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

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1761

**Client:** G Environmental

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **GST3** | | | | | | | |
| Q1761-01 | GST3 | SOIL | Benzene, 4-ethyl-1,2-dimethyl- * | 4.90 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | 4.90 | | | | |
| | | | **Total Concentration:** | 4.90 | | | | |

# SAMPLE DATA

Raw Data: **VY021855.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | 04/08/25 |
| Project: | Stockton | Date Received: | 04/09/25 |
| Client Sample ID: | GST3 | SDG No.: | Q1761 |
| Lab Sample ID: | Q1761-01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 78.6 |
| Sample Wt/Vol: | 7.82 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 |
|---|---|---|---|---|
| VY021855.D | 1 | | 04/11/25 13:33 | VY041125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.93 | U | 0.93 | 4.10 | ug/Kg |
| 74-87-3 | Chloromethane | 0.93 | U | 0.93 | 4.10 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.64 | U | 0.64 | 4.10 | ug/Kg |
| 74-83-9 | Bromomethane | 0.87 | U | 0.87 | 4.10 | ug/Kg |
| 75-00-3 | Chloroethane | 1.00 | U | 1.00 | 4.10 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.98 | U | 0.98 | 4.10 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.86 | U | 0.86 | 4.10 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.81 | U | 0.81 | 4.10 | ug/Kg |
| 67-64-1 | Acetone | 3.90 | U | 3.90 | 20.3 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 0.86 | U | 0.86 | 4.10 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.59 | U | 0.59 | 4.10 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.30 | U | 1.30 | 4.10 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.90 | U | 2.90 | 8.10 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.70 | U | 0.70 | 4.10 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.65 | U | 0.65 | 4.10 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.64 | U | 0.64 | 4.10 | ug/Kg |
| 78-93-3 | 2-Butanone | 5.30 | U | 5.30 | 20.3 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.79 | U | 0.79 | 4.10 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.61 | U | 0.61 | 4.10 | ug/Kg |
| 74-97-5 | Bromochloromethane | 0.94 | U | 0.94 | 4.10 | ug/Kg |
| 67-66-3 | Chloroform | 0.68 | U | 0.68 | 4.10 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.76 | U | 0.76 | 4.10 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.74 | U | 0.74 | 4.10 | ug/Kg |
| 71-43-2 | Benzene | 0.64 | U | 0.64 | 4.10 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 0.64 | 4.10 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.66 | U | 0.66 | 4.10 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.74 | U | 0.74 | 4.10 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.63 | U | 0.63 | 4.10 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 2.90 | U | 2.90 | 20.3 | ug/Kg |
| 108-88-3 | Toluene | 0.63 | U | 0.63 | 4.10 | ug/Kg |

Raw Data: **VY021855.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | 04/08/25 |
| Project: | Stockton | Date Received: | 04/09/25 |
| Client Sample ID: | GST3 | SDG No.: | Q1761 |
| Lab Sample ID: | Q1761-01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 78.6 |
| Sample Wt/Vol: | 7.82 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 |
|---|---|---|---|---|
| VY021855.D | 1 | | 04/11/25 13:33 | VY041125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.53 | U | 0.53 | 4.10 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U | 0.50 | 4.10 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.75 | U | 0.75 | 4.10 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.00 | U | 3.00 | 20.3 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.71 | U | 0.71 | 4.10 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.72 | U | 0.72 | 4.10 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.85 | U | 0.85 | 4.10 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.74 | U | 0.74 | 4.10 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.55 | U | 0.55 | 4.10 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.00 | U | 1.00 | 8.10 | ug/Kg |
| 95-47-6 | o-Xylene | 0.67 | U | 0.67 | 4.10 | ug/Kg |
| 100-42-5 | Styrene | 0.58 | U | 0.58 | 4.10 | ug/Kg |
| 75-25-2 | Bromoform | 0.70 | U | 0.70 | 4.10 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.63 | U | 0.63 | 4.10 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.98 | U | 0.98 | 4.10 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.40 | U | 1.40 | 4.10 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.30 | U | 1.30 | 4.10 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.20 | U | 1.20 | 4.10 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.50 | U | 1.50 | 4.10 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.40 | U | 2.40 | 4.10 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2.60 | U | 2.60 | 4.10 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 46.6 | | 70 (63) - 130 (155) | 93% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.6 | | 70 (70) - 130 (134) | 99% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.9 | | 70 (74) - 130 (123) | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 40.5 | | 70 (38) - 130 (136) | 81% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 317000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 560000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 469000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 180000 | 13.346 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | 04/08/25 |
| Project: | Stockton | Date Received: | 04/09/25 |
| Client Sample ID: | GST3 | SDG No.: | Q1761 |
| Lab Sample ID: | Q1761-01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 78.6 |
| Sample Wt/Vol: | 7.82 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 |
|---|---|---|---|---|
| VY021855.D | 1 | | 04/11/25 13:33 | VY041125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 000934-80-5 | Benzene, 4-ethyl-1,2-dimethyl- | 4.90 | J | | 13.9 | ug/Kg |

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

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

# QC SUMMARY

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

**SDG No.:** Q1761

**Client:** G Environmental

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| Q1761-01 | GST3 | 1,2-Dichloroethane-d4 | 50 | 46.6 | 93 | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 49.6 | 99 | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 48.0 | 96 | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 40.5 | 81 | 70 (38) | 130 (136) |
| VY0411SBL01 | VY0411SBL01 | 1,2-Dichloroethane-d4 | 50 | 47.0 | 94 | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 49.2 | 98 | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 47.4 | 95 | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 39.1 | 78 | 70 (38) | 130 (136) |
| VY0411SBS01 | VY0411SBS01 | 1,2-Dichloroethane-d4 | 50 | 52.3 | 105 | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 53.2 | 106 | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 53.8 | 108 | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 55.3 | 111 | 70 (38) | 130 (136) |
| VY0411SBSD01 | VY0411SBSD01 | 1,2-Dichloroethane-d4 | 50 | 50.6 | 101 | 70 (63) | 130 (155) |
| | | Dibromofluoromethane | 50 | 53.9 | 108 | 70 (70) | 130 (134) |
| | | Toluene-d8 | 50 | 53.1 | 106 | 70 (74) | 130 (123) |
| | | 4-Bromofluorobenzene | 50 | 54.5 | 109 | 70 (38) | 130 (136) |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1761

**Client:** G Environmental

**Analytical Method:** SW8260D **Datafile :** VY021852.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0411SBS01 | Dichlorodifluoromethane | 20 | 17.7 | ug/Kg | 89 | | | 40 (64) | 160 (136) | |
| | Chloromethane | 20 | 17.5 | ug/Kg | 88 | | | 40 (70) | 160 (130) | |
| | Vinyl chloride | 20 | 17.2 | ug/Kg | 86 | | | 70 (72) | 130 (129) | |
| | Bromomethane | 20 | 18.9 | ug/Kg | 95 | | | 40 (58) | 160 (141) | |
| | Chloroethane | 20 | 18.0 | ug/Kg | 90 | | | 40 (69) | 160 (130) | |
| | Trichlorofluoromethane | 20 | 18.6 | ug/Kg | 93 | | | 40 (69) | 160 (134) | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 19.6 | ug/Kg | 98 | | | 70 (81) | 130 (123) | |
| | 1,1-Dichloroethene | 20 | 19.1 | ug/Kg | 96 | | | 70 (79) | 130 (121) | |
| | Acetone | 100 | 100 | ug/Kg | 100 | | | 40 (60) | 160 (131) | |
| | Carbon disulfide | 20 | 17.4 | ug/Kg | 87 | | | 40 (45) | 160 (154) | |
| | Methyl tert-butyl Ether | 20 | 19.8 | ug/Kg | 99 | | | 70 (77) | 130 (129) | |
| | Methyl Acetate | 20 | 20.7 | ug/Kg | 104 | | | 70 (69) | 130 (149) | |
| | Methylene Chloride | 20 | 20.1 | ug/Kg | 101 | | | 70 (56) | 130 (174) | |
| | trans-1,2-Dichloroethene | 20 | 18.9 | ug/Kg | 95 | | | 70 (80) | 130 (123) | |
| | 1,1-Dichloroethane | 20 | 19.7 | ug/Kg | 99 | | | 70 (82) | 130 (123) | |
| | Cyclohexane | 20 | 17.9 | ug/Kg | 90 | | | 70 (76) | 130 (122) | |
| | 2-Butanone | 100 | 95.3 | ug/Kg | 95 | | | 40 (69) | 160 (131) | |
| | Carbon Tetrachloride | 20 | 19.7 | ug/Kg | 99 | | | 70 (76) | 130 (129) | |
| | cis-1,2-Dichloroethene | 20 | 19.9 | ug/Kg | 100 | | | 70 (82) | 130 (123) | |
| | Bromochloromethane | 20 | 19.7 | ug/Kg | 99 | | | 70 (80) | 130 (127) | |
| | Chloroform | 20 | 19.7 | ug/Kg | 99 | | | 70 (82) | 130 (125) | |
| | 1,1,1-Trichloroethane | 20 | 19.6 | ug/Kg | 98 | | | 70 (80) | 130 (126) | |
| | Methylcyclohexane | 20 | 18.8 | ug/Kg | 94 | | | 70 (77) | 130 (123) | |
| | Benzene | 20 | 19.7 | ug/Kg | 99 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichloroethane | 20 | 19.8 | ug/Kg | 99 | | | 70 (81) | 130 (126) | |
| | Trichloroethene | 20 | 19.8 | ug/Kg | 99 | | | 70 (83) | 130 (122) | |
| | 1,2-Dichloropropane | 20 | 19.5 | ug/Kg | 98 | | | 70 (83) | 130 (122) | |
| | Bromodichloromethane | 20 | 20.0 | ug/Kg | 100 | | | 70 (82) | 130 (123) | |
| | 4-Methyl-2-Pentanone | 100 | 97.2 | ug/Kg | 97 | | | 40 (70) | 160 (135) | |
| | Toluene | 20 | 20.1 | ug/Kg | 101 | | | 70 (83) | 130 (122) | |
| | t-1,3-Dichloropropene | 20 | 19.4 | ug/Kg | 97 | | | 70 (78) | 130 (124) | |
| | cis-1,3-Dichloropropene | 20 | 19.9 | ug/Kg | 100 | | | 70 (81) | 130 (122) | |
| | 1,1,2-Trichloroethane | 20 | 20.1 | ug/Kg | 101 | | | 70 (82) | 130 (125) | |
| | 2-Hexanone | 100 | 97.2 | ug/Kg | 97 | | | 40 (66) | 160 (138) | |
| | Dibromochloromethane | 20 | 20.3 | ug/Kg | 102 | | | 70 (79) | 130 (125) | |
| | 1,2-Dibromoethane | 20 | 20.4 | ug/Kg | 102 | | | 70 (80) | 130 (125) | |
| | Tetrachloroethene | 20 | 22.1 | ug/Kg | 111 | | | 70 (83) | 130 (125) | |
| | Chlorobenzene | 20 | 19.8 | ug/Kg | 99 | | | 70 (84) | 130 (122) | |
| | Ethyl Benzene | 20 | 19.5 | ug/Kg | 98 | | | 70 (82) | 130 (124) | |
| | m/p-Xylenes | 40 | 39.5 | ug/Kg | 99 | | | 70 (83) | 130 (124) | |
| | o-Xylene | 20 | 20.0 | ug/Kg | 100 | | | 70 (83) | 130 (123) | |
| | Styrene | 20 | 19.8 | ug/Kg | 99 | | | 70 (82) | 130 (124) | |
| | Bromoform | 20 | 20.4 | ug/Kg | 102 | | | 70 (75) | 130 (127) | |
| | Isopropylbenzene | 20 | 19.0 | ug/Kg | 95 | | | 70 (82) | 130 (124) | |
| | 1,1,2,2-Tetrachloroethane | 20 | 17.9 | ug/Kg | 90 | | | 70 (77) | 130 (127) | |
| | 1,3-Dichlorobenzene | 20 | 19.4 | ug/Kg | 97 | | | 70 (83) | 130 (122) | |
| | 1,4-Dichlorobenzene | 20 | 19.5 | ug/Kg | 98 | | | 70 (84) | 130 (121) | |
| | 1,2-Dichlorobenzene | 20 | 20.1 | ug/Kg | 101 | | | 70 (83) | 130 (124) | |

( ) = LABORATORY INHOUSE LIMIT

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1761

**Client:** G Environmental

**Analytical Method:** SW8260D **Datafile :** VY021852.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0411SBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 20.9 | ug/Kg | 104 | | | 40 (66) | 160 (134) | |
| | 1,2,4-Trichlorobenzene | 20 | 21.1 | ug/Kg | 106 | | | 70 (78) | 130 (127) | |
| | 1,2,3-Trichlorobenzene | 20 | 21.4 | ug/Kg | 107 | | | 70 (70) | 130 (137) | |

( ) = LABORATORY INHOUSE LIMIT

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1761

**Client:** G Environmental

**Analytical Method:** SW8260D **Datafile :** VY021853.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0411SBSD01 | Dichlorodifluoromethane | 20 | 18.3 | ug/Kg | 92 | 3 | | 40 (64) | 160 (136) | 30 (20) |
| | Chloromethane | 20 | 16.4 | ug/Kg | 82 | 7 | | 40 (70) | 160 (130) | 30 (20) |
| | Vinyl chloride | 20 | 17.0 | ug/Kg | 85 | 1 | | 70 (72) | 130 (129) | 30 (20) |
| | Bromomethane | 20 | 17.5 | ug/Kg | 88 | 8 | | 40 (58) | 160 (141) | 30 (20) |
| | Chloroethane | 20 | 17.1 | ug/Kg | 86 | 5 | | 40 (69) | 160 (130) | 30 (20) |
| | Trichlorofluoromethane | 20 | 19.0 | ug/Kg | 95 | 2 | | 40 (69) | 160 (134) | 30 (20) |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 19.5 | ug/Kg | 98 | 0 | | 70 (81) | 130 (123) | 30 (20) |
| | 1,1-Dichloroethene | 20 | 19.8 | ug/Kg | 99 | 3 | | 70 (79) | 130 (121) | 30 (20) |
| | Acetone | 100 | 84.8 | ug/Kg | 85 | 16 | | 40 (60) | 160 (131) | 30 (20) |
| | Carbon disulfide | 20 | 17.9 | ug/Kg | 90 | 3 | | 40 (45) | 160 (154) | 30 (20) |
| | Methyl tert-butyl Ether | 20 | 19.6 | ug/Kg | 98 | 1 | | 70 (77) | 130 (129) | 30 (20) |
| | Methyl Acetate | 20 | 21.8 | ug/Kg | 109 | 5 | | 70 (69) | 130 (149) | 30 (20) |
| | Methylene Chloride | 20 | 20.4 | ug/Kg | 102 | 1 | | 70 (56) | 130 (174) | 30 (20) |
| | trans-1,2-Dichloroethene | 20 | 19.5 | ug/Kg | 98 | 3 | | 70 (80) | 130 (123) | 30 (20) |
| | 1,1-Dichloroethane | 20 | 19.9 | ug/Kg | 100 | 1 | | 70 (82) | 130 (123) | 30 (20) |
| | Cyclohexane | 20 | 18.2 | ug/Kg | 91 | 1 | | 70 (76) | 130 (122) | 30 (20) |
| | 2-Butanone | 100 | 90.6 | ug/Kg | 91 | 4 | | 40 (69) | 160 (131) | 30 (20) |
| | Carbon Tetrachloride | 20 | 20.2 | ug/Kg | 101 | 2 | | 70 (76) | 130 (129) | 30 (20) |
| | cis-1,2-Dichloroethene | 20 | 20.2 | ug/Kg | 101 | 1 | | 70 (82) | 130 (123) | 30 (20) |
| | Bromochloromethane | 20 | 18.0 | ug/Kg | 90 | 10 | | 70 (80) | 130 (127) | 30 (20) |
| | Chloroform | 20 | 20.0 | ug/Kg | 100 | 1 | | 70 (82) | 130 (125) | 30 (20) |
| | 1,1,1-Trichloroethane | 20 | 20.1 | ug/Kg | 101 | 3 | | 70 (80) | 130 (126) | 30 (20) |
| | Methylcyclohexane | 20 | 19.1 | ug/Kg | 96 | 2 | | 70 (77) | 130 (123) | 30 (20) |
| | Benzene | 20 | 20.3 | ug/Kg | 102 | 3 | | 70 (84) | 130 (121) | 30 (20) |
| | 1,2-Dichloroethane | 20 | 19.6 | ug/Kg | 98 | 1 | | 70 (81) | 130 (126) | 30 (20) |
| | Trichloroethene | 20 | 20.9 | ug/Kg | 104 | 5 | | 70 (83) | 130 (122) | 30 (20) |
| | 1,2-Dichloropropane | 20 | 19.9 | ug/Kg | 100 | 2 | | 70 (83) | 130 (122) | 30 (20) |
| | Bromodichloromethane | 20 | 20.0 | ug/Kg | 100 | 0 | | 70 (82) | 130 (123) | 30 (20) |
| | 4-Methyl-2-Pentanone | 100 | 94.4 | ug/Kg | 94 | 3 | | 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 | 3 | | 70 (78) | 130 (124) | 30 (20) |
| | cis-1,3-Dichloropropene | 20 | 19.6 | ug/Kg | 98 | 2 | | 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 | 93.4 | ug/Kg | 93 | 4 | | 40 (66) | 160 (138) | 30 (20) |
| | Dibromochloromethane | 20 | 20.5 | ug/Kg | 103 | 1 | | 70 (79) | 130 (125) | 30 (20) |
| | 1,2-Dibromoethane | 20 | 19.9 | ug/Kg | 100 | 2 | | 70 (80) | 130 (125) | 30 (20) |
| | Tetrachloroethene | 20 | 22.4 | ug/Kg | 112 | 1 | | 70 (83) | 130 (125) | 30 (20) |
| | Chlorobenzene | 20 | 20.4 | ug/Kg | 102 | 3 | | 70 (84) | 130 (122) | 30 (20) |
| | Ethyl Benzene | 20 | 20.1 | ug/Kg | 101 | 3 | | 70 (82) | 130 (124) | 30 (20) |
| | m/p-Xylenes | 40 | 40.8 | ug/Kg | 102 | 3 | | 70 (83) | 130 (124) | 30 (20) |
| | o-Xylene | 20 | 20.5 | ug/Kg | 103 | 3 | | 70 (83) | 130 (123) | 30 (20) |
| | Styrene | 20 | 20.6 | ug/Kg | 103 | 4 | | 70 (82) | 130 (124) | 30 (20) |
| | Bromoform | 20 | 20.4 | ug/Kg | 102 | 0 | | 70 (75) | 130 (127) | 30 (20) |
| | Isopropylbenzene | 20 | 19.7 | ug/Kg | 99 | 4 | | 70 (82) | 130 (124) | 30 (20) |
| | 1,1,2,2-Tetrachloroethane | 20 | 18.0 | ug/Kg | 90 | 0 | | 70 (77) | 130 (127) | 30 (20) |
| | 1,3-Dichlorobenzene | 20 | 20.3 | ug/Kg | 102 | 5 | | 70 (83) | 130 (122) | 30 (20) |
| | 1,4-Dichlorobenzene | 20 | 20.2 | ug/Kg | 101 | 3 | | 70 (84) | 130 (121) | 30 (20) |
| | 1,2-Dichlorobenzene | 20 | 20.1 | ug/Kg | 101 | 0 | | 70 (83) | 130 (124) | 30 (20) |

( ) = LABORATORY INHOUSE LIMIT

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1761

**Client:** G Environmental

**Analytical Method:** SW8260D **Datafile :** VY021853.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0411SBSD01 | 1,2-Dibromo-3-Chloropropane | 20 | 19.9 | ug/Kg | 100 | 4 | | 40 (66) | 160 (134) | 30 (20) |
| | 1,2,4-Trichlorobenzene | 20 | 21.9 | ug/Kg | 110 | 4 | | 70 (78) | 130 (127) | 30 (20) |
| | 1,2,3-Trichlorobenzene | 20 | 22.5 | ug/Kg | 113 | 5 | | 70 (70) | 130 (137) | 30 (20) |

( ) = LABORATORY INHOUSE LIMIT

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0411SBL01

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q1761 SAS No.: Q1761 SDG NO.: Q1761

Lab File ID: VY021851.D Lab Sample ID: VY0411SBL01

Date Analyzed: 04/11/2025 Time Analyzed: 11:35

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

Instrument ID: MSVOA_Y

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VY0411SBS01 | VY0411SBS01 | VY021852.D | 04/11/2025 |
| VY0411SBSD01 | VY0411SBSD01 | VY021853.D | 04/11/2025 |
| GST3 | Q1761-01 | VY021855.D | 04/11/2025 |

COMMENTS:

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

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q1761 SAS No.: Q1761 SDG NO.: Q1761

Lab File ID: VY021655.D BFB Injection Date: 03/27/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:23

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 20.4 |
| 75 | 30.0 - 60.0% of mass 95 | 53 |
| 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 | 1.7 ( 2 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 86.7 |
| 175 | 5.0 - 9.0% of mass 174 | 6.6 ( 7.6 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 82.9 ( 95.6 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.6 ( 6.8 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC005 | VSTDICC005 | VY021656.D | 03/27/2025 | 10:08 |
| VSTDICC010 | VSTDICC010 | VY021657.D | 03/27/2025 | 10:31 |
| VSTDICC020 | VSTDICC020 | VY021658.D | 03/27/2025 | 10:54 |
| VSTDICCC050 | VSTDICCC050 | VY021659.D | 03/27/2025 | 11:16 |
| VSTDICC100 | VSTDICC100 | VY021660.D | 03/27/2025 | 11:39 |
| VSTDICC150 | VSTDICC150 | VY021661.D | 03/27/2025 | 12:02 |

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

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q1761 SAS No.: Q1761 SDG NO.: Q1761

Lab File ID: VY021849.D BFB Injection Date: 04/11/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:46

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 | 19.3 |
| 75 | 30.0 - 60.0% of mass 95 | 52 |
| 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 | 1.2 ( 1.4 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 87 |
| 175 | 5.0 - 9.0% of mass 174 | 6.6 ( 7.6 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 82.8 ( 95.1 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.6 ( 6.8 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY021850.D | 04/11/2025 | 09:18 |
| VY0411SBL01 | VY0411SBL01 | VY021851.D | 04/11/2025 | 11:35 |
| VY0411SBS01 | VY0411SBS01 | VY021852.D | 04/11/2025 | 12:06 |
| VY0411SBSD01 | VY0411SBSD01 | VY021853.D | 04/11/2025 | 12:28 |
| GST3 | Q1761-01 | VY021855.D | 04/11/2025 | 13:33 |

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q1761 SAS No.: Q1761 SDG NO.: Q1761

Lab File ID: VY021850.D Date Analyzed: 04/11/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:18

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 | 297119 | 7.71 | 443480 | 8.62 | 386894 | 11.42 |
| UPPER LIMIT | 594238 | 8.207 | 886960 | 9.115 | 773788 | 11.92 |
| LOWER LIMIT | 148560 | 7.207 | 221740 | 8.115 | 193447 | 10.92 |
| EPA SAMPLE NO. | | | | | | |
| GST3 | 317324 | 7.71 | 560087 | 8.62 | 469329 | 11.42 |
| VY0411SBL01 | 321354 | 7.71 | 579974 | 8.62 | 477999 | 11.42 |
| VY0411SBS01 | 261639 | 7.71 | 412441 | 8.62 | 367570 | 11.42 |
| VY0411SBSD01 | 261813 | 7.71 | 409914 | 8.62 | 362626 | 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: GENV01

Lab Code: CHEM Case No.: Q1761 SAS No.: Q1761 SDG NO.: Q1761

Lab File ID: VY021850.D Date Analyzed: 04/11/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:18

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 196263 | 13.346 | | | | |
| UPPER LIMIT | 392526 | 13.846 | | | | |
| LOWER LIMIT | 98131.5 | 12.846 | | | | |
| EPA SAMPLE NO. | | | | | | |
| GST3 | 180059 | 13.35 | | | | |
| VY0411SBL01 | 174550 | 13.35 | | | | |
| VY0411SBS01 | 190311 | 13.35 | | | | |
| VY0411SBSD01 | 188335 | 13.35 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

# QC SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | |
| Project: | Stockton | Date Received: | |
| Client Sample ID: | VY0411SBL01 | SDG No.: | Q1761 |
| Lab Sample ID: | VY0411SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021851.D | 1 | | 04/11/25 11:35 | VY041125 |

| 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 |

Raw Data: **VY021851.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | |
| Project: | Stockton | Date Received: | |
| Client Sample ID: | VY0411SBL01 | SDG No.: | Q1761 |
| Lab Sample ID: | VY0411SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021851.D | 1 | | 04/11/25 11:35 | VY041125 |

| 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 | 47.0 | | 70 (63) - 130 (155) | 94% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.2 | | 70 (70) - 130 (134) | 98% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.4 | | 70 (74) - 130 (123) | 95% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 39.1 | | 70 (38) - 130 (136) | 78% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 321000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 580000 | 8.615 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 478000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 175000 | 13.352 | | | |

Raw Data: **VY021851.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | |
| Project: | Stockton | Date Received: | |
| Client Sample ID: | VY0411SBL01 | SDG No.: | Q1761 |
| Lab Sample ID: | VY0411SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021851.D | 1 | | 04/11/25 11:35 | VY041125 |

| 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: | G Environmental | Date Collected: | |
| Project: | Stockton | Date Received: | |
| Client Sample ID: | VY0411SBS01 | SDG No.: | Q1761 |
| Lab Sample ID: | VY0411SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021852.D | 1 | | 04/11/25 12:06 | VY041125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 17.7 | | 1.10 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 17.5 | | 1.10 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 17.2 | | 0.79 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 18.9 | | 1.10 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 18.0 | | 1.30 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 18.6 | | 1.20 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 19.6 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 19.1 | | 1.00 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 100 | | 4.70 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 17.4 | | 1.10 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 19.8 | | 0.73 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 20.7 | | 1.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 20.1 | | 3.50 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 18.9 | | 0.86 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 19.7 | | 0.80 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 17.9 | | 0.79 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 95.3 | | 6.50 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 19.7 | | 0.97 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 19.9 | | 0.75 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 19.7 | | 1.20 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 19.7 | | 0.84 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 19.6 | | 0.93 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 18.8 | | 0.91 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 19.7 | | 0.79 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 19.8 | | 0.79 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 19.8 | | 0.81 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 19.5 | | 0.91 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.0 | | 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 | 20.1 | | 0.78 | 5.00 | ug/Kg |

Raw Data: **VY021852.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | |
| Project: | Stockton | Date Received: | |
| Client Sample ID: | VY0411SBS01 | SDG No.: | Q1761 |
| Lab Sample ID: | VY0411SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021852.D | 1 | | 04/11/25 12:06 | VY041125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 19.4 | | 0.65 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 19.9 | | 0.62 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 20.1 | | 0.92 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 97.2 | | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 20.3 | | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 20.4 | | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 22.1 | | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 19.8 | | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 19.5 | | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 39.5 | | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 20.0 | | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 19.8 | | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 20.4 | | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 19.0 | | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 17.9 | | 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 | 19.5 | | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 20.1 | | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 20.9 | | 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 | 21.4 | | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.3 | | 70 (63) - 130 (155) | 105% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.2 | | 70 (70) - 130 (134) | 106% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 53.8 | | 70 (74) - 130 (123) | 108% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 55.3 | | 70 (38) - 130 (136) | 111% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 262000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 412000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 368000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 190000 | 13.347 | | | |

Raw Data: **VY021852.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | |
| Project: | Stockton | Date Received: | |
| Client Sample ID: | VY0411SBS01 | SDG No.: | Q1761 |
| Lab Sample ID: | VY0411SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021852.D | 1 | | 04/11/25 12:06 | VY041125 |

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

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

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | |
| Project: | Stockton | Date Received: | |
| Client Sample ID: | VY0411SBSD01 | SDG No.: | Q1761 |
| Lab Sample ID: | VY0411SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021853.D | 1 | | 04/11/25 12:28 | VY041125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 18.3 | | 1.10 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 16.4 | | 1.10 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 17.0 | | 0.79 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 17.5 | | 1.10 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 17.1 | | 1.30 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 19.0 | | 1.20 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 19.5 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 19.8 | | 1.00 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 84.8 | | 4.70 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 17.9 | | 1.10 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 19.6 | | 0.73 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 21.8 | | 1.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 20.4 | | 3.50 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 19.5 | | 0.86 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 19.9 | | 0.80 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 18.2 | | 0.79 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 90.6 | | 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 | 20.2 | | 0.75 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 18.0 | | 1.20 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 20.0 | | 0.84 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 20.1 | | 0.93 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 19.1 | | 0.91 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 20.3 | | 0.79 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 19.6 | | 0.79 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 20.9 | | 0.81 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 19.9 | | 0.91 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.0 | | 0.78 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 94.4 | | 3.60 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 20.5 | | 0.78 | 5.00 | ug/Kg |

Raw Data: **VY021853.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | |
| Project: | Stockton | Date Received: | |
| Client Sample ID: | VY0411SBSD01 | SDG No.: | Q1761 |
| Lab Sample ID: | VY0411SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021853.D | 1 | | 04/11/25 12:28 | VY041125 |

| 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 | 19.6 | | 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 | 93.4 | | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 20.5 | | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 19.9 | | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 22.4 | | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 20.4 | | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 20.1 | | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 40.8 | | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 20.5 | | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 20.6 | | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 20.4 | | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 19.7 | | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 18.0 | | 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 | 20.1 | | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 19.9 | | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 21.9 | | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 22.5 | | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.6 | | 70 (63) - 130 (155) | 101% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.9 | | 70 (70) - 130 (134) | 108% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 53.1 | | 70 (74) - 130 (123) | 106% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 54.5 | | 70 (38) - 130 (136) | 109% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 262000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 410000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 363000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 188000 | 13.347 | | | |

Raw Data: **VY021853.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | G Environmental | Date Collected: | |
| Project: | Stockton | Date Received: | |
| Client Sample ID: | VY0411SBSD01 | SDG No.: | Q1761 |
| Lab Sample ID: | VY0411SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY021853.D | 1 | | 04/11/25 12:28 | VY041125 |

| 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,
Fax : 908 789 8922

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q1761 SAS No.: Q1761 SDG No.: Q1761

Instrument ID: MSVOA_Y Calibration Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:08 12:02

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

LAB FILE ID: RRF005 = VY021656.D RRF010 = VY021657.D RRF020 = VY021658.D
RRF050 = VY021659.D RRF100 = VY021660.D RRF150 = VY021661.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.602 | 0.577 | 0.493 | 0.506 | 0.485 | 0.447 | 0.518 | 11.4 |
| Chloromethane | 0.876 | 0.775 | 0.713 | 0.692 | 0.672 | 0.644 | 0.729 | 11.6 |
| Vinyl Chloride | 0.977 | 0.886 | 0.810 | 0.800 | 0.758 | 0.714 | 0.824 | 11.5 |
| Bromomethane | 0.709 | 0.613 | 0.537 | 0.513 | 0.494 | 0.506 | 0.562 | 14.9 |
| Chloroethane | 0.644 | 0.570 | 0.544 | 0.512 | 0.490 | 0.476 | 0.539 | 11.5 |
| Trichlorofluoromethane | 1.212 | 1.124 | 1.104 | 1.013 | 0.967 | 0.914 | 1.056 | 10.5 |
| 1,1,2-Trichlorotrifluoroethane | 0.668 | 0.601 | 0.553 | 0.536 | 0.510 | 0.473 | 0.557 | 12.4 |
| 1,1-Dichloroethene | 0.589 | 0.564 | 0.508 | 0.514 | 0.496 | 0.477 | 0.524 | 8.2 |
| Acetone | 0.145 | 0.123 | 0.102 | 0.107 | 0.087 | 0.102 | 0.111 | 18.3 |
| Carbon Disulfide | 1.956 | 1.828 | 1.709 | 1.696 | 1.623 | 1.552 | 1.727 | 8.4 |
| Methyl tert-butyl Ether | 1.380 | 1.335 | 1.247 | 1.325 | 1.256 | 1.292 | 1.306 | 3.9 |
| Methyl Acetate | 0.329 | 0.286 | 0.269 | 0.265 | 0.243 | 0.257 | 0.275 | 11 |
| Methylene Chloride | 0.870 | 0.694 | 0.594 | 0.564 | 0.518 | 0.514 | 0.626 | 21.8 |
| trans-1,2-Dichloroethene | 0.634 | 0.608 | 0.568 | 0.567 | 0.551 | 0.536 | 0.577 | 6.3 |
| 1,1-Dichloroethane | 1.178 | 1.091 | 1.024 | 1.040 | 0.992 | 0.968 | 1.049 | 7.3 |
| Cyclohexane | 1.170 | 1.032 | 0.912 | 0.918 | 0.886 | 0.818 | 0.956 | 13.1 |
| 2-Butanone | 0.181 | 0.166 | 0.149 | 0.159 | 0.140 | 0.155 | 0.158 | 8.9 |
| Carbon Tetrachloride | 0.637 | 0.594 | 0.546 | 0.564 | 0.547 | 0.507 | 0.566 | 7.9 |
| cis-1,2-Dichloroethene | 0.700 | 0.658 | 0.626 | 0.652 | 0.631 | 0.629 | 0.649 | 4.3 |
| Bromochloromethane | 0.513 | 0.470 | 0.424 | 0.426 | 0.420 | 0.402 | 0.442 | 9.3 |
| Chloroform | 1.235 | 1.141 | 1.062 | 1.081 | 1.026 | 1.000 | 1.091 | 7.9 |
| 1,1,1-Trichloroethane | 1.155 | 1.013 | 0.959 | 0.967 | 0.929 | 0.893 | 0.986 | 9.3 |
| Methylcyclohexane | 0.593 | 0.599 | 0.569 | 0.619 | 0.612 | 0.550 | 0.590 | 4.5 |
| Benzene | 1.606 | 1.527 | 1.429 | 1.499 | 1.445 | 1.371 | 1.479 | 5.6 |
| 1,2-Dichloroethane | 0.467 | 0.445 | 0.399 | 0.420 | 0.392 | 0.379 | 0.417 | 8.1 |
| Trichloroethene | 0.412 | 0.398 | 0.362 | 0.374 | 0.366 | 0.348 | 0.377 | 6.4 |
| 1,2-Dichloropropane | 0.383 | 0.366 | 0.334 | 0.353 | 0.340 | 0.325 | 0.350 | 6.2 |
| Bromodichloromethane | 0.571 | 0.546 | 0.504 | 0.525 | 0.508 | 0.484 | 0.523 | 6 |
| 4-Methyl-2-Pentanone | 0.232 | 0.240 | 0.219 | 0.241 | 0.222 | 0.226 | 0.230 | 3.9 |
| Toluene | 0.940 | 0.943 | 0.893 | 0.951 | 0.928 | 0.885 | 0.923 | 3 |

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

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Fax : 908 789 8922

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q1761 SAS No.: Q1761 SDG No.: Q1761

Instrument ID: MSVOA_Y Calibration Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:08 12:02

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

LAB FILE ID: RRF005 = VY021656.D RRF010 = VY021657.D RRF020 = VY021658.D
RRF050 = VY021659.D RRF100 = VY021660.D RRF150 = VY021661.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.456 | 0.470 | 0.439 | 0.486 | 0.475 | 0.461 | 0.465 | 3.5 |
| cis-1,3-Dichloropropene | 0.553 | 0.558 | 0.528 | 0.565 | 0.549 | 0.534 | 0.548 | 2.6 |
| 1,1,2-Trichloroethane | 0.280 | 0.283 | 0.249 | 0.261 | 0.247 | 0.240 | 0.260 | 6.9 |
| 2-Hexanone | 0.154 | 0.154 | 0.144 | 0.164 | 0.148 | 0.154 | 0.153 | 4.2 |
| Dibromochloromethane | 0.371 | 0.367 | 0.340 | 0.364 | 0.348 | 0.337 | 0.355 | 4.1 |
| 1,2-Dibromoethane | 0.267 | 0.250 | 0.230 | 0.254 | 0.233 | 0.229 | 0.244 | 6.3 |
| Tetrachloroethene | 0.534 | 0.503 | 0.453 | 0.449 | 0.412 | 0.382 | 0.455 | 12.3 |
| Chlorobenzene | 1.244 | 1.178 | 1.110 | 1.155 | 1.116 | 1.073 | 1.146 | 5.3 |
| Ethyl Benzene | 1.949 | 1.916 | 1.918 | 2.051 | 2.023 | 1.935 | 1.965 | 2.9 |
| m/p-Xylenes | 0.726 | 0.753 | 0.744 | 0.787 | 0.774 | 0.731 | 0.753 | 3.2 |
| o-Xylene | 0.665 | 0.670 | 0.676 | 0.738 | 0.725 | 0.694 | 0.695 | 4.4 |
| Styrene | 1.064 | 1.110 | 1.134 | 1.232 | 1.229 | 1.181 | 1.158 | 5.8 |
| Bromoform | 0.241 | 0.239 | 0.229 | 0.237 | 0.225 | 0.221 | 0.232 | 3.4 |
| Isopropylbenzene | 3.628 | 3.701 | 3.582 | 3.826 | 3.843 | 3.702 | 3.714 | 2.8 |
| 1,1,2,2-Tetrachloroethane | 0.764 | 0.720 | 0.616 | 0.657 | 0.619 | 0.631 | 0.668 | 9.1 |
| 1,3-Dichlorobenzene | 1.895 | 1.774 | 1.707 | 1.748 | 1.728 | 1.689 | 1.757 | 4.2 |
| 1,4-Dichlorobenzene | 1.876 | 1.794 | 1.704 | 1.741 | 1.673 | 1.626 | 1.736 | 5.2 |
| 1,2-Dichlorobenzene | 1.598 | 1.607 | 1.496 | 1.524 | 1.486 | 1.465 | 1.529 | 3.9 |
| 1,2-Dibromo-3-Chloropropane | 0.112 | 0.111 | 0.097 | 0.102 | 0.096 | 0.102 | 0.103 | 6.6 |
| 1,2,4-Trichlorobenzene | 0.771 | 0.781 | 0.787 | 0.878 | 0.870 | 0.889 | 0.829 | 6.6 |
| 1,2,3-Trichlorobenzene | 0.653 | 0.681 | 0.673 | 0.746 | 0.737 | 0.753 | 0.707 | 6.1 |
| 1,2-Dichloroethane-d4 | 0.612 | 0.559 | 0.502 | 0.548 | 0.510 | 0.520 | 0.542 | 7.5 |
| Dibromofluoromethane | 0.357 | 0.321 | 0.290 | 0.339 | 0.325 | 0.313 | 0.324 | 7 |
| Toluene-d8 | 1.277 | 1.240 | 1.127 | 1.306 | 1.252 | 1.201 | 1.234 | 5.1 |
| 4-Bromofluorobenzene | 0.447 | 0.410 | 0.378 | 0.439 | 0.424 | 0.407 | 0.417 | 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.

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

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q1761 SAS No.: Q1761 SDG No.: Q1761

Instrument ID: MSVOA_Y Calibration Date/Time: 04/11/2025 09:18

Lab File ID: VY021850.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:08 12:02

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.518 | 0.500 | | -3.47 | 20 |
| Chloromethane | 0.729 | 0.591 | 0.1 | -18.93 | 20 |
| Vinyl Chloride | 0.824 | 0.724 | | -12.14 | 20 |
| Bromomethane | 0.562 | 0.463 | | -17.62 | 20 |
| Chloroethane | 0.539 | 0.483 | | -10.39 | 20 |
| Trichlorofluoromethane | 1.056 | 1.051 | | -0.47 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.557 | 0.581 | | 4.31 | 20 |
| 1,1-Dichloroethene | 0.524 | 0.541 | | 3.24 | 20 |
| Acetone | 0.111 | 0.094 | | -15.31 | 20 |
| Carbon Disulfide | 1.727 | 1.635 | | -5.33 | 20 |
| Methyl tert-butyl Ether | 1.306 | 1.320 | | 1.07 | 20 |
| Methyl Acetate | 0.275 | 0.290 | | 5.45 | 20 |
| Methylene Chloride | 0.626 | 0.581 | | -7.19 | 20 |
| trans-1,2-Dichloroethene | 0.577 | 0.594 | | 2.95 | 20 |
| 1,1-Dichloroethane | 1.049 | 1.065 | 0.1 | 1.52 | 20 |
| Cyclohexane | 0.956 | 0.919 | | -3.87 | 20 |
| 2-Butanone | 0.158 | 0.139 | | -12.02 | 20 |
| Carbon Tetrachloride | 0.566 | 0.635 | | 12.19 | 20 |
| cis-1,2-Dichloroethene | 0.649 | 0.680 | | 4.78 | 20 |
| Bromochloromethane | 0.442 | 0.405 | | -8.37 | 20 |
| Chloroform | 1.091 | 1.112 | | 1.92 | 20 |
| 1,1,1-Trichloroethane | 0.986 | 1.021 | | 3.55 | 20 |
| Methylcyclohexane | 0.590 | 0.661 | | 12.03 | 20 |
| Benzene | 1.479 | 1.585 | | 7.17 | 20 |
| 1,2-Dichloroethane | 0.417 | 0.424 | | 1.68 | 20 |
| Trichloroethene | 0.377 | 0.432 | | 14.59 | 20 |
| 1,2-Dichloropropane | 0.350 | 0.373 | | 6.57 | 20 |
| Bromodichloromethane | 0.523 | 0.552 | | 5.55 | 20 |
| 4-Methyl-2-Pentanone | 0.230 | 0.221 | | -3.91 | 20 |
| Toluene | 0.923 | 1.019 | | 10.4 | 20 |
| t-1,3-Dichloropropene | 0.465 | 0.489 | | 5.16 | 20 |
| cis-1,3-Dichloropropene | 0.548 | 0.585 | | 6.75 | 20 |
| 1,1,2-Trichloroethane | 0.260 | 0.270 | | 3.85 | 20 |
| 2-Hexanone | 0.153 | 0.146 | | -4.57 | 20 |
| Dibromochloromethane | 0.355 | 0.384 | | 8.17 | 20 |
| 1,2-Dibromoethane | 0.244 | 0.260 | | 6.56 | 20 |
| Tetrachloroethene | 0.455 | 0.571 | | 25.5 | 20 |
| Chlorobenzene | 1.146 | 1.268 | 0.3 | 10.65 | 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: GENV01

Lab Code: CHEM Case No.: Q1761 SAS No.: Q1761 SDG No.: Q1761

Instrument ID: MSVOA_Y Calibration Date/Time: 04/11/2025 09:18

Lab File ID: VY021850.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:08 12:02

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.965 | 2.263 | | 15.16 | 20 |
| m/p-Xylenes | 0.753 | 0.863 | | 14.61 | 20 |
| o-Xylene | 0.695 | 0.813 | | 16.98 | 20 |
| Styrene | 1.158 | 1.347 | | 16.32 | 20 |
| Bromoform | 0.232 | 0.254 | 0.1 | 9.48 | 20 |
| Isopropylbenzene | 3.714 | 4.282 | | 15.29 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.668 | 0.611 | 0.3 | -8.53 | 20 |
| 1,3-Dichlorobenzene | 1.757 | 1.945 | | 10.7 | 20 |
| 1,4-Dichlorobenzene | 1.736 | 1.895 | | 9.16 | 20 |
| 1,2-Dichlorobenzene | 1.529 | 1.699 | | 11.12 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.103 | 0.103 | | 0 | 20 |
| 1,2,4-Trichlorobenzene | 0.829 | 1.048 | | 26.42 | 20 |
| 1,2,3-Trichlorobenzene | 0.707 | 0.882 | | 24.75 | 20 |
| 1,2-Dichloroethane-d4 | 0.542 | 0.511 | | -5.72 | 20 |
| Dibromofluoromethane | 0.324 | 0.349 | | 7.72 | 20 |
| Toluene-d8 | 1.234 | 1.339 | | 8.51 | 20 |
| 4-Bromofluorobenzene | 0.417 | 0.461 | | 10.55 | 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\VY041125\
Data File : VY021855.D
Acq On : 11 Apr 2025 13:33
Operator : SY/MD
Sample : Q1761-01
Misc : 7.82g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GST3

Quant Time: Apr 12 02:48:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 317324 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 560087 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 469329 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 180059 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 160307 | 46.626 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 93.260% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 180049 | 49.557 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 99.120% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 662731 | 47.948 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 95.900% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 189531 | 40.540 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 81.080% | | | |

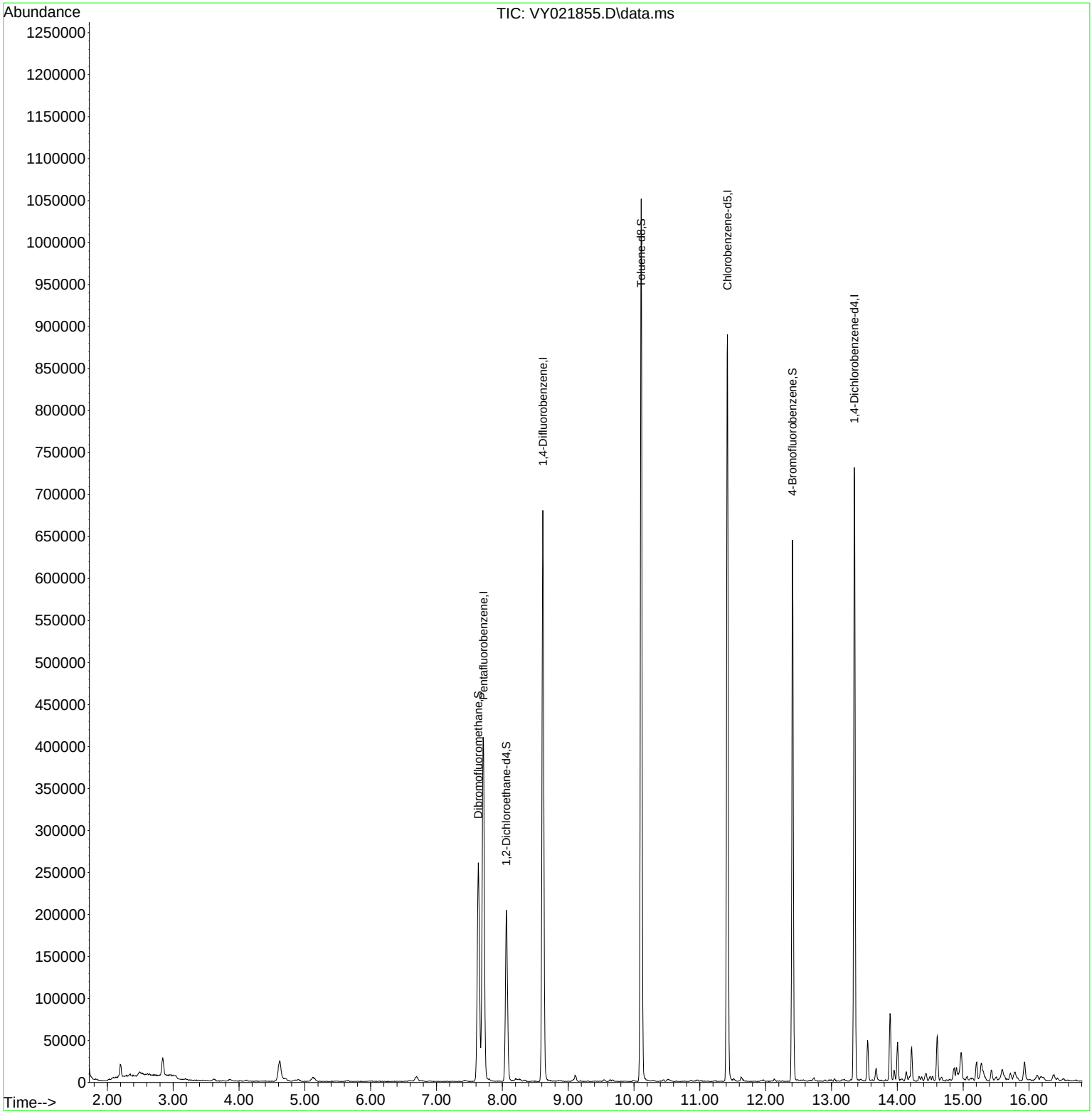
Target Compounds Qvalue

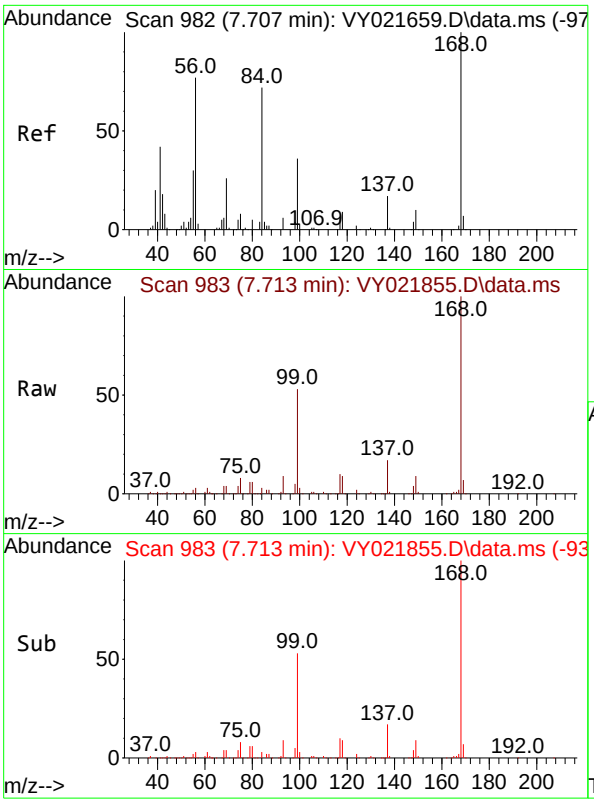
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021855.D
Acq On : 11 Apr 2025 13:33
Operator : SY/MD
Sample : Q1761-01
Misc : 7.82g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GST3

Quant Time: Apr 12 02:48:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



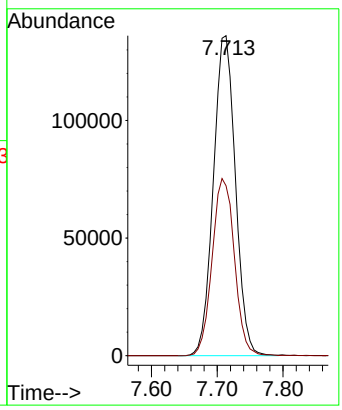


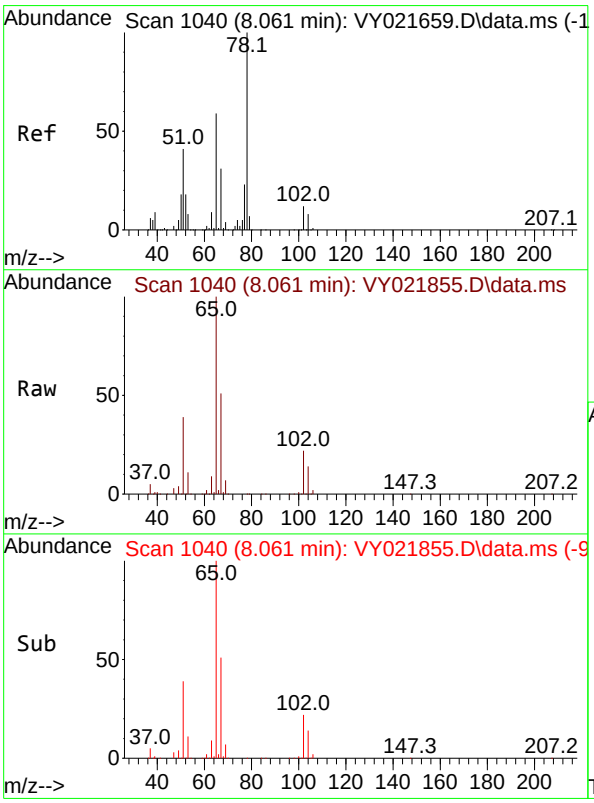

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021855.D
Acq: 11 Apr 2025 13:33

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GST3

Tgt Ion:168 Resp: 317324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.1 | 46.7 | 70.1 |

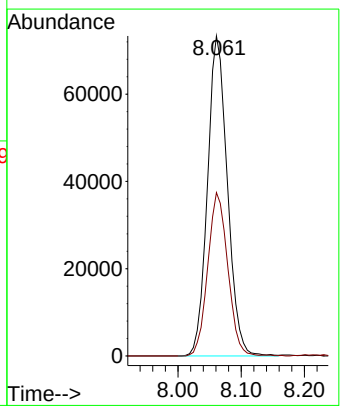


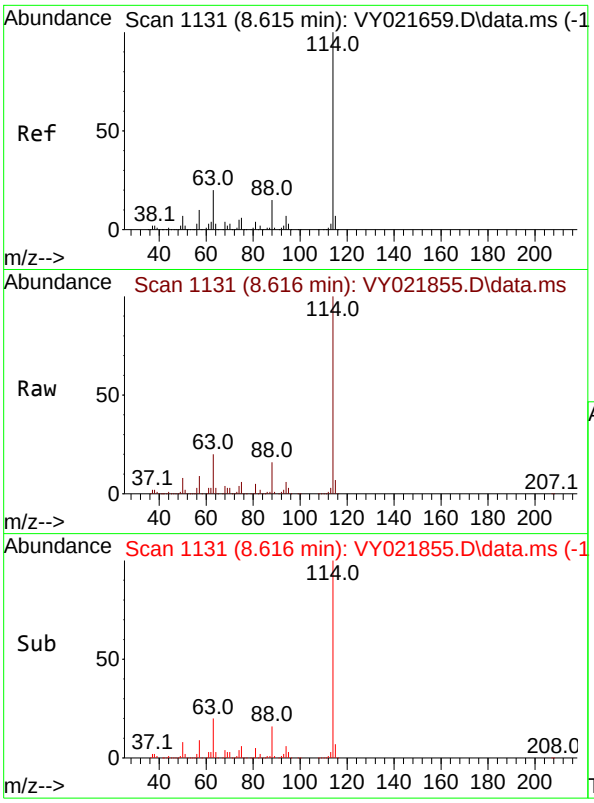




#33
1,2-Dichloroethane-d4
Concen: 46.626 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021855.D
Acq: 11 Apr 2025 13:33

Tgt Ion: 65 Resp: 160307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.4 | 0.0 | 104.6 |



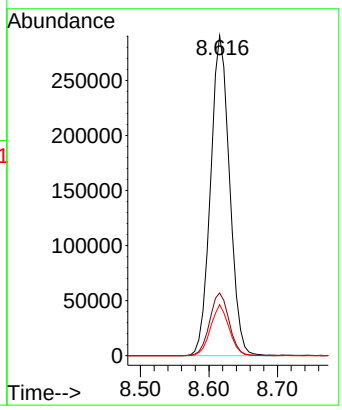


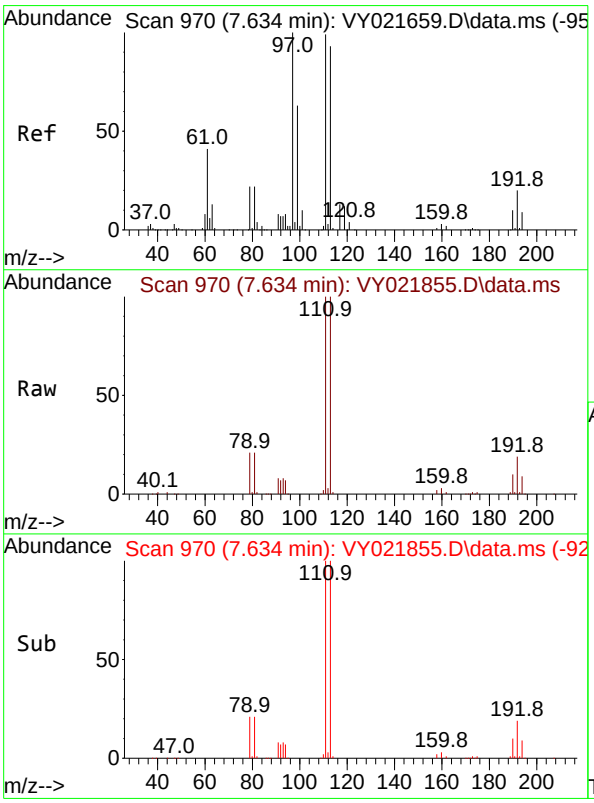

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021855.D
Acq: 11 Apr 2025 13:33

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GST3

Tgt Ion:114 Resp: 560087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.6 | 0.0 | 40.2 |
| 88 | 16.0 | 0.0 | 29.8 |

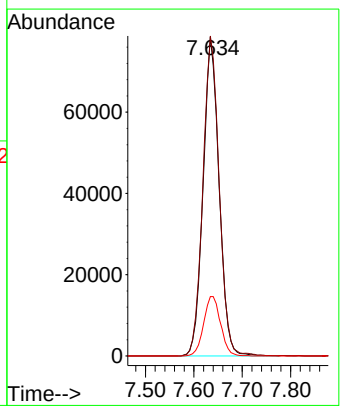


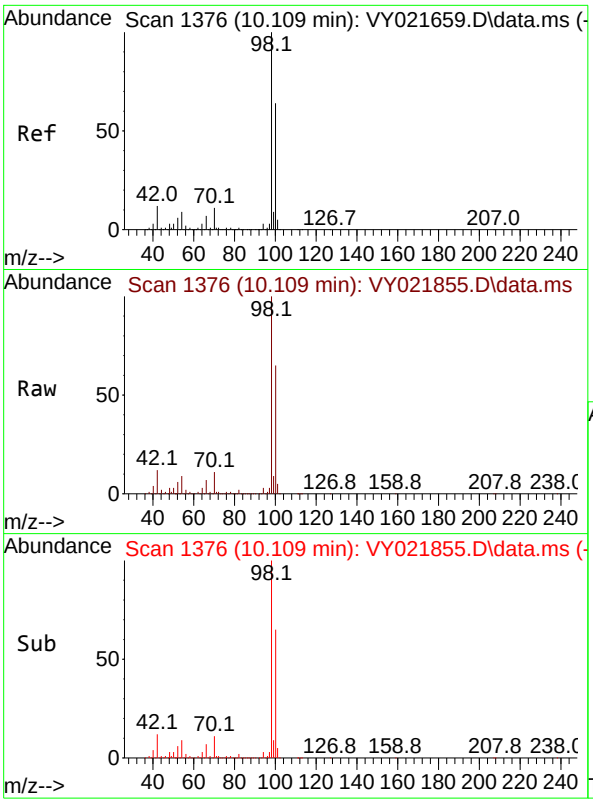




#35
Dibromofluoromethane
Concen: 49.557 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021855.D
Acq: 11 Apr 2025 13:33

Tgt Ion:113 Resp: 180049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.4 | 82.6 | 123.8 |
| 192 | 19.7 | 16.2 | 24.4 |



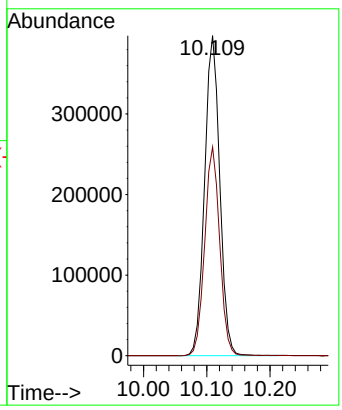


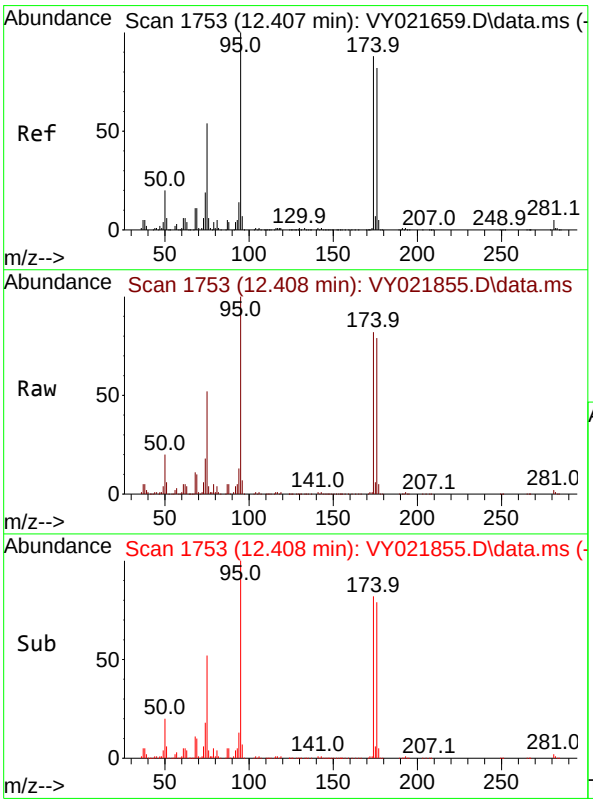

#50
Toluene-d8
Concen: 47.948 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021855.D
Acq: 11 Apr 2025 13:33

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GST3

Tgt Ion: 98 Resp: 662731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.5 | 52.1 | 78.1 |

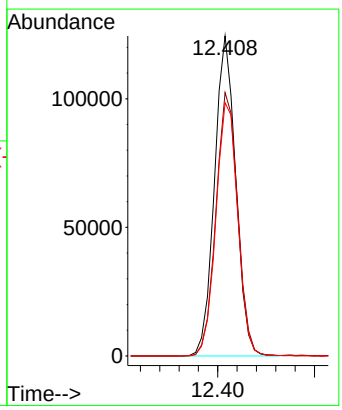


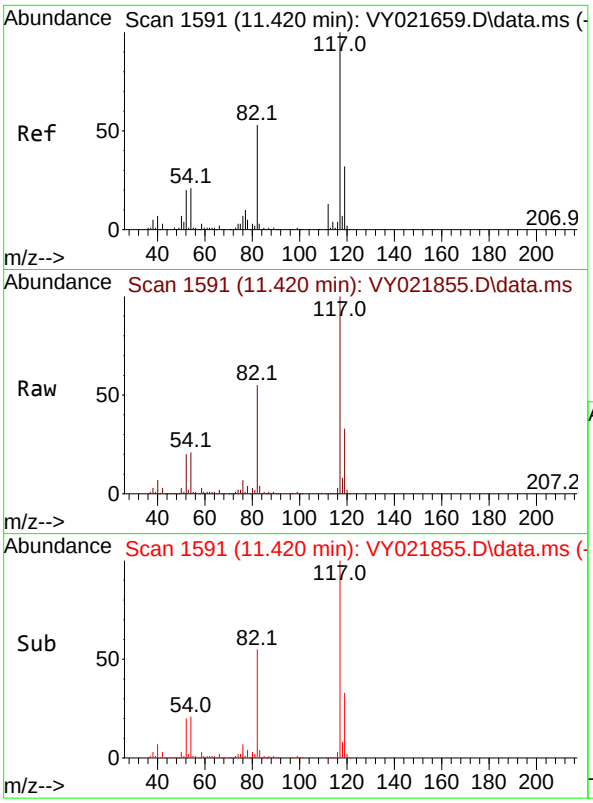




#62
4-Bromofluorobenzene
Concen: 40.540 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021855.D
Acq: 11 Apr 2025 13:33

Tgt Ion: 95 Resp: 189531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.6 | 0.0 | 170.8 |
| 176 | 81.5 | 0.0 | 162.0 |



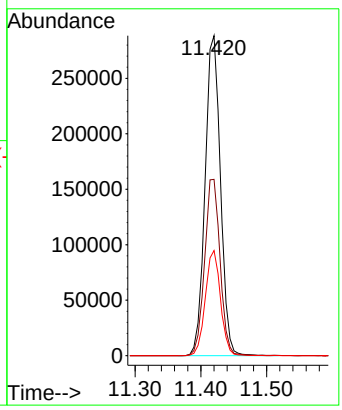


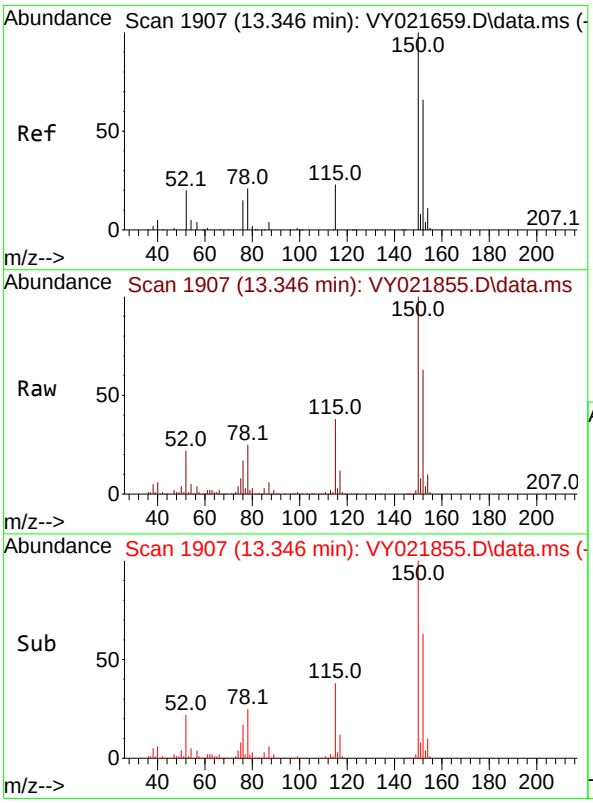

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021855.D
Acq: 11 Apr 2025 13:33

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GST3

Tgt Ion:117 Resp: 469329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.1 | 42.8 | 64.2 |
| 119 | 32.9 | 25.7 | 38.5 |

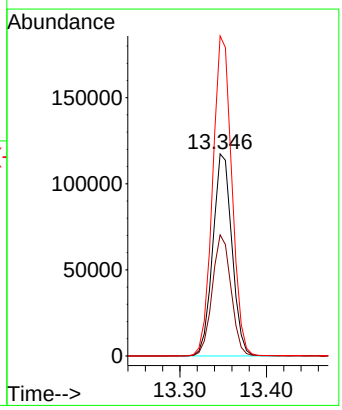



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021855.D
Acq: 11 Apr 2025 13:33

Tgt Ion:152 Resp: 180059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.0 | 28.8 | 86.5 |
| 150 | 158.4 | 0.0 | 348.4 |



LSC Area Percent Report

Sample Results: **VY021855.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021855.D
Acq On : 11 Apr 2025 13:33
Operator : SY/MD
Sample : Q1761-01
Misc : 7.82g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GST3

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\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021855.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.196 | 70 | 78 | 84 | rBV | 15916 | 30434 | 1.72% | 0.312% |
| 2 | 2.842 | 178 | 184 | 191 | rBV2 | 20153 | 40648 | 2.29% | 0.417% |
| 3 | 4.616 | 464 | 475 | 488 | rBV3 | 23977 | 82478 | 4.65% | 0.846% |
| 4 | 5.122 | 546 | 558 | 572 | rVB8 | 5206 | 20613 | 1.16% | 0.212% |
| 5 | 7.634 | 959 | 970 | 976 | rBV | 260364 | 606024 | 34.18% | 6.218% |
| 6 | 7.707 | 976 | 982 | 996 | rVB | 408015 | 951933 | 53.69% | 9.768% |
| 7 | 8.061 | 1030 | 1040 | 1053 | rBV | 203880 | 448622 | 25.30% | 4.603% |
| 8 | 8.616 | 1120 | 1131 | 1145 | rBV | 680272 | 1322317 | 74.59% | 13.568% |
| 9 | 9.103 | 1201 | 1211 | 1219 | rVB4 | 7375 | 17868 | 1.01% | 0.183% |
| 10 | 10.109 | 1368 | 1376 | 1390 | rBV | 1050917 | 1772888 | 100.00% | 18.191% |
| 11 | 11.420 | 1583 | 1591 | 1602 | rBV | 888800 | 1463214 | 82.53% | 15.014% |
| 12 | 12.408 | 1745 | 1753 | 1762 | rBV | 644802 | 1023946 | 57.76% | 10.507% |
| 13 | 13.346 | 1900 | 1907 | 1915 | rBV | 729312 | 1106480 | 62.41% | 11.353% |
| 14 | 13.548 | 1934 | 1940 | 1947 | rBV | 48391 | 76333 | 4.31% | 0.783% |
| 15 | 13.676 | 1955 | 1961 | 1971 | rBV4 | 14834 | 26925 | 1.52% | 0.276% |
| 16 | 13.889 | 1990 | 1996 | 2002 | rBV2 | 79973 | 132922 | 7.50% | 1.364% |
| 17 | 13.950 | 2002 | 2006 | 2010 | rVV3 | 11936 | 18677 | 1.05% | 0.192% |
| 18 | 14.005 | 2010 | 2015 | 2020 | rVB | 45156 | 67305 | 3.80% | 0.691% |
| 19 | 14.133 | 2030 | 2036 | 2041 | rBV3 | 10893 | 20011 | 1.13% | 0.205% |
| 20 | 14.218 | 2045 | 2050 | 2056 | rVB | 39195 | 59698 | 3.37% | 0.613% |
| 21 | 14.608 | 2107 | 2114 | 2119 | rBV | 53279 | 87991 | 4.96% | 0.903% |
| 22 | 14.864 | 2149 | 2156 | 2159 | rBV3 | 14640 | 28433 | 1.60% | 0.292% |
| 23 | 14.895 | 2159 | 2161 | 2165 | rVV | 14509 | 22655 | 1.28% | 0.232% |
| 24 | 14.968 | 2167 | 2173 | 2179 | rVB3 | 31557 | 68429 | 3.86% | 0.702% |
| 25 | 15.206 | 2206 | 2212 | 2216 | rBV2 | 21688 | 37065 | 2.09% | 0.380% |
| 26 | 15.279 | 2216 | 2224 | 2237 | rVB3 | 20450 | 63561 | 3.59% | 0.652% |
| 27 | 15.431 | 2243 | 2249 | 2254 | rBV | 13228 | 25470 | 1.44% | 0.261% |
| 28 | 15.590 | 2268 | 2275 | 2285 | rVB5 | 12090 | 34996 | 1.97% | 0.359% |
| 29 | 15.785 | 2301 | 2307 | 2312 | rBV5 | 8431 | 19907 | 1.12% | 0.204% |
| 30 | 15.931 | 2323 | 2331 | 2341 | rBV2 | 22076 | 48722 | 2.75% | 0.500% |
| 31 | 16.376 | 2397 | 2404 | 2410 | rBV9 | 7292 | 19235 | 1.08% | 0.197% |

Sum of corrected areas: 9745800

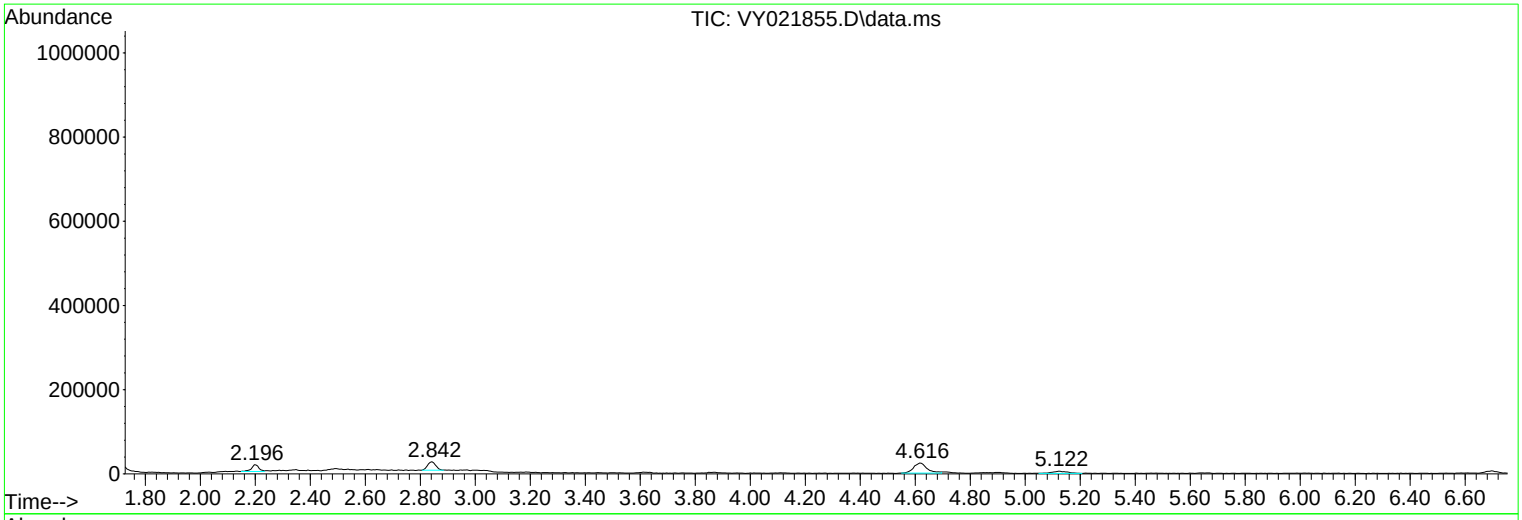
Sample Results: **VY021855.D**

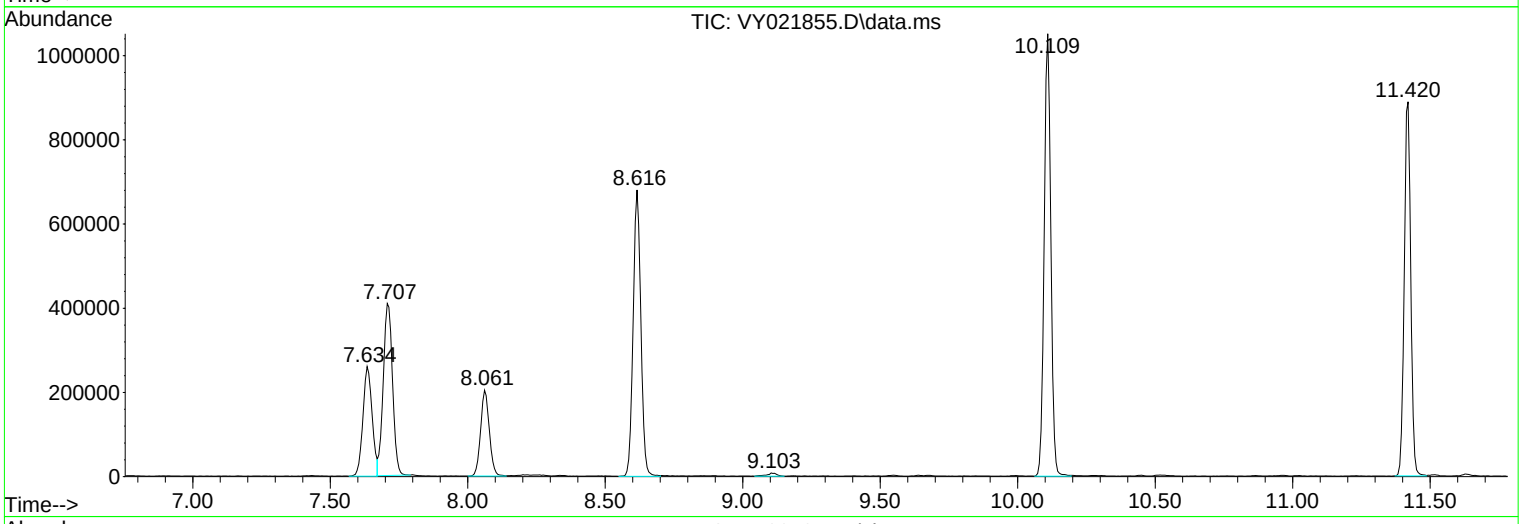
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021855.D
Acq On : 11 Apr 2025 13:33
Operator : SY/MD
Sample : Q1761-01
Misc : 7.82g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

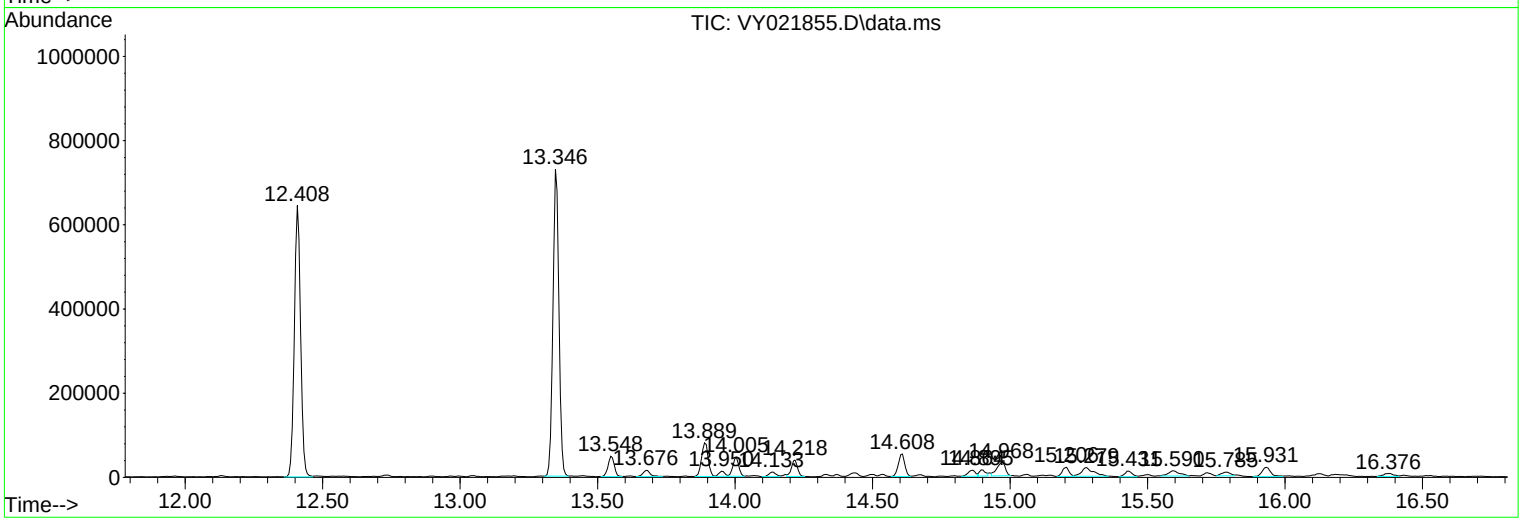
**Instrument :**
MSVOA_Y
**ClientSampleId :**
GST3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021855.D
Acq On : 11 Apr 2025 13:33
Operator : SY/MD
Sample : Q1761-01
Misc : 7.82g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GST3

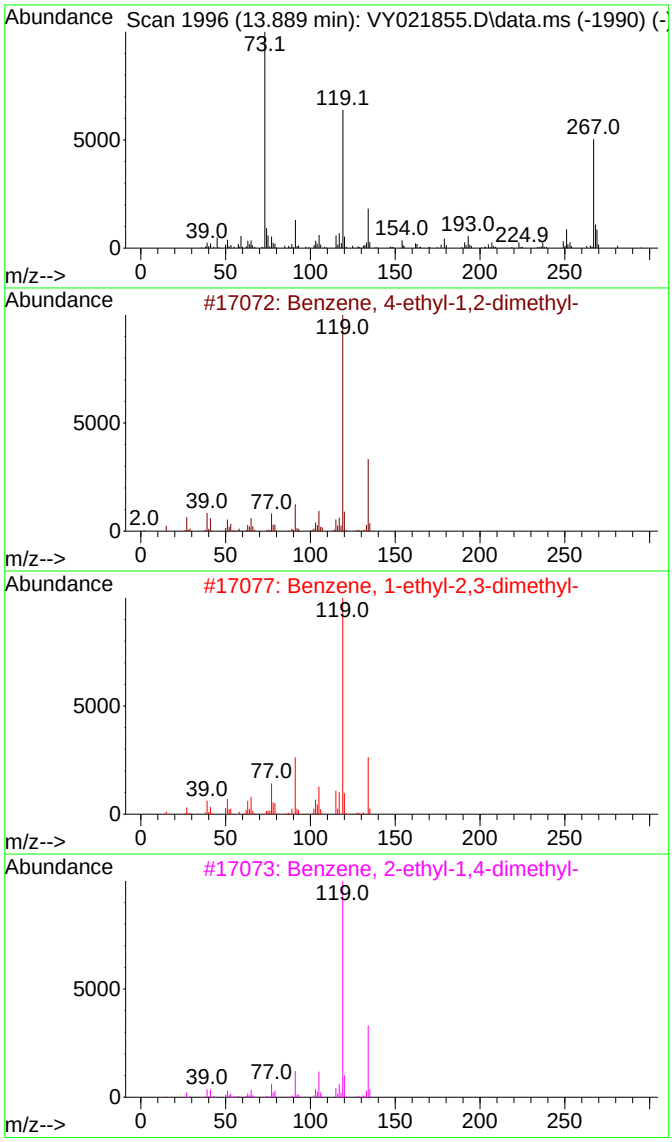
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

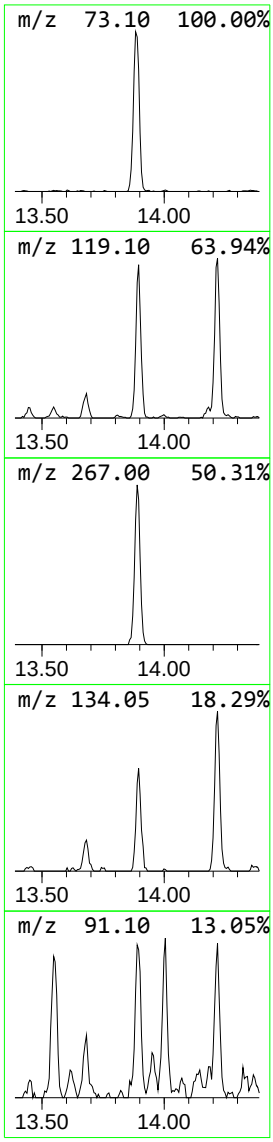
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.889 | 6.01 ug/l | 132922 | 1,4-Dichlorobenzene-d4 | 13.346 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 74 |
| 2 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 72 |
| 3 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 70 |
| 4 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 38 |
| 5 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021855.D
Acq On : 11 Apr 2025 13:33
Operator : SY/MD
Sample : Q1761-01
Misc : 7.82g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
GST3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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 |
| Benzene, 4-ethy... | 13.889 | 6.0 | ug/l | 132922 | 4 | 13.346 | 1106480 | 50.0 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021851.D
Acq On : 11 Apr 2025 11:35
Operator : SY/MD
Sample : VY0411SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBL01

Quant Time: Apr 12 02:45:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 321354 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 579974 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 477999 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 174550 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 163798 | 47.044 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 94.080% | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 185078 | 49.194 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 98.380% | | |
| 50) Toluene-d8 | 10.109 | 98 | 678908 | 47.435 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 94.860% | | |
| 62) 4-Bromofluorobenzene | 12.407 | 95 | 189286 | 39.099 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 78.200% | | |

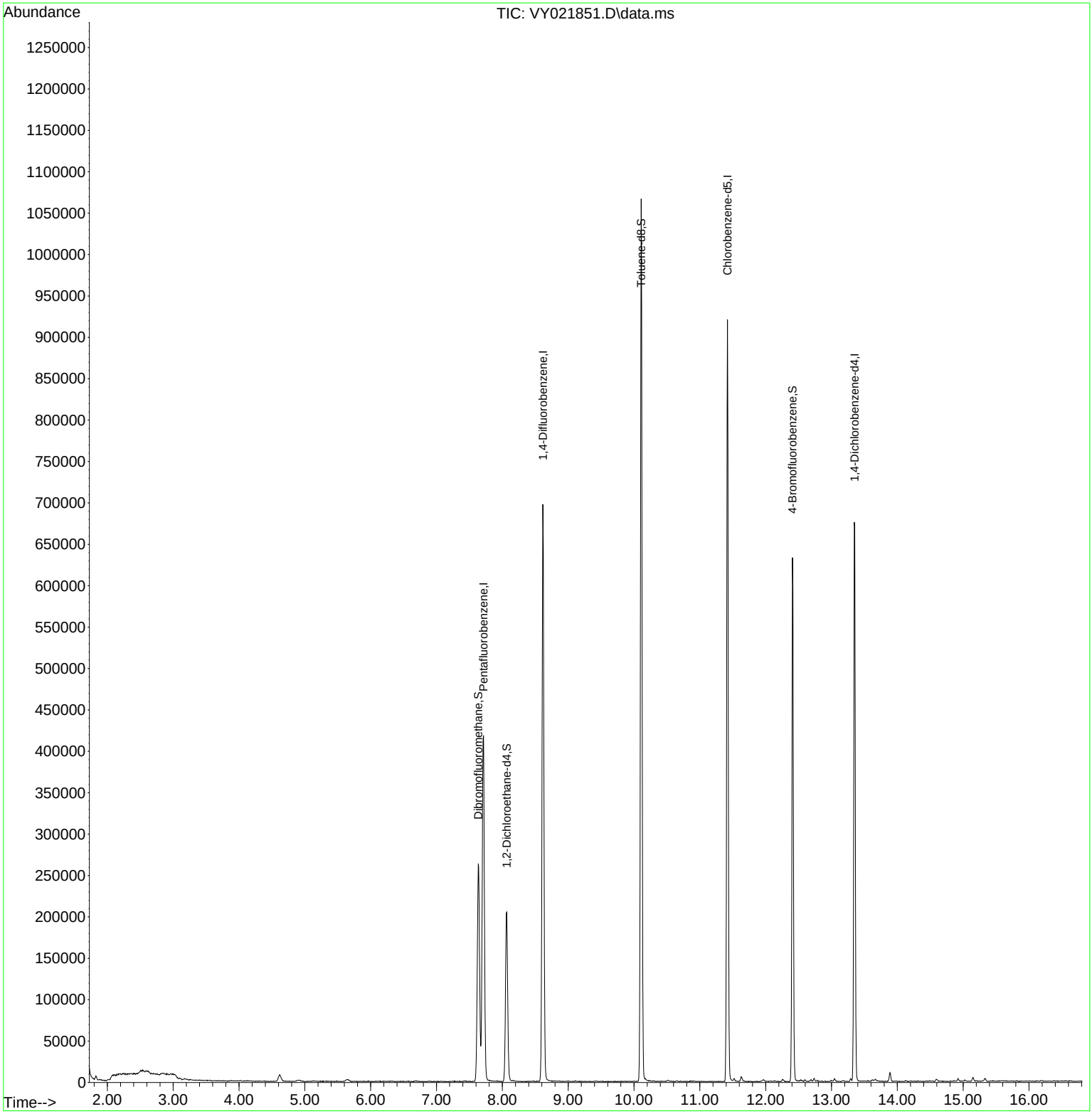
Target Compounds Qvalue

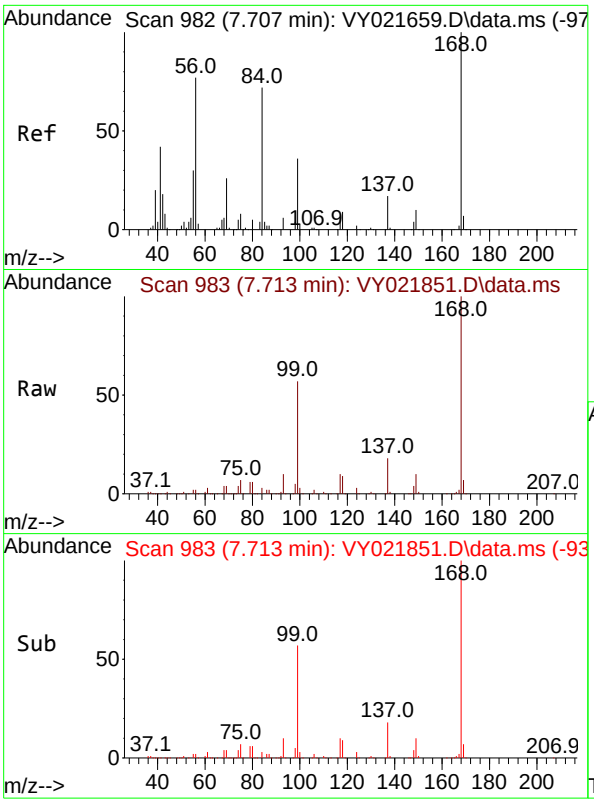
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021851.D
Acq On : 11 Apr 2025 11:35
Operator : SY/MD
Sample : VY0411SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBL01

Quant Time: Apr 12 02:45:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



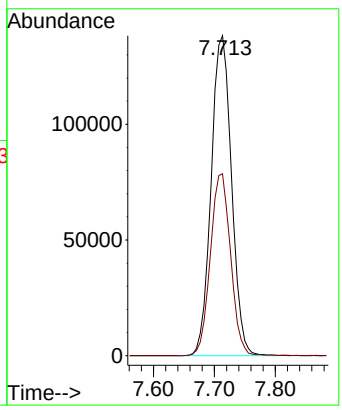


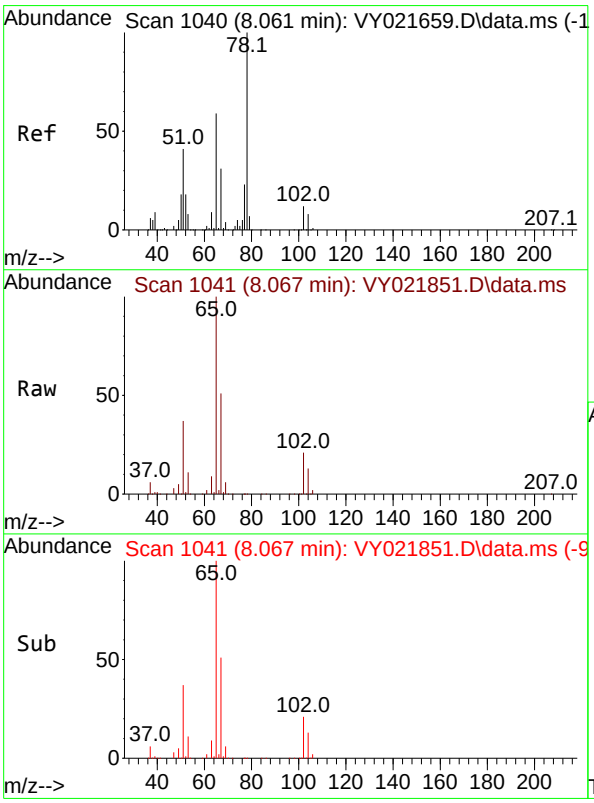

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021851.D
Acq: 11 Apr 2025 11:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBL01

Tgt Ion:168 Resp: 321354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.8 | 46.7 | 70.1 |

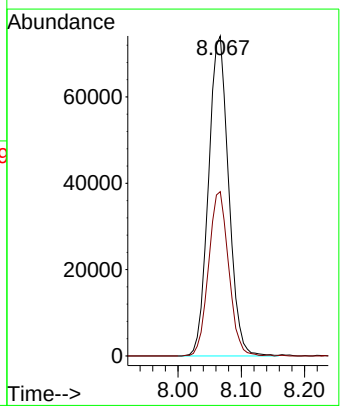


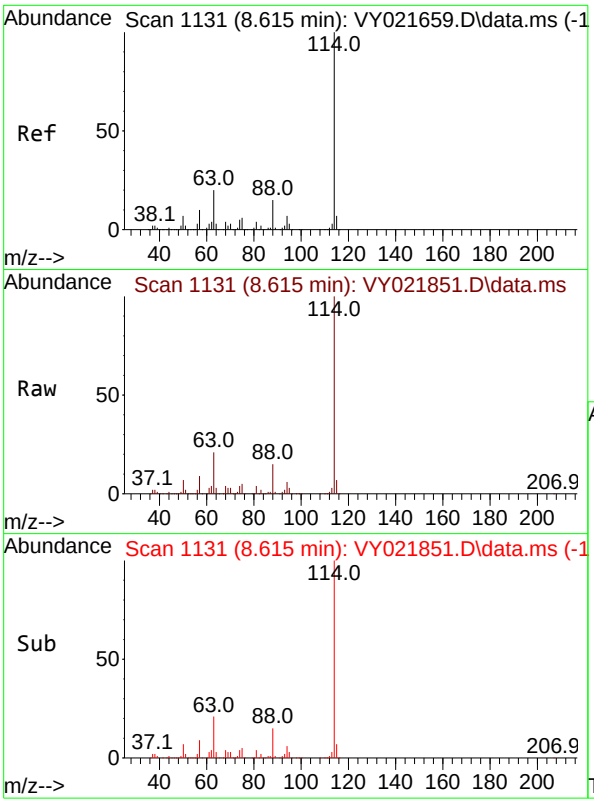




#33
1,2-Dichloroethane-d4
Concen: 47.044 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY021851.D
Acq: 11 Apr 2025 11:35

Tgt Ion: 65 Resp: 163798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.2 | 0.0 | 104.6 |



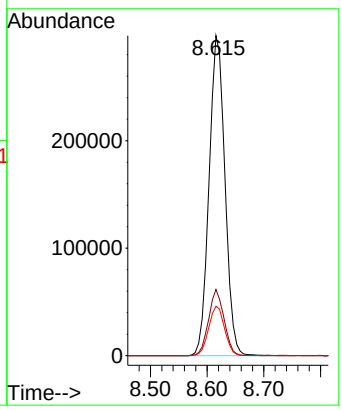


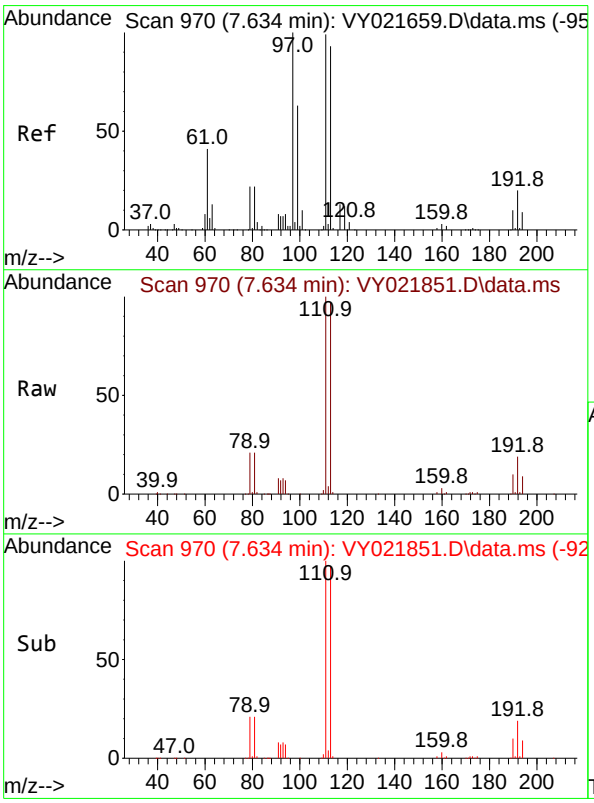

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021851.D
Acq: 11 Apr 2025 11:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBL01

Tgt Ion:114 Resp: 579974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.7 | 0.0 | 40.2 |
| 88 | 15.5 | 0.0 | 29.8 |

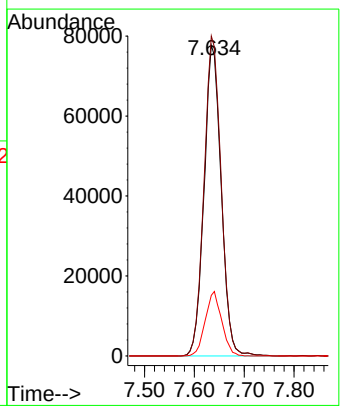


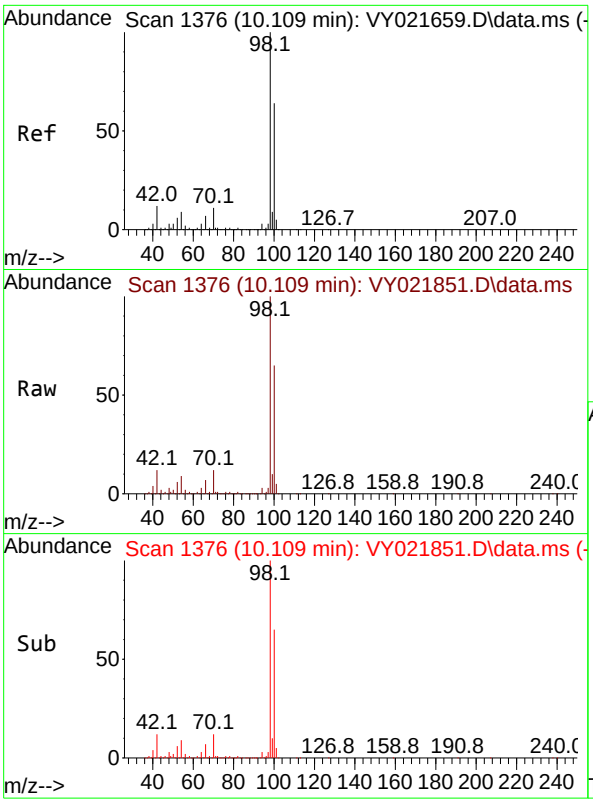




#35
Dibromofluoromethane
Concen: 49.194 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021851.D
Acq: 11 Apr 2025 11:35

Tgt Ion:113 Resp: 185078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 82.6 | 123.8 |
| 192 | 20.0 | 16.2 | 24.4 |



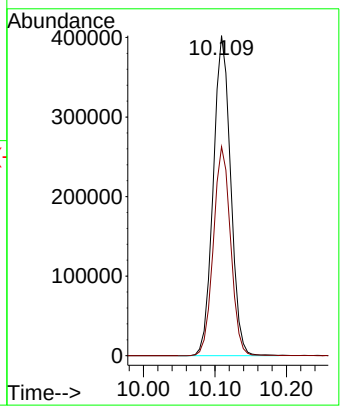


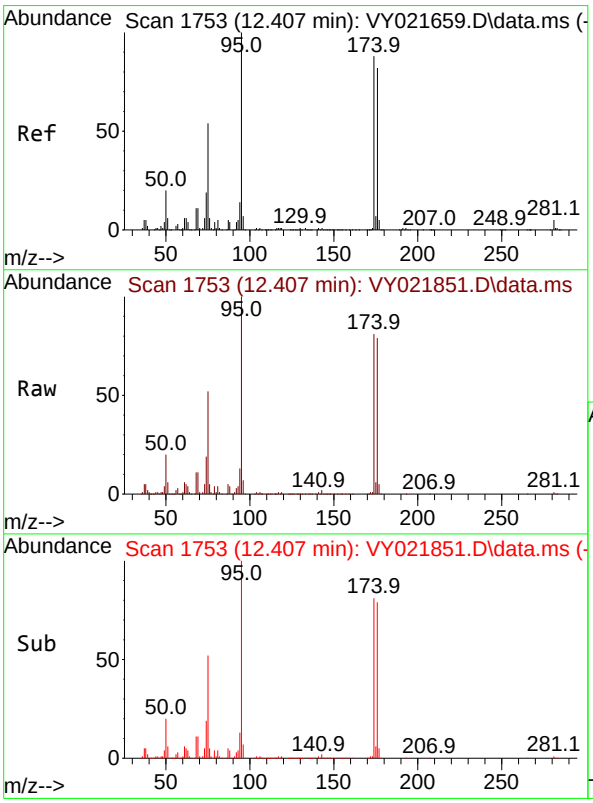

#50
Toluene-d8
Concen: 47.435 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021851.D
Acq: 11 Apr 2025 11:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBL01

Tgt Ion: 98 Resp: 678908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.7 | 52.1 | 78.1 |

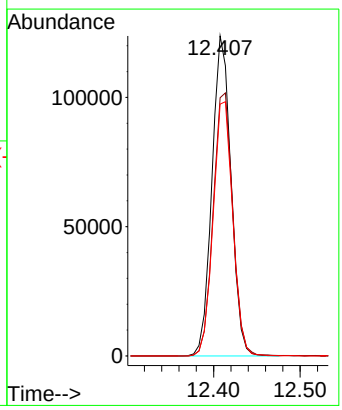


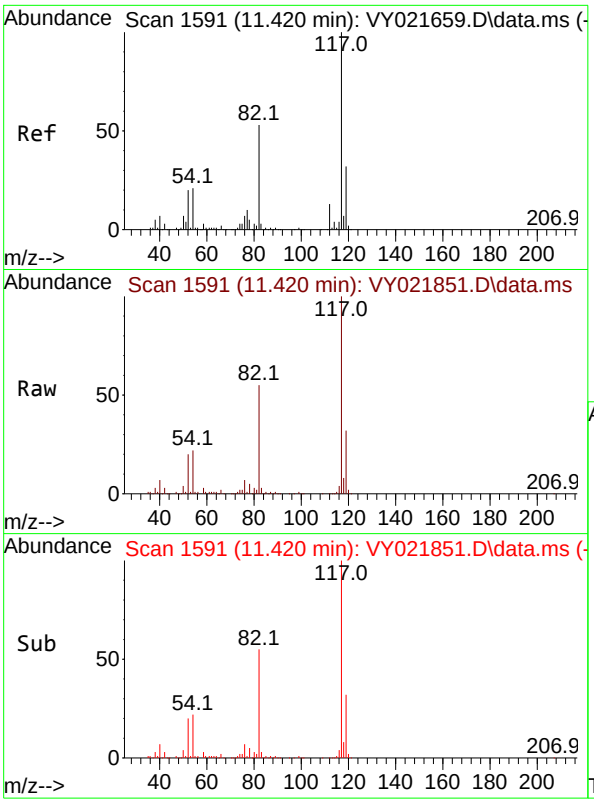




#62
4-Bromofluorobenzene
Concen: 39.099 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021851.D
Acq: 11 Apr 2025 11:35

Tgt Ion: 95 Resp: 189286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.8 | 0.0 | 170.8 |
| 176 | 81.7 | 0.0 | 162.0 |



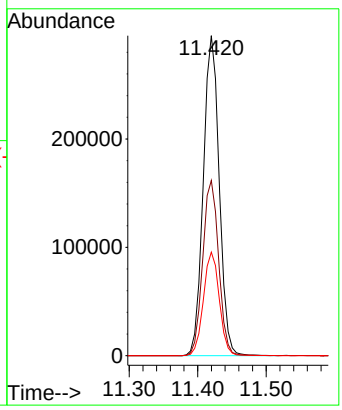


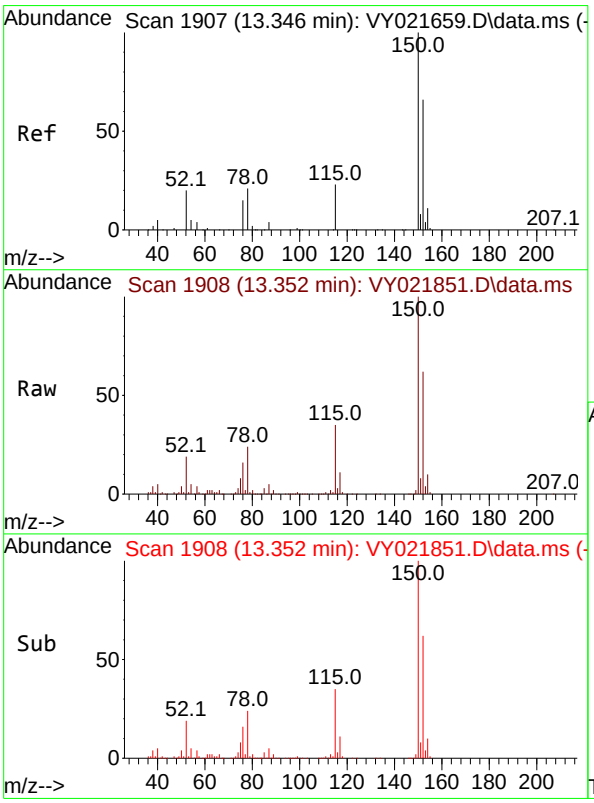

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021851.D
Acq: 11 Apr 2025 11:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBL01

Tgt Ion:117 Resp: 477999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.8 | 42.8 | 64.2 |
| 119 | 32.3 | 25.7 | 38.5 |

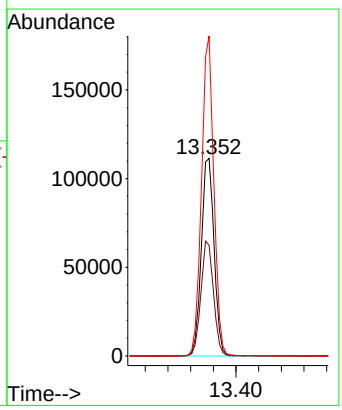



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY021851.D
Acq: 11 Apr 2025 11:35

Tgt Ion:152 Resp: 174550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.2 | 28.8 | 86.5 |
| 150 | 155.5 | 0.0 | 348.4 |



Sample Results: **VY021851.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021851.D
Acq On : 11 Apr 2025 11:35
Operator : SY/MD
Sample : VY0411SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBL01

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\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021851.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.616 | 466 | 475 | 485 | rBV4 | 8002 | 23227 | 1.29% | 0.265% |
| 2 | 7.634 | 961 | 970 | 976 | rBV | 262818 | 621888 | 34.48% | 7.084% |
| 3 | 7.713 | 976 | 983 | 994 | rVB | 416671 | 967826 | 53.66% | 11.024% |
| 4 | 8.067 | 1030 | 1041 | 1052 | rBV | 204614 | 464921 | 25.78% | 5.296% |
| 5 | 8.615 | 1121 | 1131 | 1145 | rBV | 697303 | 1360201 | 75.42% | 15.493% |
| 6 | 10.109 | 1368 | 1376 | 1385 | rBV | 1065866 | 1803588 | 100.00% | 20.544% |
| 7 | 11.420 | 1583 | 1591 | 1603 | rBV | 920013 | 1490961 | 82.67% | 16.983% |
| 8 | 12.407 | 1746 | 1753 | 1763 | rBV | 632880 | 985592 | 54.65% | 11.226% |
| 9 | 13.346 | 1901 | 1907 | 1918 | rVB | 674977 | 1061129 | 58.83% | 12.087% |

Sum of corrected areas: 8779333

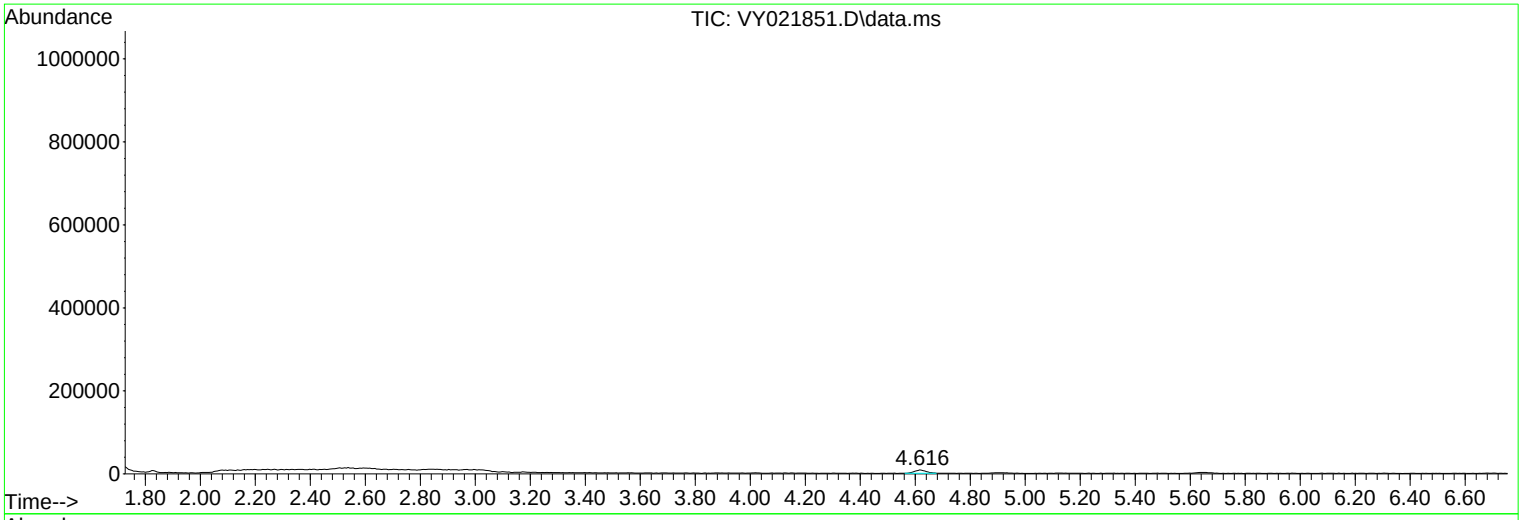
Sample Results: **VY021851.D**

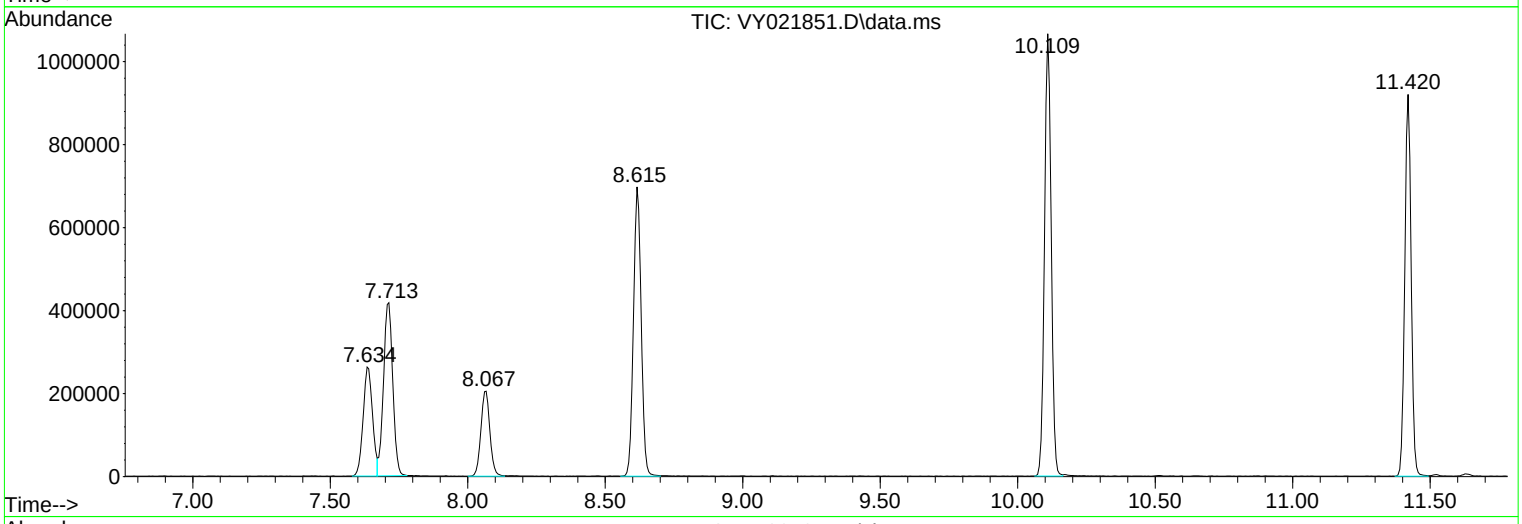
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021851.D
Acq On : 11 Apr 2025 11:35
Operator : SY/MD
Sample : VY0411SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

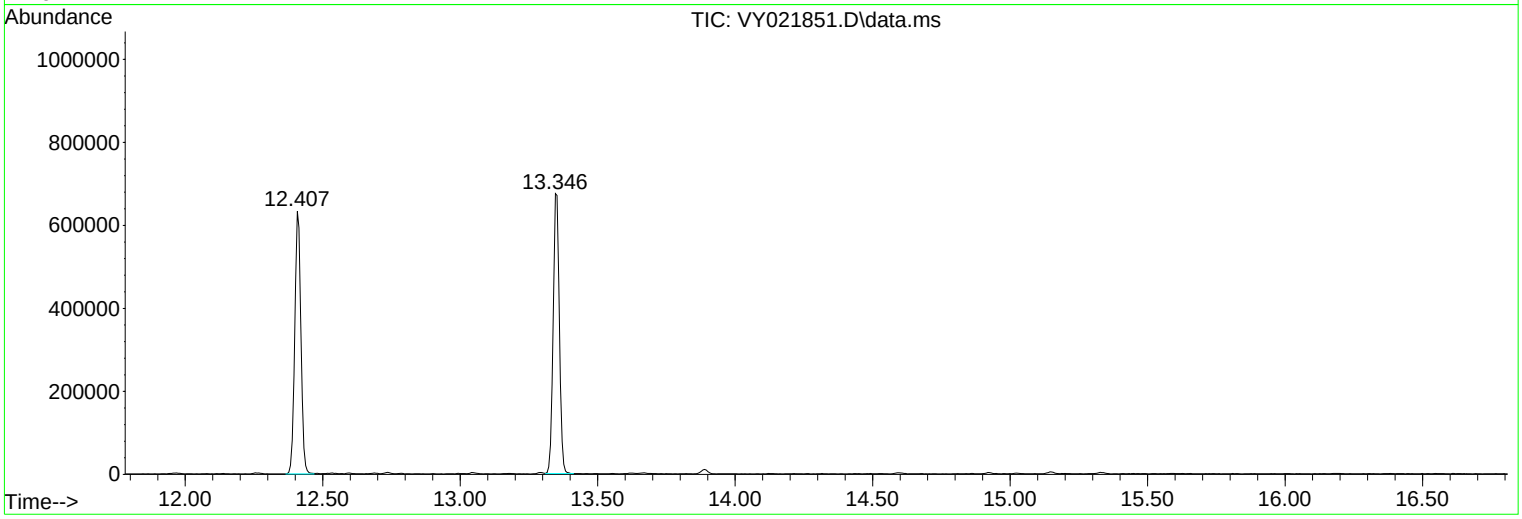
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021851.D
Acq On : 11 Apr 2025 11:35
Operator : SY/MD
Sample : VY0411SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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\VY041125\
Data File : VY021851.D
Acq On : 11 Apr 2025 11:35
Operator : SY/MD
Sample : VY0411SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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\VY041125\
Data File : VY021852.D
Acq On : 11 Apr 2025 12:06
Operator : SY/MD
Sample : VY0411SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 12 02:46:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 04/14/2025
Supervised By :Semsettin Yesilyurt 04/14/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 261639 | 50.000 ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 412441 | 50.000 ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 367570 | 50.000 ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 190311 | 50.000 ug/l | 0.00 |
| System Monitoring Compounds | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 148170 | 52.269 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 104.540% | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 142257 | 53.172 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 106.340% | | |
| 50) Toluene-d8 | 10.109 | 98 | 547864 | 53.827 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 107.660% | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 190322 | 55.282 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 110.560% | | |
| Target Compounds | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 47931 | 17.675 ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 66874 | 17.537 ug/l | 96 |
| 4) Vinyl Chloride | 2.202 | 62 | 73984 | 17.156 ug/l | 100 |
| 5) Bromomethane | 2.592 | 94 | 55650 | 18.921 ug/l | 92 |
| 6) Chloroethane | 2.733 | 64 | 50881 | 18.031 ug/l | 97 |
| 7) Trichlorofluoromethane | 3.056 | 101 | 102701 | 18.591 ug/l | 99 |
| 8) Diethyl Ether | 3.458 | 74 | 29060 | 19.344 ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 56995 | 19.562 ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 65715 | 20.559 ug/l | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 17296 | 93.935 ug/l # | 87 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 52342 | 19.073 ug/l | 97 |
| 13) Acrolein | 3.653 | 56 | 17310 | 51.486 ug/l | 98 |
| 14) Allyl chloride | 4.385 | 41 | 81064 | 18.526 ug/l | 98 |
| 15) Acrylonitrile | 5.061 | 53 | 60829 | 96.976 ug/l | 100 |
| 16) Acetone | 3.879 | 43 | 58163 | 100.252 ug/l | 97 |
| 17) Carbon Disulfide | 4.104 | 76 | 157086 | 17.379 ug/l | 99 |
| 18) Methyl Acetate | 4.391 | 43 | 29819 | 20.738 ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 135524 | 19.835 ug/l | 98 |
| 20) Methylene Chloride | 4.610 | 84 | 63577 | 20.080 ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 57161 | 18.917 ug/l | 95 |
| 22) Diisopropyl ether | 6.019 | 45 | 177421 | 19.329 ug/l | 99 |
| 23) Vinyl Acetate | 5.964 | 43 | 503378 | 93.744 ug/l | 97 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 107900 | 19.659 ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 78937 | 95.259 ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 95824 | 19.627 ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 67782 | 19.948 ug/l | 97 |
| 28) Bromochloromethane | 7.244 | 49 | 45578 | 19.691 ug/l | 95 |
| 29) Tetrahydrofuran | 7.262 | 42 | 49850 | 93.472 ug/l | 97 |
| 30) Chloroform | 7.421 | 83 | 112631 | 19.730 ug/l | 96 |
| 31) Cyclohexane | 7.701 | 56 | 89585 | 17.905 ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 100880 | 19.552 ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 77267 | 18.961 ug/l | 98 |
| 37) Ethyl Acetate | 6.988 | 43 | 36325 | 18.888 ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 91970 | 19.705 ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 91679 | 18.832 ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 240011 | 19.667 ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021852.D
Acq On : 11 Apr 2025 12:06
Operator : SY/MD
Sample : VY0411SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 12 02:46:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 04/14/2025
Supervised By :Semsettin Yesilyurt 04/14/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 19246m | 18.843 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 68214 | 19.827 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 69884 | 19.174 | ug/l | # | 85 |
| 44) Trichloroethene | 8.866 | 130 | 61686 | 19.838 | ug/l | | 94 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 56361 | 19.511 | ug/l | | 98 |
| 46) Dibromomethane | 9.231 | 93 | 31831 | 19.119 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.426 | 83 | 86291 | 20.003 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.219 | 41 | 31606 | 18.895 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.237 | 88 | 7141 | 400.396 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 184332 | 97.188 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 152947 | 20.087 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 74193 | 19.363 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 89915 | 19.891 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 43135 | 20.133 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.438 | 69 | 53948 | 19.720 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 75191 | 20.321 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 136203 | 102.058 | ug/l | | 98 |
| 59) 2-Hexanone | 10.762 | 43 | 122817 | 97.231 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.914 | 129 | 59311 | 20.276 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 41010 | 20.405 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 73872 | 22.066 | ug/l | | 98 |
| 65) Chlorobenzene | 11.444 | 112 | 166748 | 19.790 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 59523 | 19.911 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.518 | 91 | 281537 | 19.485 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 218365 | 39.468 | ug/l | | 99 |
| 69) o-Xylene | 11.957 | 106 | 102058 | 19.983 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 168475 | 19.785 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 34728 | 20.365 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 267864 | 18.950 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 60183 | 18.142 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 45580 | 17.935 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 38417m | 20.364 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 65230 | 19.220 | ug/l | | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 326537 | 19.215 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 186879 | 18.933 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 224041 | 19.393 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 14546 | 17.767 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 195026 | 18.953 | ug/l | | 98 |
| 83) tert-Butylbenzene | 12.999 | 119 | 193537 | 18.809 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 225265 | 19.729 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 288462 | 19.183 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 240050 | 19.314 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 129499 | 19.367 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 128644 | 19.473 | ug/l | | 96 |
| 89) n-Butylbenzene | 13.621 | 91 | 215648 | 18.762 | ug/l | | 100 |
| 90) Hexachloroethane | 13.883 | 117 | 51012 | 18.730 | ug/l | | 96 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 117128 | 20.123 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 8235 | 20.907 | ug/l | | 93 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 66752 | 21.147 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 41048 | 20.822 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 108783 | 20.792 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 57607 | 21.402 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021852.D
Acq On : 11 Apr 2025 12:06
Operator : SY/MD
Sample : VY0411SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 12 02:46:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 04/14/2025
Supervised By :Semsettin Yesilyurt 04/14/2025

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

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

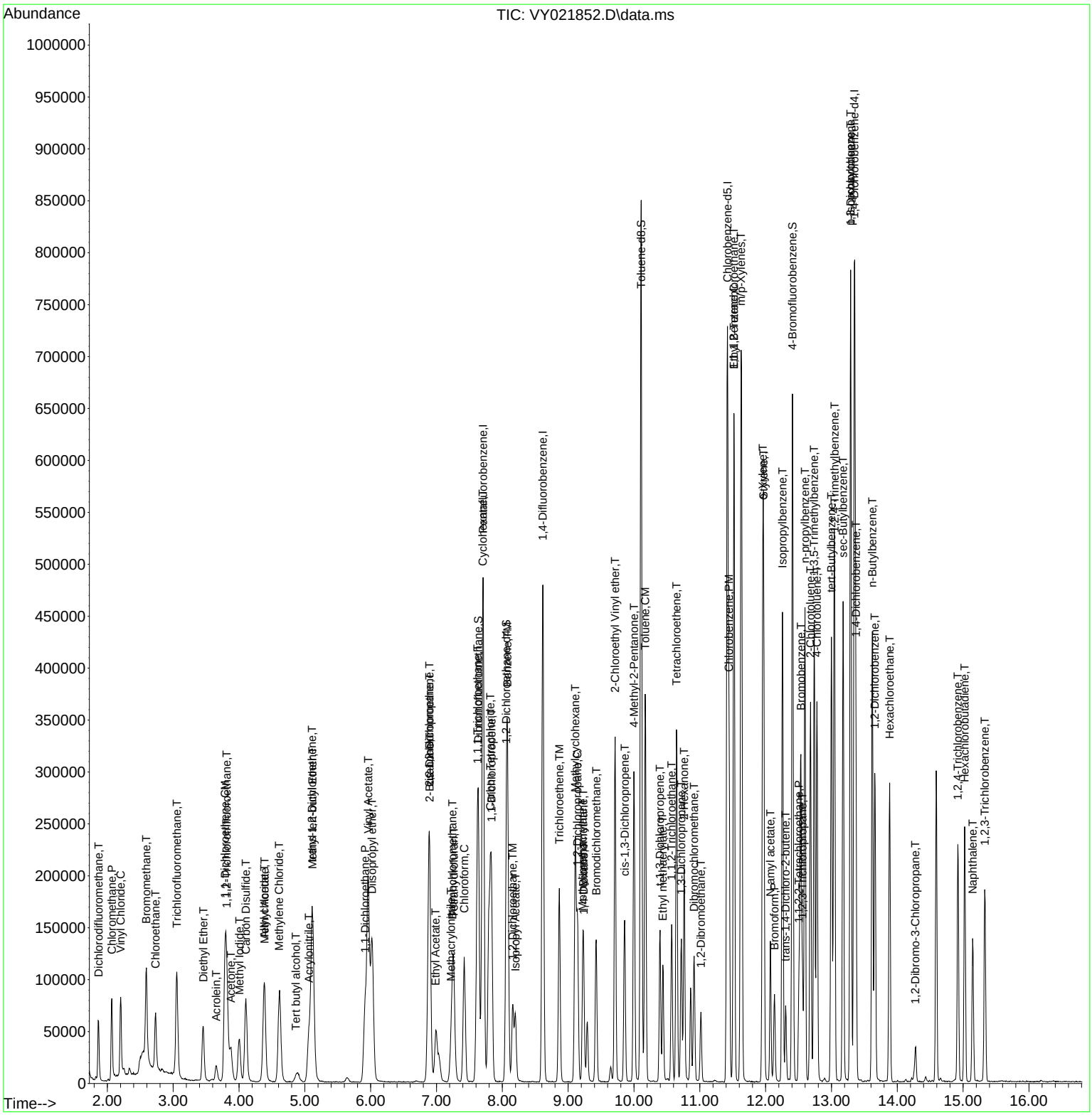
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021852.D
Acq On : 11 Apr 2025 12:06
Operator : SY/MD
Sample : VY0411SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 12 02:46:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 04/14/2025
Supervised By :Semsettin Yesilyurt 04/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021853.D
Acq On : 11 Apr 2025 12:28
Operator : SY/MD
Sample : VY0411SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 12 02:47:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 04/14/2025
Supervised By :Semsettin Yesilyurt 04/14/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 261813 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 409914 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 362626 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 188335 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 143603 | 50.624 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 101.240% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 143350 | 53.910 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 107.820% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 537312 | 53.116 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 106.240% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 186390 | 54.474 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 108.940% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 49656 | 18.299 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 62767 | 16.449 | ug/l | 97 |
| 4) Vinyl Chloride | 2.202 | 62 | 73201 | 16.963 | ug/l | 97 |
| 5) Bromomethane | 2.592 | 94 | 51528 | 17.508 | ug/l | 100 |
| 6) Chloroethane | 2.733 | 64 | 48298 | 17.104 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.056 | 101 | 104991 | 18.993 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 29054 | 19.327 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 56846 | 19.498 | ug/l | 96 |
| 10) Methyl Iodide | 4.001 | 142 | 67929 | 21.238 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 16952 | 92.006 | ug/l # | 90 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 54499 | 19.846 | ug/l | 94 |
| 13) Acrolein | 3.647 | 56 | 15884 | 47.214 | ug/l | 99 |
| 14) Allyl chloride | 4.379 | 41 | 82696 | 18.887 | ug/l | 98 |
| 15) Acrylonitrile | 5.061 | 53 | 59158 | 94.249 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 49207 | 84.759 | ug/l | 95 |
| 17) Carbon Disulfide | 4.104 | 76 | 162030 | 17.914 | ug/l | 97 |
| 18) Methyl Acetate | 4.379 | 43 | 31345 | 21.785 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 133728 | 19.559 | ug/l | 97 |
| 20) Methylene Chloride | 4.610 | 84 | 64347 | 20.358 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 58865 | 19.468 | ug/l | 97 |
| 22) Diisopropyl ether | 6.019 | 45 | 182652 | 19.886 | ug/l | 98 |
| 23) Vinyl Acetate | 5.958 | 43 | 498605 | 92.794 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 109510 | 19.939 | ug/l | 98 |
| 25) 2-Butanone | 6.890 | 43 | 75132 | 90.607 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 97186 | 19.893 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 68636 | 20.185 | ug/l | 96 |
| 28) Bromochloromethane | 7.238 | 49 | 41634 | 17.975 | ug/l | 92 |
| 29) Tetrahydrofuran | 7.262 | 42 | 49127 | 92.055 | ug/l | 98 |
| 30) Chloroform | 7.421 | 83 | 114067 | 19.968 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 91074 | 18.191 | ug/l | 90 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 103851 | 20.115 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 78621 | 19.412 | ug/l | 98 |
| 37) Ethyl Acetate | 6.982 | 43 | 35272 | 18.453 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 93678 | 20.194 | ug/l | 97 |
| 39) Methylcyclohexane | 9.110 | 83 | 92467 | 19.111 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 246182 | 20.297 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021853.D
Acq On : 11 Apr 2025 12:28
Operator : SY/MD
Sample : VY0411SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 12 02:47:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 04/14/2025
Supervised By :Semsettin Yesilyurt 04/14/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 21263 | 20.947 | ug/l | # | 100 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 66951 | 19.580 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 67897 | 18.744 | ug/l | | 98 |
| 44) Trichloroethene | 8.866 | 130 | 64547 | 20.886 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 57185 | 19.918 | ug/l | | 94 |
| 46) Dibromomethane | 9.231 | 93 | 33009 | 19.949 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 85927 | 20.041 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 32878 | 19.776 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.225 | 88 | 7355 | 414.937 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 178028 | 94.443 | ug/l | | 98 |
| 52) Toluene | 10.170 | 92 | 155125 | 20.499 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 75693 | 19.876 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 87863 | 19.557 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 43853 | 20.595 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.439 | 69 | 54410 | 20.012 | ug/l | | 96 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 73973 | 20.115 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 136529 | 102.933 | ug/l | | 98 |
| 59) 2-Hexanone | 10.762 | 43 | 117310 | 93.444 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 59548 | 20.483 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 39785 | 19.918 | ug/l | | 95 |
| 64) Tetrachloroethene | 10.646 | 164 | 73897 | 22.375 | ug/l | | 97 |
| 65) Chlorobenzene | 11.444 | 112 | 169509 | 20.392 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 61208 | 20.753 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 285855 | 20.054 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 222848 | 40.827 | ug/l | | 99 |
| 69) o-Xylene | 11.957 | 106 | 103070 | 20.457 | ug/l | | 100 |
| 70) Styrene | 11.969 | 104 | 172929 | 20.585 | ug/l | | 98 |
| 71) Bromoform | 12.133 | 173 | 34263 | 20.366 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 276145 | 19.741 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 57979 | 17.661 | ug/l | | 95 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 45218 | 17.980 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 35519m | 19.026 | ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 66160 | 19.699 | ug/l | | 97 |
| 78) n-propylbenzene | 12.597 | 91 | 331933 | 19.738 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 194696 | 19.932 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 227007 | 19.856 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 14585 | 18.001 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 200035 | 19.643 | ug/l | | 98 |
| 83) tert-Butylbenzene | 12.999 | 119 | 201861 | 19.823 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 228682 | 20.238 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 294858 | 19.814 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 249819 | 20.311 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 134109 | 20.267 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 131817 | 20.163 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.615 | 91 | 224734 | 19.757 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 52557 | 19.500 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 115715 | 20.089 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 7745 | 19.869 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 68380 | 21.890 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 43077 | 22.081 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 111977 | 21.627 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 59827 | 22.460 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021853.D
Acq On : 11 Apr 2025 12:28
Operator : SY/MD
Sample : VY0411SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 12 02:47:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 04/14/2025
Supervised By :Semsettin Yesilyurt 04/14/2025

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

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

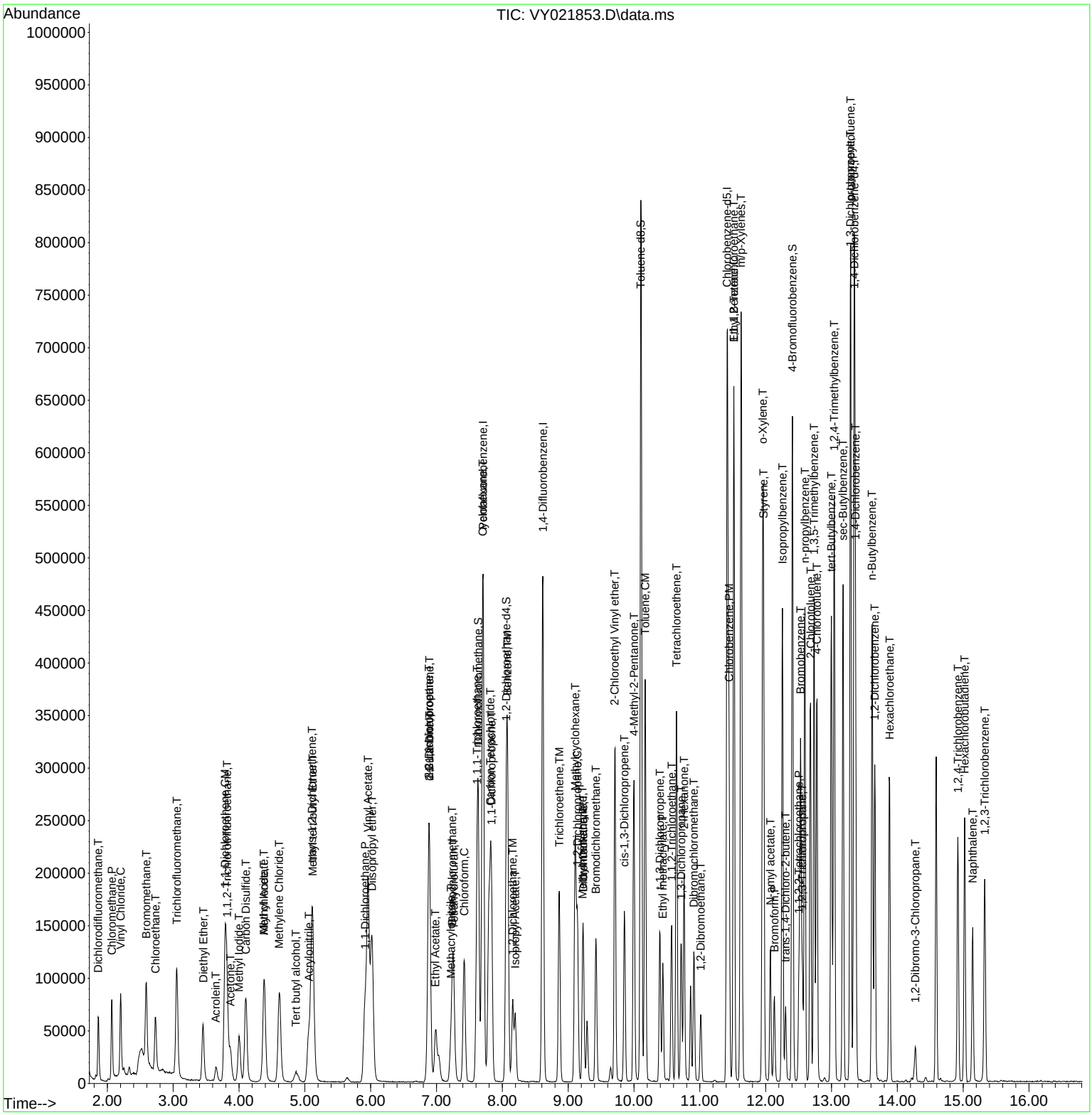
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041125\
Data File : VY021853.D
Acq On : 11 Apr 2025 12:28
Operator : SY/MD
Sample : VY0411SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 12 02:47:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0411SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 04/14/2025
Supervised By :Semsettin Yesilyurt 04/14/2025



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

# Manual Integration Report

| Sequence: | vy032725 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC005 | VY021656.D | 1,2,3-Trichloropropane | Romaben | 3/28/2025 9:14:28 AM | MMDadoda | 3/28/2025 9:32:34 AM | Peak Integrated by Software |
| VSTDICC005 | VY021656.D | Methacrylonitrile | Romaben | 3/28/2025 9:14:28 AM | MMDadoda | 3/28/2025 9:32:34 AM | Peak Integrated by Software |
| VSTDICC010 | VY021657.D | 1,2,3-Trichloropropane | Romaben | 3/28/2025 9:14:32 AM | MMDadoda | 3/28/2025 9:32:37 AM | Peak Integrated by Software |
| VSTDICC010 | VY021657.D | Methacrylonitrile | Romaben | 3/28/2025 9:14:32 AM | MMDadoda | 3/28/2025 9:32:37 AM | Peak Integrated by Software |
| VSTDICC020 | VY021658.D | 1,2,3-Trichloropropane | Romaben | 3/28/2025 9:15:20 AM | MMDadoda | 3/28/2025 9:32:41 AM | Peak Integrated by Software |
| VSTDICCC050 | VY021659.D | 1,2,3-Trichloropropane | Romaben | 3/28/2025 9:14:38 AM | MMDadoda | 3/28/2025 9:32:45 AM | Peak Integrated by Software |
| VSTDICCC050 | VY021659.D | Methacrylonitrile | Romaben | 3/28/2025 9:14:38 AM | MMDadoda | 3/28/2025 9:32:45 AM | Peak Integrated by Software |
| VSTDICC100 | VY021660.D | 1,2,3-Trichloropropane | Romaben | 3/28/2025 9:15:15 AM | MMDadoda | 3/28/2025 9:32:49 AM | Peak Integrated by Software |
| VSTDICC150 | VY021661.D | 1,2,3-Trichloropropane | Romaben | 3/28/2025 9:14:43 AM | MMDadoda | 3/28/2025 9:32:53 AM | Peak Integrated by Software |
| VSTDICV050 | VY021663.D | 1,2,3-Trichloropropane | Romaben | 3/28/2025 9:15:11 AM | MMDadoda | 3/28/2025 9:32:04 AM | Peak Integrated by Software |
| VSTDCCC050 | VY021680.D | 1,2,3-Trichloropropane | Romaben | 3/28/2025 9:14:58 AM | MMDadoda | 3/28/2025 9:32:15 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VY041125 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY021850.D | 1,2,3-Trichloropropane | MMDadoda | 4/14/2025 3:42:39 PM | SAM | 4/14/2025 3:45:07 PM | Peak Integrated by Software |
| VY0411SBS01 | VY021852.D | 1,2,3-Trichloropropane | MMDadoda | 4/14/2025 3:42:40 PM | SAM | 4/14/2025 3:45:07 PM | Peak Integrated by Software |
| VY0411SBS01 | VY021852.D | Methacrylonitrile | MMDadoda | 4/14/2025 3:42:40 PM | SAM | 4/14/2025 3:45:07 PM | Peak Integrated by Software |
| VY0411SBSD01 | VY021853.D | 1,2,3-Trichloropropane | MMDadoda | 4/14/2025 3:42:42 PM | SAM | 4/14/2025 3:45:08 PM | Peak Integrated by Software |
| VSTDCCC050 | VY021863.D | 1,2,3-Trichloropropane | MMDadoda | 4/14/2025 3:42:44 PM | SAM | 4/14/2025 3:45:09 PM | Peak Integrated by Software |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY032725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 3/28/2025 3:29:57 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 3/28/2025 3:30:48 PM | | |
| SubDirectory | VY032725 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y032725s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133499 |
| Initial Calibration Stds | VP133500,VP133501,VP133502,VP133503,VP133505,VP133508 |
| CCC | VP133510 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP133509 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY021655.D | 27 Mar 2025 09:23 | SY/MD | Ok |
| 2 | VSTDICC005 | VY021656.D | 27 Mar 2025 10:08 | SY/MD | Ok,M |
| 3 | VSTDICC010 | VY021657.D | 27 Mar 2025 10:31 | SY/MD | Ok,M |
| 4 | VSTDICC020 | VY021658.D | 27 Mar 2025 10:54 | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VY021659.D | 27 Mar 2025 11:16 | SY/MD | Ok,M |
| 6 | VSTDICC100 | VY021660.D | 27 Mar 2025 11:39 | SY/MD | Ok,M |
| 7 | VSTDICC150 | VY021661.D | 27 Mar 2025 12:02 | SY/MD | Ok,M |
| 8 | VIBLK | VY021662.D | 27 Mar 2025 12:35 | SY/MD | Ok |
| 9 | VSTDICV050 | VY021663.D | 27 Mar 2025 13:15 | SY/MD | Ok,M |
| 10 | VY0327SBL01 | VY021664.D | 27 Mar 2025 13:59 | SY/MD | Ok |
| 11 | VY0327SBS01 | VY021665.D | 27 Mar 2025 14:38 | SY/MD | Ok,M |
| 12 | VY0327SBSD01 | VY021666.D | 27 Mar 2025 15:00 | SY/MD | Ok,M |
| 13 | Q1661-02 | VY021667.D | 27 Mar 2025 15:24 | SY/MD | Not Ok |
| 14 | Q1645-03RE | VY021668.D | 27 Mar 2025 15:48 | SY/MD | Confirms |
| 15 | Q1662-03 | VY021669.D | 27 Mar 2025 16:11 | SY/MD | Not Ok |
| 16 | Q1662-07 | VY021670.D | 27 Mar 2025 16:35 | SY/MD | ReRun |
| 17 | Q1661-02 | VY021671.D | 27 Mar 2025 16:58 | SY/MD | Not Ok |
| 18 | Q1650-02 | VY021672.D | 27 Mar 2025 17:21 | SY/MD | Not Ok |
| 19 | Q1654-01 | VY021673.D | 27 Mar 2025 17:45 | SY/MD | Ok |
| 20 | Q1656-01 | VY021674.D | 27 Mar 2025 18:08 | SY/MD | Not Ok |
| 21 | Q1648-09 | VY021675.D | 27 Mar 2025 18:32 | SY/MD | Ok |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY032725

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 3/28/2025 3:29:57 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 3/28/2025 3:30:48 PM | | | | |
| SubDirectory | VY032725 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y032725s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133499 |
| Initial Calibration Stds | VP133500,VP133501,VP133502,VP133503,VP133505,VP133508 |
| CCC | VP133510 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP133509 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q1648-07 | VY021676.D | 27 Mar 2025 18:55 | SY/MD | Ok |
| 23 | Q1648-05 | VY021677.D | 27 Mar 2025 19:19 | SY/MD | Ok |
| 24 | Q1648-01 | VY021678.D | 27 Mar 2025 19:42 | SY/MD | Ok |
| 25 | Q1648-03 | VY021679.D | 27 Mar 2025 20:05 | SY/MD | Ok |
| 26 | VSTDCCC050 | VY021680.D | 27 Mar 2025 20:28 | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY041125

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 4/14/2025 3:42:48 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 4/14/2025 3:45:15 PM | | | | |
| SubDirectory | VY041125 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y032725s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133637 |
| Initial Calibration Stds | |
| CCC | VP133638,VP133639 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY021849.D | 11 Apr 2025 08:46 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY021850.D | 11 Apr 2025 09:18 | SY/MD | Ok,M |
| 3 | VY0411SBL01 | VY021851.D | 11 Apr 2025 11:35 | SY/MD | Ok |
| 4 | VY0411SBS01 | VY021852.D | 11 Apr 2025 12:06 | SY/MD | Ok,M |
| 5 | VY0411SBSD01 | VY021853.D | 11 Apr 2025 12:28 | SY/MD | Ok,M |
| 6 | Q1756-03 | VY021854.D | 11 Apr 2025 13:10 | SY/MD | ReRun |
| 7 | Q1761-01 | VY021855.D | 11 Apr 2025 13:33 | SY/MD | Ok |
| 8 | Q1781-03 | VY021856.D | 11 Apr 2025 13:57 | SY/MD | Ok |
| 9 | Q1781-07 | VY021857.D | 11 Apr 2025 14:20 | SY/MD | Ok |
| 10 | Q1781-11 | VY021858.D | 11 Apr 2025 14:44 | SY/MD | Ok |
| 11 | Q1768-01 | VY021859.D | 11 Apr 2025 15:07 | SY/MD | ReRun |
| 12 | Q1779-07 | VY021860.D | 11 Apr 2025 15:31 | SY/MD | Ok |
| 13 | Q1783-01 | VY021861.D | 11 Apr 2025 15:54 | SY/MD | ReRun |
| 14 | Q1784-01 | VY021862.D | 11 Apr 2025 16:18 | SY/MD | ReRun |
| 15 | VSTDCCC050 | VY021863.D | 11 Apr 2025 16:40 | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY032725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 3/28/2025 3:29:57 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 3/28/2025 3:30:48 PM | | |
| SubDirectory | VY032725 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y032725s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133499 |
| Initial Calibration Stds | VP133500,VP133501,VP133502,VP133503,VP133505,VP133508 |
| CCC | VP133510 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP133509 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY021655.D | 27 Mar 2025 09:23 | | SY/MD | Ok |
| 2 | VSTDICC005 | VSTDICC005 | VY021656.D | 27 Mar 2025 10:08 | | SY/MD | Ok,M |
| 3 | VSTDICC010 | VSTDICC010 | VY021657.D | 27 Mar 2025 10:31 | | SY/MD | Ok,M |
| 4 | VSTDICC020 | VSTDICC020 | VY021658.D | 27 Mar 2025 10:54 | Comp.#20 is on Linear Regression | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VY021659.D | 27 Mar 2025 11:16 | | SY/MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VY021660.D | 27 Mar 2025 11:39 | | SY/MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VY021661.D | 27 Mar 2025 12:02 | | SY/MD | Ok,M |
| 8 | VIBLK | VIBLK | VY021662.D | 27 Mar 2025 12:35 | | SY/MD | Ok |
| 9 | VSTDICV050 | ICVVY032725 | VY021663.D | 27 Mar 2025 13:15 | | SY/MD | Ok,M |
| 10 | VY0327SBL01 | VY0327SBL01 | VY021664.D | 27 Mar 2025 13:59 | | SY/MD | Ok |
| 11 | VY0327SBS01 | VY0327SBS01 | VY021665.D | 27 Mar 2025 14:38 | | SY/MD | Ok,M |
| 12 | VY0327SBSD01 | VY0327SBSD01 | VY021666.D | 27 Mar 2025 15:00 | | SY/MD | Ok,M |
| 13 | Q1661-02 | 351 | VY021667.D | 27 Mar 2025 15:24 | vial-B Not purge | SY/MD | Not Ok |
| 14 | Q1645-03RE | TP-4-VOCRE | VY021668.D | 27 Mar 2025 15:48 | vial-B Internal Standard Fail | SY/MD | Confirms |
| 15 | Q1662-03 | TP-6-VOC | VY021669.D | 27 Mar 2025 16:11 | vial-A NOT PURGE | SY/MD | Not Ok |
| 16 | Q1662-07 | TP-7-VOC | VY021670.D | 27 Mar 2025 16:35 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 17 | Q1661-02 | 351 | VY021671.D | 27 Mar 2025 16:58 | vial-A NOT PURGE | SY/MD | Not Ok |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY032725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 3/28/2025 3:29:57 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 3/28/2025 3:30:48 PM | | |
| SubDirectory | VY032725 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y032725s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133499 |
| Initial Calibration Stds | VP133500,VP133501,VP133502,VP133503,VP133505,VP133508 |
| CCC | VP133510 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP133509 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Q1650-02 | STOCK-PILE-BIN2 | VY021672.D | 27 Mar 2025 17:21 | vial-A NOT PURGE | SY/MD | Not Ok |
| 19 | Q1654-01 | RT3407 | VY021673.D | 27 Mar 2025 17:45 | vial-A Internal Standard Fail | SY/MD | Ok |
| 20 | Q1656-01 | VNJ239 | VY021674.D | 27 Mar 2025 18:08 | vial-A NOT PURGE | SY/MD | Not Ok |
| 21 | Q1648-09 | TP-7 | VY021675.D | 27 Mar 2025 18:32 | vial-A | SY/MD | Ok |
| 22 | Q1648-07 | TP-6 | VY021676.D | 27 Mar 2025 18:55 | vial-A | SY/MD | Ok |
| 23 | Q1648-05 | TP-3 | VY021677.D | 27 Mar 2025 19:19 | vial-A | SY/MD | Ok |
| 24 | Q1648-01 | TP-4 | VY021678.D | 27 Mar 2025 19:42 | vial-A | SY/MD | Ok |
| 25 | Q1648-03 | TP-5 | VY021679.D | 27 Mar 2025 20:05 | vial-A | SY/MD | Ok |
| 26 | VSTDCCC050 | VSTDCCC050EC | VY021680.D | 27 Mar 2025 20:28 | | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY041125

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 4/14/2025 3:42:48 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 4/14/2025 3:45:15 PM | | |
| SubDirectory | VY041125 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y032725s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133637 |
| Initial Calibration Stds | |
| CCC | VP133638,VP133639 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY021849.D | 11 Apr 2025 08:46 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY021850.D | 11 Apr 2025 09:18 | | SY/MD | Ok,M |
| 3 | VY0411SBL01 | VY0411SBL01 | VY021851.D | 11 Apr 2025 11:35 | | SY/MD | Ok |
| 4 | VY0411SBS01 | VY0411SBS01 | VY021852.D | 11 Apr 2025 12:06 | | SY/MD | Ok,M |
| 5 | VY0411SBSD01 | VY0411SBSD01 | VY021853.D | 11 Apr 2025 12:28 | | SY/MD | Ok,M |
| 6 | Q1756-03 | TP-9-VOC | VY021854.D | 11 Apr 2025 13:10 | vial-A Internal Standard Fail ;Surrogate fail | SY/MD | ReRun |
| 7 | Q1761-01 | GST3 | VY021855.D | 11 Apr 2025 13:33 | vial-A | SY/MD | Ok |
| 8 | Q1781-03 | WC-13-VOC | VY021856.D | 11 Apr 2025 13:57 | vial-A | SY/MD | Ok |
| 9 | Q1781-07 | WC-12-VOC | VY021857.D | 11 Apr 2025 14:20 | vial-A | SY/MD | Ok |
| 10 | Q1781-11 | WC-11-VOC | VY021858.D | 11 Apr 2025 14:44 | vial-A | SY/MD | Ok |
| 11 | Q1768-01 | CRUSHED STONE | VY021859.D | 11 Apr 2025 15:07 | vial-A Internal Standard Fail ;Surrogate fail | SY/MD | ReRun |
| 12 | Q1779-07 | TP-23-VOC | VY021860.D | 11 Apr 2025 15:31 | vial-A | SY/MD | Ok |
| 13 | Q1783-01 | SU-03-41125 | VY021861.D | 11 Apr 2025 15:54 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 14 | Q1784-01 | OR-01-41125 | VY021862.D | 11 Apr 2025 16:18 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 15 | VSTDCCC050 | VSTDCCC050EC | VY021863.D | 11 Apr 2025 16:40 | | SY/MD | Ok,M |

M : Manual Integration

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q1761 | **OrderDate:** | 4/9/2025 2:47:00 PM |
| **Client:** | G Environmental | **Project:** | Stockton |
| **Contact:** | Gary Landis | **Location:** | L31,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q1761-01** | **GST3** | **SOIL** | | | **04/08/25** | | | **04/09/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 04/11/25 | |