 | 06/04/25 14:23 | | Jaswal | OK |
| 3 | S2 | S2 | CAL3 | 06/04/25 14:27 | | Jaswal | OK |
| 4 | S3 | S3 | CAL4 | 06/04/25 14:31 | | Jaswal | OK |
| 5 | S4 | S4 | CAL5 | 06/04/25 14:35 | | Jaswal | OK |
| 6 | S5 | S5 | CAL6 | 06/04/25 14:39 | | Jaswal | OK |
| 7 | ICV01 | ICV01 | ICV | 06/04/25 15:49 | | Jaswal | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 06/04/25 16:06 | | Jaswal | OK |
| 9 | ICB01 | ICB01 | ICB | 06/04/25 16:10 | | Jaswal | OK |
| 10 | CRI01 | CRI01 | CRDL | 06/04/25 16:15 | | Jaswal | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 06/04/25 16:26 | | Jaswal | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 06/04/25 16:32 | | Jaswal | OK |
| 13 | ICSADL | ICSADL | ICSA | 06/04/25 16:36 | | Jaswal | OK |
| 14 | ICSABDL | ICSABDL | ICSAB | 06/04/25 16:40 | | Jaswal | OK |
| 15 | CCV01 | CCV01 | CCV | 06/04/25 16:45 | | Jaswal | OK |
| 16 | CCB01 | CCB01 | CCB | 06/04/25 16:52 | | Jaswal | OK |
| 17 | Q2160-05 | TP05-MHH-WC | SAM | 06/04/25 16:57 | | Jaswal | OK |
| 18 | Q2159-04 | TP05-MHO-WC | SAM | 06/04/25 17:01 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136011

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/5/2025 3:57:54 PM |
| Supervise By | jaswal | Supervise On | 6/10/2025 4:55:25 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85872 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2178-01 | RT2929 | SAM | 06/04/25 17:05 | | Jaswal | OK |
| 20 | Q2182-01 | OR-03-06022025 | SAM | 06/04/25 17:10 | | Jaswal | OK |
| 21 | Q2172-04 | TP06-MHQ | SAM | 06/04/25 17:14 | | Jaswal | OK |
| 22 | Q2178-02 | RT2929 | SAM | 06/04/25 17:18 | | Jaswal | OK |
| 23 | Q2185-01 | TP02-MHB-WC | SAM | 06/04/25 17:23 | | Jaswal | OK |
| 24 | Q2185-05 | TP01-MHA-WC | SAM | 06/04/25 17:27 | | Jaswal | OK |
| 25 | Q2178-01DUP | RT2929DUP | DUP | 06/04/25 17:31 | | Jaswal | OK |
| 26 | CCV02 | CCV02 | CCV | 06/04/25 17:35 | | Jaswal | OK |
| 27 | CCB02 | CCB02 | CCB | 06/04/25 17:39 | | Jaswal | OK |
| 28 | Q2178-01L | RT2929L | SD | 06/04/25 17:48 | | Jaswal | OK |
| 29 | Q2178-01MS | RT2929MS | MS | 06/04/25 17:53 | | Jaswal | OK |
| 30 | Q2178-01MSD | RT2929MSD | MSD | 06/04/25 17:57 | | Jaswal | OK |
| 31 | Q2178-01A | RT2929A | PS | 06/04/25 18:01 | | Jaswal | OK |
| 32 | PB168224TB | PB168224TB | MB | 06/04/25 18:05 | | Jaswal | OK |
| 33 | Q2168-02 | SAN-A1-A3 | SAM | 06/04/25 18:10 | | Jaswal | OK |
| 34 | Q2168-06 | SAN-B1-B3 | SAM | 06/04/25 18:14 | | Jaswal | OK |
| 35 | Q2168-10 | SAN-C1-C2 | SAM | 06/04/25 18:19 | | Jaswal | OK |
| 36 | Q2177-03 | B-187-SB01 | SAM | 06/04/25 18:23 | | Jaswal | OK |
| 37 | CCV03 | CCV03 | CCV | 06/04/25 18:37 | | Jaswal | OK |
| 38 | CCB03 | CCB03 | CCB | 06/04/25 18:42 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136011

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/5/2025 3:57:54 PM |
| Supervise By | jaswal | Supervise On | 6/10/2025 4:55:25 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85872 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | Q2177-05 | B-187-SB02 | SAM | 06/04/25 18:47 | | Jaswal | OK |
| 40 | Q2177-07 | B-202-SB01 | SAM | 06/04/25 18:51 | | Jaswal | OK |
| 41 | Q2185-04 | TP02-MHB-WC | SAM | 06/04/25 18:56 | | Jaswal | OK |
| 42 | Q2185-08 | TP01-MHA-WC | SAM | 06/04/25 19:00 | | Jaswal | OK |
| 43 | Q2185-08DUP | TP01-MHA-WC | DUP | 06/04/25 19:04 | | Jaswal | OK |
| 44 | Q2185-08L | TP01-MHA-WC | SD | 06/04/25 19:09 | | Jaswal | OK |
| 45 | Q2185-08MS | TP01-MHA-WCMS | MS | 06/04/25 19:13 | | Jaswal | OK |
| 46 | Q2185-08MSD | TP01-MHA-WCMSD | MSD | 06/04/25 19:17 | | Jaswal | OK |
| 47 | Q2185-08A | TP01-MHA-WC | PS | 06/04/25 19:22 | | Jaswal | OK |
| 48 | CCV04 | CCV04 | CCV | 06/04/25 19:26 | | Jaswal | OK |
| 49 | CCB04 | CCB04 | CCB | 06/04/25 19:30 | | Jaswal | OK |
| 50 | PB168256BL | PB168256BL | MB | 06/04/25 19:34 | | Jaswal | OK |
| 51 | PB168256BS | PB168256BS | LCS | 06/04/25 19:39 | | Jaswal | OK |
| 52 | PB168261BL | PB168261BL | MB | 06/04/25 19:43 | | Jaswal | OK |
| 53 | PB168261BS | PB168261BS | LCS | 06/04/25 19:47 | | Jaswal | OK |
| 54 | PB168255BL | PB168255BL | MB | 06/04/25 19:51 | | Jaswal | OK |
| 55 | PB168255BS | PB168255BS | LCS | 06/04/25 19:55 | | Jaswal | OK |
| 56 | Q2169-01 | 303-PPR-1 | SAM | 06/04/25 19:59 | | Jaswal | OK |
| 57 | Q2169-03 | 303-PPR-2 | SAM | 06/04/25 20:03 | | Jaswal | OK |
| 58 | Q2175-06DL | EGR-LIQUIDDL | SAM | 06/04/25 20:08 | Straight 5x for all elements | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136011

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/5/2025 3:57:54 PM |
| Supervise By | jaswal | Supervise On | 6/10/2025 4:55:25 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85872 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 59 | CCV05 | CCV05 | CCV | 06/04/25 20:12 | | Jaswal | OK |
| 60 | CCB05 | CCB05 | CCB | 06/04/25 20:16 | | Jaswal | OK |
| 61 | Q2177-08 | EB05312025 | SAM | 06/04/25 20:20 | | Jaswal | OK |
| 62 | Q2169-03DUP | 303-PPR-2DUP | DUP | 06/04/25 20:25 | | Jaswal | OK |
| 63 | Q2169-03L | 303-PPR-2L | SD | 06/04/25 20:29 | | Jaswal | OK |
| 64 | Q2169-03MS | 303-PPR-2MS | MS | 06/04/25 20:33 | | Jaswal | OK |
| 65 | Q2169-03MSD | 303-PPR-2MSD | MSD | 06/04/25 20:37 | | Jaswal | OK |
| 66 | Q2169-03A | 303-PPR-2A | PS | 06/04/25 20:42 | | Jaswal | OK |
| 67 | PB168276BL | PB168276BL | MB | 06/04/25 20:46 | | Jaswal | OK |
| 68 | PB168276BS | PB168276BS | LCS | 06/04/25 20:50 | | Jaswal | OK |
| 69 | Q2175-09DL | 52725DL | SAM | 06/04/25 20:54 | Straight 5x for all elements | Jaswal | OK |
| 70 | CCV06 | CCV06 | CCV | 06/04/25 20:58 | | Jaswal | OK |
| 71 | CCB06 | CCB06 | CCB | 06/04/25 21:02 | | Jaswal | OK |
| 72 | Q2198-05DL | B-202-GW01DL | SAM | 06/04/25 21:07 | Straight 5x for all elements | Jaswal | OK |
| 73 | Q2198-05DUPDL | B-202-GW01DUPDL | DUP | 06/04/25 21:11 | Straight 5x for all elements | Jaswal | OK |
| 74 | Q2198-05LDL | B-202-GW01LDL | SD | 06/04/25 21:15 | Straight 25x for all elements | Jaswal | OK |
| 75 | Q2198-05MSDL | B-202-GW01MSDL | MS | 06/04/25 21:20 | Straight 5x for all elements | Jaswal | OK |
| 76 | Q2198-05MSDDL | B-202-GW01MSDDL | MSD | 06/04/25 21:24 | Straight 5x for all elements | Jaswal | OK |
| 77 | Q2198-05ADL | B-202-GW01ADL | PS | 06/04/25 21:28 | Straight 5x for all elements | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136011

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/5/2025 3:57:54 PM |
| Supervise By | jaswal | Supervise On | 6/10/2025 4:55:25 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85872 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 78 | Q2172-01 | TP06-MHQ | SAM | 06/04/25 21:32 | CCV fail for Fe,K,Na | Jaswal | Not Ok |
| 79 | Q2172-01DUP | TP06-MHQDUP | DUP | 06/04/25 21:37 | CCV fail for Fe,K,Na | Jaswal | Not Ok |
| 80 | CCV07 | CCV07 | CCV | 06/04/25 21:41 | | Jaswal | OK |
| 81 | CCB07 | CCB07 | CCB | 06/04/25 21:45 | | Jaswal | OK |
| 82 | Q2172-01L | TP06-MHQL | SD | 06/04/25 21:49 | CCV fail for Fe,K,Na | Jaswal | Not Ok |
| 83 | Q2172-01MS | TP06-MHQMS | MS | 06/04/25 21:54 | CCV fail for Fe,K,Na | Jaswal | Not Ok |
| 84 | Q2172-01MSD | TP06-MHQMSD | MSD | 06/04/25 21:57 | CCV fail for Fe,K,Na | Jaswal | Not Ok |
| 85 | Q2172-01A | TP06-MHQA | PS | 06/04/25 22:01 | CCV fail for Fe,K,Na | Jaswal | Not Ok |
| 86 | CCV08 | CCV08 | CCV | 06/04/25 22:06 | CCV fail for Fe,K,Na | Jaswal | OK |
| 87 | CCB08 | CCB08 | CCB | 06/04/25 22:10 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136097

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/11/2025 10:49:51 AM |
| Supervise By | jaswal | Supervise On | 6/11/2025 2:45:55 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85934 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 06/10/25 14:01 | | Jaswal | OK |
| 2 | S1 | S1 | CAL2 | 06/10/25 14:05 | | Jaswal | OK |
| 3 | S2 | S2 | CAL3 | 06/10/25 14:09 | | Jaswal | OK |
| 4 | S3 | S3 | CAL4 | 06/10/25 14:14 | | Jaswal | OK |
| 5 | S4 | S4 | CAL5 | 06/10/25 14:18 | | Jaswal | OK |
| 6 | S5 | S5 | CAL6 | 06/10/25 14:22 | | Jaswal | OK |
| 7 | ICV01 | ICV01 | ICV | 06/10/25 14:37 | | Jaswal | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 06/10/25 14:41 | | Jaswal | OK |
| 9 | ICB01 | ICB01 | ICB | 06/10/25 14:45 | | Jaswal | OK |
| 10 | CRI01 | CRI01 | CRDL | 06/10/25 14:50 | | Jaswal | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 06/10/25 14:54 | | Jaswal | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 06/10/25 15:18 | | Jaswal | OK |
| 13 | ICSADL | ICSADL | ICSA | 06/10/25 15:22 | | Jaswal | OK |
| 14 | ICSABDL | ICSABDL | ICSAB | 06/10/25 15:26 | | Jaswal | OK |
| 15 | CCV01 | CCV01 | CCV | 06/10/25 15:30 | | Jaswal | OK |
| 16 | CCB01 | CCB01 | CCB | 06/10/25 15:35 | | Jaswal | OK |
| 17 | Q2242-04 | TP09-MHJ | SAM | 06/10/25 15:39 | | Jaswal | OK |
| 18 | Q2242-04DUP | TP09-MHJDUP | DUP | 06/10/25 15:43 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136097

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/11/2025 10:49:51 AM |
| Supervise By | jaswal | Supervise On | 6/11/2025 2:45:55 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85934 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2242-04L | TP09-MHJL | SD | 06/10/25 15:48 | | Jaswal | OK |
| 20 | Q2242-04MS | TP09-MHJMS | MS | 06/10/25 15:52 | | Jaswal | OK |
| 21 | Q2242-04MSD | TP09-MHJMSD | MSD | 06/10/25 15:56 | | Jaswal | OK |
| 22 | Q2242-04A | TP09-MHJA | PS | 06/10/25 16:00 | 0.1ML EACH M6004, M6013-10ML SAMPLE | Jaswal | OK |
| 23 | Q2197-01 | DSN002 | SAM | 06/10/25 16:05 | | Jaswal | OK |
| 24 | Q2197-03 | DSN001 | SAM | 06/10/25 16:15 | | Jaswal | OK |
| 25 | Q2197-05 | DSN003 | SAM | 06/10/25 16:19 | | Jaswal | OK |
| 26 | Q2210-01 | TW1 | SAM | 06/10/25 16:23 | | Jaswal | OK |
| 27 | CCV02 | CCV02 | CCV | 06/10/25 16:28 | | Jaswal | OK |
| 28 | CCB02 | CCB02 | CCB | 06/10/25 16:32 | | Jaswal | OK |
| 29 | Q2243-01 | WATER-TREATMENT | SAM | 06/10/25 16:37 | | Jaswal | OK |
| 30 | Q2241-01 | TP-N | SAM | 06/10/25 16:41 | | Jaswal | OK |
| 31 | Q2241-05 | TP-S | SAM | 06/10/25 16:45 | | Jaswal | OK |
| 32 | Q2248-01 | TR-05-060525 | SAM | 06/10/25 16:49 | | Jaswal | OK |
| 33 | Q2197-05DUP | DSN003DUP | DUP | 06/10/25 16:53 | | Jaswal | OK |
| 34 | Q2197-05L | DSN003L | SD | 06/10/25 16:58 | | Jaswal | OK |
| 35 | Q2197-05MS | DSN003MS | MS | 06/10/25 17:02 | | Jaswal | OK |
| 36 | Q2197-05MSD | DSN003MSD | MSD | 06/10/25 17:06 | | Jaswal | OK |
| 37 | Q2197-05A | DSN003A | PS | 06/10/25 17:28 | 0.1ML EACH M6004, M6013-10ML SAMPLE | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136097

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/11/2025 10:49:51 AM |
| Supervise By | jaswal | Supervise On | 6/11/2025 2:45:55 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85934 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | Q2137-05 | MOO-25-0151 | SAM | 06/10/25 17:32 | | Jaswal | OK |
| 39 | CCV03 | CCV03 | CCV | 06/10/25 17:36 | | Jaswal | OK |
| 40 | CCB03 | CCB03 | CCB | 06/10/25 17:40 | | Jaswal | OK |
| 41 | Q2240-01 | TP-3 | SAM | 06/10/25 17:45 | | Jaswal | OK |
| 42 | Q2240-05 | TP-2 | SAM | 06/10/25 17:49 | | Jaswal | OK |
| 43 | Q2240-09 | TP-1 | SAM | 06/10/25 17:53 | | Jaswal | OK |
| 44 | Q2244-01 | TP03-MHC | SAM | 06/10/25 17:58 | | Jaswal | OK |
| 45 | Q2242-01 | TP09-MHJ | SAM | 06/10/25 18:02 | | Jaswal | OK |
| 46 | Q2238-01DUP | 0528DUP | DUP | 06/10/25 18:06 | RPD fail for more than 50% parameter | Jaswal | Not Ok |
| 47 | Q2238-01L | 0528L | SD | 06/10/25 18:11 | RPD fail for more than 50% parameter | Jaswal | Not Ok |
| 48 | Q2238-01MS | 0528MS | MS | 06/10/25 18:15 | RPD fail for more than 50% parameter | Jaswal | Not Ok |
| 49 | Q2238-01MSD | 0528MSD | MSD | 06/10/25 18:19 | RPD fail for more than 50% parameter | Jaswal | Not Ok |
| 50 | Q2238-01A | 0528A | PS | 06/10/25 18:23 | RPD fail for more than 50% parameter | Jaswal | Not Ok |
| 51 | CCV04 | CCV04 | CCV | 06/10/25 18:28 | | Jaswal | OK |
| 52 | CCB04 | CCB04 | CCB | 06/10/25 18:32 | | Jaswal | OK |
| 53 | PB168309BL | PB168309BL | MB | 06/10/25 18:36 | | Jaswal | OK |
| 54 | PB168309BS | PB168309BS | LCS | 06/10/25 18:40 | | Jaswal | OK |
| 55 | PB168284BL | PB168284BL | MB | 06/10/25 18:44 | NOT USE | Jaswal | Not Ok |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136097

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/11/2025 10:49:51 AM |
| Supervise By | jaswal | Supervise On | 6/11/2025 2:45:55 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85934 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 56 | PB168284BS | PB168284BS | LCS | 06/10/25 18:49 | NOT USE | Jaswal | Not Ok |
| 57 | PB168310BL | PB168310BL | MB | 06/10/25 18:53 | | Jaswal | OK |
| 58 | PB168310BS | PB168310BS | LCS | 06/10/25 18:57 | | Jaswal | OK |
| 59 | Q2246-01 | BU-03-060525 | SAM | 06/10/25 19:01 | | Jaswal | OK |
| 60 | Q2259-03 | OU4-PCS-TC-37-060 | SAM | 06/10/25 19:05 | | Jaswal | OK |
| 61 | Q2259-05 | OU4-TS-29-060525 | SAM | 06/10/25 19:10 | | Jaswal | OK |
| 62 | Q2259-06 | OU4-TS-30-060525 | SAM | 06/10/25 19:14 | | Jaswal | OK |
| 63 | CCV05 | CCV05 | CCV | 06/10/25 19:18 | | Jaswal | OK |
| 64 | CCB05 | CCB05 | CCB | 06/10/25 19:22 | | Jaswal | OK |
| 65 | Q2265-01 | TP11-MHL-WC | SAM | 06/10/25 19:27 | | Jaswal | OK |
| 66 | Q2266-01 | WC-3 | SAM | 06/10/25 19:31 | | Jaswal | OK |
| 67 | Q2266-05 | WC-5 | SAM | 06/10/25 19:35 | | Jaswal | OK |
| 68 | Q2260-01 | TP10-MHG-WC | SAM | 06/10/25 19:39 | | Jaswal | OK |
| 69 | Q2260-01DUP | TP10-MHG-WCDUP | DUP | 06/10/25 19:44 | | Jaswal | OK |
| 70 | Q2260-01L | TP10-MHG-WCL | SD | 06/10/25 19:48 | | Jaswal | OK |
| 71 | Q2260-01MS | TP10-MHG-WCMS | MS | 06/10/25 19:52 | | Jaswal | OK |
| 72 | Q2260-01MSD | TP10-MHG-WCMSD | MSD | 06/10/25 19:57 | | Jaswal | OK |
| 73 | Q2260-01A | TP10-MHG-WCA | PS | 06/10/25 20:01 | 0.1ML EACH M6004, M6013-10ML SAMPLE | Jaswal | OK |
| 74 | PB168353BL | PB168353BL | MB | 06/10/25 20:05 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136097

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/11/2025 10:49:51 AM |
| Supervise By | jaswal | Supervise On | 6/11/2025 2:45:55 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85934 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 75 | CCV06 | CCV06 | CCV | 06/10/25 20:09 | | Jaswal | OK |
| 76 | CCB06 | CCB06 | CCB | 06/10/25 20:14 | | Jaswal | OK |
| 77 | PB168353BS | PB168353BS | LCS | 06/10/25 20:22 | | Jaswal | OK |
| 78 | Q2259-01 | OU4-PCS-TC-36-060 | SAM | 06/10/25 20:26 | | Jaswal | OK |
| 79 | Q2238-01 | 0528 | SAM | 06/10/25 20:30 | RPD fail for more than 50% parameter | Jaswal | Not Ok |
| 80 | PB168245BL | PB168245BL | MB | 06/10/25 20:35 | | Jaswal | OK |
| 81 | PB168245BS | PB168245BS | LCS | 06/10/25 20:39 | | Jaswal | OK |
| 82 | Q2176-01 | TP-46 | SAM | 06/10/25 20:43 | | Jaswal | OK |
| 83 | Q2176-02 | TP-56 | SAM | 06/10/25 20:47 | | Jaswal | OK |
| 84 | Q2176-03 | TP-25 | SAM | 06/10/25 20:51 | | Jaswal | OK |
| 85 | Q2176-04 | TP-26 | SAM | 06/10/25 20:55 | | Jaswal | OK |
| 86 | Q2176-05 | TP-28 | SAM | 06/10/25 21:00 | | Jaswal | OK |
| 87 | CCV07 | CCV07 | CCV | 06/10/25 21:04 | | Jaswal | OK |
| 88 | CCB07 | CCB07 | CCB | 06/10/25 21:08 | | Jaswal | OK |
| 89 | Q2176-06 | TP-27 | SAM | 06/10/25 21:12 | | Jaswal | OK |
| 90 | Q2176-07 | TP-31 | SAM | 06/10/25 21:16 | | Jaswal | OK |
| 91 | Q2176-08 | TP-65 | SAM | 06/10/25 21:32 | | Jaswal | OK |
| 92 | Q2177-02 | B-187-SB01 | SAM | 06/10/25 21:36 | | Jaswal | OK |
| 93 | Q2177-04 | B-187-SB02 | SAM | 06/10/25 21:40 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136097

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/11/2025 10:49:51 AM |
| Supervise By | jaswal | Supervise On | 6/11/2025 2:45:55 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85934 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 94 | Q2177-04DUP | B-187-SB02DUP | DUP | 06/10/25 21:44 | | Jaswal | OK |
| 95 | Q2177-04L | B-187-SB02L | SD | 06/10/25 21:48 | | Jaswal | OK |
| 96 | Q2177-04MS | B-187-SB02MS | MS | 06/10/25 21:52 | | Jaswal | OK |
| 97 | Q2177-04MSD | B-187-SB02MSD | MSD | 06/10/25 21:56 | | Jaswal | OK |
| 98 | Q2177-04A | B-187-SB02A | PS | 06/10/25 22:00 | 0.1ML EACH M6004, M6013-10ML SAMPLE | Jaswal | OK |
| 99 | CCV08 | CCV08 | CCV | 06/10/25 22:04 | | Jaswal | OK |
| 100 | CCB08 | CCB08 | CCB | 06/10/25 22:08 | | Jaswal | OK |
| 101 | Q2177-06 | B-202-SB01 | SAM | 06/10/25 22:13 | | Jaswal | OK |
| 102 | PB168359BL | PB168359BL | MB | 06/10/25 22:17 | | Jaswal | OK |
| 103 | PB168359BS | PB168359BS | LCS | 06/10/25 22:21 | | Jaswal | OK |
| 104 | Q2244-04 | TP03-MHC | SAM | 06/10/25 22:25 | | Jaswal | OK |
| 105 | Q2260-04 | TP10-MHG-WC | SAM | 06/10/25 22:30 | | Jaswal | OK |
| 106 | Q2262-02 | ARS20-0032 | SAM | 06/10/25 22:34 | | Jaswal | OK |
| 107 | Q2262-04 | ARS20-0001 | SAM | 06/10/25 22:39 | | Jaswal | OK |
| 108 | Q2265-04 | TP11-MHL-WC | SAM | 06/10/25 22:43 | | Jaswal | OK |
| 109 | Q2266-04 | WC-3 | SAM | 06/10/25 22:48 | | Jaswal | OK |
| 110 | Q2266-08 | WC-5 | SAM | 06/10/25 22:52 | | Jaswal | OK |
| 111 | CCV09 | CCV09 | CCV | 06/10/25 22:56 | | Jaswal | OK |
| 112 | CCB09 | CCB09 | CCB | 06/10/25 23:01 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136097

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/11/2025 10:49:51 AM |
| Supervise By | jaswal | Supervise On | 6/11/2025 2:45:55 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85934 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 113 | Q2266-08DUP | WC-5DUP | DUP | 06/10/25 23:05 | | Jaswal | OK |
| 114 | Q2266-08L | WC-5L | SD | 06/10/25 23:09 | | Jaswal | OK |
| 115 | Q2266-08MS | WC-5MS | MS | 06/10/25 23:14 | | Jaswal | OK |
| 116 | Q2266-08MSD | WC-5MSD | MSD | 06/10/25 23:18 | | Jaswal | OK |
| 117 | Q2266-08A | WC-5A | PS | 06/10/25 23:32 | 0.1ML EACH M6004, M6013-10ML SAMPLE | Jaswal | OK |
| 118 | PB168333TB | PB168333TB | MB | 06/10/25 23:36 | | Jaswal | OK |
| 119 | PB168384BL | PB168384BL | MB | 06/10/25 23:41 | | Jaswal | OK |
| 120 | PB168384BS | PB168384BS | LCS | 06/10/25 23:45 | | Jaswal | OK |
| 121 | Q2253-01 | RW8-SP100-2025060 | SAM | 06/10/25 23:49 | | Jaswal | OK |
| 122 | Q2253-02 | RW8-SP303-2025060 | SAM | 06/10/25 23:53 | | Jaswal | OK |
| 123 | CCV10 | CCV10 | CCV | 06/10/25 23:57 | | Jaswal | OK |
| 124 | CCB10 | CCB10 | CCB | 06/11/25 00:02 | | Jaswal | OK |
| 125 | Q2253-02DUP | RW8-SP303-2025060 | DUP | 06/11/25 00:06 | | Jaswal | OK |
| 126 | Q2253-02L | RW8-SP303-2025060 | SD | 06/11/25 00:10 | | Jaswal | OK |
| 127 | Q2253-02MS | RW8-SP303-2025060 | MS | 06/11/25 00:15 | | Jaswal | OK |
| 128 | Q2253-02MSD | RW8-SP303-2025060 | MSD | 06/11/25 00:19 | | Jaswal | OK |
| 129 | Q2253-02A | RW8-SP303-2025060 | PS | 06/11/25 01:01 | 0.1ML EACH M6004, M6013-10ML SAMPLE | Jaswal | OK |
| 130 | PB168385BL | PB168385BL | MB | 06/11/25 01:05 | | Jaswal | OK |
| 131 | PB168385BS | PB168385BS | LCS | 06/11/25 01:09 | | Jaswal | OK |

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Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136097

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/11/2025 10:49:51 AM |
| Supervise By | jaswal | Supervise On | 6/11/2025 2:45:55 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85934 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 132 | Q2271-01 | TP12-MHK-WC | SAM | 06/11/25 01:13 | | Jaswal | OK |
| 133 | Q2272-01 | TP-6 | SAM | 06/11/25 01:17 | | Jaswal | OK |
| 134 | Q2273-01 | WC-4 | SAM | 06/11/25 01:21 | | Jaswal | OK |
| 135 | CCV11 | CCV11 | CCV | 06/11/25 01:35 | | Jaswal | OK |
| 136 | CCB11 | CCB11 | CCB | 06/11/25 01:39 | | Jaswal | OK |
| 137 | Q2273-05 | WC-6 | SAM | 06/11/25 01:44 | | Jaswal | OK |
| 138 | Q2274-01 | TP-13-MHP-WC | SAM | 06/11/25 01:48 | | Jaswal | OK |
| 139 | Q2274-01DUP | TP-13-MHP-WCDUP | DUP | 06/11/25 01:52 | | Jaswal | OK |
| 140 | Q2274-01L | TP-13-MHP-WCL | SD | 06/11/25 01:56 | | Jaswal | OK |
| 141 | Q2274-01MS | TP-13-MHP-WCMS | MS | 06/11/25 02:01 | | Jaswal | OK |
| 142 | Q2274-01MSD | TP-13-MHP-WCMSD | MSD | 06/11/25 02:05 | | Jaswal | OK |
| 143 | Q2274-01A | TP-13-MHP-WCA | PS | 06/11/25 02:09 | 0.1ML EACH M6004, M6013-10ML SAMPLE | Jaswal | OK |
| 144 | CCV12 | CCV12 | CCV | 06/11/25 02:21 | | Jaswal | OK |
| 145 | CCB12 | CCB12 | CCB | 06/11/25 02:25 | | Jaswal | OK |

Alliance TECHNICAL GROUP

# Soil/Sludge Metals Preparation Sheet

PB168245

**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 #3 2. N/A

**Start Digest Date:** 06/02/2025 **Time :** 13:05 **Temp :** 96 °C

**End Digest Date:** 06/02/2025 **Time :** 15:15 **Temp :** 96 °C

**Digestion tube ID:** M6054

**Block thermometer ID:** MET-DIG. #3

**Dig Technician Signature:** SLG.

**Supervisor Signature:**

**Temp :** 1. 96°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LFS-1 | 1.00 | M6007 |
| LFS-2 | 1.00 | M6016 |
| 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 | M6158 |
| 1:1 HNO3 | 10.00 | MP84041 |
| 30% H2O2 | 3.00 | M6162 |
| 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#3 CELL#35 96 C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 06/2/25 16:15 | SLG. met dig. | Metals Lab |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**Soil/Sludge Metals Preparation Sheet**

**PB168245**

| Lab Sample ID | Client Sample ID | pH | Initial Weight (g) | Final Vol (ml) | Color Before | Color After | Texture | Artifact | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| PB168245BL | PBS245 | N/A | 2.00 | 100 | Colorless | Colorless | Fine | N/A | N/A | 1 |
| PB168245BS | LCS245 | N/A | 2.00 | 100 | Colorless | Colorless | Fine | N/A | M6007,M6016 | 2 |
| Q2175-02 | 52725 | N/A | 2.24 | 100 | Brown | Yellow | Medium | N/A | N/A | 3 |
| Q2176-01 | TP-46 | N/A | 2.46 | 100 | Brown | Yellow | Medium | N/A | N/A | 4 |
| Q2176-02 | TP-56 | N/A | 2.25 | 100 | Brown | Yellow | Medium | N/A | N/A | 5 |
| Q2176-03 | TP-25 | N/A | 2.10 | 100 | Brown | Yellow | Medium | N/A | N/A | 6 |
| Q2176-04 | TP-26 | N/A | 2.48 | 100 | Brown | Yellow | Medium | N/A | N/A | 7 |
| Q2176-05 | TP-28 | N/A | 2.22 | 100 | Brown | Yellow | Medium | N/A | N/A | 8 |
| Q2176-06 | TP-27 | N/A | 2.12 | 100 | Brown | Yellow | Medium | N/A | N/A | 9 |
| Q2176-07 | TP-31 | N/A | 2.15 | 100 | Brown | Yellow | Medium | N/A | N/A | 10 |
| Q2176-08 | TP-65 | N/A | 2.25 | 100 | Brown | Yellow | Medium | N/A | N/A | 11 |
| Q2177-02 | B-187-SB01 | N/A | 2.27 | 100 | Brown | Yellow | Medium | N/A | N/A | 12 |
| Q2177-04 | B-187-SB02 | N/A | 2.12 | 100 | Brown | Yellow | Medium | N/A | N/A | 13 |
| Q2177-04MS | B-187-SB02MS | N/A | 2.34 | 100 | Brown | Yellow | Medium | N/A | M6007,M6016 | 15 |
| Q2177-04MSD | B-187-SB02MSD | N/A | 2.18 | 100 | Brown | Yellow | Medium | N/A | M6007,M6016 | 16 |
| Q2177-04DUP | B-187-SB02DUP | N/A | 2.22 | 100 | Brown | Yellow | Medium | N/A | N/A | 14 |
| Q2177-06 | B-202-SB01 | N/A | 2.15 | 100 | Brown | Yellow | Medium | N/A | N/A | 17 |

Alliance TECHNICAL GROUP

**Water Mercury Preparation Sheet**

PB168247

**SOP ID :** M7470A-Mercury-20

**SDG No :** NA

**Matrix :** WATER

**Pippete ID:** HG A

**Balance ID :** N/A

**Filter paper ID :** NA

**pH Strip ID :** M6069

**Hood ID :** #1

**Block ID:** 1. HG HOT BLOCK#3 2. N/A

**Start Digest Date:** 06/02/2025 **Time :** 14:40 **Temp :** 94 °C

**End Digest Date:** 06/02/2025 **Time :** 16:40 **Temp :** 95 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** HG-DIG#3

**Dig Technician Signature:** MB

**Supervisor Signature:** 12

**Temp :** 1. 94°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| ICV | 30mL | MP85820 |
| CCV | 30mL | MP85822 |
| Blank Spike | 30mL | MP85824 |
| Blank Spike | 0.48mL | MP85813 |
| Matrix Spike | 0.48mL | MP85813 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| HNO3/H2SO4(1:2) | 2.25mL | MP85240 |
| KMnO4 (5%) | 4.5mL | MP85241 |
| K2S2O8 (5%) | 2.4mL | MP85242 |
| Hydroxylamine HCL (12%) | 1.8mL | MP85243 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| 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 | MP85814 |
| 0.05 ppb | S0.05 | N/A | N/A |
| 0.2 ppb | S0.2 | 30mL | MP85815 |
| 2.5 ppb | S2.5 | 30mL | MP85816 |
| 5.0 ppb | S5.0 | 30mL | MP85817 |
| 7.5 ppb | S7.5 | 30mL | MP85818 |
| 10.0 ppb | S10.0 | 30mL | MP85819 |
| ICV | ICV | 30mL | MP85820 |
| ICB | ICB | 30mL | MP85821 |
| CCV | CCV | 30mL | MP85822 |
| CCB | CCB | 30mL | MP85823 |
| CRI | CRI | 30mL | MP85824 |
| CHK STD | CHK STD | 30mL | MP85825 |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 6/2/25 @ 17:10 | MB - Prep. Lab | MB - Packed Lab |
| | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

# Water Mercury Preparation Sheet

**PB168247**

| Lab Sample ID | Client Sample ID | Initial Vol (ml) | Final Vol (ml) | pH | Comment | Prep Pos |
|---|---|---|---|---|---|---|
| PB168247BL | PBW247 | 30 | 30 | <2 | N/A | 3-1 |
| PB168247BS | LCS247 | 30 | 30 | <2 | MP85813 | 2 |
| Q2137-03 | MOO-25-0149 | 30 | 30 | <2 | N/A | 3 |
| Q2155-03 | 447-WATER | 30 | 30 | <2 | N/A | 4 |
| Q2155-04 | 444 | 30 | 30 | <2 | N/A | 5 |
| Q2155-04DUP | 444DUP | 30 | 30 | <2 | N/A | 6 |
| Q2155-04MS | 444MS | 30 | 30 | <2 | MP85813 | 7 |
| Q2155-04MSD | 444MSD | 30 | 30 | <2 | MP85813 | 8 |
| Q2155-05 | 445 | 30 | 30 | <2 | N/A | 9 |
| Q2157-02 | 289 | 30 | 30 | <2 | N/A | 10 |
| Q2165-03 | TRE-25-63-64 | 30 | 30 | <2 | N/A | 11 |
| Q2165-06 | TRE-25-65-66 | 30 | 30 | <2 | N/A | 12 |
| Q2169-01 | 303-PPR-1 | 30 | 30 | <2 | N/A | 13 |
| Q2169-03 | 303-PPR-2 | 30 | 30 | <2 | N/A | 14 |
| Q2170-01 | 51925-AQ | 30 | 30 | <2 | N/A | 15 |
| Q2175-06 | EGR-LIQUID | 30 | 30 | <2 | N/A | 16 |
| Q2177-08 | EB05312025 | 30 | 30 | <2 | N/A | 17 |

Alliance TECHNICAL GROUP

# Soil/Sludge Mercury Preparation Sheet

PB168249

**SOP ID :** M7471B-Mercury-18

**SDG No :** NA

**Matrix :** SOIL

**Pippete ID:** HG A

**Balance ID :** M SC-3

**Filter paper ID :** NA

**pH Strip ID :** NA

**Hood ID :** #1

**Block ID:** 1. HG HOT BLOCK#3 2. N/A

**Start Digest Date:** 06/02/2025 **Time :** 08:35 **Temp :** 94 °C

**End Digest Date:** 06/02/2025 **Time :** 09:05 **Temp :** 94 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** HG-DIG#3

**Dig Technician Signature:** MB

**Supervisor Signature:** IR

**Temp :** 1. 94°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| ICV | 30mL | MP85820 |
| CCV | 30mL | MP85822 |
| CRA | 30mL | MP85824 |
| Blank Spike | 0.48mL | MP85813 |
| Matrix Spike | 0.48mL | MP85813 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| AQUA REGIA | 1.5mL | MP85826 |
| KMnO4 (5%) | 4.5mL | MP85241 |
| Hydroxylamine HCL (12%) | 2.0mL | MP85243 |
| PTFE Boiling Stones | ---------- | 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 | MP85814 |
| 0.05 ppb | S0.05 | N/A | N/A |
| 0.2 ppb | S0.2 | 30mL | MP85815 |
| 2.5 ppb | S2.5 | 30mL | MP85816 |
| 5.0 ppb | S5.0 | 30mL | MP85817 |
| 7.5 ppb | S7.5 | 30mL | MP85818 |
| 10.0 ppb | S10.0 | 30mL | MP85819 |
| ICV | ICV | 30mL | MP85820 |
| ICB | ICB | 30mL | MP85821 |
| CCV | CCV | 30mL | MP85822 |
| CCB | CCB | 30mL | MP85823 |
| CRI | CRI | 30mL | MP85824 |
| CHK STD | CHK STD | 30mL | MP85825 |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 6/2/25 9:30 | MB - HG - Lab | MB - General Lab |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

## Soil/Sludge Mercury Preparation Sheet

## PB168249

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Comment | Prep Pos |
|---|---|---|---|---|---|---|
| PB168249BL | PBS249 | 0.55 | 35 | NA | N/A | N/A |
| PB168249BS | LCS249 | 0.52 | 35 | NA | MP85813 | N/A |
| Q2175-02 | 52725 | 0.58 | 35 | NA | N/A | N/A |
| Q2176-01 | TP-46 | 0.59 | 35 | NA | N/A | N/A |
| Q2176-02 | TP-56 | 0.52 | 35 | NA | N/A | N/A |
| Q2176-03 | TP-25 | 0.54 | 35 | NA | N/A | N/A |
| Q2176-04 | TP-26 | 0.54 | 35 | NA | N/A | N/A |
| Q2176-05 | TP-28 | 0.55 | 35 | NA | N/A | N/A |
| Q2176-06 | TP-27 | 0.54 | 35 | NA | N/A | N/A |
| Q2176-07 | TP-31 | 0.52 | 35 | NA | N/A | N/A |
| Q2176-08 | TP-65 | 0.56 | 35 | NA | N/A | N/A |
| Q2176-08DUP | TP-65DUP | 0.58 | 35 | NA | N/A | N/A |
| Q2176-08MS | TP-65MS | 0.54 | 35 | NA | MP85813 | N/A |
| Q2176-08MSD | TP-65MSD | 0.56 | 35 | NA | MP85813 | N/A |
| Q2177-02 | B-187-SB01 | 0.58 | 35 | NA | N/A | N/A |
| Q2177-04 | B-187-SB02 | 0.60 | 35 | NA | N/A | N/A |
| Q2177-06 | B-202-SB01 | 0.54 | 35 | NA | N/A | N/A |
| Q2185-01 | TP02-MHB-WC | 0.52 | 35 | NA | N/A | N/A |
| Q2185-05 | TP01-MHB-WC | 0.50 | 35 | NA | N/A | N/A |

Alliance TECHNICAL GROUP

# Water Metals Preparation Sheet

PB168255

**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:** 06/03/2025 **Time :** 10:05 **Temp :** 96 °C

**End Digest Date:** 06/03/2025 **Time :** 13:10 **Temp :** 96 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** MET-DIG. #1

**Dig Technician Signature:** SPS

**Supervisor Signature:**

**Temp :** 1. 96°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LFS-1 | 0.25 | M6007 |
| LFS-2 | 0.25 | M6016 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Conc. HNO3 | 3.00 | M6158 |
| 1:1 HCL | 5.00 | MP85156 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

HOT BLOCK#1CELL#50 96 C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 06/03/25 14:10 | SPS. met dig | |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**Water Metals Preparation Sheet**

**PB168255**

| Lab Sample ID | Client Sample ID | pH | Initial Vol (ml) | Final Vol (ml) | Color Before | Color After | Clarity Before | Clarity After | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| PB168255BL | PBW255 | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 24 |
| PB168255BS | LCS255 | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | M6007,M6016 | 25 |
| Q2169-01 | 303-PPR-1 | <2 | 5 | 50 | Brown | ligh Btrown | Cloudy | Clear | N/A | 26 |
| Q2169-03 | 303-PPR-2 | <2 | 50 | 25 | light Brown | light Brown | Cloudy | Clear | N/A | 27 |
| Q2169-03MS | 303-PPR-2MS | <2 | 50 | 25 | light Brown | ligh Btrown | Cloudy | Clear | M6007,M6016 | 29 |
| Q2169-03MSD | 303-PPR-2MSD | <2 | 50 | 25 | light Brown | ligh Btrown | Cloudy | Clear | M6007,M6016 | 30 |
| Q2169-03DUP | 303-PPR-2DUP | <2 | 50 | 25 | light Brown | ligh Btrown | Cloudy | Clear | N/A | 28 |
| Q2175-06 | EGR-LIQUID | <2 | 2 | 25 | Green | Colorless | Cloudy | Clear | N/A | 31 |
| Q2177-08 | EB05312025 | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 32 |

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Fax : 908 789 8922

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2177 **Order ID:** Q2177

**Client:** Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID :** | **B-187-SB01** | | | | | | | |
| Q2177-03 | B-187-SB01 | TCLP | Barium | 985 | | 72.8 | 500 | ug/L |
| Q2177-03 | B-187-SB01 | TCLP | Chromium | 17.7 | J | 10.6 | 50.0 | ug/L |
| Q2177-03 | B-187-SB01 | TCLP | Lead | 581 | | 11.5 | 60.0 | ug/L |
| **Client ID :** | **B-187-SB02** | | | | | | | |
| Q2177-05 | B-187-SB02 | TCLP | Barium | 1000 | | 72.8 | 500 | ug/L |
| Q2177-05 | B-187-SB02 | TCLP | Lead | 29.5 | J | 11.5 | 60.0 | ug/L |
| **Client ID :** | **B-202-SB01** | | | | | | | |
| Q2177-07 | B-202-SB01 | TCLP | Barium | 804 | | 72.8 | 500 | ug/L |
| Q2177-07 | B-202-SB01 | TCLP | Lead | 201 | | 11.5 | 60.0 | ug/L |

# SAMPLE DATA

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-03 | Matrix: | TCLP |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 25.6 | U | 1 | 25.6 | 100 | ug/L | 06/03/25 12:30 | 06/04/25 18:23 | 6010D | SW3050 |
| 7440-39-3 | Barium | 985 | N* | 1 | 72.8 | 500 | ug/L | 06/03/25 12:30 | 06/04/25 18:23 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 2.50 | U | 1 | 2.50 | 30.0 | ug/L | 06/03/25 12:30 | 06/04/25 18:23 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 17.7 | J | 1 | 10.6 | 50.0 | ug/L | 06/03/25 12:30 | 06/04/25 18:23 | 6010D | SW3050 |
| 7439-92-1 | Lead | 581 | | 1 | 11.5 | 60.0 | ug/L | 06/03/25 12:30 | 06/04/25 18:23 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.76 | U | 1 | 0.76 | 2.00 | ug/L | 06/03/25 13:30 | 06/04/25 11:18 | 7470A | |
| 7782-49-2 | Selenium | 48.2 | U | 1 | 48.2 | 100 | ug/L | 06/03/25 12:30 | 06/04/25 18:23 | 6010D | SW3050 |
| 7440-22-4 | Silver | 8.10 | U | 1 | 8.10 | 50.0 | ug/L | 06/03/25 12:30 | 06/04/25 18:23 | 6010D | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | TCLP-FULL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-05 | 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 | 06/03/25 12:30 | 06/04/25 18:47 | 6010D | SW3050 |
| 7440-39-3 | Barium | 1000 | N* | 1 | 72.8 | 500 | ug/L | 06/03/25 12:30 | 06/04/25 18:47 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 2.50 | U | 1 | 2.50 | 30.0 | ug/L | 06/03/25 12:30 | 06/04/25 18:47 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 10.6 | U | 1 | 10.6 | 50.0 | ug/L | 06/03/25 12:30 | 06/04/25 18:47 | 6010D | SW3050 |
| 7439-92-1 | Lead | 29.5 | J | 1 | 11.5 | 60.0 | ug/L | 06/03/25 12:30 | 06/04/25 18:47 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.76 | U | 1 | 0.76 | 2.00 | ug/L | 06/03/25 13:30 | 06/04/25 11:20 | 7470A | |
| 7782-49-2 | Selenium | 48.2 | U | 1 | 48.2 | 100 | ug/L | 06/03/25 12:30 | 06/04/25 18:47 | 6010D | SW3050 |
| 7440-22-4 | Silver | 8.10 | U | 1 | 8.10 | 50.0 | ug/L | 06/03/25 12:30 | 06/04/25 18:47 | 6010D | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | TCLP-FULL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-07 | 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 | 06/03/25 12:30 | 06/04/25 18:51 | 6010D | SW3050 |
| 7440-39-3 | Barium | 804 | N* | 1 | 72.8 | 500 | ug/L | 06/03/25 12:30 | 06/04/25 18:51 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 2.50 | U | 1 | 2.50 | 30.0 | ug/L | 06/03/25 12:30 | 06/04/25 18:51 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 10.6 | U | 1 | 10.6 | 50.0 | ug/L | 06/03/25 12:30 | 06/04/25 18:51 | 6010D | SW3050 |
| 7439-92-1 | Lead | 201 | | 1 | 11.5 | 60.0 | ug/L | 06/03/25 12:30 | 06/04/25 18:51 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.76 | U | 1 | 0.76 | 2.00 | ug/L | 06/03/25 13:30 | 06/04/25 11:22 | 7470A | |
| 7782-49-2 | Selenium | 48.2 | U | 1 | 48.2 | 100 | ug/L | 06/03/25 12:30 | 06/04/25 18:51 | 6010D | SW3050 |
| 7440-22-4 | Silver | 8.10 | U | 1 | 8.10 | 50.0 | ug/L | 06/03/25 12:30 | 06/04/25 18:51 | 6010D | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | TCLP-FULL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICB26** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/04/2025 | 10:30 | LB135995 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB95** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/04/2025 | 10:34 | LB135995 |
| **CCB96** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/04/2025 | 11:04 | LB135995 |
| **CCB97** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/04/2025 | 11:31 | LB135995 |
| **CCB98** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 06/04/2025 | 11:55 | LB135995 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| 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 | 06/04/2025 | 16:10 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 16:10 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 16:10 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 16:10 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 16:10 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 16:10 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 16:10 | LB136011 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| 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 | 06/04/2025 | 16:52 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 16:52 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 16:52 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 16:52 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 16:52 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 16:52 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 16:52 | LB136011 |
| **CCB02** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/04/2025 | 17:39 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 17:39 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 17:39 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 17:39 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 17:39 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 17:39 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 17:39 | LB136011 |
| **CCB03** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/04/2025 | 18:42 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 18:42 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 18:42 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 18:42 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 18:42 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 18:42 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 18:42 | LB136011 |
| **CCB04** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/04/2025 | 19:30 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 19:30 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 19:30 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 19:30 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 19:30 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 19:30 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 19:30 | LB136011 |
| **CCB05** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/04/2025 | 20:16 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 20:16 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 20:16 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 20:16 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 20:16 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 20:16 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 20:16 | LB136011 |
| **CCB06** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/04/2025 | 21:02 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 21:02 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 21:02 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 21:02 | LB136011 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| 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 | 06/04/2025 | 21:02 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 21:02 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 21:02 | LB136011 |
| **CCB07** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/04/2025 | 21:45 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 21:45 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 21:45 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 21:45 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 21:45 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 21:45 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 21:45 | LB136011 |
| **CCB08** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 06/04/2025 | 22:10 | LB136011 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 06/04/2025 | 22:10 | LB136011 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 06/04/2025 | 22:10 | LB136011 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 06/04/2025 | 22:10 | LB136011 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 06/04/2025 | 22:10 | LB136011 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 06/04/2025 | 22:10 | LB136011 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 06/04/2025 | 22:10 | LB136011 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Instrument:** CV1

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB168224TB** | | **WATER** | | **Batch Number:** | **PB168262** | | **Prep Date:** | **06/03/2025** | |
| | Mercury | 0.76 | <2 | U | 2.00 | CV | 06/04/2025 | 11:43 | LB135995 |

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB168262BL** | | **WATER** | | **Batch Number:** | **PB168262** | | **Prep Date:** | **06/03/2025** | |
| | Mercury | 0.076 | <0.2 | U | 0.20 | CV | 06/04/2025 | 10:43 | LB135995 |

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Fax : 908 789 8922

# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Instrument:** P4

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB168224TB** | | **WATER** | | **Batch Number:** | **PB168256** | | **Prep Date:** | **06/03/2025** | |
| | Arsenic | 25.6 | <50 | U | 100 | P | 06/04/2025 | 18:05 | LB136011 |
| | Barium | 72.8 | <250 | U | 500 | P | 06/04/2025 | 18:05 | LB136011 |
| | Cadmium | 2.50 | <15 | U | 30.0 | P | 06/04/2025 | 18:05 | LB136011 |
| | Chromium | 10.6 | <25 | U | 50.0 | P | 06/04/2025 | 18:05 | LB136011 |
| | Lead | 11.5 | <30 | U | 60.0 | P | 06/04/2025 | 18:05 | LB136011 |
| | Selenium | 48.2 | <50 | U | 100 | P | 06/04/2025 | 18:05 | LB136011 |
| | Silver | 8.10 | <25 | U | 50.0 | P | 06/04/2025 | 18:05 | LB136011 |

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB168256BL** | | **WATER** | | **Batch Number:** | **PB168256** | | **Prep Date:** | **06/03/2025** | |
| | Arsenic | 25.6 | <50 | U | 100 | P | 06/04/2025 | 19:34 | LB136011 |
| | Barium | 72.8 | <250 | U | 500 | P | 06/04/2025 | 19:34 | LB136011 |
| | Cadmium | 2.50 | <15 | U | 30.0 | P | 06/04/2025 | 19:34 | LB136011 |
| | Chromium | 10.6 | <25 | U | 50.0 | P | 06/04/2025 | 19:34 | LB136011 |
| | Lead | 11.5 | <30 | U | 60.0 | P | 06/04/2025 | 19:34 | LB136011 |
| | Selenium | 48.2 | <50 | U | 100 | P | 06/04/2025 | 19:34 | LB136011 |
| | Silver | 8.10 | <25 | U | 50.0 | P | 06/04/2025 | 19:34 | LB136011 |

# METAL CALIBRATION DATA

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

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 |
|---|---|---|---|---|---|---|---|---|---|
| ICV26 | Mercury | 3.93 | 4.0 | 98 | 90 - 110 | CV | 06/04/2025 | 10:25 | LB135995 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 |
|---|---|---|---|---|---|---|---|---|---|
| CCV95 | Mercury | 4.86 | 5.0 | 97 | 90 - 110 | CV | 06/04/2025 | 10:32 | LB135995 |
| CCV96 | Mercury | 4.82 | 5.0 | 96 | 90 - 110 | CV | 06/04/2025 | 11:02 | LB135995 |
| CCV97 | Mercury | 4.75 | 5.0 | 95 | 90 - 110 | CV | 06/04/2025 | 11:29 | LB135995 |
| CCV98 | Mercury | 4.66 | 5.0 | 93 | 90 - 110 | CV | 06/04/2025 | 11:53 | LB135995 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 | 1000 | 1000 | 100 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Barium | 552 | 520 | 106 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Cadmium | 500 | 510 | 98 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Chromium | 518 | 520 | 100 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Lead | 976 | 1000 | 98 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Selenium | 1000 | 1000 | 100 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |
| | Silver | 234 | 250 | 94 | 90 - 110 | P | 06/04/2025 | 15:49 | LB136011 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV01 | Arsenic | 18.1 | 20.0 | 90 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Barium | 88.2 | 100 | 88 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Cadmium | 5.84 | 6.0 | 97 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Chromium | 10.2 | 10.0 | 102 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Lead | 11.3 | 12.0 | 94 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Selenium | 23.1 | 20.0 | 115 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |
| | Silver | 9.80 | 10.0 | 98 | 80 - 120 | P | 06/04/2025 | 16:06 | LB136011 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 | 5030 | 5000 | 101 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Barium | 9780 | 10000 | 98 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Cadmium | 2510 | 2500 | 100 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Chromium | 993 | 1000 | 99 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Lead | 5010 | 5000 | 100 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Selenium | 5070 | 5000 | 101 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| | Silver | 1230 | 1250 | 99 | 90 - 110 | P | 06/04/2025 | 16:45 | LB136011 |
| CCV02 | Arsenic | 4960 | 5000 | 99 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Barium | 9200 | 10000 | 92 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Cadmium | 2460 | 2500 | 98 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Chromium | 985 | 1000 | 98 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Lead | 4910 | 5000 | 98 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Selenium | 5060 | 5000 | 101 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| | Silver | 1230 | 1250 | 98 | 90 - 110 | P | 06/04/2025 | 17:35 | LB136011 |
| CCV03 | Arsenic | 4790 | 5000 | 96 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Barium | 9130 | 10000 | 91 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Cadmium | 2390 | 2500 | 95 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Chromium | 953 | 1000 | 95 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Lead | 4750 | 5000 | 95 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Selenium | 4850 | 5000 | 97 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| | Silver | 1190 | 1250 | 96 | 90 - 110 | P | 06/04/2025 | 18:37 | LB136011 |
| CCV04 | Arsenic | 4700 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Barium | 9070 | 10000 | 91 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Cadmium | 2360 | 2500 | 94 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Chromium | 944 | 1000 | 94 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Lead | 4700 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Selenium | 4750 | 5000 | 95 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| | Silver | 1170 | 1250 | 94 | 90 - 110 | P | 06/04/2025 | 19:26 | LB136011 |
| CCV05 | Arsenic | 4700 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Barium | 9550 | 10000 | 96 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Cadmium | 2350 | 2500 | 94 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Chromium | 942 | 1000 | 94 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Lead | 4720 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| | Selenium | 4730 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV05 | Silver | 1190 | 1250 | 95 | 90 - 110 | P | 06/04/2025 | 20:12 | LB136011 |
| CCV06 | Arsenic | 4620 | 5000 | 92 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Barium | 9410 | 10000 | 94 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Cadmium | 2320 | 2500 | 93 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Chromium | 930 | 1000 | 93 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Lead | 4650 | 5000 | 93 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Selenium | 4630 | 5000 | 92 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| | Silver | 1160 | 1250 | 93 | 90 - 110 | P | 06/04/2025 | 20:58 | LB136011 |
| CCV07 | Arsenic | 4710 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Barium | 9600 | 10000 | 96 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Cadmium | 2370 | 2500 | 95 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Chromium | 945 | 1000 | 94 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Lead | 4730 | 5000 | 95 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Selenium | 4690 | 5000 | 94 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| | Silver | 1190 | 1250 | 95 | 90 - 110 | P | 06/04/2025 | 21:41 | LB136011 |
| CCV08 | Arsenic | 4620 | 5000 | 92 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Barium | 9210 | 10000 | 92 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Cadmium | 2330 | 2500 | 93 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Chromium | 937 | 1000 | 94 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Lead | 4670 | 5000 | 93 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Selenium | 4580 | 5000 | 92 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |
| | Silver | 1170 | 1250 | 94 | 90 - 110 | P | 06/04/2025 | 22:06 | LB136011 |

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# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CRA | Mercury | 0.22 | 0.2 | 111 | 70 - 130 | CV | 06/04/2025 | 10:36 | LB135995 |
| CRI01 | Arsenic | 18.7 | 20.0 | 93 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Barium | 86.6 | 100 | 87 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Cadmium | 5.99 | 6.0 | 100 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Chromium | 10.8 | 10.0 | 108 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Lead | 11.2 | 12.0 | 93 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Selenium | 20.9 | 20.0 | 105 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |
| | Silver | 10.0 | 10.0 | 100 | 65 - 135 | P | 06/04/2025 | 16:15 | LB136011 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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 | 1.52 | | | -20 | 20 | 06/04/2025 | 16:26 | LB136011 |
| | Barium | 0.52 | 6.0 | 9 | -94 | 106 | 06/04/2025 | 16:26 | LB136011 |
| | Cadmium | 0.92 | 1.0 | 92 | -5 | 7 | 06/04/2025 | 16:26 | LB136011 |
| | Chromium | 46.0 | 52.0 | 88 | 42 | 62 | 06/04/2025 | 16:26 | LB136011 |
| | Lead | -0.74 | | | -12 | 12 | 06/04/2025 | 16:26 | LB136011 |
| | Selenium | 1.80 | | | -20 | 20 | 06/04/2025 | 16:26 | LB136011 |
| | Silver | 4.01 | | | -10 | 10 | 06/04/2025 | 16:26 | LB136011 |
| **ICSAB01** | Arsenic | 106 | 104 | 102 | 88.4 | 120 | 06/04/2025 | 16:32 | LB136011 |
| | Barium | 469 | 537 | 87 | 437 | 637 | 06/04/2025 | 16:32 | LB136011 |
| | Cadmium | 1000 | 972 | 103 | 826 | 1120 | 06/04/2025 | 16:32 | LB136011 |
| | Chromium | 556 | 542 | 103 | 460 | 624 | 06/04/2025 | 16:32 | LB136011 |
| | Lead | 47.6 | 49.0 | 97 | 37 | 61 | 06/04/2025 | 16:32 | LB136011 |
| | Selenium | 56.4 | 46.0 | 123 | 26 | 66 | 06/04/2025 | 16:32 | LB136011 |
| | Silver | 219 | 201 | 109 | 170 | 232 | 06/04/2025 | 16:32 | LB136011 |

# METAL QC DATA

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** Portal Partners Tri-Venture **level:** low **sdg no.:** Q2177

**contract:** PORT06 **lab code:** CHEM **case no.:** Q2177 **sas no.:** Q2177

**matrix:** Water **sample id:** Q2185-08 **client id:** TP01-MHA-WCMS

**Percent Solids for Sample:** NA **Spiked ID:** Q2185-08MS **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 75 - 125 | 3810 | | 100 | U | 4000 | 95 | | P |
| Barium | ug/L | 75 - 125 | 3220 | | 2770 | | 1000 | 45 | N | P |
| Cadmium | ug/L | 75 - 125 | 955 | | 30.0 | U | 1000 | 96 | | P |
| Chromium | ug/L | 75 - 125 | 1930 | | 50.0 | U | 2000 | 96 | | P |
| Lead | ug/L | 75 - 125 | 4550 | | 25.1 | J | 5000 | 90 | | P |
| Mercury | ug/L | 75 - 125 | 41.3 | | 2.00 | U | 40.0 | 103 | | CV |
| Selenium | ug/L | 75 - 125 | 9550 | | 100 | U | 10000 | 96 | | P |
| Silver | ug/L | 75 - 125 | 349 | | 50.0 | U | 380 | 92 | | P |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** Portal Partners Tri-Venture **level:** low **sdg no.:** Q2177

**contract:** PORT06 **lab code:** CHEM **case no.:** Q2177 **sas no.:** Q2177

**matrix:** Water **sample id:** Q2185-08 **client id:** TP01-MHA-WCMSD

**Percent Solids for Sample:** NA **Spiked ID:** Q2185-08MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 75 - 125 | 3530 | | 100 | U | 4000 | 88 | | P |
| Barium | ug/L | 75 - 125 | 3000 | | 2770 | | 1000 | 24 | N | P |
| Cadmium | ug/L | 75 - 125 | 887 | | 30.0 | U | 1000 | 89 | | P |
| Chromium | ug/L | 75 - 125 | 1800 | | 50.0 | U | 2000 | 90 | | P |
| Lead | ug/L | 75 - 125 | 4250 | | 25.1 | J | 5000 | 85 | | P |
| Mercury | ug/L | 75 - 125 | 40.0 | | 2.00 | U | 40.0 | 100 | | CV |
| Selenium | ug/L | 75 - 125 | 8820 | | 100 | U | 10000 | 88 | | P |
| Silver | ug/L | 75 - 125 | 323 | | 50.0 | U | 380 | 85 | | P |

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# Metals
## - 5b -
## POST DIGEST SPIKE SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Matrix:** Water **Level:** LOW **Client ID:** TP01-MHB-WCA

**Sample ID:** Q2185-08 **Spiked ID:** Q2185-08A

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Barium | ug/L | 75 - 125 | 3090 | | 2770 | | 1000 | 32 | N | P |

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# Metals

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## DUPLICATE SAMPLE SUMMARY

**Client:** Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Matrix:** Water **Sample ID:** Q2185-08 **Client ID:** TP01-MHB-WCDUP

**Percent Solids for Sample:** NA **Duplicate ID** Q2185-08DUP **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 20 | 100 | U | 100 | U | | | P |
| Barium | ug/L | 20 | 2770 | | 1890 | | 38 | * | P |
| Cadmium | ug/L | 20 | 30.0 | U | 30.0 | U | | | P |
| Chromium | ug/L | 20 | 50.0 | U | 50.0 | U | | | P |
| Lead | ug/L | 20 | 25.1 | J | 60.0 | U | 200.0 | | P |
| Mercury | ug/L | 20 | 2.00 | U | 2.00 | U | | | CV |
| Selenium | ug/L | 20 | 100 | U | 100 | U | | | P |
| Silver | ug/L | 20 | 50.0 | U | 50.0 | U | | | P |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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# Metals

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## DUPLICATE SAMPLE SUMMARY

**Client:** Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Matrix:** Water **Sample ID:** Q2185-08MS **Client ID:** TP01-MHA-WCMSD

**Percent Solids for Sample:** NA **Duplicate ID** Q2185-08MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 20 | 3810 | | 3530 | | 8 | | P |
| Barium | ug/L | 20 | 3220 | | 3000 | | 7 | | P |
| Cadmium | ug/L | 20 | 955 | | 887 | | 7 | | P |
| Chromium | ug/L | 20 | 1930 | | 1800 | | 7 | | P |
| Lead | ug/L | 20 | 4550 | | 4250 | | 7 | | P |
| Mercury | ug/L | 20 | 41.3 | | 40.0 | | 3 | | CV |
| Selenium | ug/L | 20 | 9550 | | 8820 | | 8 | | P |
| Silver | ug/L | 20 | 349 | | 323 | | 8 | | P |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB168256BS | | | | | | | |
| Arsenic | ug/L | 4000 | 3770 | | 94 | 80 - 120 | P |
| Barium | ug/L | 1000 | 882 | | 88 | 80 - 120 | P |
| Cadmium | ug/L | 1000 | 949 | | 95 | 80 - 120 | P |
| Chromium | ug/L | 2000 | 1910 | | 96 | 80 - 120 | P |
| Lead | ug/L | 5000 | 4640 | | 93 | 80 - 120 | P |
| Selenium | ug/L | 10000 | 9700 | | 97 | 80 - 120 | P |
| Silver | ug/L | 380 | 342 | | 90 | 80 - 120 | P |

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB168262BS | | | | | | | |
| Mercury | ug/L | 4.0 | 3.58 | | 90 | 80 - 120 | CV |

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# Metals

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## ICP SERIAL DILUTIONS

SAMPLE NO.

TP01-MHB-WCL

**Lab Name:** Chemtech Consulting Group **Contract:** PORT06

**Lab Code:** CHEM **Lb No.:** lb136011 **Lab Sample ID :** Q2185-08L **SDG No.:** Q2177

**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 | 2770 | | 2750 | | 0 | | P |
| Cadmium | 30.0 | U | 150 | U | | | P |
| Chromium | 50.0 | U | 250 | U | | | P |
| Lead | 25.1 | J | 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:** Portal Partners Tri-Venture **Contract:** PORT06

**Lab code:** CHEM **Case no.:** Q2177 **Sas no.:** Q2177 **Sdg no.:** Q2177

**Instrument id number:** **Method:** **Run number:** LB135995

**Start date:** 06/04/2025 **End date:** 06/04/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1002 | HG |
| S0.2 | S0.2 | 1 | 1004 | HG |
| S2.5 | S2.5 | 1 | 1006 | HG |
| S5 | S5 | 1 | 1008 | HG |
| S7.5 | S7.5 | 1 | 1011 | HG |
| S10 | S10 | 1 | 1013 | HG |
| ICV26 | ICV26 | 1 | 1025 | HG |
| ICB26 | ICB26 | 1 | 1030 | HG |
| CCV95 | CCV95 | 1 | 1032 | HG |
| CCB95 | CCB95 | 1 | 1034 | HG |
| CRA | CRA | 1 | 1036 | HG |
| PB168262BL | PB168262BL | 1 | 1043 | HG |
| PB168262BS | PB168262BS | 1 | 1048 | HG |
| CCV96 | CCV96 | 1 | 1102 | HG |
| CCB96 | CCB96 | 1 | 1104 | HG |
| Q2177-03 | B-187-SB01 | 1 | 1118 | HG |
| Q2177-05 | B-187-SB02 | 1 | 1120 | HG |
| Q2177-07 | B-202-SB01 | 1 | 1122 | HG |
| CCV97 | CCV97 | 1 | 1129 | HG |
| CCB97 | CCB97 | 1 | 1131 | HG |
| Q2185-08DUP | TP01-MHB-WCDUP | 1 | 1134 | HG |
| Q2185-08MS | TP01-MHA-WCMS | 1 | 1138 | HG |
| Q2185-08MSD | TP01-MHA-WCMSD | 1 | 1141 | HG |
| PB168224TB | PB168224TB | 1 | 1143 | HG |
| Q2185-08L | TP01-MHB-WCL | 5 | 1145 | HG |
| CCV98 | CCV98 | 1 | 1153 | HG |
| CCB98 | CCB98 | 1 | 1155 | HG |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** Portal Partners Tri-Venture **Contract:** PORT06

**Lab code:** CHEM **Case no.:** Q2177 **Sas no.:** Q2177 **Sdg no.:** Q2177

**Instrument id number:** **Method:** **Run number:** LB136011

**Start date:** 06/04/2025 **End date:** 06/04/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1418 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S1 | S1 | 1 | 1423 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S2 | S2 | 1 | 1427 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S3 | S3 | 1 | 1431 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S4 | S4 | 1 | 1435 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S5 | S5 | 1 | 1439 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICV01 | ICV01 | 1 | 1549 | Ag,As,Ba,Cd,Cr,Pb,Se |
| LLICV01 | LLICV01 | 1 | 1606 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICB01 | ICB01 | 1 | 1610 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CRI01 | CRI01 | 1 | 1615 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICSA01 | ICSA01 | 1 | 1626 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICSAB01 | ICSAB01 | 1 | 1632 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV01 | CCV01 | 1 | 1645 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB01 | CCB01 | 1 | 1652 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV02 | CCV02 | 1 | 1735 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB02 | CCB02 | 1 | 1739 | Ag,As,Ba,Cd,Cr,Pb,Se |
| PB168224TB | PB168224TB | 1 | 1805 | Ag,As,Ba,Cd,Cr,Pb,Se |
| Q2177-03 | B-187-SB01 | 1 | 1823 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV03 | CCV03 | 1 | 1837 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB03 | CCB03 | 1 | 1842 | Ag,As,Ba,Cd,Cr,Pb,Se |
| Q2177-05 | B-187-SB02 | 1 | 1847 | Ag,As,Ba,Cd,Cr,Pb,Se |
| Q2177-07 | B-202-SB01 | 1 | 1851 | Ag,As,Ba,Cd,Cr,Pb,Se |
| Q2185-08DUP | TP01-MHB-WCDUP | 1 | 1904 | Ag,As,Ba,Cd,Cr,Pb,Se |
| Q2185-08L | TP01-MHB-WCL | 5 | 1909 | Ag,As,Ba,Cd,Cr,Pb,Se |
| Q2185-08MS | TP01-MHA-WCMS | 1 | 1913 | Ag,As,Ba,Cd,Cr,Pb,Se |
| Q2185-08MSD | TP01-MHA-WCMSD | 1 | 1917 | Ag,As,Ba,Cd,Cr,Pb,Se |
| Q2185-08A | TP01-MHB-WCA | 1 | 1922 | Ba |
| CCV04 | CCV04 | 1 | 1926 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB04 | CCB04 | 1 | 1930 | Ag,As,Ba,Cd,Cr,Pb,Se |
| PB168256BL | PB168256BL | 1 | 1934 | Ag,As,Ba,Cd,Cr,Pb,Se |
| PB168256BS | PB168256BS | 1 | 1939 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV05 | CCV05 | 1 | 2012 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB05 | CCB05 | 1 | 2016 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV06 | CCV06 | 1 | 2058 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB06 | CCB06 | 1 | 2102 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV07 | CCV07 | 1 | 2141 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB07 | CCB07 | 1 | 2145 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV08 | CCV08 | 1 | 2206 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB08 | CCB08 | 1 | 2210 | Ag,As,Ba,Cd,Cr,Pb,Se |

# METAL PREPARATION & INSTRUMENT DATA

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

# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Al | Ca | Fe | Mg | Ag |
|---|---|---|---|---|---|---|
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | -0.0000440 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000930 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | -0.0000920 | 0.0000000 | 0.0000380 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | -0.0001440 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | -0.0001490 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: As | Ba | Be | Cd | Co |
|---|---|---|---|---|---|---|
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0002870 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0003170 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0003570 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Cr | Cu | K | Mn | Mo |
|---|---|---|---|---|---|---|
| Arsenic | 193.759 | -0.0029000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0004900 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000070 | 0.0002200 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001400 | -0.0008600 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0007460 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0000120 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Na | Ni | Pb | Sb | Se |
|---|---|---|---|---|---|---|
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0006580 | 0.0000000 | 0.0000000 | 0.0001290 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0003330 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Case No.:** Q2177 **SAS No.:** Q2177

**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:** | Q2177 | **OrderDate:** | 6/2/2025 11:19:00 AM |
| **Client:** | Portal Partners Tri-Venture | **Project:** | Amtrak Sawtooth Bridges 2025 |
| **Contact:** | Joseph Krupansky | **Location:** | L41,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2177-02** | **B-187-SB01** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | Mercury | 7471B | | 06/02/25 | 06/03/25 | |
| | | | Metals ICP-TAL | 6010D | | 06/02/25 | 06/10/25 | |
| **Q2177-03** | **B-187-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP ICP Metals | 6010D | | 06/03/25 | 06/04/25 | |
| | | | TCLP Mercury | 7470A | | 06/03/25 | 06/04/25 | |
| **Q2177-04** | **B-187-SB02** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | Mercury | 7471B | | 06/02/25 | 06/03/25 | |
| | | | Metals ICP-TAL | 6010D | | 06/02/25 | 06/10/25 | |
| **Q2177-05** | **B-187-SB02** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP ICP Metals | 6010D | | 06/03/25 | 06/04/25 | |
| | | | TCLP Mercury | 7470A | | 06/03/25 | 06/04/25 | |
| **Q2177-06** | **B-202-SB01** | **SOIL** | | | **05/31/25** | | | **06/02/25** |
| | | | Mercury | 7471B | | 06/02/25 | 06/03/25 | |
| | | | Metals ICP-TAL | 6010D | | 06/02/25 | 06/10/25 | |
| **Q2177-07** | **B-202-SB01** | **TCLP** | | | **05/31/25** | | | **06/02/25** |
| | | | TCLP ICP Metals | 6010D | | 06/03/25 | 06/04/25 | |
| | | | TCLP Mercury | 7470A | | 06/03/25 | 06/04/25 | |
| **Q2177-08** | **EB05312025** | **Water** | | | **05/31/25** | | | **06/02/25** |
| | | | Mercury | 7470A | | 06/02/25 | 06/03/25 | |
| | | | Metals ICP-TAL | 6010D | | 06/03/25 | 06/04/25 | |

# METAL PREPARATION & ANALYICAL SUMMARY

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Fax : 908 789 8922

# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Method:**

**Case No.:** Q2177 **SAS No.:** Q2177

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB168256** | | | | | | |
| PB168224TB | PB168224TB | MB | WATER | 06/03/2025 | 5.0 | 25.0 | |
| PB168256BL | PB168256BL | MB | WATER | 06/03/2025 | 5.0 | 25.0 | |
| PB168256BS | PB168256BS | LCS | WATER | 06/03/2025 | 5.0 | 25.0 | |
| Q2177-03 | B-187-SB01 | SAM | WATER | 06/03/2025 | 5.0 | 25.0 | |
| Q2177-05 | B-187-SB02 | SAM | WATER | 06/03/2025 | 5.0 | 25.0 | |
| Q2177-07 | B-202-SB01 | SAM | WATER | 06/03/2025 | 5.0 | 25.0 | |
| Q2185-08DUP | TP01-MHB-WCDUP | DUP | WATER | 06/03/2025 | 5.0 | 25.0 | |
| Q2185-08MS | TP01-MHA-WCMS | MS | WATER | 06/03/2025 | 5.0 | 25.0 | |
| Q2185-08MSD | TP01-MHA-WCMSD | MSD | WATER | 06/03/2025 | 5.0 | 25.0 | |

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Contract:** PORT06 **Lab Code:** CHEM **Method:**

**Case No.:** Q2177 **SAS No.:** Q2177

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB168262** | | | | | | |
| PB168224TB | PB168224TB | MB | WATER | 06/03/2025 | 3.0 | 30.0 | |
| PB168262BL | PB168262BL | MB | WATER | 06/03/2025 | 30.0 | 30.0 | |
| PB168262BS | PB168262BS | LCS | WATER | 06/03/2025 | 30.0 | 30.0 | |
| Q2177-03 | B-187-SB01 | SAM | WATER | 06/03/2025 | 3.0 | 30.0 | |
| Q2177-05 | B-187-SB02 | SAM | WATER | 06/03/2025 | 3.0 | 30.0 | |
| Q2177-07 | B-202-SB01 | SAM | WATER | 06/03/2025 | 3.0 | 30.0 | |
| Q2185-08DUP | TP01-MHB-WCDUP | DUP | WATER | 06/03/2025 | 3.0 | 30.0 | |
| Q2185-08MS | TP01-MHA-WCMS | MS | WATER | 06/03/2025 | 3.0 | 30.0 | |
| Q2185-08MSD | TP01-MHA-WCMSD | MSD | WATER | 06/03/2025 | 3.0 | 30.0 | |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135995

| | | | |
|---|---|---|---|
| Review By | MOHAN | Review On | 6/4/2025 5:38:08 PM |
| Supervise By | jaswal | Supervise On | 6/4/2025 5:41:58 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85853,MP85854,MP85855,MP85856,MP85857,MP85858 |
| ICV Standard | MP85859 |
| CCV Standard | MP85861 |
| ICSA Standard | |
| CRI Standard | MP85863 |
| LCS Standard | |
| Chk Standard | MP85860,MP85862,MP85864,MP85866 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 06/04/25 10:02 | | MOHAN | OK |
| 2 | S0.2 | S0.2 | CAL2 | 06/04/25 10:04 | | MOHAN | OK |
| 3 | S2.5 | S2.5 | CAL3 | 06/04/25 10:06 | | MOHAN | OK |
| 4 | S5 | S5 | CAL4 | 06/04/25 10:08 | | MOHAN | OK |
| 5 | S7.5 | S7.5 | CAL5 | 06/04/25 10:11 | | MOHAN | OK |
| 6 | S10 | S10 | CAL6 | 06/04/25 10:13 | | MOHAN | OK |
| 7 | ICV26 | ICV26 | ICV | 06/04/25 10:25 | | MOHAN | OK |
| 8 | ICB26 | ICB26 | ICB | 06/04/25 10:30 | | MOHAN | OK |
| 9 | CCV95 | CCV95 | CCV | 06/04/25 10:32 | | MOHAN | OK |
| 10 | CCB95 | CCB95 | CCB | 06/04/25 10:34 | | MOHAN | OK |
| 11 | CRA | CRA | CRDL | 06/04/25 10:36 | | MOHAN | OK |
| 12 | HighStd | HighStd | HIGH STD | 06/04/25 10:39 | | MOHAN | OK |
| 13 | ChkStd | ChkStd | SAM | 06/04/25 10:41 | | MOHAN | OK |
| 14 | PB168262BL | PB168262BL | MB | 06/04/25 10:43 | | MOHAN | OK |
| 15 | PB168262BS | PB168262BS | LCS | 06/04/25 10:48 | | MOHAN | OK |
| 16 | Q2159-04 | TP05-MHO-WC | SAM | 06/04/25 10:50 | | MOHAN | OK |
| 17 | Q2160-04 | TP04-MHG-WC | SAM | 06/04/25 10:53 | | MOHAN | OK |
| 18 | Q2160-08 | TP05-MHH-WC | SAM | 06/04/25 10:55 | | MOHAN | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135995

| | | | |
|---|---|---|---|
| Review By | MOHAN | Review On | 6/4/2025 5:38:08 PM |
| Supervise By | jaswal | Supervise On | 6/4/2025 5:41:58 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85853,MP85854,MP85855,MP85856,MP85857,MP85858 |
| ICV Standard | MP85859 |
| CCV Standard | MP85861 |
| ICSA Standard | |
| CRI Standard | MP85863 |
| LCS Standard | |
| Chk Standard | MP85860,MP85862,MP85864,MP85866 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2168-02 | SAN-A1-A3 | SAM | 06/04/25 10:57 | | MOHAN | OK |
| 20 | Q2168-06 | SAN-B1-B3 | SAM | 06/04/25 10:59 | | MOHAN | OK |
| 21 | CCV96 | CCV96 | CCV | 06/04/25 11:02 | | MOHAN | OK |
| 22 | CCB96 | CCB96 | CCB | 06/04/25 11:04 | | MOHAN | OK |
| 23 | Q2168-10 | SAN-C1-C2 | SAM | 06/04/25 11:06 | | MOHAN | OK |
| 24 | Q2172-04 | TP06-MHQ | SAM | 06/04/25 11:09 | | MOHAN | OK |
| 25 | Q2173-06 | OR-400-CF-402B-CO | SAM | 06/04/25 11:11 | | MOHAN | OK |
| 26 | Q2173-12 | OR-400-CF-402B-CO | SAM | 06/04/25 11:13 | | MOHAN | OK |
| 27 | Q2173-18 | OR-400-CF-402B-CO | SAM | 06/04/25 11:15 | | MOHAN | OK |
| 28 | Q2177-03 | B-187-SB01 | SAM | 06/04/25 11:18 | | MOHAN | OK |
| 29 | Q2177-05 | B-187-SB02 | SAM | 06/04/25 11:20 | | MOHAN | OK |
| 30 | Q2177-07 | B-202-SB01 | SAM | 06/04/25 11:22 | | MOHAN | OK |
| 31 | Q2185-04 | TP02-MHB-WC | SAM | 06/04/25 11:24 | | MOHAN | OK |
| 32 | Q2185-08 | TP01-MHA-WC | SAM | 06/04/25 11:27 | | MOHAN | OK |
| 33 | CCV97 | CCV97 | CCV | 06/04/25 11:29 | | MOHAN | OK |
| 34 | CCB97 | CCB97 | CCB | 06/04/25 11:31 | | MOHAN | OK |
| 35 | Q2185-08DUP | TP01-MHA-WC | DUP | 06/04/25 11:34 | | MOHAN | OK |
| 36 | Q2185-08MS | TP01-MHA-WCMS | MS | 06/04/25 11:38 | | MOHAN | OK |
| 37 | Q2185-08MSD | TP01-MHA-WCMSD | MSD | 06/04/25 11:41 | | MOHAN | OK |
| 38 | PB168224TB | PB168224TB | MB | 06/04/25 11:43 | | MOHAN | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135995

| | | | |
|---|---|---|---|
| Review By | MOHAN | Review On | 6/4/2025 5:38:08 PM |
| Supervise By | jaswal | Supervise On | 6/4/2025 5:41:58 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85853,MP85854,MP85855,MP85856,MP85857,MP85858 |
| ICV Standard | MP85859 |
| CCV Standard | MP85861 |
| ICSA Standard | |
| CRI Standard | MP85863 |
| LCS Standard | |
| Chk Standard | MP85860,MP85862,MP85864,MP85866 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | Q2185-08L | TP01-MHA-WC | SD | 06/04/25 11:45 | | MOHAN | OK |
| 40 | Q2185-08A | TP01-MHA-WC | PS | 06/04/25 11:48 | | MOHAN | OK |
| 41 | CCV98 | CCV98 | CCV | 06/04/25 11:53 | | MOHAN | OK |
| 42 | CCB98 | CCB98 | CCB | 06/04/25 11:55 | | MOHAN | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136011

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/5/2025 3:57:54 PM |
| Supervise By | jaswal | Supervise On | 6/10/2025 4:55:25 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85872 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 06/04/25 14:18 | | Jaswal | OK |
| 2 | S1 | S1 | CAL2 | 06/04/25 14:23 | | Jaswal | OK |
| 3 | S2 | S2 | CAL3 | 06/04/25 14:27 | | Jaswal | OK |
| 4 | S3 | S3 | CAL4 | 06/04/25 14:31 | | Jaswal | OK |
| 5 | S4 | S4 | CAL5 | 06/04/25 14:35 | | Jaswal | OK |
| 6 | S5 | S5 | CAL6 | 06/04/25 14:39 | | Jaswal | OK |
| 7 | ICV01 | ICV01 | ICV | 06/04/25 15:49 | | Jaswal | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 06/04/25 16:06 | | Jaswal | OK |
| 9 | ICB01 | ICB01 | ICB | 06/04/25 16:10 | | Jaswal | OK |
| 10 | CRI01 | CRI01 | CRDL | 06/04/25 16:15 | | Jaswal | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 06/04/25 16:26 | | Jaswal | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 06/04/25 16:32 | | Jaswal | OK |
| 13 | ICSADL | ICSADL | ICSA | 06/04/25 16:36 | | Jaswal | OK |
| 14 | ICSABDL | ICSABDL | ICSAB | 06/04/25 16:40 | | Jaswal | OK |
| 15 | CCV01 | CCV01 | CCV | 06/04/25 16:45 | | Jaswal | OK |
| 16 | CCB01 | CCB01 | CCB | 06/04/25 16:52 | | Jaswal | OK |
| 17 | Q2160-05 | TP05-MHH-WC | SAM | 06/04/25 16:57 | | Jaswal | OK |
| 18 | Q2159-04 | TP05-MHO-WC | SAM | 06/04/25 17:01 | | Jaswal | OK |

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Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136011

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/5/2025 3:57:54 PM |
| Supervise By | jaswal | Supervise On | 6/10/2025 4:55:25 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85872 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2178-01 | RT2929 | SAM | 06/04/25 17:05 | | Jaswal | OK |
| 20 | Q2182-01 | OR-03-06022025 | SAM | 06/04/25 17:10 | | Jaswal | OK |
| 21 | Q2172-04 | TP06-MHQ | SAM | 06/04/25 17:14 | | Jaswal | OK |
| 22 | Q2178-02 | RT2929 | SAM | 06/04/25 17:18 | | Jaswal | OK |
| 23 | Q2185-01 | TP02-MHB-WC | SAM | 06/04/25 17:23 | | Jaswal | OK |
| 24 | Q2185-05 | TP01-MHA-WC | SAM | 06/04/25 17:27 | | Jaswal | OK |
| 25 | Q2178-01DUP | RT2929DUP | DUP | 06/04/25 17:31 | | Jaswal | OK |
| 26 | CCV02 | CCV02 | CCV | 06/04/25 17:35 | | Jaswal | OK |
| 27 | CCB02 | CCB02 | CCB | 06/04/25 17:39 | | Jaswal | OK |
| 28 | Q2178-01L | RT2929L | SD | 06/04/25 17:48 | | Jaswal | OK |
| 29 | Q2178-01MS | RT2929MS | MS | 06/04/25 17:53 | | Jaswal | OK |
| 30 | Q2178-01MSD | RT2929MSD | MSD | 06/04/25 17:57 | | Jaswal | OK |
| 31 | Q2178-01A | RT2929A | PS | 06/04/25 18:01 | | Jaswal | OK |
| 32 | PB168224TB | PB168224TB | MB | 06/04/25 18:05 | | Jaswal | OK |
| 33 | Q2168-02 | SAN-A1-A3 | SAM | 06/04/25 18:10 | | Jaswal | OK |
| 34 | Q2168-06 | SAN-B1-B3 | SAM | 06/04/25 18:14 | | Jaswal | OK |
| 35 | Q2168-10 | SAN-C1-C2 | SAM | 06/04/25 18:19 | | Jaswal | OK |
| 36 | Q2177-03 | B-187-SB01 | SAM | 06/04/25 18:23 | | Jaswal | OK |
| 37 | CCV03 | CCV03 | CCV | 06/04/25 18:37 | | Jaswal | OK |
| 38 | CCB03 | CCB03 | CCB | 06/04/25 18:42 | | Jaswal | OK |

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Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136011

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/5/2025 3:57:54 PM |
| Supervise By | jaswal | Supervise On | 6/10/2025 4:55:25 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85872 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | Q2177-05 | B-187-SB02 | SAM | 06/04/25 18:47 | | Jaswal | OK |
| 40 | Q2177-07 | B-202-SB01 | SAM | 06/04/25 18:51 | | Jaswal | OK |
| 41 | Q2185-04 | TP02-MHB-WC | SAM | 06/04/25 18:56 | | Jaswal | OK |
| 42 | Q2185-08 | TP01-MHA-WC | SAM | 06/04/25 19:00 | | Jaswal | OK |
| 43 | Q2185-08DUP | TP01-MHA-WC | DUP | 06/04/25 19:04 | | Jaswal | OK |
| 44 | Q2185-08L | TP01-MHA-WC | SD | 06/04/25 19:09 | | Jaswal | OK |
| 45 | Q2185-08MS | TP01-MHA-WCMS | MS | 06/04/25 19:13 | | Jaswal | OK |
| 46 | Q2185-08MSD | TP01-MHA-WCMSD | MSD | 06/04/25 19:17 | | Jaswal | OK |
| 47 | Q2185-08A | TP01-MHA-WC | PS | 06/04/25 19:22 | | Jaswal | OK |
| 48 | CCV04 | CCV04 | CCV | 06/04/25 19:26 | | Jaswal | OK |
| 49 | CCB04 | CCB04 | CCB | 06/04/25 19:30 | | Jaswal | OK |
| 50 | PB168256BL | PB168256BL | MB | 06/04/25 19:34 | | Jaswal | OK |
| 51 | PB168256BS | PB168256BS | LCS | 06/04/25 19:39 | | Jaswal | OK |
| 52 | PB168261BL | PB168261BL | MB | 06/04/25 19:43 | | Jaswal | OK |
| 53 | PB168261BS | PB168261BS | LCS | 06/04/25 19:47 | | Jaswal | OK |
| 54 | PB168255BL | PB168255BL | MB | 06/04/25 19:51 | | Jaswal | OK |
| 55 | PB168255BS | PB168255BS | LCS | 06/04/25 19:55 | | Jaswal | OK |
| 56 | Q2169-01 | 303-PPR-1 | SAM | 06/04/25 19:59 | | Jaswal | OK |
| 57 | Q2169-03 | 303-PPR-2 | SAM | 06/04/25 20:03 | | Jaswal | OK |
| 58 | Q2175-06DL | EGR-LIQUIDDL | SAM | 06/04/25 20:08 | Straight 5x for all elements | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136011

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/5/2025 3:57:54 PM |
| Supervise By | jaswal | Supervise On | 6/10/2025 4:55:25 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85872 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 59 | CCV05 | CCV05 | CCV | 06/04/25 20:12 | | Jaswal | OK |
| 60 | CCB05 | CCB05 | CCB | 06/04/25 20:16 | | Jaswal | OK |
| 61 | Q2177-08 | EB05312025 | SAM | 06/04/25 20:20 | | Jaswal | OK |
| 62 | Q2169-03DUP | 303-PPR-2DUP | DUP | 06/04/25 20:25 | | Jaswal | OK |
| 63 | Q2169-03L | 303-PPR-2L | SD | 06/04/25 20:29 | | Jaswal | OK |
| 64 | Q2169-03MS | 303-PPR-2MS | MS | 06/04/25 20:33 | | Jaswal | OK |
| 65 | Q2169-03MSD | 303-PPR-2MSD | MSD | 06/04/25 20:37 | | Jaswal | OK |
| 66 | Q2169-03A | 303-PPR-2A | PS | 06/04/25 20:42 | | Jaswal | OK |
| 67 | PB168276BL | PB168276BL | MB | 06/04/25 20:46 | | Jaswal | OK |
| 68 | PB168276BS | PB168276BS | LCS | 06/04/25 20:50 | | Jaswal | OK |
| 69 | Q2175-09DL | 52725DL | SAM | 06/04/25 20:54 | Straight 5x for all elements | Jaswal | OK |
| 70 | CCV06 | CCV06 | CCV | 06/04/25 20:58 | | Jaswal | OK |
| 71 | CCB06 | CCB06 | CCB | 06/04/25 21:02 | | Jaswal | OK |
| 72 | Q2198-05DL | B-202-GW01DL | SAM | 06/04/25 21:07 | Straight 5x for all elements | Jaswal | OK |
| 73 | Q2198-05DUPDL | B-202-GW01DUPDL | DUP | 06/04/25 21:11 | Straight 5x for all elements | Jaswal | OK |
| 74 | Q2198-05LDL | B-202-GW01LDL | SD | 06/04/25 21:15 | Straight 25x for all elements | Jaswal | OK |
| 75 | Q2198-05MSDL | B-202-GW01MSDL | MS | 06/04/25 21:20 | Straight 5x for all elements | Jaswal | OK |
| 76 | Q2198-05MSDDL | B-202-GW01MSDDL | MSD | 06/04/25 21:24 | Straight 5x for all elements | Jaswal | OK |
| 77 | Q2198-05ADL | B-202-GW01ADL | PS | 06/04/25 21:28 | Straight 5x for all elements | Jaswal | OK |

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Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136011

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 6/5/2025 3:57:54 PM |
| Supervise By | jaswal | Supervise On | 6/10/2025 4:55:25 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP85867,MP85897,MP85871,MP85870,MP85869,MP85868 |
| ICV Standard | MP85872 |
| CCV Standard | MP85875 |
| ICSA Standard | MP85873,MP85874 |
| CRI Standard | MP85897 |
| LCS Standard | |
| Chk Standard | MP85876,MP85877 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 78 | Q2172-01 | TP06-MHQ | SAM | 06/04/25 21:32 | CCV fail for Fe,K,Na | Jaswal | Not Ok |
| 79 | Q2172-01DUP | TP06-MHQDUP | DUP | 06/04/25 21:37 | CCV fail for Fe,K,Na | Jaswal | Not Ok |
| 80 | CCV07 | CCV07 | CCV | 06/04/25 21:41 | | Jaswal | OK |
| 81 | CCB07 | CCB07 | CCB | 06/04/25 21:45 | | Jaswal | OK |
| 82 | Q2172-01L | TP06-MHQL | SD | 06/04/25 21:49 | CCV fail for Fe,K,Na | Jaswal | Not Ok |
| 83 | Q2172-01MS | TP06-MHQMS | MS | 06/04/25 21:54 | CCV fail for Fe,K,Na | Jaswal | Not Ok |
| 84 | Q2172-01MSD | TP06-MHQMSD | MSD | 06/04/25 21:57 | CCV fail for Fe,K,Na | Jaswal | Not Ok |
| 85 | Q2172-01A | TP06-MHQA | PS | 06/04/25 22:01 | CCV fail for Fe,K,Na | Jaswal | Not Ok |
| 86 | CCV08 | CCV08 | CCV | 06/04/25 22:06 | CCV fail for Fe,K,Na | Jaswal | OK |
| 87 | CCB08 | CCB08 | CCB | 06/04/25 22:10 | | Jaswal | OK |

Alliance TECHNICAL GROUP

# Water Metals Preparation Sheet

PB168256

**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:** 06/03/2025 **Time :** 12:30 **Temp :** 96 °C

**End Digest Date:** 06/03/2025 **Time :** 15:32 **Temp :** 96 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** MET-DIG. #1

**Dig Technician Signature:** SLG

**Supervisor Signature:**

**Temp :** 1. 96°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LFS-1 | 0.25 | M6007 |
| LFS-2 | 0.25 | M6016 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Conc. HNO3 | 3.00 | M6158 |
| 1:1 HCL | 5.00 | MP84041 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| 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 |
|---|---|---|
| 06/03/25 16:32 | SLG met dig | SG Metals Lab |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**Water Metals Preparation Sheet**

**PB168256**

| Lab Sample ID | Client Sample ID | pH | Initial Vol (ml) | Final Vol (ml) | Color Before | Color After | Clarity Before | Clarity After | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| PB168224TB | PB168224TB | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 1 |
| PB168256BL | PBW256 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | M6007,M6016 | 2 |
| PB168256BS | LCS256 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 3 |
| Q2159-04 | TP05-MHO-WC | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 4 |
| Q2160-04 | TP04-MHG-WC | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 5 |
| Q2160-08 | TP05-MHH-WC | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 6 |
| Q2168-02 | SAN-A1-A3 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 7 |
| Q2168-06 | SAN-B1-B3 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 8 |
| Q2168-10 | SAN-C1-C2 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 9 |
| Q2172-04 | TP06-MHQ | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 10 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 11 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 12 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 13 |
| Q2177-03 | B-187-SB01 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 14 |
| Q2177-05 | B-187-SB02 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 15 |
| Q2177-07 | B-202-SB01 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 16 |
| Q2178-02 | RT2929 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 17 |
| Q2185-04 | TP02-MHB-WC | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 18 |
| Q2185-08 | TP01-MHB-WC | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 19 |
| Q2185-08MS | TP01-MHB-WCMS | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | M6007,M6016 | 21 |
| Q2185-08MSD | TP01-MHB-WCMSD | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | M6007,M6016 | 22 |
| Q2185-08DUP | TP01-MHB-WCDUP | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 20 |

A
B
C
D
E
F
G
H
I
J

Alliance TECHNICAL GROUP

**Water Mercury Preparation Sheet**

PB168262

**SOP ID :** M7470A-Mercury-20

**SDG No :** NA

**Matrix :** WATER

**Pippete ID:** HG A

**Balance ID :** N/A

**Filter paper ID :** NA

**pH Strip ID :** M6069

**Hood ID :** #1

**Block ID:** 1. HG HOT BLOCK#3 2. N/A

**Start Digest Date:** 06/03/2025 **Time :** 13:30 **Temp :** 94 °C

**End Digest Date:** 06/03/2025 **Time :** 15:30 **Temp :** 95 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** HG-DIG#3

**Dig Technician Signature:** BB

**Supervisor Signature:** JZ

**Temp :** 1. 94°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| ICV | 30mL | MP85859 |
| CCV | 30mL | MP85861 |
| CRA | 30mL | MP85863 |
| Blank Spike | 0.48mL | MP85852 |
| Matrix Spike | 0.48mL | MP85852 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| HNO3/H2SO4(1:2) | 2.25mL | MP85240 |
| KMnO4 (5%) | 4.5mL | MP85241 |
| K2S2O8 (5%) | 2.4mL | MP85242 |
| Hydroxylamine HCL (12%) | 1.8mL | MP85243 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| 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 | MP85853 |
| 0.05 ppb | S0.05 | N/A | N/A |
| 0.2 ppb | S0.2 | 30mL | MP85854 |
| 2.5 ppb | S2.5 | 30mL | MP85855 |
| 5.0 ppb | S5.0 | 30mL | MP85856 |
| 7.5 ppb | S7.5 | 30mL | MP85857 |
| 10.0 ppb | S10.0 | 30mL | MP85858 |
| ICV | ICV | 30mL | MP85859 |
| ICB | ICB | 30mL | MP85860 |
| CCV | CCV | 30mL | MP85861 |
| CCB | CCB | 30mL | MP85862 |
| CRI | CRI | 30mL | MP85863 |
| CHK STD | CHK STD | 30mL | MP85864 |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 06/03/25 @ 16:30 | MB - DIG LAB | BB - MERC LAB |
| | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**Water Mercury Preparation Sheet**

**PB168262**

| Lab Sample ID | Client Sample ID | Initial Vol (ml) | Final Vol (ml) | pH | Comment | Prep Pos |
|---|---|---|---|---|---|---|
| PB168224TB | PB168224TB | 3 | 30 | <2 | N/A | 3-1 |
| PB168262BL | PBW262 | 30 | 30 | <2 | N/A | 2 |
| PB168262BS | LCS262 | 30 | 30 | <2 | MP85852 | 3 |
| Q2159-04 | TP05-MHO-WC | 3 | 30 | <2 | N/A | 4 |
| Q2160-04 | TP04-MHG-WC | 3 | 30 | <2 | N/A | 5 |
| Q2160-08 | TP05-MHH-WC | 3 | 30 | <2 | N/A | 6 |
| Q2168-02 | SAN-A1-A3 | 3 | 30 | <2 | N/A | 7 |
| Q2168-06 | SAN-B1-B3 | 3 | 30 | <2 | N/A | 8 |
| Q2168-10 | SAN-C1-C2 | 3 | 30 | <2 | N/A | 9 |
| Q2172-04 | TP06-MHQ | 3 | 30 | <2 | N/A | 10 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | 3 | 30 | <2 | N/A | 11 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | 3 | 30 | <2 | N/A | 12 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | 3 | 30 | <2 | N/A | 13 |
| Q2177-03 | B-187-SB01 | 3 | 30 | <2 | N/A | 14 |
| Q2177-05 | B-187-SB02 | 3 | 30 | <2 | N/A | 15 |
| Q2177-07 | B-202-SB01 | 3 | 30 | <2 | N/A | 16 |
| Q2185-04 | TP02-MHB-WC | 3 | 30 | <2 | N/A | 17 |
| Q2185-08 | TP01-MHB-WC | 3 | 30 | <2 | N/A | 18 |
| Q2185-08DUP | TP01-MHB-WCDUP | 3 | 30 | <2 | N/A | 19 |
| Q2185-08MS | TP01-MHB-WCMS | 3 | 30 | <2 | MP85852 | 20 |
| Q2185-08MSD | TP01-MHB-WCMSD | 3 | 30 | <2 | MP85852 | 21 |

A B C D E F G H I J

Alliance TECHNICAL GROUP

**TCLP EXTRACTION LOGPAGE**

PB168224

**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 / T-2

**TCLP Filter ID :** 115525

**Start Prep Date :** 06/02/2025 **Time :** 16:00

**End Prep Date :** 06/03/2025 **Time :** 09:15

**Combination Ratio :** 20

**ZHE Cleaning Batch :** 10 N/A

**Initial Room Temperature:** 22 °C

**Final Room Temperature:** 21 °C

**TCLP Technician Signature :** JP

**Supervisor By :** SJ

| 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 | WP112795 |
| HCL-TCLP,1N | N/A | WP112797 |
| HNO3-TCLP,1N | N/A | WP112799 |
| pH Strips | N/A | W1931,W1934,W3171,W3172 |
| pH Strips | N/A | W3166,W1938,W1939, |
| 1 Liter Amber | N/A | 90924-08 |
| 120ml Plastic bottle | N/A | 2738 |
| 1:1 HNO3 | N/A | MP84041 |

**Extraction Conformance/Non-Conformance Comments:**

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. q2185-08 is used for MS-MSD.

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 06/03/25 11:00 | JP / TCLP Room | SJS. RS 1Ext |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

## TCLP EXTRACTION LOGPAGE

PB168224

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| PB168224TB | LEB224 | 17 | N/A | 2000 | N/A | N/A | N/A | 4.93 | 1.5 | T-2 |
| Q2159-04 | TP05-MHO-WC | 01 | 100.02 | 2000 | N/A | N/A | N/A | 3.0 | 1.0 | T-1 |
| Q2160-04 | TP04-MHG-WC | 02 | 100.03 | 2000 | N/A | N/A | N/A | 3.0 | 1.5 | T-1 |
| Q2160-08 | TP05-MHH-WC | 03 | 100.02 | 2000 | N/A | N/A | N/A | 3.5 | 1.0 | T-1 |
| Q2168-02 | SAN-A1-A3 | 04 | 100.03 | 2000 | N/A | N/A | N/A | 4.5 | 1.5 | T-1 |
| Q2168-06 | SAN-B1-B3 | 05 | 100.02 | 2000 | N/A | N/A | N/A | 4.5 | 1.0 | T-1 |
| Q2168-10 | SAN-C1-C2 | 06 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.5 | T-1 |
| Q2172-04 | TP06-MHQ | 07 | 100.01 | 2000 | N/A | N/A | N/A | 3.0 | 1.5 | T-1 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | 08 | 100.02 | 2000 | N/A | N/A | N/A | 7.0 | 1.0 | T-1 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | 09 | 100.03 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-1 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | 10 | 100.04 | 2000 | N/A | N/A | N/A | 6.0 | 1.0 | T-1 |
| Q2177-03 | B-187-SB01 | 11 | 100.02 | 2000 | N/A | N/A | N/A | 6.0 | 1.5 | T-2 |
| Q2177-05 | B-187-SB02 | 12 | 100.03 | 2000 | N/A | N/A | N/A | 5.6 | 1.0 | T-2 |
| Q2177-07 | B-202-SB01 | 13 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-2 |
| Q2178-02 | RT2929 | 14 | 100.03 | 2000 | N/A | N/A | N/A | 10.0 | 1.5 | T-2 |
| Q2185-04 | TP02-MHB-WC | 15 | 100.02 | 2000 | N/A | N/A | N/A | 5.8 | 1.5 | T-2 |
| Q2185-08 | TP01-MHB-WC | 16 | 100.03 | 2000 | N/A | N/A | N/A | 6.0 | 1.0 | T-2 |

Alliance TECHNICAL GROUP

**TCLP Solid Determination**

PB168224

| SampleID | ClientID | Sample Weight (g) | Filter Weight (g) | Filtrate (mL) | Filter + Solid (After 100°C) | % solids | % Dry Solids |
|---|---|---|---|---|---|---|---|
| PB168224TB | LEB224 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2159-04 | TP05-MHO-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2160-04 | TP04-MHG-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2160-08 | TP05-MHH-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2168-02 | SAN-A1-A3 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2168-06 | SAN-B1-B3 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2168-10 | SAN-C1-C2 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2172-04 | TP06-MHQ | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2173-06 | OR-400-CF-402B-COMP-23 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2173-12 | OR-400-CF-402B-COMP-24 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2173-18 | OR-400-CF-402B-COMP-25 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2177-03 | B-187-SB01 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2177-05 | B-187-SB02 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2177-07 | B-202-SB01 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2178-02 | RT2929 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2185-04 | TP02-MHB-WC | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2185-08 | TP01-MHB-WC | N/A | N/A | N/A | N/A | 100 | N/A |

Alliance TECHNICAL GROUP

**TCLP Fluid Determination**

PB168224

**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 |
|---|---|---|---|---|---|---|---|
| PB168224TB | LEB224 | N/A | N/A | N/A | N/A | #1 | 4.93 |
| Q2159-04 | TP05-MHO-WC | 5.02 | 96.5 | 5.6 | 2.0 | #1 | 4.93 |
| Q2160-04 | TP04-MHG-WC | 5.01 | 96.5 | 5.5 | 2.0 | #1 | 4.93 |
| Q2160-08 | TP05-MHH-WC | 5.02 | 96.5 | 5.8 | 2.0 | #1 | 4.93 |
| Q2168-02 | SAN-A1-A3 | 5.01 | 96.5 | 6.2 | 2.5 | #1 | 4.93 |
| Q2168-06 | SAN-B1-B3 | 5.02 | 96.5 | 6.0 | 2.0 | #1 | 4.93 |
| Q2168-10 | SAN-C1-C2 | 5.03 | 96.5 | 6.0 | 2.0 | #1 | 4.93 |
| Q2172-04 | TP06-MHQ | 5.03 | 96.5 | 5.5 | 1.5 | #1 | 4.93 |
| Q2173-06 | OR-400-CF-402B-COMP-23 | 5.02 | 96.5 | 9.0 | 3.5 | #1 | 4.93 |
| Q2173-12 | OR-400-CF-402B-COMP-24 | 5.03 | 96.5 | 7.2 | 2.5 | #1 | 4.93 |
| Q2173-18 | OR-400-CF-402B-COMP-25 | 5.02 | 96.5 | 8.4 | 3.0 | #1 | 4.93 |
| Q2177-03 | B-187-SB01 | 5.03 | 96.5 | 8.2 | 3.0 | #1 | 4.93 |
| Q2177-05 | B-187-SB02 | 5.02 | 96.5 | 7.2 | 2.5 | #1 | 4.93 |
| Q2177-07 | B-202-SB01 | 5.01 | 96.5 | 8.2 | 3.0 | #1 | 4.93 |
| Q2178-02 | RT2929 | 5.02 | 96.5 | 10.5 | 4.0 | #1 | 4.93 |
| Q2185-04 | TP02-MHB-WC | 5.02 | 96.5 | 8.0 | 3.0 | #1 | 4.93 |
| Q2185-08 | TP01-MHB-WC | 5.01 | 96.5 | 8.0 | 3.0 | N/A | 4.93 |

# SAMPLE DATA

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 09:30 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-02 | Matrix: | SOIL |
| | | % Solid: | 84.2 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | 0.082 | U | 1 | 0.082 | 0.47 | mg/Kg | 06/02/25 09:10 | 06/02/25 13:12 | 7196A |
| Trivalent Chromium | 19.2 | | 1 | 0.59 | 0.59 | mg/Kg | | 06/10/25 21:36 | 6010D |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 09:30 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-03 | Matrix: | SOIL |
| | | % Solid: | 100 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Corrosivity | 8.13 | H | 1 | 0 | 0 | pH | | 06/02/25 16:30 | 9045D |
| Ignitability | NO | | 1 | 0 | 0 | oC | | 06/02/25 10:16 | 1030 |
| Reactive Cyanide | 0.0083 | U | 1 | 0.0083 | 0.050 | mg/Kg | 06/02/25 12:25 | 06/02/25 15:33 | 9012B |
| Reactive Sulfide | 3.15 | J | 1 | 0.20 | 10.0 | mg/Kg | 06/02/25 10:30 | 06/02/25 14:13 | 9034 |

Comments: pH result reported at temperature 20.9 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 10:00 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-04 | Matrix: | SOIL |
| | | % Solid: | 62.8 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | 0.11 | U | 1 | 0.11 | 0.63 | mg/Kg | 06/02/25 09:10 | 06/02/25 13:13 | 7196A |
| Trivalent Chromium | 8.68 | | 1 | 0.80 | 0.80 | mg/Kg | | 06/10/25 21:40 | 6010D |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 10:00 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-187-SB02 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-05 | Matrix: | SOIL |
| | | % Solid: | 100 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Corrosivity | 7.36 | H | 1 | 0 | 0 | pH | | 06/02/25 16:33 | 9045D |
| Ignitability | NO | | 1 | 0 | 0 | oC | | 06/02/25 10:23 | 1030 |
| Reactive Cyanide | 0.0084 | U | 1 | 0.0084 | 0.050 | mg/Kg | 06/02/25 12:25 | 06/02/25 15:41 | 9012B |
| Reactive Sulfide | 4.78 | J | 1 | 0.20 | 10.0 | mg/Kg | 06/02/25 10:30 | 06/02/25 14:15 | 9034 |

Comments: pH result reported at temperature 20.9 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 10:15 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-06 | Matrix: | SOIL |
| | | % Solid: | 85.4 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | 0.080 | U | 1 | 0.080 | 0.46 | mg/Kg | 06/02/25 09:10 | 06/02/25 13:16 | 7196A |
| Trivalent Chromium | 14.5 | | 1 | 0.59 | 0.59 | mg/Kg | | 06/10/25 22:13 | 6010D |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 10:15 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | B-202-SB01 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-07 | Matrix: | SOIL |
| | | % Solid: | 100 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Corrosivity | 8.23 | H | 1 | 0 | 0 | pH | | 06/02/25 16:40 | 9045D |
| Ignitability | NO | | 1 | 0 | 0 | oC | | 06/02/25 10:31 | 1030 |
| Reactive Cyanide | 0.0084 | U | 1 | 0.0084 | 0.050 | mg/Kg | 06/02/25 12:25 | 06/02/25 15:41 | 9012B |
| Reactive Sulfide | 3.18 | J | 1 | 0.20 | 10.0 | mg/Kg | 06/02/25 10:30 | 06/02/25 14:18 | 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

Alliance TECHNICAL GROUP
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 05/31/25 14:15 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 06/02/25 |
| Client Sample ID: | EB05312025 | SDG No.: | Q2177 |
| Lab Sample ID: | Q2177-08 | Matrix: | WATER |
| | | % Solid: | 0 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Dissolved Hexavalent Chromium | 0.0030 | U | 1 | 0.0030 | 0.010 | mg/L | | 06/02/25 09:53 | 7196A |
| trivalent Chromium | 0.010 | U | 1 | 0.010 | 0.010 | mg/L | | 06/04/25 20:20 | 6010D |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

# QC RESULT SUMMARY

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# Initial and Continuing Calibration Verification

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Project:** Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135974

| Analyte | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|
| **Sample ID: ICV** | | | | | | |
| Hexavalent Chromium | mg/L | 0.497 | 0.5 | 99 | 90-110 | 06/02/2025 |
| **Sample ID: CCV1** | | | | | | |
| Hexavalent Chromium | mg/L | 0.502 | 0.5 | 100 | 90-110 | 06/02/2025 |
| **Sample ID: CCV2** | | | | | | |
| Hexavalent Chromium | mg/L | 0.499 | 0.5 | 100 | 90-110 | 06/02/2025 |

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# Initial and Continuing Calibration Verification

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Project:** Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135980

| Analyte | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|
| **Sample ID: ICV** | | | | | | |
| Hexavalent Chromium | mg/L | 0.499 | 0.5 | 100 | 90-110 | 06/02/2025 |
| **Sample ID: CCV1** | | | | | | |
| Hexavalent Chromium | mg/L | 0.502 | 0.5 | 100 | 90-110 | 06/02/2025 |
| **Sample ID: CCV2** | | | | | | |
| Hexavalent Chromium | mg/L | 0.497 | 0.5 | 99 | 90-110 | 06/02/2025 |
| **Sample ID: CCV3** | | | | | | |
| Hexavalent Chromium | mg/L | 0.500 | 0.5 | 100 | 90-110 | 06/02/2025 |
| **Sample ID: CCV4** | | | | | | |
| Hexavalent Chromium | mg/L | 0.500 | 0.5 | 100 | 90-110 | 06/02/2025 |

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# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client:** | Portal Partners Tri-Venture | **SDG No.:** | Q2177 |
| **Project:** | Amtrak Sawtooth Bridges 2025 | **RunNo.:** | LB135982 |

| Analyte | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|
| **Sample ID: ICV1** | | | | | | |
| Reactive Cyanide | mg/L | 0.094 | 0.099 | 95 | 85-115 | 06/02/2025 |
| **Sample ID: CCV1** | | | | | | |
| Reactive Cyanide | mg/L | 0.24 | 0.25 | 96 | 90-110 | 06/02/2025 |
| **Sample ID: CCV2** | | | | | | |
| Reactive Cyanide | mg/L | 0.24 | 0.25 | 96 | 90-110 | 06/02/2025 |
| **Sample ID: CCV3** | | | | | | |
| Reactive Cyanide | mg/L | 0.26 | 0.25 | 104 | 90-110 | 06/02/2025 |

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# Initial and Continuing Calibration Verification

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Project:** Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135983

| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|---|
| Sample ID: | ICV | | | | | | |
| Corrosivity | | pH | 7.01 | 7 | 100 | 90-110 | 06/02/2025 |
| Sample ID: | CCV1 | | | | | | |
| Corrosivity | | pH | 2.01 | 2.00 | 101 | 90-110 | 06/02/2025 |
| Sample ID: | CCV2 | | | | | | |
| Corrosivity | | pH | 12.02 | 12.00 | 100 | 90-110 | 06/02/2025 |
| Sample ID: | CCV3 | | | | | | |
| Corrosivity | | pH | 2.02 | 2.00 | 101 | 90-110 | 06/02/2025 |

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# Initial and Continuing Calibration Blank Summary

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Project:** Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135974

| 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 | 06/02/2025 |
| **Sample ID: CCB1** | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0029 | 0.01 | 06/02/2025 |
| **Sample ID: CCB2** | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0029 | 0.01 | 06/02/2025 |

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Fax : 908 789 8922

# Initial and Continuing Calibration Blank Summary

| | | | |
|---|---|---|---|
| **Client:** | Portal Partners Tri-Venture | **SDG No.:** | Q2177 |
| **Project:** | Amtrak Sawtooth Bridges 2025 | **RunNo.:** | LB135980 |

| 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 | 06/02/2025 |
| **Sample ID: CCB1** | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0029 | 0.01 | 06/02/2025 |
| **Sample ID: CCB2** | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0029 | 0.01 | 06/02/2025 |
| **Sample ID: CCB3** | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0029 | 0.01 | 06/02/2025 |
| **Sample ID: CCB4** | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0029 | 0.01 | 06/02/2025 |

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# Initial and Continuing Calibration Blank Summary

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Project:** Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135982

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID: ICB1** | | | | | | | |
| Reactive Cyanide | mg/L | < 0.0025 | 0.0025 | U | 0.00096 | 0.005 | 06/02/2025 |
| **Sample ID: CCB1** | | | | | | | |
| Reactive Cyanide | mg/L | < 0.0025 | 0.0025 | U | 0.00096 | 0.005 | 06/02/2025 |
| **Sample ID: CCB2** | | | | | | | |
| Reactive Cyanide | mg/L | < 0.0025 | 0.0025 | U | 0.00096 | 0.005 | 06/02/2025 |
| **Sample ID: CCB3** | | | | | | | |
| Reactive Cyanide | mg/L | < 0.0025 | 0.0025 | U | 0.00096 | 0.005 | 06/02/2025 |

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# Preparation Blank Summary

**Client:** Portal Partners Tri-Venture **SDG No.:** Q2177

**Project:** Amtrak Sawtooth Bridges 2025

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID: LB135974BL** | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.003 | 0.01 | 06/02/2025 |
| **Sample ID: PB168185BL** | | | | | | | |
| Hexavalent Chromium | mg/Kg | < 0.2000 | 0.2000 | U | 0.07 | 0.4 | 06/02/2025 |
| **Sample ID: PB168226BL** | | | | | | | |
| Reactive Cyanide | mg/Kg | < 0.0250 | 0.0250 | U | 0.0084 | 0.05 | 06/02/2025 |
| **Sample ID: PB168250BL** | | | | | | | |
| Reactive Sulfide | mg/Kg | < 5.0000 | 5.0000 | U | 0.201 | 10 | 06/02/2025 |

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# Matrix Spike Summary

**Client:** Portal Partners Tri-Venture
**SDG No.:** Q2177
**Project:** Amtrak Sawtooth Bridges 2025
**Sample ID:** Q2146-01
**Client ID:** TP04-MHN-WCMS
**Percent Solids for Spike Sample:** 79.9

| 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 | 1560 | | 0.087 | U | 1610 | 40 | 97 | | 06/02/2025 |

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# Matrix Spike Summary

**Client:** Portal Partners Tri-Venture
**SDG No.:** Q2177
**Project:** Amtrak Sawtooth Bridges 2025
**Sample ID:** Q2146-01
**Client ID:** TP04-MHN-WCMS
**Percent Solids for Spike Sample:** 79.9

| 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 | 43.0 | | 0.087 | U | 50.1 | 2 | 86 | | 06/02/2025 |

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# Matrix Spike Summary

**Client:** Portal Partners Tri-Venture
**Project:** Amtrak Sawtooth Bridges 2025
**Client ID:** TP04-MHN-WCMS
**SDG No.:** Q2177
**Sample ID:** Q2146-01
**Percent Solids for Spike Sample:** 79.9

| 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 | 39.8 | | 0.087 | U | 50.1 | 2 | 79 | | 06/02/2025 |

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# Duplicate Sample Summary

**Client:** Portal Partners Tri-Venture
**SDG No.:** Q2177
**Project:** Amtrak Sawtooth Bridges 2025
**Sample ID:** Q2146-01
**Client ID:** TP04-MHN-WCDUP
**Percent Solids for Spike Sample:** 79.9

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | mg/Kg | +/-20 | 0.087 | U | 0.087 | U | 1 | 0 | | 06/02/2025 |

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# Duplicate Sample Summary

**Client:** Portal Partners Tri-Venture
**Project:** Amtrak Sawtooth Bridges 2025
**Client ID:** 291DUP
**SDG No.:** Q2177
**Sample ID:** Q2157-01
**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 | | 06/02/2025 |

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# Duplicate Sample Summary

**Client:** Portal Partners Tri-Venture
**SDG No.:** Q2177
**Project:** Amtrak Sawtooth Bridges 2025
**Sample ID:** Q2168-02
**Client ID:** SAN-A1-A3DUP
**Percent Solids for Spike Sample:** 100

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Reactive Cyanide | mg/Kg | +/-20 | 0.0083 | U | 0.0083 | U | 1 | 0 | | 06/02/2025 |
| Reactive Sulfide | mg/Kg | +/-20 | 4.76 | J | 4.76 | J | 1 | 0 | | 06/02/2025 |

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# Duplicate Sample Summary

**Client:** Portal Partners Tri-Venture
**SDG No.:** Q2177
**Project:** Amtrak Sawtooth Bridges 2025
**Sample ID:** Q2185-08
**Client ID:** TP01-MHB-WCDUP
**Percent Solids for Spike Sample:** 100

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Corrosivity | pH | +/-20 | 8.00 | | 8.01 | | 1 | 0.12 | | 06/02/2025 |

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# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Portal Partners Tri-Venture | **SDG No.:** | Q2177 |
| **Project:** | Amtrak Sawtooth Bridges 2025 | **Run No.:** | LB135974 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID LB135974BS** | | | | | | | | |
| Hexavalent Chromium | mg/L | 0.5 | 0.50 | | 100 | 1 | 90-111 | 06/02/2025 |

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# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Portal Partners Tri-Venture | **SDG No.:** | Q2177 |
| **Project:** | Amtrak Sawtooth Bridges 2025 | **Run No.:** | LB135980 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID PB168185BS** | | | | | | | | |
| Hexavalent Chromium | mg/Kg | 20 | 19.9 | | 100 | 1 | 84-110 | 06/02/2025 |

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**Instrument ID:** SPECTROPHOTOMETER-1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135974

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 6/2/2025 4:16:44 PM |
| Supervise By | Iwona | Supervise On | 6/11/2025 4:12:14 PM |
| SubDirectory | LB135974 | 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 | WP113327,WP113326,WP113324,WP113323,WP113258,WP112831,WP113322,WP113331,WP113325,WP113330,\ |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | CAL1 | CAL1 | CAL | 06/02/25 09:45 | | rubina | OK |
| 2 | CAL2 | CAL2 | CAL | 06/02/25 09:45 | | rubina | OK |
| 3 | CAL3 | CAL3 | CAL | 06/02/25 09:46 | | rubina | OK |
| 4 | CAL4 | CAL4 | CAL | 06/02/25 09:46 | | rubina | OK |
| 5 | CAL5 | CAL5 | CAL | 06/02/25 09:47 | | rubina | OK |
| 6 | CAL6 | CAL6 | CAL | 06/02/25 09:47 | | rubina | OK |
| 7 | CAL7 | CAL7 | CAL | 06/02/25 09:48 | | rubina | OK |
| 8 | ICV | ICV | ICV | 06/02/25 09:48 | | rubina | OK |
| 9 | ICB | ICB | ICB | 06/02/25 09:49 | | rubina | OK |
| 10 | CCV1 | CCV1 | CCV | 06/02/25 09:49 | | rubina | OK |
| 11 | CCB1 | CCB1 | CCB | 06/02/25 09:50 | | rubina | OK |
| 12 | RL Check | RL Check | SAM | 06/02/25 09:50 | | rubina | OK |
| 13 | LB135974BL | LB135974BL | MB | 06/02/25 09:51 | | rubina | OK |
| 14 | LB135974BS | LB135974BS | LCS | 06/02/25 09:51 | | rubina | OK |
| 15 | Q2126-07 | LOD-MDL-WATER-01 | SAM | 06/02/25 09:52 | | rubina | OK |
| 16 | Q2126-08 | LOQ-WATER-02-QT2 | SAM | 06/02/25 09:52 | | rubina | OK |
| 17 | Q2177-08 | EB05312025 | SAM | 06/02/25 09:53 | | rubina | OK |
| 18 | CCV2 | CCV2 | CCV | 06/02/25 09:53 | | rubina | OK |

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**Instrument ID:** SPECTROPHOTOMETER-1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135974

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 6/2/2025 4:16:44 PM |
| Supervise By | Iwona | Supervise On | 6/11/2025 4:12:14 PM |
| SubDirectory | LB135974 | 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 | WP113327,WP113326,WP113324,WP113323,WP113258,WP112831,WP113322,WP113331,WP113325,WP113330,\ |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | CCB2 | CCB2 | CCB | 06/02/25 09:54 | | rubina | OK |

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**Instrument ID:** FLAME

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135977

| | | | |
|---|---|---|---|
| Review By | Eman | Review On | 6/2/2025 2:19:14 PM |
| Supervise By | Iwona | Supervise On | 6/2/2025 4:29:53 PM |
| SubDirectory | LB135977 | 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 | Q2157-01 | 291 | SAM | 06/02/25 09:00 | | Eman | OK |
| 2 | Q2157-01DUP | 291DUP | DUP | 06/02/25 09:08 | | Eman | OK |
| 3 | Q2168-02 | SAN-A1-A3 | SAM | 06/02/25 09:15 | | Eman | OK |
| 4 | Q2168-06 | SAN-B1-B3 | SAM | 06/02/25 09:23 | | Eman | OK |
| 5 | Q2168-10 | SAN-C1-C2 | SAM | 06/02/25 09:30 | | Eman | OK |
| 6 | Q2172-01 | TP06-MHQ | SAM | 06/02/25 09:38 | | Eman | OK |
| 7 | Q2172-04 | TP06-MHQ | SAM | 06/02/25 09:45 | | Eman | OK |
| 8 | Q2173-06 | OR-400-CF-402B-CO | SAM | 06/02/25 09:53 | | Eman | OK |
| 9 | Q2173-12 | OR-400-CF-402B-CO | SAM | 06/02/25 10:00 | | Eman | OK |
| 10 | Q2173-18 | OR-400-CF-402B-CO | SAM | 06/02/25 10:08 | | Eman | OK |
| 11 | Q2177-03 | B-187-SB01 | SAM | 06/02/25 10:16 | | Eman | OK |
| 12 | Q2177-05 | B-187-SB02 | SAM | 06/02/25 10:23 | | Eman | OK |
| 13 | Q2177-07 | B-202-SB01 | SAM | 06/02/25 10:31 | | Eman | OK |

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**Instrument ID:** SPECTROPHOTOMETER-1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135980

| | | | |
|---|---|---|---|
| Review By | Eman | Review On | 6/2/2025 4:14:24 PM |
| Supervise By | Iwona | Supervise On | 6/11/2025 4:13:36 PM |
| SubDirectory | LB135980 | 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 | WP113258,WP112831,WP112830,WP113322,WP113087 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | CAL1 | CAL1 | CAL | 06/02/25 12:40 | | Eman | OK |
| 2 | CAL2 | CAL2 | CAL | 06/02/25 12:41 | | Eman | OK |
| 3 | CAL3 | CAL3 | CAL | 06/02/25 12:42 | | Eman | OK |
| 4 | CAL4 | CAL4 | CAL | 06/02/25 12:43 | | Eman | OK |
| 5 | CAL5 | CAL5 | CAL | 06/02/25 12:44 | | Eman | OK |
| 6 | CAL6 | CAL6 | CAL | 06/02/25 12:45 | | Eman | OK |
| 7 | CAL7 | CAL7 | CAL | 06/02/25 12:46 | | Eman | OK |
| 8 | ICV | ICV | ICV | 06/02/25 12:47 | | Eman | OK |
| 9 | ICB | ICB | ICB | 06/02/25 12:48 | | Eman | OK |
| 10 | CCV1 | CCV1 | CCV | 06/02/25 12:49 | | Eman | OK |
| 11 | CCB1 | CCB1 | CCB | 06/02/25 12:50 | | Eman | OK |
| 12 | RL Check | RL Check | SAM | 06/02/25 12:51 | | Eman | OK |
| 13 | PB168185BL | PB168185BL | MB | 06/02/25 12:52 | | Eman | OK |
| 14 | PB168185BS | PB168185BS | LCS | 06/02/25 12:53 | | Eman | OK |
| 15 | Q2126-03 | MDL-SOIL-03-QT2-20 | SAM | 06/02/25 12:54 | | Eman | OK |
| 16 | Q2146-01 | TP04-MHN-WC | SAM | 06/02/25 12:55 | | Eman | OK |
| 17 | Q2146-01DUP | TP04-MHN-WCDUP | DUP | 06/02/25 12:56 | | Eman | OK |
| 18 | Q2146-01MSPre | TP04-MHN-WCMS | MS | 06/02/25 12:57 | | Eman | OK |

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**Instrument ID:** SPECTROPHOTOMETER-1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135980

| | | | |
|---|---|---|---|
| Review By | Eman | Review On | 6/2/2025 4:14:24 PM |
| Supervise By | Iwona | Supervise On | 6/11/2025 4:13:36 PM |
| SubDirectory | LB135980 | 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 | WP113258,WP112831,WP112830,WP113322,WP113087 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2146-01MS2Ins | TP04-MHN-WCMS | MS | 06/02/25 12:58 | | Eman | OK |
| 20 | Q2146-01MS3Post | TP04-MHN-WCMS | MS | 06/02/25 12:59 | | Eman | OK |
| 21 | Q2151-01 | WC-1 | SAM | 06/02/25 13:00 | | Eman | OK |
| 22 | Q2152-01 | OK-02-05292025 | SAM | 06/02/25 13:01 | | Eman | OK |
| 23 | CCV2 | CCV2 | CCV | 06/02/25 13:02 | | Eman | OK |
| 24 | CCB2 | CCB2 | CCB | 06/02/25 13:03 | | Eman | OK |
| 25 | Q2153-01 | TR-04-0592025 | SAM | 06/02/25 13:04 | | Eman | OK |
| 26 | Q2159-01 | TP05-MHO-WC | SAM | 06/02/25 13:05 | | Eman | OK |
| 27 | Q2160-01 | TP04-MHG-WC | SAM | 06/02/25 13:06 | | Eman | OK |
| 28 | Q2160-05 | TP05-MHH-WC | SAM | 06/02/25 13:07 | | Eman | OK |
| 29 | Q2172-01 | TP06-MHQ | SAM | 06/02/25 13:08 | | Eman | OK |
| 30 | Q2173-01 | OR-400-CF-402B-CO | SAM | 06/02/25 13:09 | | Eman | OK |
| 31 | Q2173-07 | OR-400-CF-402B-CO | SAM | 06/02/25 13:10 | | Eman | OK |
| 32 | Q2173-13 | OR-400-CF-402B-CO | SAM | 06/02/25 13:11 | | Eman | OK |
| 33 | Q2177-02 | B-187-SB01 | SAM | 06/02/25 13:12 | | Eman | OK |
| 34 | Q2177-04 | B-187-SB02 | SAM | 06/02/25 13:13 | | Eman | OK |
| 35 | CCV3 | CCV3 | CCV | 06/02/25 13:14 | | Eman | OK |
| 36 | CCB3 | CCB3 | CCB | 06/02/25 13:15 | | Eman | OK |
| 37 | Q2177-06 | B-202-SB01 | SAM | 06/02/25 13:16 | | Eman | OK |
| 38 | CCV4 | CCV4 | CCV | 06/02/25 13:17 | | Eman | OK |

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**Instrument ID:** SPECTROPHOTOMETER-1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135980

| | | | |
|---|---|---|---|
| Review By | Eman | Review On | 6/2/2025 4:14:24 PM |
| Supervise By | Iwona | Supervise On | 6/11/2025 4:13:36 PM |
| SubDirectory | LB135980 | 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 | WP113258,WP112831,WP112830,WP113322,WP113087 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | CCB4 | CCB4 | CCB | 06/02/25 13:18 | | Eman | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135982

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 6/3/2025 5:11:18 PM |
| Supervise By | Iwona | Supervise On | 6/4/2025 9:47:56 AM |
| SubDirectory | LB135982 | Test | Reactive Cyanide |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP113310,WP113311,WP113312,WP113313,WP113314,WP113315,WP113316 |
| ICV Standard | WP113317 |
| CCV Standard | WP113311 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | N/A |
| Chk Standard | WP112643,WP112900,WP113318 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | 0.0PPBCN | 0.0PPBCN | CAL1 | 06/02/25 11:54 | | rubina | OK |
| 2 | 5.0PPBCN | 5.0PPBCN | CAL2 | 06/02/25 11:54 | | rubina | OK |
| 3 | 10PPBCN | 10PPBCN | CAL3 | 06/02/25 11:54 | | rubina | OK |
| 4 | 50PPBCN | 50PPBCN | CAL4 | 06/02/25 11:54 | | rubina | OK |
| 5 | 100PPBCN | 100PPBCN | CAL5 | 06/02/25 11:54 | | rubina | OK |
| 6 | 250PPBCN | 250PPBCN | CAL6 | 06/02/25 11:54 | | rubina | OK |
| 7 | 500PPBCN | 500PPBCN | CAL7 | 06/02/25 11:54 | | rubina | OK |
| 8 | ICV1 | ICV1 | ICV | 06/02/25 15:26 | | rubina | OK |
| 9 | ICB1 | ICB1 | ICB | 06/02/25 15:26 | | rubina | OK |
| 10 | CCV1 | CCV1 | CCV | 06/02/25 15:26 | | rubina | OK |
| 11 | CCB1 | CCB1 | CCB | 06/02/25 15:26 | | rubina | OK |
| 12 | PB168226BL | PB168226BL | MB | 06/02/25 15:26 | | rubina | OK |
| 13 | Q2168-02 | SAN-A1-A3 | SAM | 06/02/25 15:26 | | rubina | OK |
| 14 | Q2168-02DUP | SAN-A1-A3DUP | DUP | 06/02/25 15:33 | | rubina | OK |
| 15 | Q2168-06 | SAN-B1-B3 | SAM | 06/02/25 15:33 | | rubina | OK |
| 16 | Q2168-10 | SAN-C1-C2 | SAM | 06/02/25 15:33 | | rubina | OK |
| 17 | Q2172-04 | TP06-MHQ | SAM | 06/02/25 15:33 | | rubina | OK |
| 18 | Q2173-06 | OR-400-CF-402B-CO | SAM | 06/02/25 15:33 | | rubina | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135982

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 6/3/2025 5:11:18 PM |
| Supervise By | Iwona | Supervise On | 6/4/2025 9:47:56 AM |
| SubDirectory | LB135982 | Test | Reactive Cyanide |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP113310,WP113311,WP113312,WP113313,WP113314,WP113315,WP113316 |
| ICV Standard | WP113317 |
| CCV Standard | WP113311 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | N/A |
| Chk Standard | WP112643,WP112900,WP113318 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2173-12 | OR-400-CF-402B-CO | SAM | 06/02/25 15:33 | | rubina | OK |
| 20 | Q2173-18 | OR-400-CF-402B-CO | SAM | 06/02/25 15:33 | | rubina | OK |
| 21 | Q2177-03 | B-187-SB01 | SAM | 06/02/25 15:33 | | rubina | OK |
| 22 | CCV2 | CCV2 | CCV | 06/02/25 15:41 | | rubina | OK |
| 23 | CCB2 | CCB2 | CCB | 06/02/25 15:41 | | rubina | OK |
| 24 | PB168188BL | PB168188BL | MB | 06/02/25 15:41 | | rubina | OK |
| 25 | Q2137-03 | MOO-25-0149 | SAM | 06/02/25 15:41 | | rubina | OK |
| 26 | Q2137-03DUP | MOO-25-0149DUP | DUP | 06/02/25 15:41 | | rubina | OK |
| 27 | Q2177-05 | B-187-SB02 | SAM | 06/02/25 15:41 | | rubina | OK |
| 28 | Q2177-07 | B-202-SB01 | SAM | 06/02/25 15:41 | | rubina | OK |
| 29 | CCV3 | CCV3 | CCV | 06/02/25 15:45 | | rubina | OK |
| 30 | CCB3 | CCB3 | CCB | 06/02/25 15:45 | | rubina | OK |

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Fax : 908 789 8922

**Instrument ID:** WC PH METER-1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135983

| | | | |
|---|---|---|---|
| Review By | jignesh | Review On | 6/3/2025 8:19:26 AM |
| Supervise By | Sohil | Supervise On | 6/3/2025 11:52:04 AM |
| SubDirectory | LB135983 | Test | Corrosivity |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | N/A |
| ICV Standard | N/A |
| CCV Standard | N/A |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | N/A |
| Chk Standard | W3178,W3093,W3191,W3071,W3161,W3200 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | CAL1 | CAL1 | CAL | 06/02/25 15:20 | | Jignesh | OK |
| 2 | CAL2 | CAL2 | CAL | 06/02/25 15:21 | | Jignesh | OK |
| 3 | CAL3 | CAL3 | CAL | 06/02/25 15:22 | | Jignesh | OK |
| 4 | ICV | ICV | ICV | 06/02/25 15:25 | | Jignesh | OK |
| 5 | CCV1 | CCV1 | CCV | 06/02/25 15:26 | | Jignesh | OK |
| 6 | Q2159-04 | TP05-MHO-WC | SAM | 06/02/25 15:33 | | Jignesh | OK |
| 7 | Q2160-04 | TP04-MHG-WC | SAM | 06/02/25 15:40 | | Jignesh | OK |
| 8 | Q2160-08 | TP05-MHH-WC | SAM | 06/02/25 15:44 | | Jignesh | OK |
| 9 | Q2168-02 | SAN-A1-A3 | SAM | 06/02/25 15:45 | | Jignesh | OK |
| 10 | Q2168-06 | SAN-B1-B3 | SAM | 06/02/25 15:50 | | Jignesh | OK |
| 11 | Q2168-10 | SAN-C1-C2 | SAM | 06/02/25 15:55 | | Jignesh | OK |
| 12 | Q2172-04 | TP06-MHQ | SAM | 06/02/25 16:00 | | Jignesh | OK |
| 13 | Q2173-06 | OR-400-CF-402B-CO | SAM | 06/02/25 16:10 | | Jignesh | OK |
| 14 | Q2173-12 | OR-400-CF-402B-CO | SAM | 06/02/25 16:15 | | Jignesh | OK |
| 15 | Q2173-18 | OR-400-CF-402B-CO | SAM | 06/02/25 16:22 | | Jignesh | OK |
| 16 | CCV2 | CCV2 | CCV | 06/02/25 16:25 | | Jignesh | OK |
| 17 | Q2177-03 | B-187-SB01 | SAM | 06/02/25 16:30 | | Jignesh | OK |
| 18 | Q2177-05 | B-187-SB02 | SAM | 06/02/25 16:33 | | Jignesh | OK |

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**Instrument ID:** WC PH METER-1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135983

| | | | |
|---|---|---|---|
| Review By | jignesh | Review On | 6/3/2025 8:19:26 AM |
| Supervise By | Sohil | Supervise On | 6/3/2025 11:52:04 AM |
| SubDirectory | LB135983 | Test | Corrosivity |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | N/A |
| ICV Standard | N/A |
| CCV Standard | N/A |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | N/A |
| Chk Standard | W3178,W3093,W3191,W3071,W3161,W3200 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2177-07 | B-202-SB01 | SAM | 06/02/25 16:40 | | Jignesh | OK |
| 20 | Q2185-04 | TP02-MHB-WC | SAM | 06/02/25 16:50 | | Jignesh | OK |
| 21 | Q2185-08 | TP01-MHA-WC | SAM | 06/02/25 17:00 | | Jignesh | OK |
| 22 | Q2185-08DUP | TP01-MHA-WC | DUP | 06/02/25 17:01 | | Jignesh | OK |
| 23 | CCV3 | CCV3 | CCV | 06/02/25 17:05 | | Jignesh | OK |

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**Instrument ID:** TITRAMETRIC

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135985

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 6/2/2025 4:45:45 PM |
| Supervise By | Iwona | Supervise On | 6/2/2025 4:50:19 PM |
| SubDirectory | LB135985 | Test | Reactive Sulfide |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | N/A |
| ICV Standard | N/A |
| CCV Standard | N/A |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | N/A |
| Chk Standard | W3105,W3213,W3149 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | PB168250BL | PB168250BL | MB | 06/02/25 14:00 | | rubina | OK |
| 2 | Q2168-02 | SAN-A1-A3 | SAM | 06/02/25 14:03 | | rubina | OK |
| 3 | Q2168-02DUP | SAN-A1-A3DUP | DUP | 06/02/25 14:06 | | rubina | OK |
| 4 | Q2168-06 | SAN-B1-B3 | SAM | 06/02/25 14:08 | | rubina | OK |
| 5 | Q2168-10 | SAN-C1-C2 | SAM | 06/02/25 14:10 | | rubina | OK |
| 6 | Q2177-03 | B-187-SB01 | SAM | 06/02/25 14:13 | | rubina | OK |
| 7 | Q2177-05 | B-187-SB02 | SAM | 06/02/25 14:15 | | rubina | OK |
| 8 | Q2177-07 | B-202-SB01 | SAM | 06/02/25 14:18 | | rubina | OK |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2177 | **OrderDate:** | 6/2/2025 11:19:00 AM |
| **Client:** | Portal Partners Tri-Venture | **Project:** | Amtrak Sawtooth Bridges 2025 |
| **Contact:** | Joseph Krupansky | **Location:** | L41,VOA Ref. #2 Soil,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2177-02** | **B-187-SB01** | **SOIL** | | | **05/31/25 09:30** | | | **06/02/25** |
| | | | Hexavalent Chromium | 7196A | | 06/02/25 | 06/02/25 13:12 | |
| | | | Trivalent Chromium | 6010D | | | 06/10/25 21:36 | |
| **Q2177-03** | **B-187-SB01** | **SOIL** | | | **05/31/25 09:30** | | | **06/02/25** |
| | | | Corrosivity | 9045D | | | 06/02/25 16:30 | |
| | | | Ignitability | 1030 | | | 06/02/25 10:16 | |
| | | | Reactive Cyanide | 9012B | | 06/02/25 | 06/02/25 15:33 | |
| | | | Reactive Sulfide | 9034 | | 06/02/25 | 06/02/25 14:13 | |
| **Q2177-04** | **B-187-SB02** | **SOIL** | | | **05/31/25 10:00** | | | **06/02/25** |
| | | | Hexavalent Chromium | 7196A | | 06/02/25 | 06/02/25 13:13 | |
| | | | Trivalent Chromium | 6010D | | | 06/10/25 21:40 | |
| **Q2177-05** | **B-187-SB02** | **SOIL** | | | **05/31/25 10:00** | | | **06/02/25** |
| | | | Corrosivity | 9045D | | | 06/02/25 16:33 | |
| | | | Ignitability | 1030 | | | 06/02/25 10:23 | |
| | | | Reactive Cyanide | 9012B | | 06/02/25 | 06/02/25 15:41 | |

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# LAB CHRONICLE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Reactive Sulfide | 9034 | | 06/02/25 | 06/02/25 14:15 | |
| **Q2177-06** | **B-202-SB01** | **SOIL** | | | **05/31/25 10:15** | | | **06/02/25** |
| | | | Hexavalent Chromium | 7196A | | 06/02/25 | 06/02/25 13:16 | |
| | | | Trivalent Chromium | 6010D | | | 06/10/25 22:13 | |
| **Q2177-07** | **B-202-SB01** | **SOIL** | | | **05/31/25 10:15** | | | **06/02/25** |
| | | | Corrosivity | 9045D | | | 06/02/25 16:40 | |
| | | | Ignitability | 1030 | | | 06/02/25 10:31 | |
| | | | Reactive Cyanide | 9012B | | 06/02/25 | 06/02/25 15:41 | |
| | | | Reactive Sulfide | 9034 | | 06/02/25 | 06/02/25 14:18 | |
| **Q2177-08** | **EB05312025** | **WATER** | | | **05/31/25 14:15** | | | **06/02/25** |
| | | | Hexavalent Chromium | 7196A | | | 06/02/25 09:53 | |
| | | | trivalent Chromium | 6010D | | | 06/04/25 20:20 | |

Alliance TECHNICAL GROUP

# Soil/Sludge Hexavalent Chromium Preparation Sheet

PB168185

**SOP ID :** M3060A,7196A-Hex.Chromium-26

**SDG No :** N/A

**Matrix :** SOIL

**Pippete ID :** WC

**Balance ID :** WC SC-7

**Hood ID :** HOOD#3

**Block ID :** WC S-2, WC S-1

**Weigh By :** RM

**Start Digest Date:** 06/02/2025 **Time :** 09:10 **Temp :** 90 °C

**End Digest Date:** 06/02/2025 **Time :** 10:10 **Temp :** 93 °C

1 hr later: 06/02/2025 10:35 90 C; 06/02/2025 11:35 94 C

**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 | WP111315 |
| INSOLUBLE SPIKE | 0.02GM | W2202 |
| POST-DIGESTION SPIKE | 2.0ML | WP111315 |
| LCSS | 1.0ML | WP111316 |
| PBS003 | 50.ML | W3112 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| MAGNESIUM CHLORIDE | 0.4GM | W3152 |
| PHOSPHATE BUFFER | 0.5ML | WP112903 |
| HEX. DIGESTION SOLN. | 50.0ML | WP113085 |
| 5M HNO3 | 5-7ML | WP112830 |
| 5N H2SO4 | 1-3ML | WP112831 |
| N/A | N/A | N/A |
| 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 | WP113321 |
| CAL3 | CAL3 | 0.5ML | WP113321 |
| CAL4 | CAL4 | 1ML | WP113321 |
| CAL5 | CAL5 | 0.2ML | WP111315 |
| CAL6 | CAL6 | 1ML | WP111315 |
| CAL7 | CAL7 | 2.0ML | WP111315 |
| ICV | ICV | 1ML | WP111316 |
| ICB | ICB | 2.5ML | W3112 |
| CCV | CCV | 1ML | WP111315 |
| CCB | CCB | 2.5ML | W3112 |

**Extraction Conformance/Non-Conformance Comments:**

06/02/2025 RM

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| | | |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

## Soil/Sludge Hexavalent Chromium Preparation Sheet

**PB168185**

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|
| PB168185BL | PBS185 | 2.50 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| PB168185BS | LCS185 | 2.50 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2126-03 | MDL-SOIL-03-QT2-2025 | 2.50 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2146-01 | TP04-MHN-WC | 2.51 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2146-01DUP | TP04-MHN-WCDUP | 2.51 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2146-01MSPre | TP04-MHN-WCMSPRE | 2.52 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2146-01MS2Ins | TP04-MHN-WCMS2INS | 2.52 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2146-01MS3Post | TP04-MHN-WCMS3POST | 2.51 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2151-01 | WC-1 | 2.54 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2152-01 | OK-02-05292025 | 2.57 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2153-01 | TR-04-0592025 | 2.57 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2159-01 | TP05-MHO-WC | 2.54 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2160-01 | TP04-MHG-WC | 2.51 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2160-05 | TP05-MHG-WC | 2.52 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2172-01 | TP06-MHQ | 2.55 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2173-01 | OR-400-CF-402B-COMP-23 | 2.53 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2173-07 | OR-400-CF-402B-COMP-24 | 2.52 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2173-13 | OR-400-CF-402B-COMP-25 | 2.57 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2177-02 | B-187-SB01 | 2.55 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2177-04 | B-187-SB02 | 2.51 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2177-06 | B-202-SB01 | 2.57 | 100 | N/A | N/A | N/A | N/A | N/A | N/A |

Alliance TECHNICAL GROUP

# Soil/Sludge Reactive Cyanide Preparation Sheet

PB168226

**SOP ID :** M9012B-Total, Amenable and Reactive Cyanide-20

**SDG No :** N/A

**Matrix :** SOIL

**Pippete ID :** N/A

**Balance ID :** WC SC-7

**Hood ID :** HOOD#1

**Block ID :** MC-1,MC-2

**Weigh By :** RM

**Start Digest Date:** 06/02/2025 **Time :** 12:25 **Temp :** N/A

**End Digest Date:** 06/02/2025 **Time :** 13:55 **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:** RMC

**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 |
|---|---|---|
| 0.25N NaOH | 50.0ML | WP111294 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| LAB SAMPLE ID | CLIENT SAMPLE ID | | Comment |
|---|---|---|---|
| | | | |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 06/02/2025 14:10 | RM (WC) | RM (WC) |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

## Soil/Sludge Reactive Cyanide Preparation Sheet

**PB168226**

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|
| PB168226BL | PBS226 | 5.00 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2168-02DUP | SAN-A1-A3DUP | 5.07 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2168-02 | SAN-A1-A3 | 5.07 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2168-06 | SAN-B1-B3 | 5.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2168-10 | SAN-C1-C2 | 5.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2172-04 | TP06-MHQ | 5.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2173-06 | OR-400-CF-402B-COMP-23 | 5.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2173-12 | OR-400-CF-402B-COMP-24 | 5.05 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2173-18 | OR-400-CF-402B-COMP-25 | 5.06 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2177-03 | B-187-SB01 | 5.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2177-05 | B-187-SB02 | 5.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2177-07 | B-202-SB01 | 5.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |

Alliance TECHNICAL GROUP

**Soil/Sludge Reactive Sulfide Preparation Sheet**

PB168250

**SOP ID :** M9030B-Sulfide-12

**SDG No :** N/A

**Matrix :** SOIL

**Pippete ID :** WC

**Balance ID :** WC SC-7

**Hood ID :** HOOD#1

**Block ID :** MC-2

**Weigh By :** RM

**Start Digest Date:** 06/02/2025 **Time :** 10:30 **Temp :** N/A

**End Digest Date:** 06/02/2025 **Time :** 12:00 **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 |
|---|---|---|
| 0.5M ZINC ACETATE | 5.0ML | WP113086 |
| FORMALDEHYDE | 2.0ML | W2725 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

06/02/2025 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

**PB168250**

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|
| PB168250BL | PBS250 | 5.00 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2168-02DUP | SAN-A1-A3DUP | 5.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2168-02 | SAN-A1-A3 | 5.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2168-06 | SAN-B1-B3 | 5.07 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2168-10 | SAN-C1-C2 | 5.06 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2177-03 | B-187-SB01 | 5.08 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2177-05 | B-187-SB02 | 5.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2177-07 | B-202-SB01 | 5.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |