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

# DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

# LAB CHRONICLE

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

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

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

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3662

**Client:** HDR, Inc.

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

**Client ID:**

0

**Total Voc :**

**Total Concentration:**


# QC SUMMARY

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

# Surrogate Summary

**SDG No.:** Q3662

**Client:** HDR, Inc.

**Analytical Method:** SW8260D

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

( ) = LABORATORY INHOUSE LIMIT

( ) = LABORATORY INHOUSE LIMIT

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

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

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

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

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

( ) = LABORATORY INHOUSE LIMIT

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

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

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

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

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

( ) = LABORATORY INHOUSE LIMIT

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

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

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

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

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

( ) = LABORATORY INHOUSE LIMIT

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

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

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

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

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

( ) = LABORATORY INHOUSE LIMIT

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

# VOLATILE METHOD BLANK SUMMARY

Client ID: VW1118SBL01

Lab Name: Alliance | Contract: HDRI08

Lab Code: ACE | SDG NO.: Q3662

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

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

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

Instrument ID: MSVOA_W

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

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

COMMENTS:

Raw Data: **VW032405.D**

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

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

Lab Name: Alliance
Contract: HDRI08
Lab Code: ACE
SDG NO.: Q3662
Lab File ID: VW032405.D
BFB Injection Date: 11/10/2025
Instrument ID: MSVOA_W
BFB Injection Time: 14:20
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 18.7 |
| 75 | 30.0 - 60.0% of mass 95 | 49.7 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.7 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 67.1 |
| 175 | 5.0 - 9.0% of mass 174 | 5.1 ( 7.6 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 66.1 ( 98.5 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.1 ( 6.3 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

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

Raw Data: **VW032467.D**

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

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

Lab Name: Alliance | Contract: HDRI08

Lab Code: ACE | SDG NO.: Q3662

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

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

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 18.3 |
| 75 | 30.0 - 60.0% of mass 95 | 49.3 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.5 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 64.4 |
| 175 | 5.0 - 9.0% of mass 174 | 4.9 ( 7.7 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 61.6 ( 95.7 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 3.9 ( 6.3 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

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

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

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG NO.: Q3662

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

Instrument ID: MSVOA_W Time Analyzed: 09:46

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

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 361815 | 7.95 | 661363 | 8.85 | 600329 | 11.63 |
| UPPER LIMIT | 723630 | 8.453 | 1322730 | 9.349 | 1200660 | 12.129 |
| LOWER LIMIT | 180908 | 7.453 | 330682 | 8.349 | 300165 | 11.129 |
| EPA SAMPLE NO. | | | | | | |
| B3-0.5-1.0-20251117 | 225287 | 7.97 | 534048 | 8.85 | 544672 | 11.63 |
| B1-0.5-1.0-20251117 | 221426 | 7.97 | 523942 | 8.85 | 582743 | 11.63 |
| VW1118SBL01 | 212726 | 7.96 | 511741 | 8.85 | 533709 | 11.63 |
| VW1118SBS01 | 368383 | 7.96 | 685400 | 8.85 | 608119 | 11.63 |
| VW1118SBSD01 | 367695 | 7.96 | 692034 | 8.85 | 614192 | 11.63 |

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

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

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

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

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG NO.: Q3662

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

Instrument ID: MSVOA_W Time Analyzed: 09:46

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

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

IS4 = 1,4-Dichlorobenzene-d4

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

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


# SAMPLE DATA

Raw Data: **VW032485.D**

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

# Report of Analysis

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

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

Raw Data: **VW032485.D**

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

# Report of Analysis

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

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

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

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

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

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

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

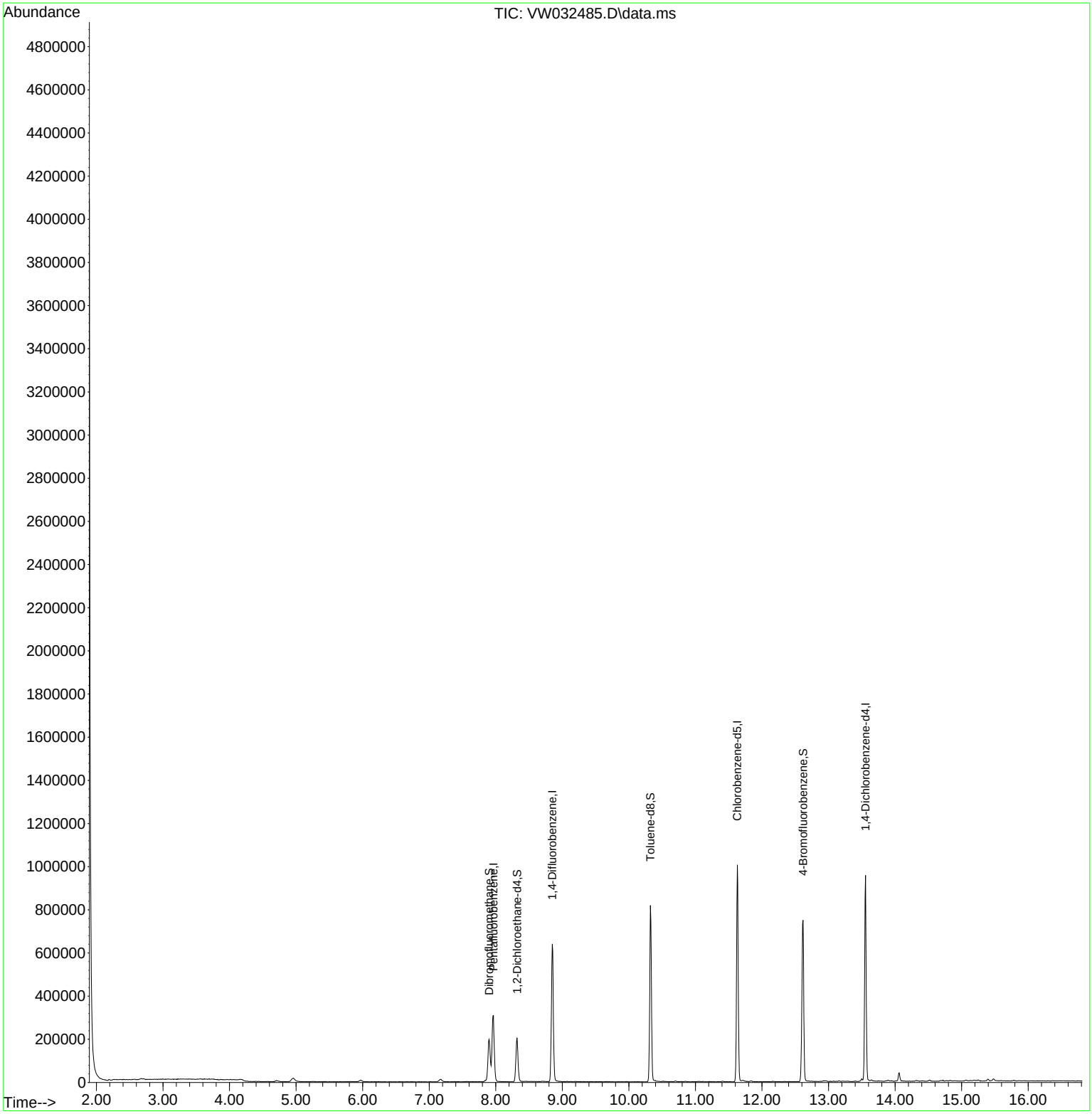
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.965 | 168 | 225287 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 534048 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629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

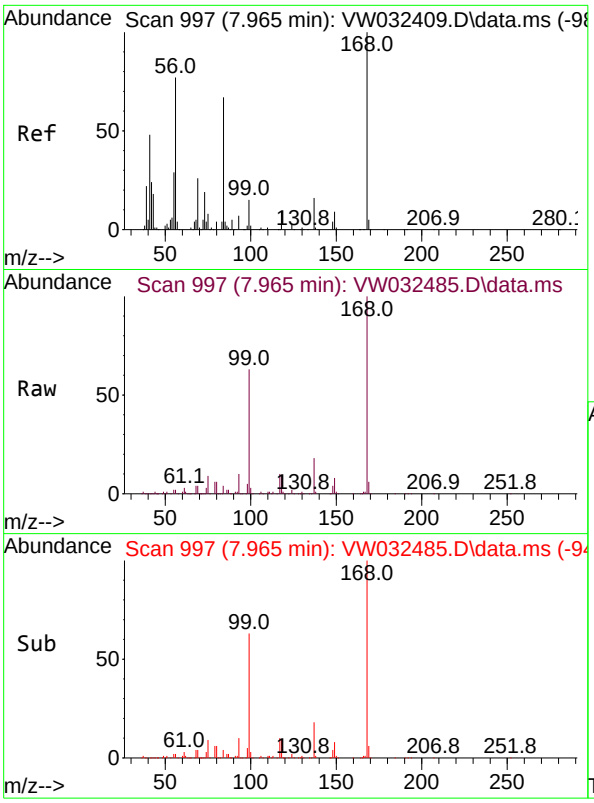
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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

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



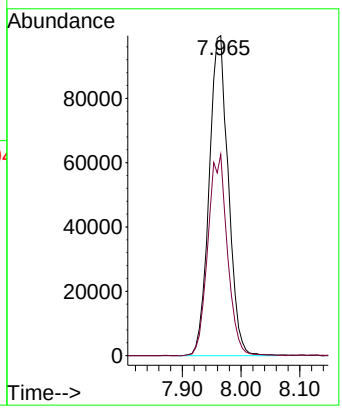


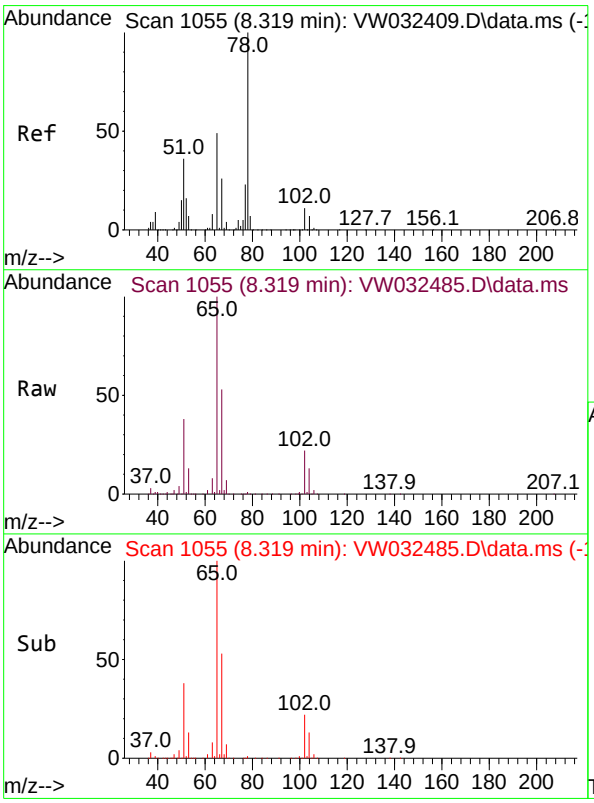

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 99
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

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

Tgt Ion:168 Resp: 225287

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

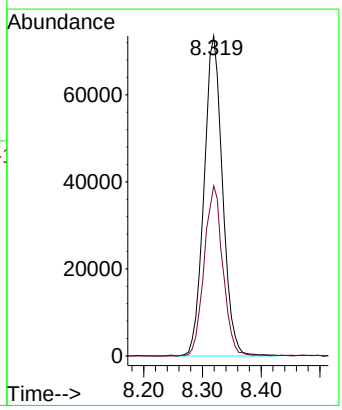


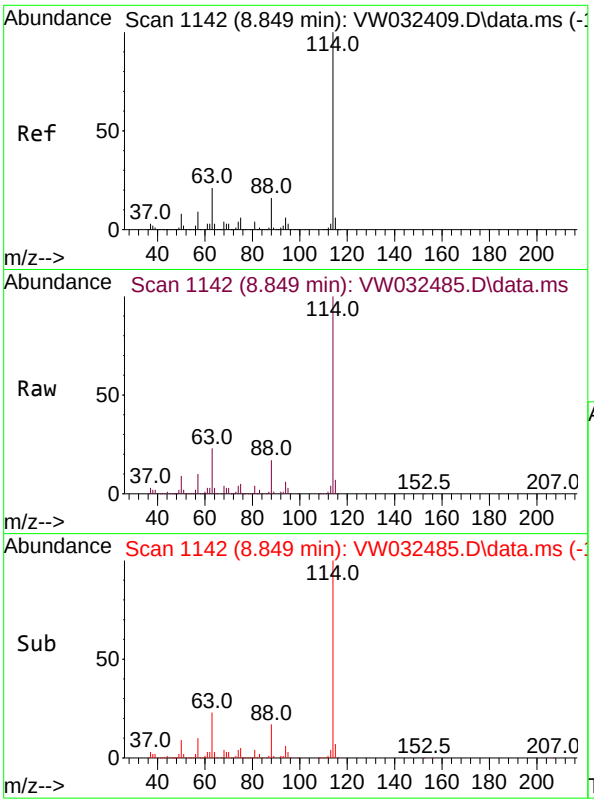




#33
1,2-Dichloroethane-d4
Concen: 55.292 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

Tgt Ion: 65 Resp: 160596

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



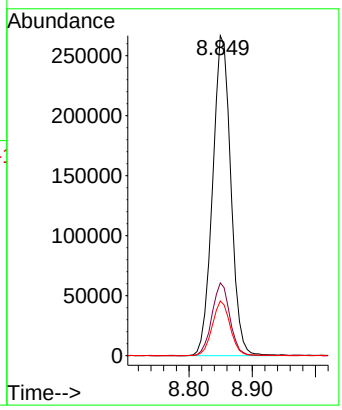


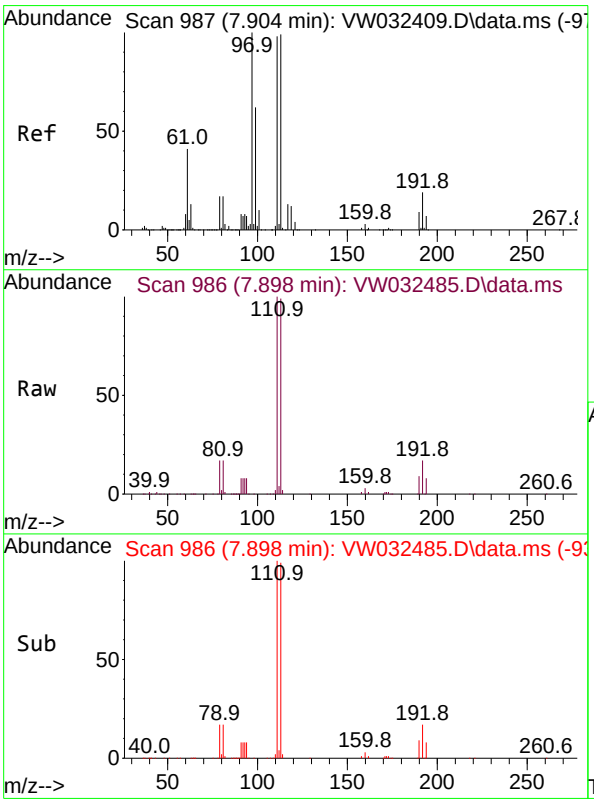

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

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

Tgt Ion:114 Resp: 534048

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

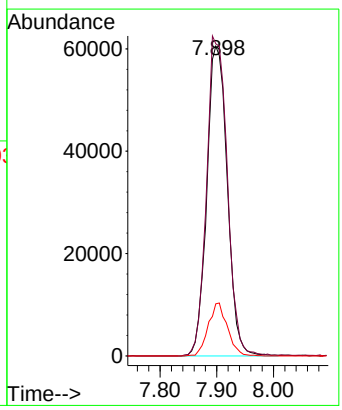


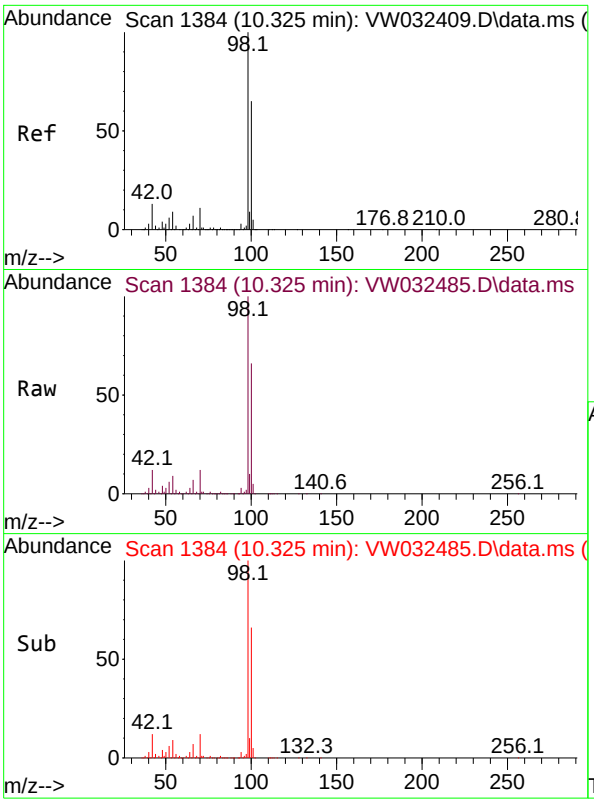




#35
Dibromofluoromethane
Concen: 47.549 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

Tgt Ion:113 Resp: 152037

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



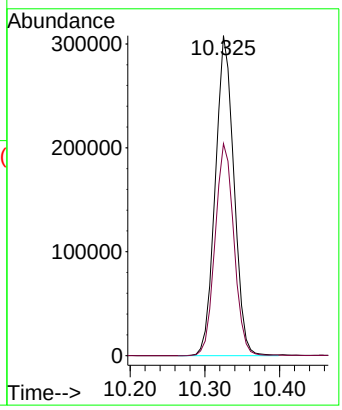


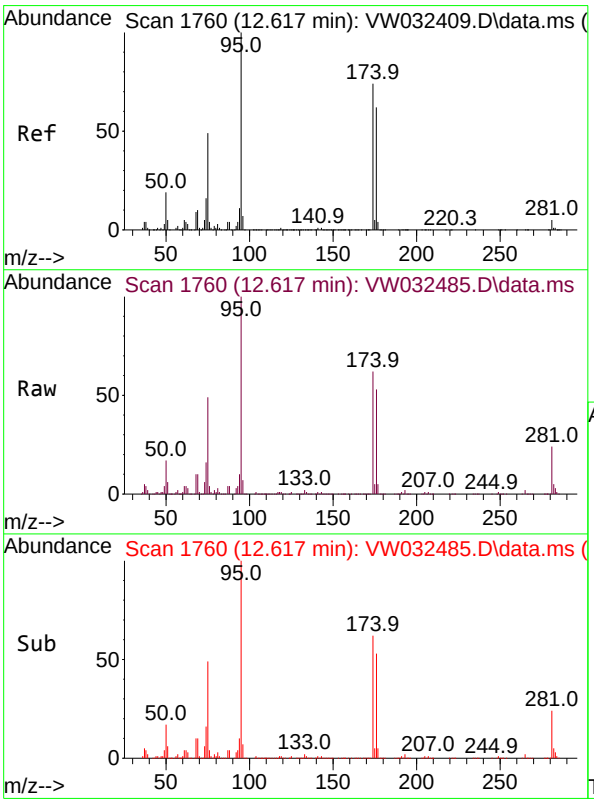

#50
Toluene-d8
Concen: 43.491 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

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

Tgt Ion: 98 Resp: 533491

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

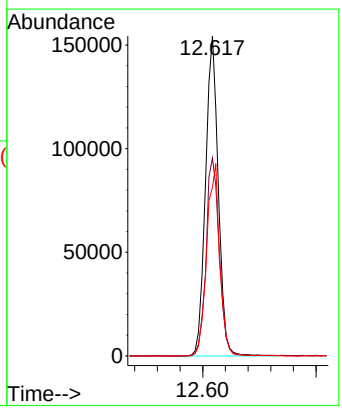


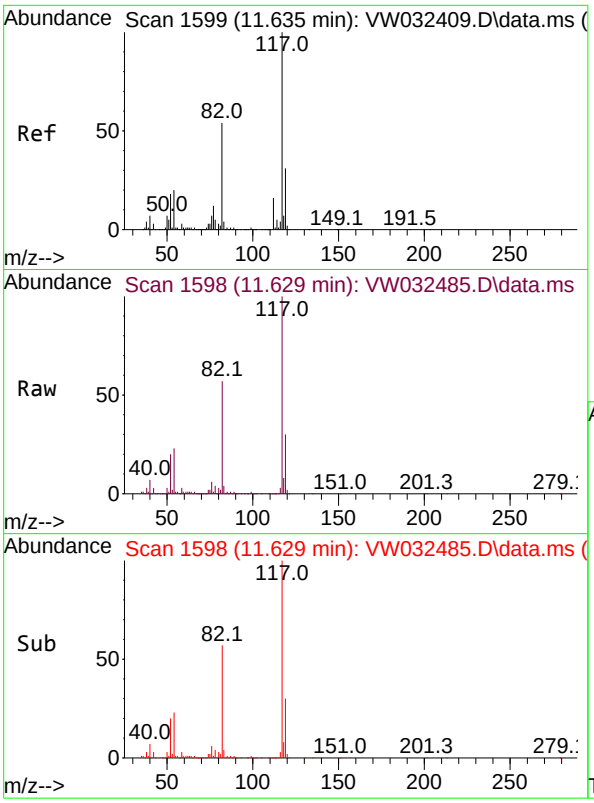




#62
4-Bromofluorobenzene
Concen: 52.144 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

Tgt Ion: 95 Resp: 241626

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



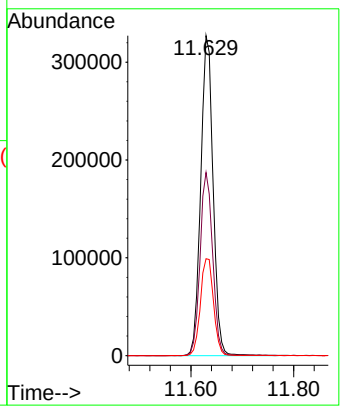


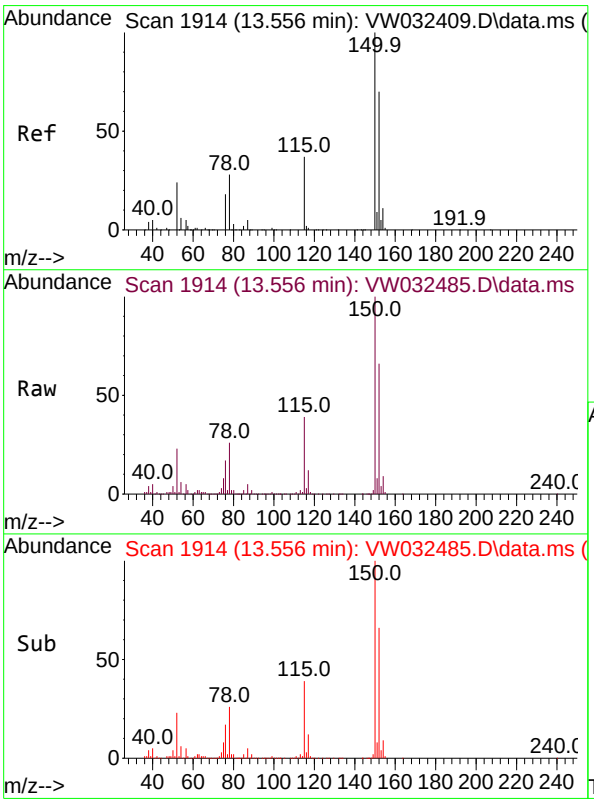

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

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

Tgt Ion:117 Resp: 544672

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

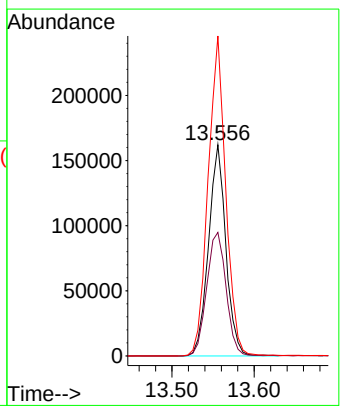



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032485.D
Acq: 18 Nov 2025 16:36

Tgt Ion:152 Resp: 237264

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



Sample Results: **VW032485.D**

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

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

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

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

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

Signal : TIC: VW032485.D\data.ms

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

Sum of corrected areas: 9170776

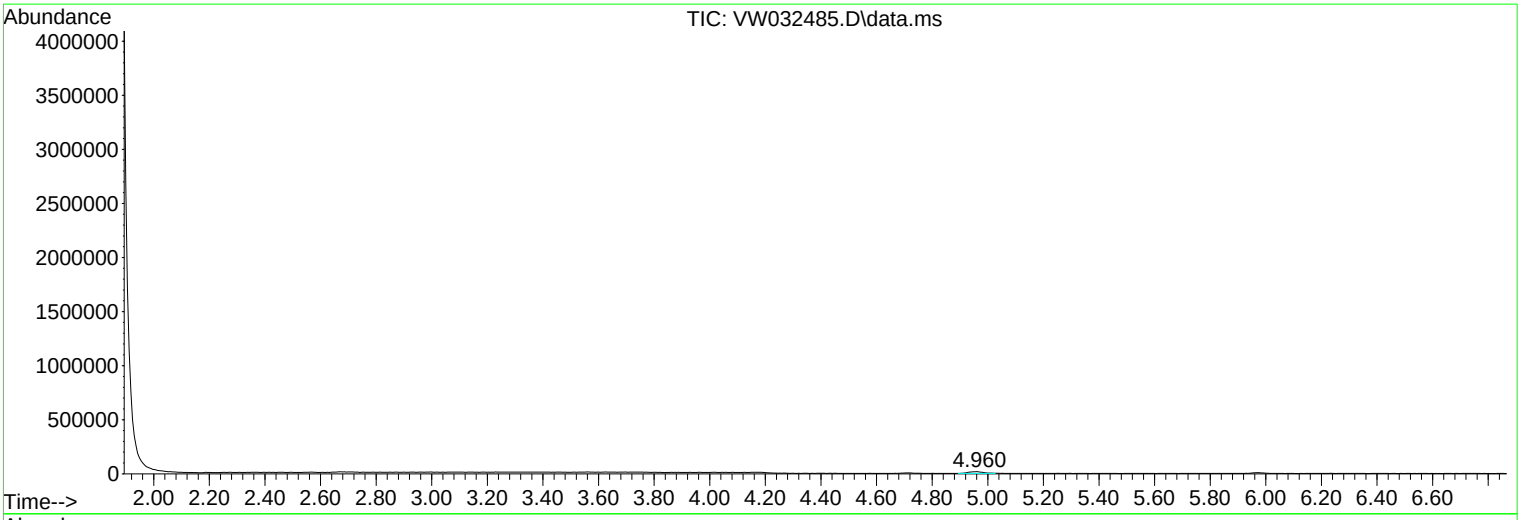
Sample Results: **VW032485.D**

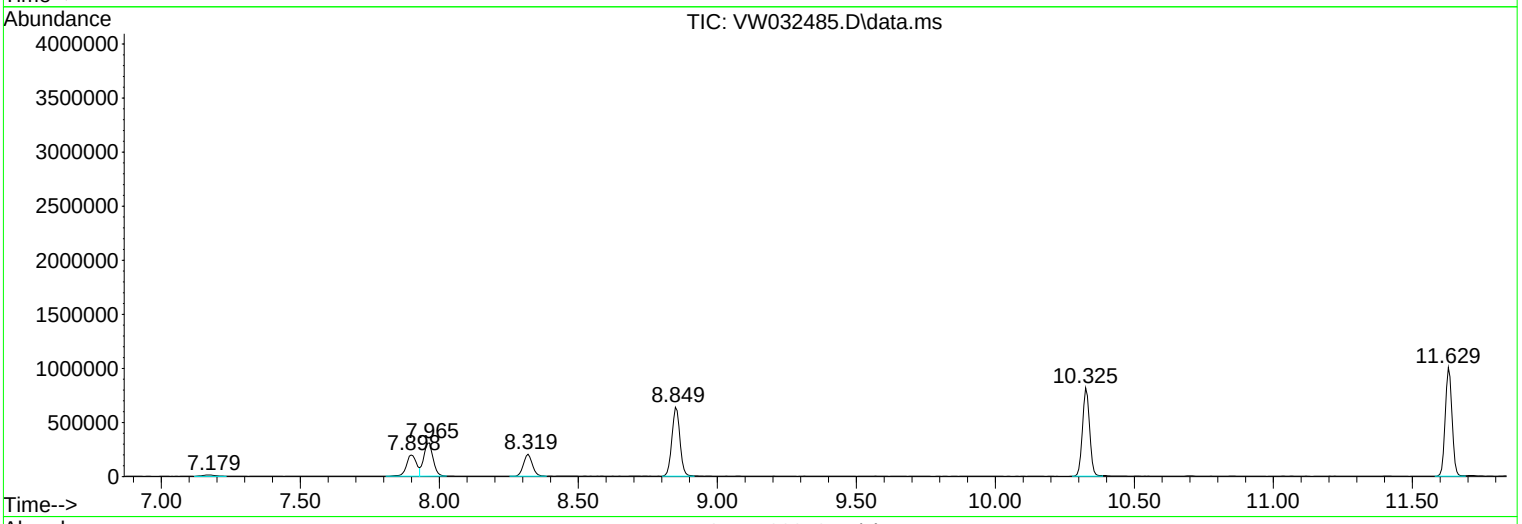
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032485.D
Acq On : 18 Nov 2025 16:36
Operator : SY/MD
Sample : Q3662-01
Misc : 6.40g/5mL/MSVOA_W/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

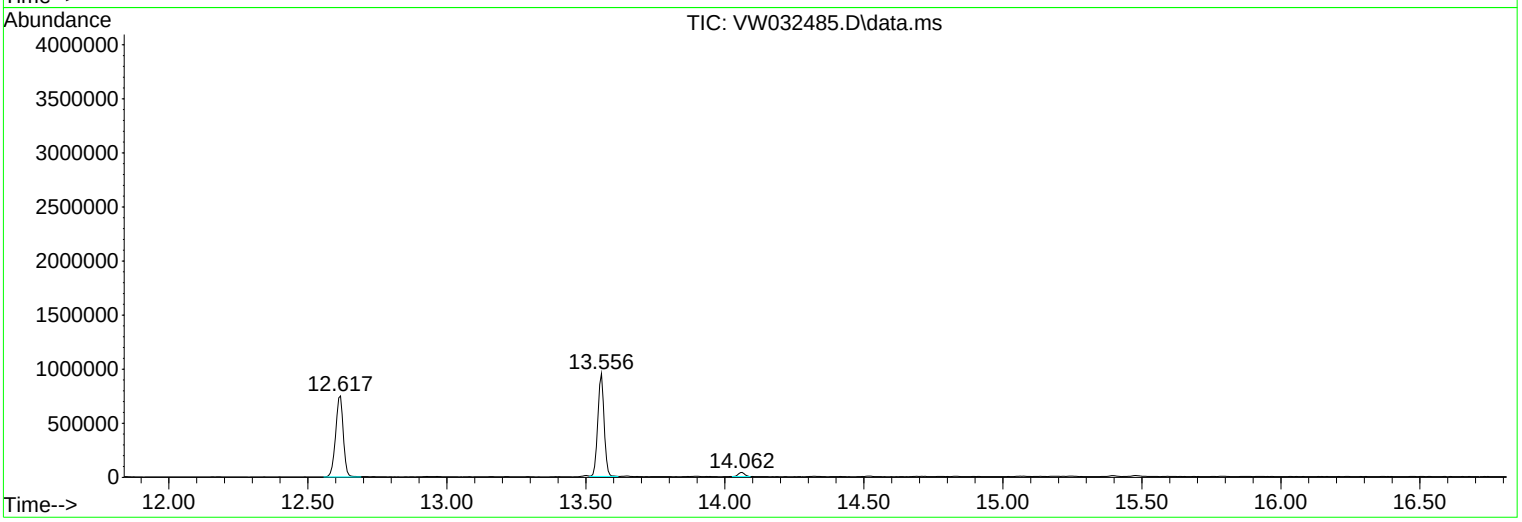
**Instrument :**
MSVOA_W
**ClientSampleId :**
B3-0.5-1.0-20251117

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

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



Library Search Compound Report

Sample Results: **VW032485.D**

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

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

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

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

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

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

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

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

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

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

Raw Data: **VW032486.D**

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

# Report of Analysis

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

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

Raw Data: **VW032486.D**

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

# Report of Analysis

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

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

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

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

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

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

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

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

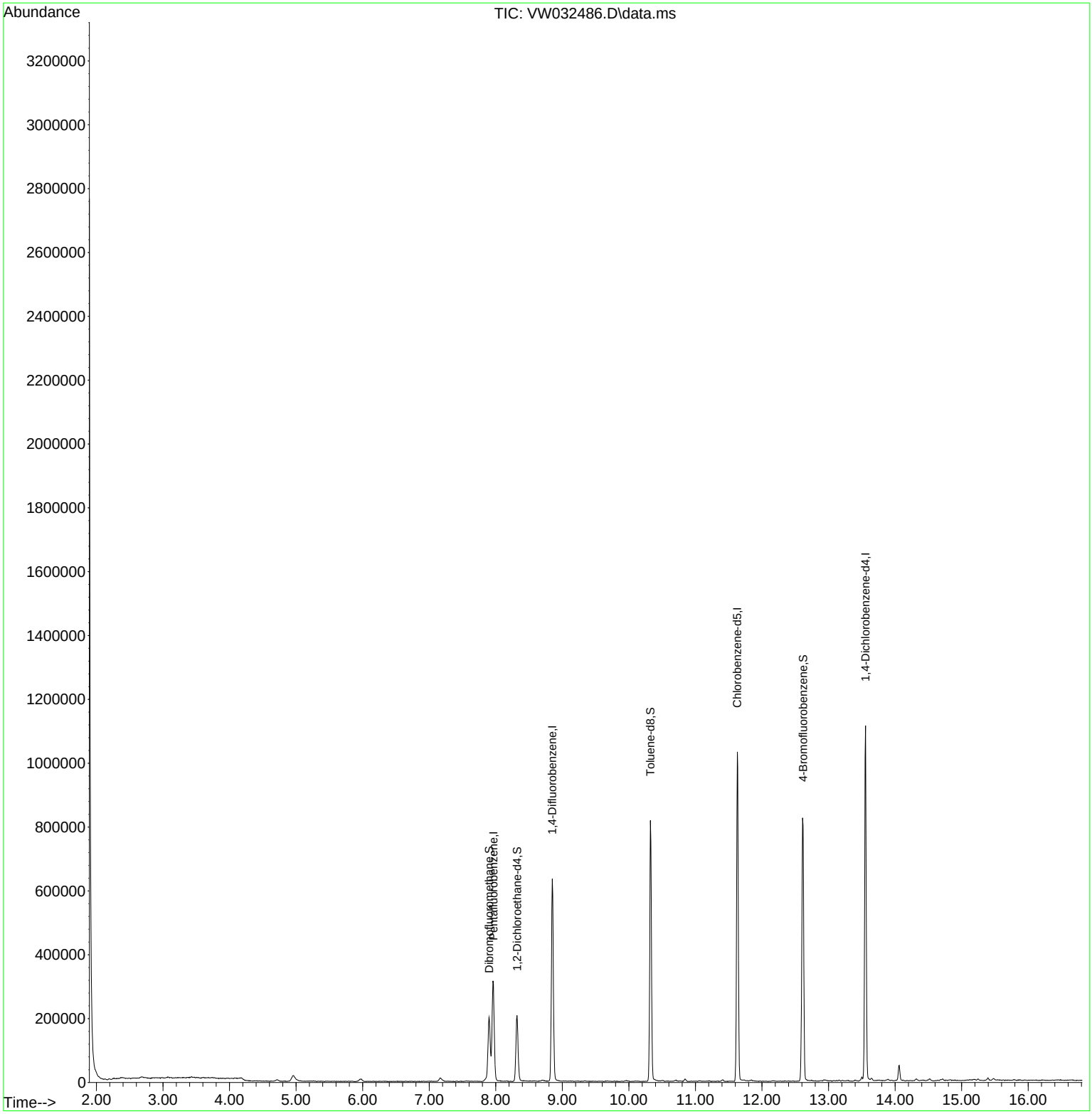
Target Compounds Qvalue

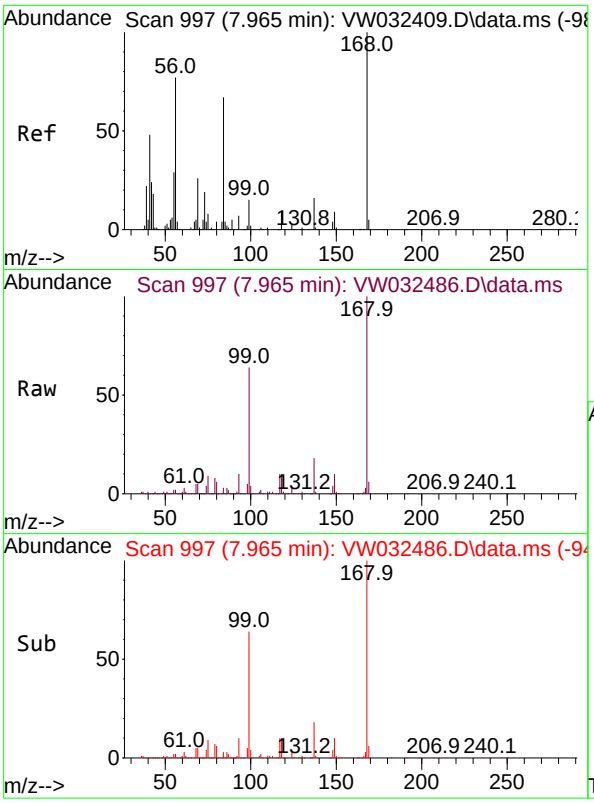
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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

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



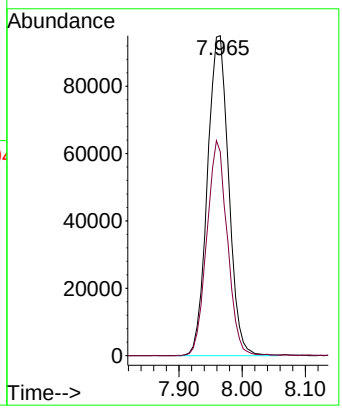


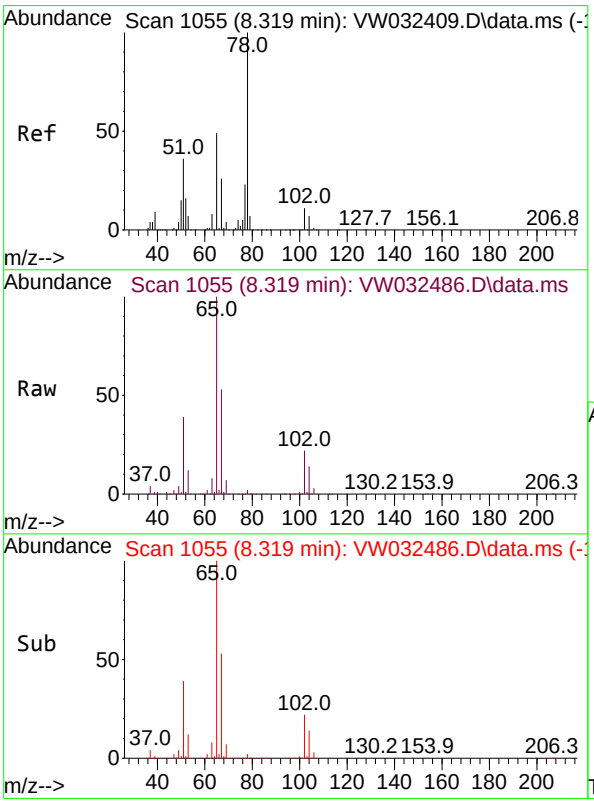

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 99
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

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

Tgt Ion:168 Resp: 221426

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

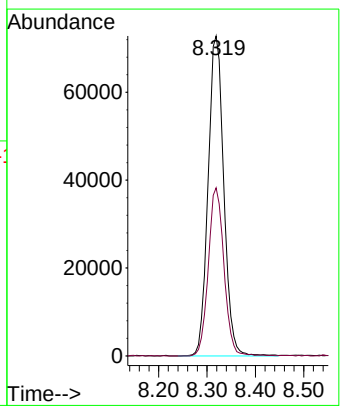


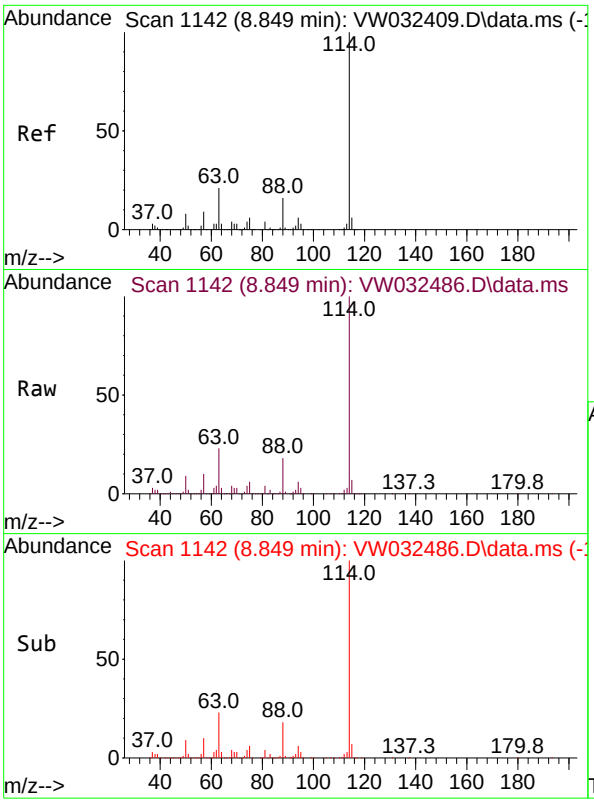




#33
1,2-Dichloroethane-d4
Concen: 57.341 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

Tgt Ion: 65 Resp: 163693

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



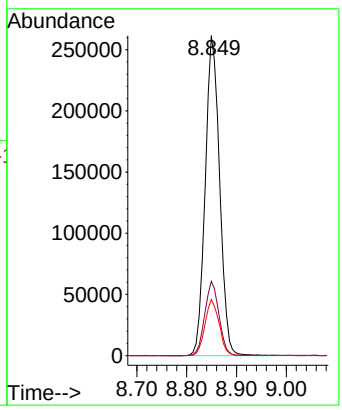


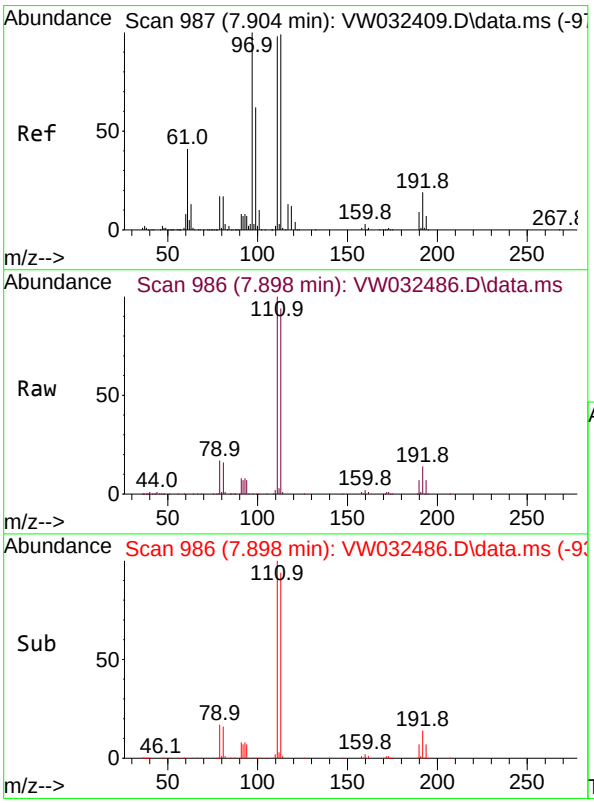

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

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

Tgt Ion:114 Resp: 523942

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

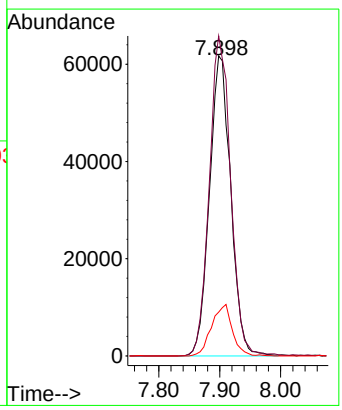


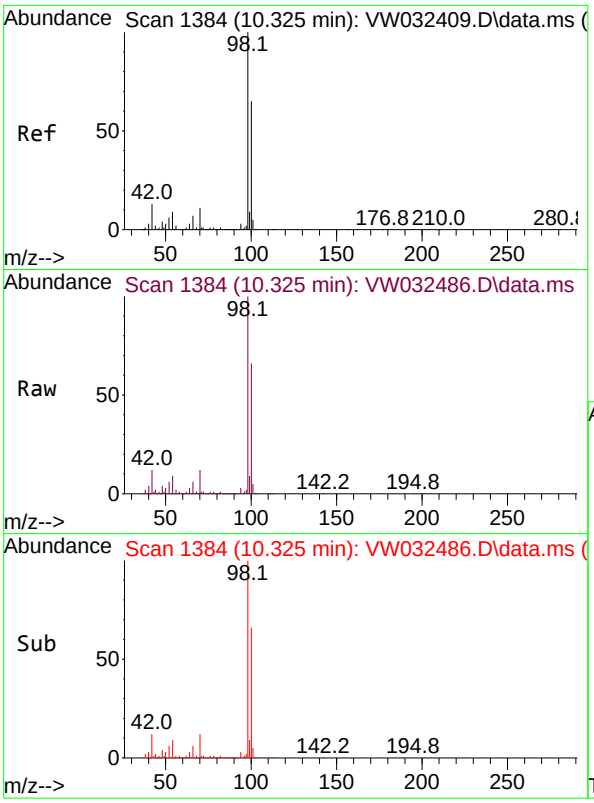




#35
Dibromofluoromethane
Concen: 47.746 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

Tgt Ion:113 Resp: 149778

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



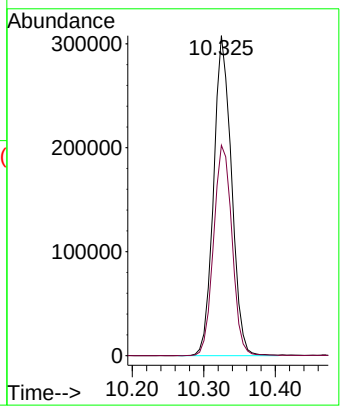


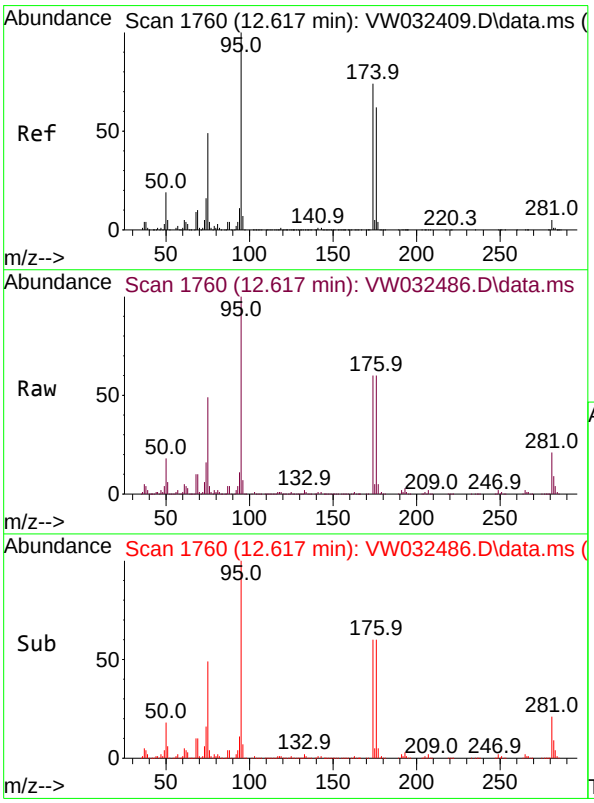

#50
Toluene-d8
Concen: 44.373 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

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

Tgt Ion: 98 Resp: 534007

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

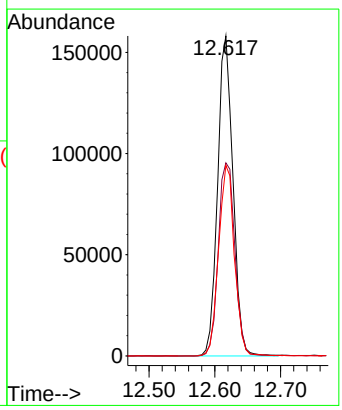


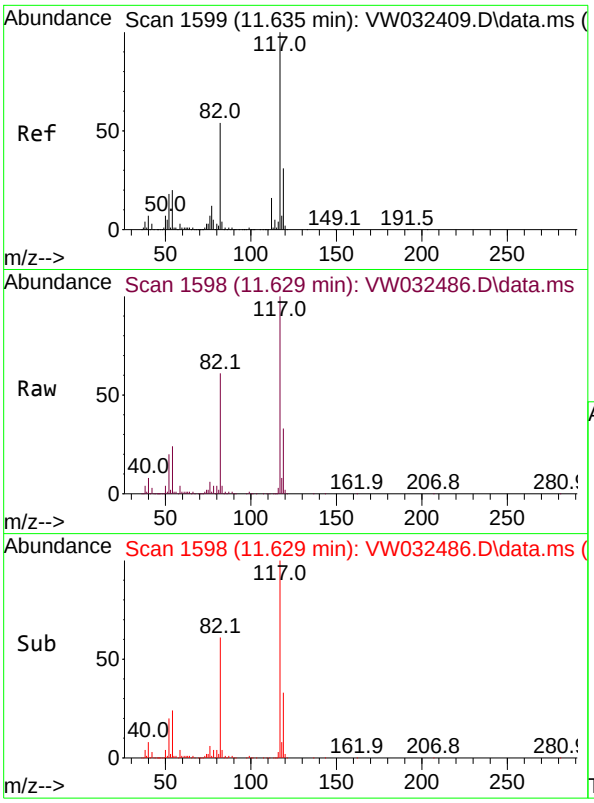




#62
4-Bromofluorobenzene
Concen: 56.135 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

Tgt Ion: 95 Resp: 255198

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



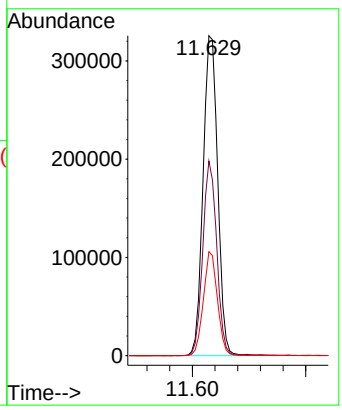


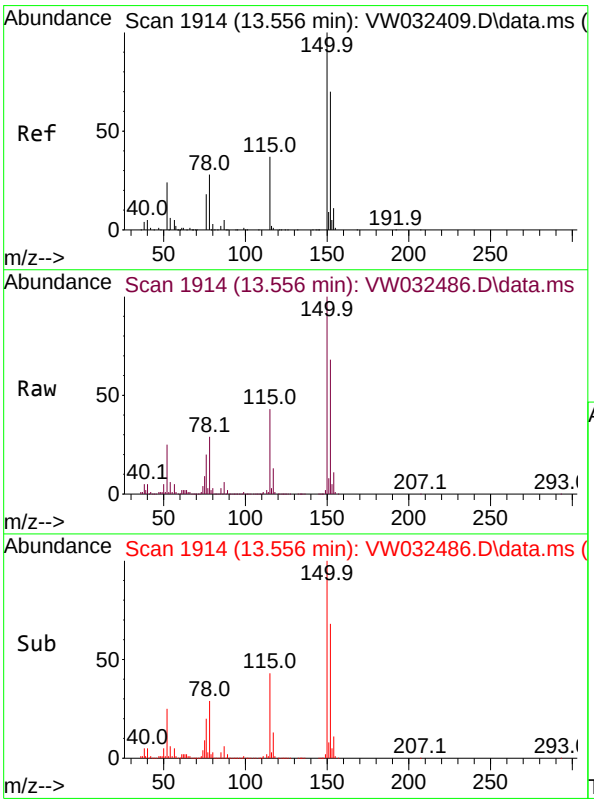

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

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

Tgt Ion:117 Resp: 582743

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

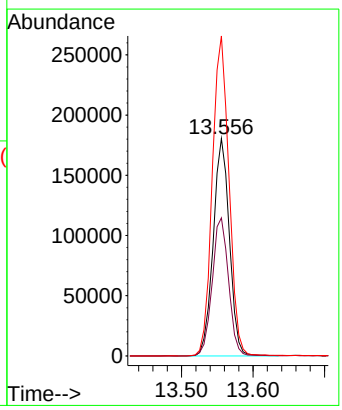



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032486.D
Acq: 18 Nov 2025 16:58

Tgt Ion:152 Resp: 283484

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



Sample Results: **VW032486.D**

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

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

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

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

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

Signal : TIC: VW032486.D\data.ms

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

Sum of corrected areas: 9818712

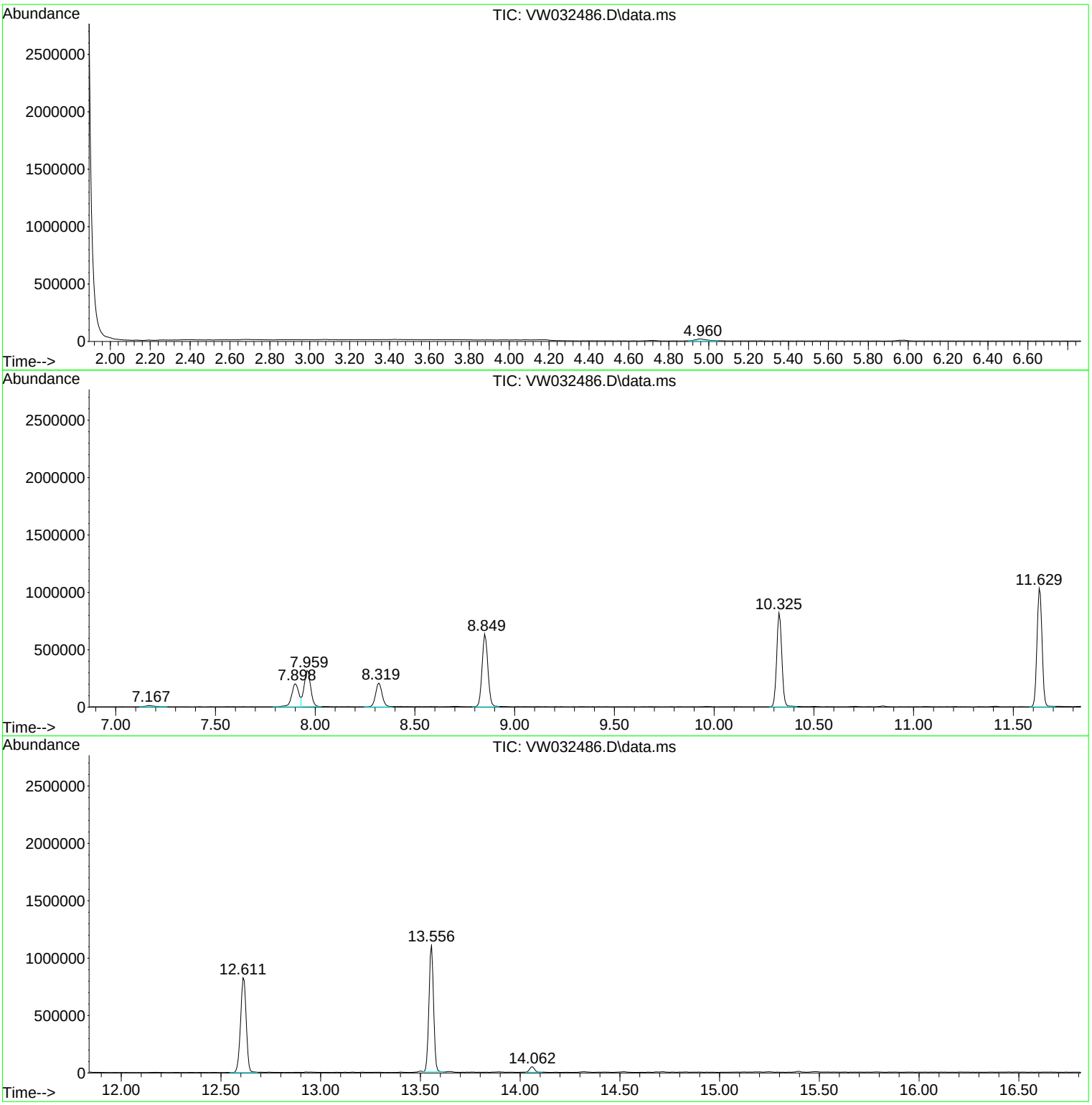
Sample Results: **VW032486.D**

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

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

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

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



Library Search Compound Report

Sample Results: **VW032486.D**

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

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

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

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

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

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

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

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

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

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

# CALIBRATION SUMMARY

Raw Data

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG No.: Q3662

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

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

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

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

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

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

Raw Data

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

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

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

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

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

# Response Factor Report MSVOA_W

Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
Method File : 82W111025S.M
Title : SW846 8260
Last Update : Tue Nov 11 03:48:21 2025
Response Via : Initial Calibration

Calibration Files
5 =VW032406.D 10 =VW032407.D 20 =VW032408.D 50 =VW032409.D 100 =VW032410.D 150 =VW032411.D

| | | Compound | 5 | 10 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.288 | 0.282 | 0.231 | 0.248 | 0.243 | 0.230 | 0.254 | 9.97 |
| 3) | P | Chloromethane | 0.476 | 0.439 | 0.408 | 0.408 | 0.438 | 0.440 | 0.435 | 5.84 |
| 4) | C | Vinyl Chloride | 0.591 | 0.567 | 0.525 | 0.538 | 0.543 | 0.528 | 0.549 | 4.64# |
| 5) | T | Bromomethane | 0.402 | 0.371 | 0.350 | 0.358 | 0.364 | 0.358 | 0.367 | 5.06 |
| 6) | T | Chloroethane | 0.382 | 0.361 | 0.340 | 0.355 | 0.362 | 0.354 | 0.359 | 3.85 |
| 7) | T | Trichlorofluor... | 0.420 | 0.416 | 0.392 | 0.459 | 0.442 | 0.452 | 0.430 | 5.87 |
| 8) | T | Diethyl Ether | 0.376 | 0.359 | 0.337 | 0.340 | 0.351 | 0.348 | 0.352 | 4.00 |
| 9) | T | 1,1,2-Trichlor... | 0.506 | 0.495 | 0.438 | 0.467 | 0.458 | 0.449 | 0.469 | 5.65 |
| 10) | T | Methyl Iodide | 0.771 | 0.762 | 0.725 | 0.744 | 0.781 | 0.747 | 0.755 | 2.68 |
| 11) | T | Tert butyl alc... | 0.055 | 0.063 | 0.057 | 0.054 | 0.054 | 0.052 | 0.056 | 6.52 |
| 12) | CM | 1,1-Dichloroet... | 0.576 | 0.541 | 0.506 | 0.540 | 0.539 | 0.523 | 0.537 | 4.33# |
| 13) | T | Acrolein | 0.095 | 0.095 | 0.096 | 0.090 | 0.094 | 0.092 | 0.094 | 2.32 |
| 14) | T | Allyl chloride | 1.051 | 1.034 | 0.979 | 1.041 | 1.065 | 1.031 | 1.034 | 2.84 |
| 15) | T | Acrylonitrile | 0.208 | 0.208 | 0.197 | 0.203 | 0.204 | 0.200 | 0.203 | 2.19 |
| 16) | T | Acetone | 0.216 | 0.194 | 0.183 | 0.186 | 0.190 | 0.188 | 0.193 | 6.27 |
| 17) | T | Carbon Disulfide | 1.604 | 1.574 | 1.497 | 1.608 | 1.644 | 1.603 | 1.588 | 3.14 |
| 18) | T | Methyl Acetate | 0.486 | 0.494 | 0.459 | 0.463 | 0.476 | 0.487 | 0.478 | 2.92 |
| 19) | T | Methyl tert-bu... | 1.186 | 1.163 | 1.107 | 1.139 | 1.126 | 1.076 | 1.133 | 3.47 |
| 20) | T | Methylene Chlo... | 0.789 | 0.741 | 0.682 | 0.640 | 0.658 | 0.629 | 0.690 | 9.09 |
| 21) | T | trans-1,2-Dich... | 0.646 | 0.619 | 0.596 | 0.603 | 0.624 | 0.598 | 0.615 | 3.07 |
| 22) | T | Diisopropyl ether | 2.154 | 2.132 | 2.078 | 2.085 | 2.134 | 2.043 | 2.104 | 2.01 |
| 23) | T | Vinyl Acetate | 1.416 | 1.434 | 1.406 | 1.460 | 1.493 | 1.440 | 1.442 | 2.19 |
| 24) | P | 1,1-Dichloroet... | 1.217 | 1.156 | 1.091 | 1.148 | 1.168 | 1.138 | 1.153 | 3.55 |
| 25) | T | 2-Butanone | 0.292 | 0.288 | 0.282 | 0.280 | 0.284 | 0.278 | 0.284 | 1.87 |
| 26) | T | 2,2-Dichloropr... | 0.719 | 0.681 | 0.616 | 0.619 | 0.629 | 0.592 | 0.643 | 7.38 |
| 27) | T | cis-1,2-Dichlo... | 0.764 | 0.727 | 0.713 | 0.729 | 0.748 | 0.723 | 0.734 | 2.53 |
| 28) | T | Bromochloromet... | 0.606 | 0.563 | 0.533 | 0.502 | 0.538 | 0.527 | 0.545 | 6.59 |
| 29) | T | Tetrahydrofuran | 0.184 | 0.182 | 0.178 | 0.181 | 0.182 | 0.175 | 0.180 | 1.71 |
| 30) | C | Chloroform | 1.164 | 1.165 | 1.089 | 1.109 | 1.141 | 1.103 | 1.129 | 2.89# |
| 31) | T | Cyclohexane | 1.236 | 1.141 | 1.016 | 1.027 | 1.003 | 0.976 | 1.066 | 9.46 |
| 32) | T | 1,1,1-Trichlor... | 0.831 | 0.820 | 0.776 | 0.817 | 0.817 | 0.777 | 0.806 | 2.94 |
| 33) | S | 1,2-Dichloroet... | 0.691 | 0.654 | 0.647 | 0.605 | 0.640 | 0.630 | 0.645 | 4.39 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | 0.314 | 0.302 | 0.305 | 0.287 | 0.297 | 0.291 | 0.299 | 3.29 |
| 36) | T | 1,1-Dichloropr... | 0.435 | 0.447 | 0.436 | 0.455 | 0.436 | 0.437 | 0.441 | 1.89 |
| 37) | T | Ethyl Acetate | 0.315 | 0.347 | 0.333 | 0.337 | 0.320 | 0.317 | 0.328 | 3.95 |
| 38) | T | Carbon Tetrach... | 0.392 | 0.398 | 0.386 | 0.399 | 0.386 | 0.391 | 0.392 | 1.41 |
| 39) | T | Methylcyclohexane | 0.560 | 0.575 | 0.562 | 0.598 | 0.562 | 0.572 | 0.571 | 2.55 |
| 40) | TM | Benzene | 1.410 | 1.473 | 1.410 | 1.437 | 1.413 | 1.380 | 1.420 | 2.22 |
| 41) | T | Methacrylonitrile | 0.161 | 0.174 | 0.193 | 0.187 | 0.182 | 0.184 | 0.180 | 6.34 |
| 42) | TM | 1,2-Dichloroet... | 0.425 | 0.423 | 0.416 | 0.421 | 0.409 | 0.409 | 0.417 | 1.70 |
| 43) | T | Isopropyl Acetate | 0.556 | 0.583 | 0.575 | 0.604 | 0.581 | 0.586 | 0.581 | 2.68 |
| 44) | TM | Trichloroethene | 0.336 | 0.340 | 0.327 | 0.335 | 0.323 | 0.323 | 0.331 | 2.20 |
| 45) | C | 1,2-Dichloropr... | 0.356 | 0.360 | 0.354 | 0.356 | 0.350 | 0.346 | 0.354 | 1.37# |
| 46) | T | Dibromomethane | 0.207 | 0.210 | 0.210 | 0.211 | 0.202 | 0.200 | 0.207 | 2.36 |
| 47) | T | Bromodichlorom... | 0.460 | 0.469 | 0.456 | 0.482 | 0.481 | 0.482 | 0.471 | 2.46 |
| 48) | T | Methyl methacr... | 0.261 | 0.261 | 0.261 | 0.303 | 0.275 | 0.295 | 0.276 | 6.80 |
| 49) | T | 1,4-Dioxane | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 3.45 |
| 50) | S | Toluene-d8 | 1.171 | 1.176 | 1.152 | 1.130 | 1.136 | 1.125 | 1.148 | 1.87 |
| 51) | T | 4-Methyl-2-Pen... | 0.304 | 0.329 | 0.330 | 0.336 | 0.317 | 0.311 | 0.321 | 3.90 |
| 52) | CM | Toluene | 0.875 | 0.896 | 0.870 | 0.894 | 0.870 | 0.859 | 0.877 | 1.69# |
| 53) | T | t-1,3-Dichloro... | 0.445 | 0.481 | 0.469 | 0.504 | 0.508 | 0.507 | 0.486 | 5.23 |
| 54) | T | cis-1,3-Dichlo... | 0.531 | 0.553 | 0.556 | 0.579 | 0.576 | 0.574 | 0.562 | 3.24 |
| 55) | T | 1,1,2-Trichlor... | 0.288 | 0.283 | 0.282 | 0.293 | 0.278 | 0.277 | 0.284 | 2.14 |
| 56) | T | Ethyl methacry... | 0.389 | 0.428 | 0.436 | 0.458 | 0.449 | 0.450 | 0.435 | 5.71 |

Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
Method File : 82W111025S.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.495 | 0.517 | 0.512 | 0.523 | 0.497 | 0.495 | 0.506 | 2.43 |
| 58) | T | 2-Chloroethyl ... | 0.218 | 0.236 | 0.237 | 0.226 | 0.238 | 0.235 | 0.232 | 3.45 |
| 59) | T | 2-Hexanone | 0.223 | 0.245 | 0.241 | 0.244 | 0.231 | 0.226 | 0.235 | 4.02 |
| 60) | T | Dibromochlorom... | 0.306 | 0.317 | 0.314 | 0.320 | 0.320 | 0.322 | 0.317 | 1.86 |
| 61) | T | 1,2-Dibromoethane | 0.261 | 0.292 | 0.279 | 0.281 | 0.272 | 0.272 | 0.276 | 3.84 |
| 62) | S | 4-Bromofluorob... | 0.444 | 0.444 | 0.454 | 0.415 | 0.426 | 0.421 | 0.434 | 3.56 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.298 | 0.304 | 0.285 | 0.300 | 0.303 | 0.287 | 0.296 | 2.79 |
| 65) | PM | Chlorobenzene | 1.087 | 1.088 | 1.042 | 1.133 | 1.093 | 1.023 | 1.078 | 3.68 |
| 66) | T | 1,1,1,2-Tetrac... | 0.338 | 0.328 | 0.324 | 0.339 | 0.346 | 0.327 | 0.334 | 2.52 |
| 67) | C | Ethyl Benzene | 1.875 | 1.853 | 1.822 | 1.943 | 1.915 | 1.779 | 1.865 | 3.23# |
| 68) | T | m/p-Xylenes | 0.692 | 0.713 | 0.679 | 0.732 | 0.708 | 0.677 | 0.700 | 3.02 |
| 69) | T | o-Xylene | 0.668 | 0.659 | 0.662 | 0.682 | 0.699 | 0.653 | 0.670 | 2.54 |
| 70) | T | Styrene | 1.104 | 1.146 | 1.132 | 1.208 | 1.212 | 1.118 | 1.153 | 4.01 |
| 71) | P | Bromoform | 0.187 | 0.201 | 0.193 | 0.203 | 0.205 | 0.196 | 0.198 | 3.53 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 3.523 | 3.562 | 3.511 | 3.968 | 3.781 | 3.689 | 3.672 | 4.87 |
| 74) | T | N-amyl acetate | 1.175 | 1.202 | 1.245 | 1.403 | 1.334 | 1.298 | 1.276 | 6.70 |
| 75) | P | 1,1,2,2-Tetrac... | 0.886 | 0.869 | 0.845 | 0.927 | 0.871 | 0.831 | 0.871 | 3.84 |
| 76) | T | 1,2,3-Trichlor... | 0.735 | 0.749 | 0.730 | 0.671 | 0.621 | 0.606 | 0.686 | 9.02 |
| 77) | T | Bromobenzene | 0.877 | 0.865 | 0.811 | 0.942 | 0.863 | 0.860 | 0.869 | 4.86 |
| 78) | T | n-propylbenzene | 4.287 | 4.362 | 4.312 | 4.819 | 4.565 | 4.488 | 4.472 | 4.48 |
| 79) | T | 2-Chlorotoluene | 2.669 | 2.699 | 2.630 | 2.874 | 2.789 | 2.719 | 2.730 | 3.23 |
| 80) | T | 1,3,5-Trimethy... | 2.919 | 2.983 | 2.969 | 3.242 | 3.086 | 2.978 | 3.030 | 3.87 |
| 81) | T | trans-1,4-Dich... | 0.263 | 0.281 | 0.277 | 0.328 | 0.323 | 0.325 | 0.299 | 9.73 |
| 82) | T | 4-Chlorotoluene | 2.804 | 2.776 | 2.752 | 3.008 | 2.858 | 2.837 | 2.839 | 3.22 |
| 83) | T | tert-Butylbenzene | 2.567 | 2.531 | 2.515 | 2.880 | 2.687 | 2.632 | 2.635 | 5.17 |
| 84) | T | 1,2,4-Trimethy... | 3.047 | 3.050 | 2.963 | 3.291 | 3.071 | 3.067 | 3.081 | 3.56 |
| 85) | T | sec-Butylbenzene | 3.938 | 3.846 | 3.784 | 4.197 | 3.902 | 3.883 | 3.925 | 3.65 |
| 86) | T | p-Isopropyltol... | 3.148 | 3.210 | 3.114 | 3.434 | 3.289 | 3.249 | 3.241 | 3.53 |
| 87) | T | 1,3-Dichlorobe... | 1.665 | 1.630 | 1.620 | 1.721 | 1.659 | 1.596 | 1.648 | 2.66 |
| 88) | T | 1,4-Dichlorobe... | 1.776 | 1.680 | 1.644 | 1.774 | 1.658 | 1.602 | 1.689 | 4.24 |
| 89) | T | n-Butylbenzene | 3.059 | 3.073 | 3.087 | 3.388 | 3.184 | 3.206 | 3.166 | 3.94 |
| 90) | T | Hexachloroethane | 0.563 | 0.564 | 0.540 | 0.624 | 0.598 | 0.617 | 0.584 | 5.77 |
| 91) | T | 1,2-Dichlorobe... | 1.547 | 1.528 | 1.464 | 1.545 | 1.509 | 1.488 | 1.513 | 2.19 |
| 92) | T | 1,2-Dibromo-3-... | 0.145 | 0.146 | 0.145 | 0.159 | 0.152 | 0.154 | 0.150 | 3.85 |
| 93) | T | 1,2,4-Trichlor... | 0.943 | 0.917 | 0.923 | 1.032 | 0.972 | 0.992 | 0.963 | 4.62 |
| 94) | T | Hexachlorobuta... | 0.408 | 0.386 | 0.366 | 0.422 | 0.404 | 0.414 | 0.400 | 5.17 |
| 95) | T | Naphthalene | 2.182 | 2.294 | 2.276 | 2.598 | 2.586 | 2.472 | 2.401 | 7.29 |
| 96) | T | 1,2,3-Trichlor... | 0.892 | 0.831 | 0.836 | 0.901 | 0.880 | 0.906 | 0.874 | 3.76 |

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032406.D
Acq On : 10 Nov 2025 15:11
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.965 | 168 | 446044 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.855 | 114 | 861919 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 746442 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 357631 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 30808 | 5.357 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = | 10.720%# | | |
| 35) Dibromofluoromethane | 7.904 | 113 | 27089 | 5.249 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = | 10.500%# | | |
| 50) Toluene-d8 | 10.325 | 98 | 100946 | 5.099 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = | 10.200%# | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 38253 | 5.115 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = | 10.220%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 12853m | 5.626 | ug/l | |
| 3) Chloromethane | 2.253 | 50 | 21252 | 5.479 | ug/l | 96 |
| 4) Vinyl Chloride | 2.405 | 62 | 26343 | 5.381 | ug/l | 97 |
| 5) Bromomethane | 2.826 | 94 | 17936 | 5.477 | ug/l | 86 |
| 6) Chloroethane | 2.978 | 64 | 17036 | 5.319 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.308 | 101 | 18735 | 4.881 | ug/l | 94 |
| 8) Diethyl Ether | 3.716 | 74 | 16754 | 5.339 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 22551 | 5.394 | ug/l | 98 |
| 10) Methyl Iodide | 4.307 | 142 | 34394 | 5.107 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.216 | 59 | 12284 | 24.704 | ug/l # | 94 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 25678 | 5.356 | ug/l | 98 |
| 13) Acrolein | 3.929 | 56 | 21243 | 25.462 | ug/l | 97 |
| 14) Allyl chloride | 4.710 | 41 | 46866 | 5.083 | ug/l | 98 |
| 15) Acrylonitrile | 5.405 | 53 | 46350 | 25.546 | ug/l | 99 |
| 16) Acetone | 4.161 | 43 | 48252 | 28.046 | ug/l | 93 |
| 17) Carbon Disulfide | 4.417 | 76 | 71547 | 5.049 | ug/l | 98 |
| 18) Methyl Acetate | 4.716 | 43 | 21679 | 5.089 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.466 | 73 | 52903 | 5.235 | ug/l | 96 |
| 20) Methylene Chloride | 4.954 | 84 | 35179 | 5.718 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.460 | 96 | 28795 | 5.253 | ug/l | 96 |
| 22) Diisopropyl ether | 6.338 | 45 | 96076 | 5.118 | ug/l | 94 |
| 23) Vinyl Acetate | 6.289 | 43 | 315880 | 24.561 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.246 | 63 | 54281 | 5.278 | ug/l | 99 |
| 25) 2-Butanone | 7.197 | 43 | 65204 | 25.725 | ug/l | 95 |
| 26) 2,2-Dichloropropane | 7.191 | 77 | 32052 | 5.592 | ug/l | 96 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 34097 | 5.205 | ug/l | 96 |
| 28) Bromochloromethane | 7.532 | 49 | 27041 | 5.563 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.557 | 42 | 41010 | 25.492 | ug/l | 98 |
| 30) Chloroform | 7.691 | 83 | 51922 | 5.157 | ug/l | 98 |
| 31) Cyclohexane | 7.965 | 56 | 55149 | 5.797 | ug/l # | 75 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 37069 | 5.154 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.093 | 75 | 37460 | 4.927 | ug/l | 96 |
| 37) Ethyl Acetate | 7.276 | 43 | 27118 | 4.796 | ug/l | 96 |
| 38) Carbon Tetrachloride | 8.087 | 117 | 33800 | 5.003 | ug/l | 95 |
| 39) Methylcyclohexane | 9.343 | 83 | 48247 | 4.898 | ug/l | 97 |
| 40) Benzene | 8.337 | 78 | 121492 | 4.962 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032406.D
Acq On : 10 Nov 2025 15:11
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.496 | 41 | 13857 | 4.462 | ug/l | | 93 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 36648 | 5.095 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.435 | 43 | 47925 | 4.787 | ug/l | | 98 |
| 44) Trichloroethene | 9.099 | 130 | 28965 | 5.084 | ug/l | | 92 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 30643 | 5.026 | ug/l | | 97 |
| 46) Dibromomethane | 9.465 | 93 | 17884 | 5.020 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.648 | 83 | 39690 | 4.884 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.441 | 41 | 22511 | 4.732 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.465 | 88 | 4928 | 98.734 | ug/l | # | 98 |
| 51) 4-Methyl-2-Pentanone | 10.209 | 43 | 130944 | 23.659 | ug/l | | 99 |
| 52) Toluene | 10.392 | 92 | 75426 | 4.987 | ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 10.605 | 75 | 38349 | 4.582 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 10.081 | 75 | 45809 | 4.733 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 24841 | 5.082 | ug/l | | 95 |
| 56) Ethyl methacrylate | 10.648 | 69 | 33566 | 4.476 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 42638 | 4.884 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 93963 | 23.527 | ug/l | | 97 |
| 59) 2-Hexanone | 10.971 | 43 | 96031 | 23.716 | ug/l | | 99 |
| 60) Dibromochloromethane | 11.129 | 129 | 26381 | 4.833 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.233 | 107 | 22493 | 4.725 | ug/l | | 97 |
| 64) Tetrachloroethene | 10.867 | 164 | 22220 | 5.027 | ug/l | | 93 |
| 65) Chlorobenzene | 11.660 | 112 | 81174 | 5.045 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 25207 | 5.063 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.727 | 91 | 139985 | 5.029 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.837 | 106 | 103326 | 9.886 | ug/l | | 99 |
| 69) o-Xylene | 12.166 | 106 | 49846 | 4.981 | ug/l | | 99 |
| 70) Styrene | 12.178 | 104 | 82403 | 4.787 | ug/l | | 98 |
| 71) Bromoform | 12.343 | 173 | 13933 | 4.724 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.458 | 105 | 125978 | 4.796 | ug/l | | 100 |
| 74) N-amyl acetate | 12.269 | 43 | 42020 | 4.604 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83 | 31677 | 5.082 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 26298m | 5.362 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 31353 | 5.042 | ug/l | | 99 |
| 78) n-propylbenzene | 12.800 | 91 | 153312 | 4.793 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 95466 | 4.889 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 104405 | 4.818 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.513 | 75 | 9398 | 4.390 | ug/l | | 88 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 100291 | 4.938 | ug/l | | 97 |
| 83) tert-Butylbenzene | 13.202 | 119 | 91812 | 4.871 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 108985 | 4.945 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.379 | 105 | 140828 | 5.016 | ug/l | | 97 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 112594 | 4.858 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 59538 | 5.050 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 63512 | 5.258 | ug/l | | 96 |
| 89) n-Butylbenzene | 13.818 | 91 | 109389 | 4.831 | ug/l | | 98 |
| 90) Hexachloroethane | 14.092 | 117 | 20141 | 4.819 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 55317 | 5.111 | ug/l | | 97 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.482 | 75 | 5174 | 4.818 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.129 | 180 | 33710 | 4.894 | ug/l | | 95 |
| 94) Hexachlorobutadiene | 15.220 | 225 | 14601 | 5.103 | ug/l | | 91 |
| 95) Naphthalene | 15.360 | 128 | 78029 | 4.543 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.543 | 180 | 31907 | 5.102 | ug/l | | 95 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032406.D
Acq On : 10 Nov 2025 15:11
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

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

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

ICAL Form

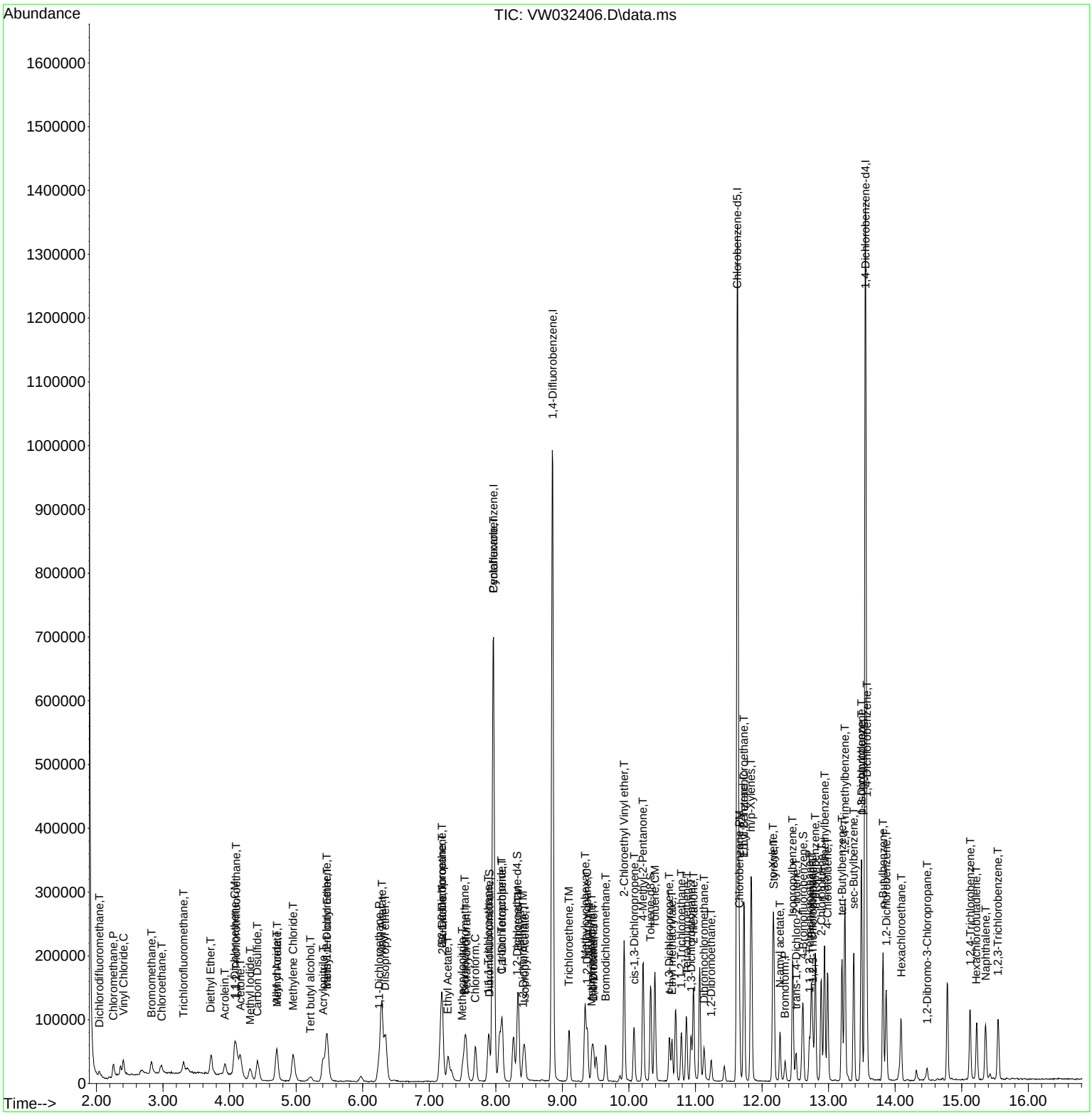
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032406.D
Acq On : 10 Nov 2025 15:11
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 11 03:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032407.D
Acq On : 10 Nov 2025 15:33
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:34:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.965 | 168 | 450836 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 819351 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 741941 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 349708 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 59003 | 10.151 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = | 20.300%# | | |
| 35) Dibromofluoromethane | 7.904 | 113 | 49546 | 10.100 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = | 20.200%# | | |
| 50) Toluene-d8 | 10.325 | 98 | 192718 | 10.240 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = | 20.480%# | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 72758 | 10.234 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = | 20.460% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 25392m | 10.997 | ug/l | |
| 3) Chloromethane | 2.253 | 50 | 39572 | 10.093 | ug/l | 99 |
| 4) Vinyl Chloride | 2.405 | 62 | 51167 | 10.341 | ug/l | 95 |
| 5) Bromomethane | 2.826 | 94 | 33455 | 10.108 | ug/l | 92 |
| 6) Chloroethane | 2.972 | 64 | 32585 | 10.065 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.308 | 101 | 37511 | 9.669 | ug/l | 98 |
| 8) Diethyl Ether | 3.722 | 74 | 32396 | 10.214 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.106 | 101 | 44628 | 10.560 | ug/l | 99 |
| 10) Methyl Iodide | 4.313 | 142 | 68681 | 10.090 | ug/l | 100 |
| 11) Tert butyl alcohol | 5.216 | 59 | 28210 | 56.129 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 48802 | 10.071 | ug/l | 99 |
| 13) Acrolein | 3.935 | 56 | 42661 | 50.591 | ug/l | 99 |
| 14) Allyl chloride | 4.710 | 41 | 93239 | 10.005 | ug/l | 99 |
| 15) Acrylonitrile | 5.405 | 53 | 93953 | 51.232 | ug/l | 99 |
| 16) Acetone | 4.161 | 43 | 87310 | 50.210 | ug/l | 97 |
| 17) Carbon Disulfide | 4.417 | 76 | 141915 | 9.909 | ug/l | 97 |
| 18) Methyl Acetate | 4.710 | 43 | 44520 | 10.339 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.460 | 73 | 104889 | 10.268 | ug/l | 95 |
| 20) Methylene Chloride | 4.954 | 84 | 66798 | 10.741 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.466 | 96 | 55842 | 10.078 | ug/l | 97 |
| 22) Diisopropyl ether | 6.337 | 45 | 192206 | 10.130 | ug/l | 96 |
| 23) Vinyl Acetate | 6.283 | 43 | 646655 | 49.745 | ug/l | 97 |
| 24) 1,1-Dichloroethane | 6.246 | 63 | 104196 | 10.023 | ug/l | 98 |
| 25) 2-Butanone | 7.197 | 43 | 129968 | 50.732 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 7.191 | 77 | 61367 | 10.593 | ug/l | 96 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 65574 | 9.904 | ug/l | 95 |
| 28) Bromochloromethane | 7.532 | 49 | 50794 | 10.338 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.551 | 42 | 81885 | 50.359 | ug/l | 99 |
| 30) Chloroform | 7.697 | 83 | 105045 | 10.322 | ug/l | 98 |
| 31) Cyclohexane | 7.965 | 56 | 102879 | 10.699 | ug/l # | 92 |
| 32) 1,1,1-Trichloroethane | 7.892 | 97 | 73948 | 10.172 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.099 | 75 | 73275 | 10.138 | ug/l | 97 |
| 37) Ethyl Acetate | 7.276 | 43 | 56863 | 10.580 | ug/l | 98 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 65150 | 10.144 | ug/l | 92 |
| 39) Methylcyclohexane | 9.343 | 83 | 94305 | 10.071 | ug/l | 86 |
| 40) Benzene | 8.337 | 78 | 241413 | 10.371 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032407.D
Acq On : 10 Nov 2025 15:33
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**
Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:34:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 28465 | 9.641 | ug/l | | 94 |
| 42) 1,2-Dichloroethane | 8.416 | 62 | 69346 | 10.143 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.435 | 43 | 95514 | 10.036 | ug/l | | 99 |
| 44) Trichloroethene | 9.099 | 130 | 55649 | 10.274 | ug/l | | 93 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 59038 | 10.186 | ug/l | | 98 |
| 46) Dibromomethane | 9.471 | 93 | 34419 | 10.162 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.648 | 83 | 76814 | 9.942 | ug/l | | 95 |
| 48) Methyl methacrylate | 9.441 | 41 | 42787 | 9.461 | ug/l | | 95 |
| 49) 1,4-Dioxane | 9.465 | 88 | 9540 | 201.067 | ug/l | # | 97 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 269178 | 51.163 | ug/l | | 99 |
| 52) Toluene | 10.392 | 92 | 146853 | 10.214 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.605 | 75 | 78747 | 9.897 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 10.081 | 75 | 90589 | 9.845 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 46448 | 9.997 | ug/l | | 94 |
| 56) Ethyl methacrylate | 10.648 | 69 | 70122 | 9.836 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 84750 | 10.213 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 193282 | 50.910 | ug/l | | 99 |
| 59) 2-Hexanone | 10.971 | 43 | 200376 | 52.056 | ug/l | | 99 |
| 60) Dibromochloromethane | 11.129 | 129 | 51945 | 10.011 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 47906 | 10.586 | ug/l | | 94 |
| 64) Tetrachloroethene | 10.861 | 164 | 45145 | 10.275 | ug/l | | 94 |
| 65) Chlorobenzene | 11.660 | 112 | 161494 | 10.099 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 48692 | 9.839 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.733 | 91 | 275018 | 9.939 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.836 | 106 | 211539 | 20.362 | ug/l | | 97 |
| 69) o-Xylene | 12.166 | 106 | 97756 | 9.827 | ug/l | | 100 |
| 70) Styrene | 12.178 | 104 | 170000 | 9.935 | ug/l | | 99 |
| 71) Bromoform | 12.343 | 173 | 29843 | 10.181 | ug/l | # | 92 |
| 73) Isopropylbenzene | 12.464 | 105 | 249133 | 9.700 | ug/l | | 98 |
| 74) N-amyl acetate | 12.269 | 43 | 84064 | 9.419 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83 | 60803 | 9.975 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 52388m | 10.924 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 60481 | 9.946 | ug/l | | 97 |
| 78) n-propylbenzene | 12.800 | 91 | 305079 | 9.754 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 188782 | 9.887 | ug/l | | 97 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 208642 | 9.847 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 19619 | 9.371 | ug/l | | 94 |
| 82) 4-Chlorotoluene | 12.989 | 91 | 194147 | 9.776 | ug/l | | 97 |
| 83) tert-Butylbenzene | 13.202 | 119 | 176992 | 9.602 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 213291 | 9.897 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.379 | 105 | 268972 | 9.798 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 224526 | 9.906 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 113975 | 9.886 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 117480 | 9.946 | ug/l | | 93 |
| 89) n-Butylbenzene | 13.818 | 91 | 214914 | 9.705 | ug/l | | 100 |
| 90) Hexachloroethane | 14.086 | 117 | 39430 | 9.649 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 106855 | 10.096 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 10231 | 9.743 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 15.123 | 180 | 64111 | 9.519 | ug/l | | 94 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 27012 | 9.655 | ug/l | | 92 |
| 95) Naphthalene | 15.360 | 128 | 160481 | 9.555 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 58107 | 9.503 | ug/l | | 95 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032407.D
Acq On : 10 Nov 2025 15:33
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:34:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

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

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

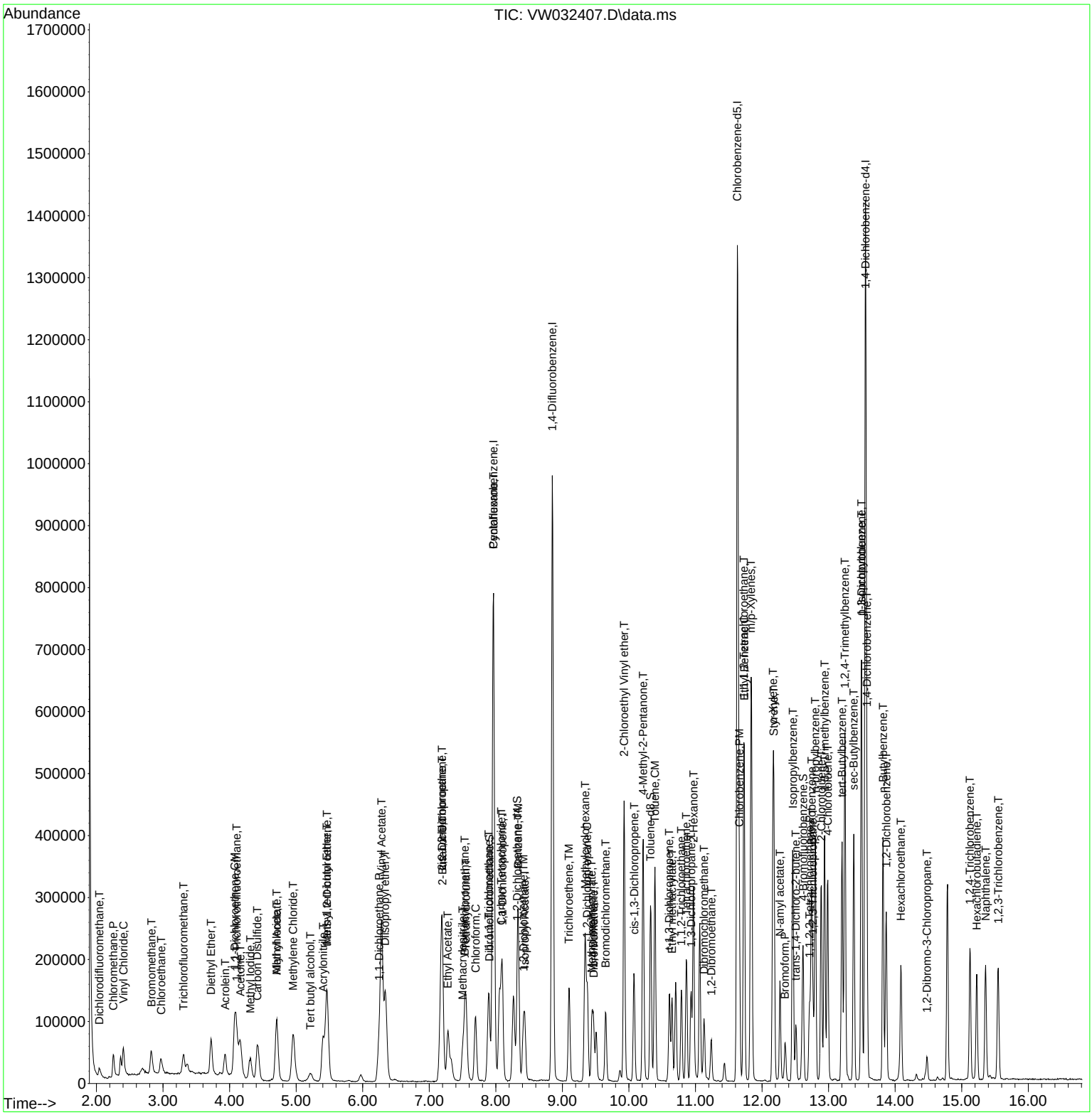
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032407.D
Acq On : 10 Nov 2025 15:33
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 11 03:34:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032408.D
Acq On : 10 Nov 2025 15:55
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.965 | 168 | 457584 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.855 | 114 | 816489 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 742729 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 346736 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 118510 | 20.089 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = | 40.180%# | | |
| 35) Dibromofluoromethane | 7.904 | 113 | 99490 | 20.352 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = | 40.700%# | | |
| 50) Toluene-d8 | 10.325 | 98 | 376146 | 20.057 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = | 40.120%# | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 148179 | 20.916 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = | 41.840% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 42243 | 18.026 | ug/l | 90 |
| 3) Chloromethane | 2.253 | 50 | 74640 | 18.757 | ug/l | 98 |
| 4) Vinyl Chloride | 2.405 | 62 | 96045 | 19.124 | ug/l | 100 |
| 5) Bromomethane | 2.820 | 94 | 64010 | 19.054 | ug/l | 97 |
| 6) Chloroethane | 2.966 | 64 | 62143 | 18.913 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.308 | 101 | 71828 | 18.242 | ug/l | 88 |
| 8) Diethyl Ether | 3.722 | 74 | 61770 | 19.188 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.106 | 101 | 80209 | 18.700 | ug/l | 99 |
| 10) Methyl Iodide | 4.314 | 142 | 132689 | 19.207 | ug/l | 100 |
| 11) Tert butyl alcohol | 5.216 | 59 | 51729 | 101.406 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 92526 | 18.812 | ug/l | 99 |
| 13) Acrolein | 3.929 | 56 | 87436 | 102.160 | ug/l | 99 |
| 14) Allyl chloride | 4.704 | 41 | 179218 | 18.948 | ug/l | 98 |
| 15) Acrylonitrile | 5.405 | 53 | 180486 | 96.966 | ug/l | 99 |
| 16) Acetone | 4.161 | 43 | 167175 | 94.720 | ug/l | 99 |
| 17) Carbon Disulfide | 4.417 | 76 | 274085 | 18.855 | ug/l | 98 |
| 18) Methyl Acetate | 4.716 | 43 | 84037 | 19.228 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.460 | 73 | 202532 | 19.535 | ug/l | 96 |
| 20) Methylene Chloride | 4.948 | 84 | 124826 | 19.777 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.460 | 96 | 109177 | 19.413 | ug/l | 98 |
| 22) Diisopropyl ether | 6.344 | 45 | 380288 | 19.748 | ug/l | 94 |
| 23) Vinyl Acetate | 6.283 | 43 | 1286472 | 97.505 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.246 | 63 | 199778 | 18.935 | ug/l | 98 |
| 25) 2-Butanone | 7.197 | 43 | 257973 | 99.213 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 112678 | 19.163 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 130563 | 19.430 | ug/l | 99 |
| 28) Bromochloromethane | 7.532 | 49 | 97569 | 19.566 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.551 | 42 | 162726 | 98.600 | ug/l | 99 |
| 30) Chloroform | 7.691 | 83 | 199398 | 19.305 | ug/l | 99 |
| 31) Cyclohexane | 7.971 | 56 | 186039 | 19.062 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 142015 | 19.247 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 8.099 | 75 | 142545 | 19.790 | ug/l | 99 |
| 37) Ethyl Acetate | 7.276 | 43 | 108602 | 20.277 | ug/l | 100 |
| 38) Carbon Tetrachloride | 8.087 | 117 | 126114 | 19.706 | ug/l | 98 |
| 39) Methylcyclohexane | 9.343 | 83 | 183430 | 19.658 | ug/l | 93 |
| 40) Benzene | 8.337 | 78 | 460390 | 19.848 | ug/l | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032408.D
Acq On : 10 Nov 2025 15:55
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 63058 | 21.432 | ug/l | | 95 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 135836 | 19.937 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.435 | 43 | 187892 | 19.812 | ug/l | | 99 |
| 44) Trichloroethene | 9.099 | 130 | 106920 | 19.809 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 115560 | 20.008 | ug/l | | 99 |
| 46) Dibromomethane | 9.465 | 93 | 68601 | 20.326 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.654 | 83 | 148808 | 19.328 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.441 | 41 | 85216 | 18.909 | ug/l | | 93 |
| 49) 1,4-Dioxane | 9.465 | 88 | 18879 | 399.292 | ug/l | # | 97 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 538488 | 102.710 | ug/l | | 99 |
| 52) Toluene | 10.392 | 92 | 284143 | 19.832 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.611 | 75 | 153300 | 19.334 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 181723 | 19.819 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 92074 | 19.886 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.648 | 69 | 142352 | 20.038 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 167175 | 20.216 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 386317 | 102.111 | ug/l | | 100 |
| 59) 2-Hexanone | 10.971 | 43 | 392754 | 102.391 | ug/l | | 99 |
| 60) Dibromochloromethane | 11.129 | 129 | 102649 | 19.852 | ug/l | | 96 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 91235 | 20.231 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.867 | 164 | 84673 | 19.251 | ug/l | | 94 |
| 65) Chlorobenzene | 11.660 | 112 | 309433 | 19.329 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 96211 | 19.420 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.733 | 91 | 541238 | 19.540 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.837 | 106 | 403489 | 38.797 | ug/l | | 98 |
| 69) o-Xylene | 12.166 | 106 | 196711 | 19.754 | ug/l | | 98 |
| 70) Styrene | 12.178 | 104 | 336202 | 19.626 | ug/l | | 100 |
| 71) Bromoform | 12.349 | 173 | 57398 | 19.560 | ug/l | | 91 |
| 73) Isopropylbenzene | 12.458 | 105 | 486953 | 19.122 | ug/l | | 100 |
| 74) N-amyl acetate | 12.269 | 43 | 172679 | 19.514 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83 | 117227 | 19.397 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 101298m | 21.304 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 112433 | 18.648 | ug/l | | 91 |
| 78) n-propylbenzene | 12.800 | 91 | 598062 | 19.285 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 364742 | 19.266 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 411841 | 19.603 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 38383 | 18.491 | ug/l | | 94 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 381756 | 19.388 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.202 | 119 | 348802 | 19.086 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 410945 | 19.231 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.379 | 105 | 524886 | 19.284 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 431851 | 19.216 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 224644 | 19.651 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 227987 | 19.467 | ug/l | | 97 |
| 89) n-Butylbenzene | 13.818 | 91 | 428136 | 19.500 | ug/l | | 99 |
| 90) Hexachloroethane | 14.086 | 117 | 74845 | 18.472 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 202982 | 19.343 | ug/l | | 96 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.482 | 75 | 20157 | 19.361 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 15.129 | 180 | 127966 | 19.162 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 50712 | 18.281 | ug/l | | 86 |
| 95) Naphthalene | 15.360 | 128 | 315603 | 18.952 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 115969 | 19.128 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032408.D
Acq On : 10 Nov 2025 15:55
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

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

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

ICAL Form

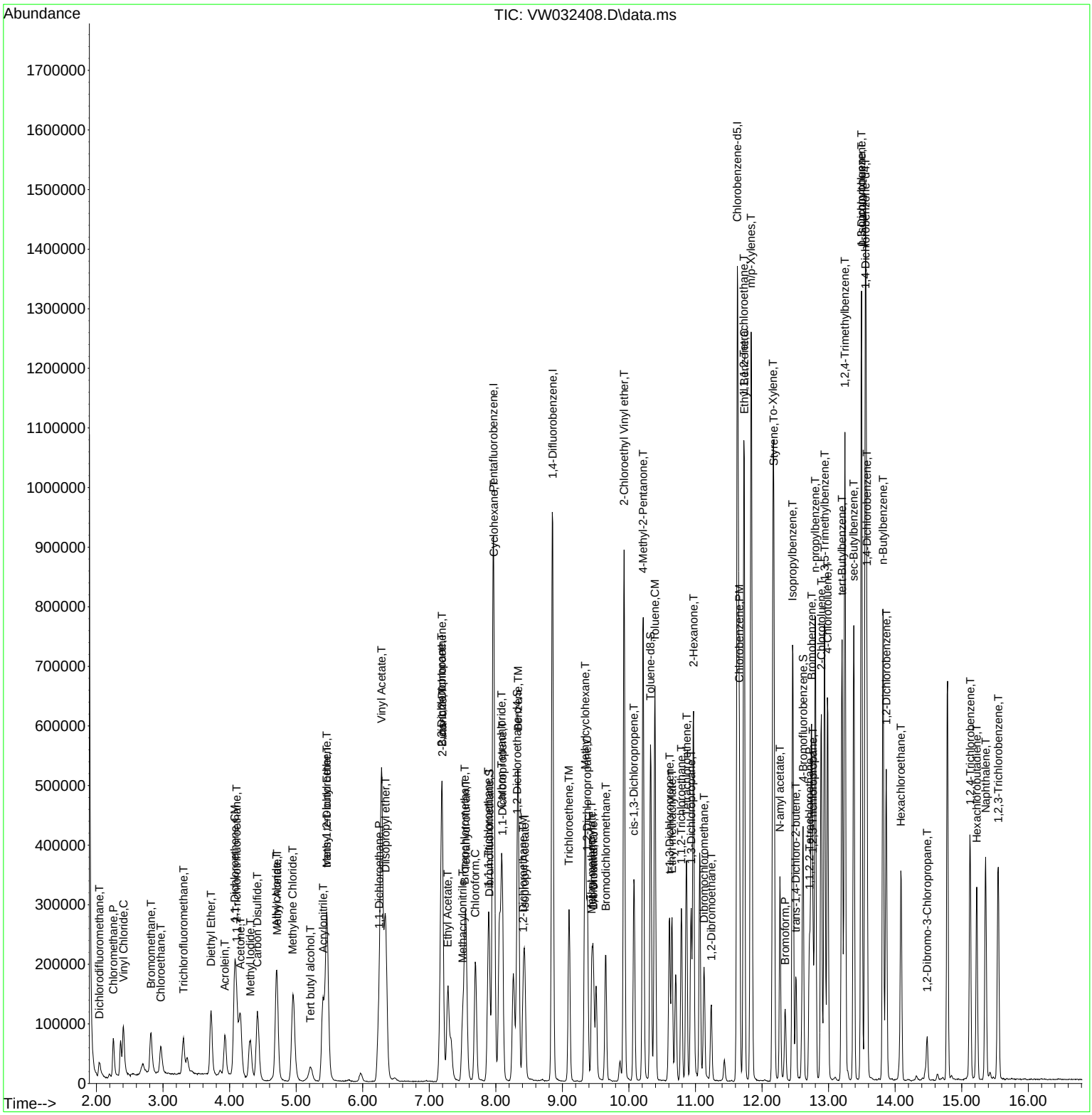
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032408.D
Acq On : 10 Nov 2025 15:55
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 11 03:35:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032409.D
Acq On : 10 Nov 2025 16:17
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.965 | 168 | 473870 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 839187 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.635 | 117 | 738113 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 330535 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 286867 | 46.956 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 93.920% | | | |
| 35) Dibromofluoromethane | 7.904 | 113 | 240784 | 47.923 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 95.840% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 948663 | 49.216 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 98.440% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 348133 | 47.811 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 95.620% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 117696 | 48.496 | ug/l | 100 |
| 3) Chloromethane | 2.253 | 50 | 193400 | 46.930 | ug/l | 100 |
| 4) Vinyl Chloride | 2.405 | 62 | 255152 | 49.059 | ug/l | 100 |
| 5) Bromomethane | 2.826 | 94 | 169422 | 48.699 | ug/l | 100 |
| 6) Chloroethane | 2.972 | 64 | 168250 | 49.446 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.308 | 101 | 217703 | 53.389 | ug/l | 100 |
| 8) Diethyl Ether | 3.722 | 74 | 161055 | 48.309 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 4.106 | 101 | 221350 | 49.832 | ug/l | 100 |
| 10) Methyl Iodide | 4.307 | 142 | 352515 | 49.273 | ug/l | 100 |
| 11) Tert butyl alcohol | 5.216 | 59 | 127100 | 240.595 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.082 | 96 | 255938 | 50.249 | ug/l | 100 |
| 13) Acrolein | 3.929 | 56 | 213422 | 240.790 | ug/l | 100 |
| 14) Allyl chloride | 4.704 | 41 | 493300 | 50.363 | ug/l | 100 |
| 15) Acrylonitrile | 5.405 | 53 | 480718 | 249.389 | ug/l | 100 |
| 16) Acetone | 4.161 | 43 | 440757 | 241.146 | ug/l | 100 |
| 17) Carbon Disulfide | 4.423 | 76 | 761956 | 50.614 | ug/l | 100 |
| 18) Methyl Acetate | 4.710 | 43 | 219594 | 48.517 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.460 | 73 | 539886 | 50.284 | ug/l | 100 |
| 20) Methylene Chloride | 4.954 | 84 | 303080 | 46.367 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.466 | 96 | 285957 | 49.100 | ug/l | 100 |
| 22) Diisopropyl ether | 6.337 | 45 | 987895 | 49.536 | ug/l | 100 |
| 23) Vinyl Acetate | 6.283 | 43 | 3459955 | 253.227 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.246 | 63 | 543885 | 49.778 | ug/l | 100 |
| 25) 2-Butanone | 7.191 | 43 | 663205 | 246.293 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 293455 | 48.192 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 345581 | 49.660 | ug/l | 100 |
| 28) Bromochloromethane | 7.532 | 49 | 237900 | 46.067 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.551 | 42 | 429579 | 251.347 | ug/l | 100 |
| 30) Chloroform | 7.691 | 83 | 525290 | 49.110 | ug/l | 100 |
| 31) Cyclohexane | 7.971 | 56 | 486431 | 48.128 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.892 | 97 | 387016 | 50.649 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 8.099 | 75 | 382172 | 51.624 | ug/l | 100 |
| 37) Ethyl Acetate | 7.270 | 43 | 283001 | 51.410 | ug/l | 100 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 334794 | 50.897 | ug/l | 100 |
| 39) Methylcyclohexane | 9.343 | 83 | 501951 | 52.340 | ug/l | 100 |
| 40) Benzene | 8.337 | 78 | 1206225 | 50.596 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032409.D
Acq On : 10 Nov 2025 16:17
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.496 | 41 | 157157 | 51.970 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 353418 | 50.470 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.435 | 43 | 506886 | 52.003 | ug/l | | 100 |
| 44) Trichloroethene | 9.099 | 130 | 280938 | 50.643 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 298715 | 50.321 | ug/l | | 100 |
| 46) Dibromomethane | 9.465 | 93 | 177243 | 51.095 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.654 | 83 | 404213 | 51.082 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.441 | 41 | 254032 | 54.845 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.465 | 88 | 51534 | 1060.466 | ug/l | # | 100 |
| 51) 4-Methyl-2-Pentanone | 10.209 | 43 | 1411536 | 261.951 | ug/l | | 100 |
| 52) Toluene | 10.392 | 92 | 750381 | 50.957 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.605 | 75 | 422565 | 51.852 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 485529 | 51.519 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 245652 | 51.620 | ug/l | | 100 |
| 56) Ethyl methacrylate | 10.648 | 69 | 384615 | 52.675 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 438483 | 51.590 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 947852 | 243.759 | ug/l | | 100 |
| 59) 2-Hexanone | 10.971 | 43 | 1024540 | 259.873 | ug/l | | 100 |
| 60) Dibromochloromethane | 11.129 | 129 | 268368 | 50.499 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 235648 | 50.842 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.867 | 164 | 221732 | 50.729 | ug/l | | 100 |
| 65) Chlorobenzene | 11.654 | 112 | 836572 | 52.585 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 249919 | 50.760 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.727 | 91 | 1434522 | 52.113 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.836 | 106 | 1080126 | 104.508 | ug/l | | 100 |
| 69) o-Xylene | 12.166 | 106 | 503049 | 50.833 | ug/l | | 100 |
| 70) Styrene | 12.178 | 104 | 891578 | 52.373 | ug/l | | 100 |
| 71) Bromoform | 12.349 | 173 | 149754 | 51.352 | ug/l | | 100 |
| 73) Isopropylbenzene | 12.464 | 105 | 1311412 | 54.022 | ug/l | | 100 |
| 74) N-amyl acetate | 12.269 | 43 | 463709 | 54.971 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83 | 306330 | 53.171 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 221825m | 48.938 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 311375 | 54.174 | ug/l | | 100 |
| 78) n-propylbenzene | 12.800 | 91 | 1592697 | 53.874 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 949870 | 52.633 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 1071434 | 53.498 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.513 | 75 | 108494 | 54.830 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 994389 | 52.976 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.202 | 119 | 952056 | 54.647 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 1087654 | 53.395 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.379 | 105 | 1387291 | 53.468 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 1135093 | 52.985 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 568988 | 52.213 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 586517 | 52.535 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.818 | 91 | 1119974 | 53.512 | ug/l | | 100 |
| 90) Hexachloroethane | 14.086 | 117 | 206125 | 53.365 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 510688 | 51.050 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.482 | 75 | 52673 | 53.072 | ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 15.129 | 180 | 341171 | 53.593 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 139533 | 52.766 | ug/l | | 100 |
| 95) Naphthalene | 15.360 | 128 | 858633 | 54.088 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 297797 | 51.526 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032409.D
Acq On : 10 Nov 2025 16:17
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

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

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

ICAL Form

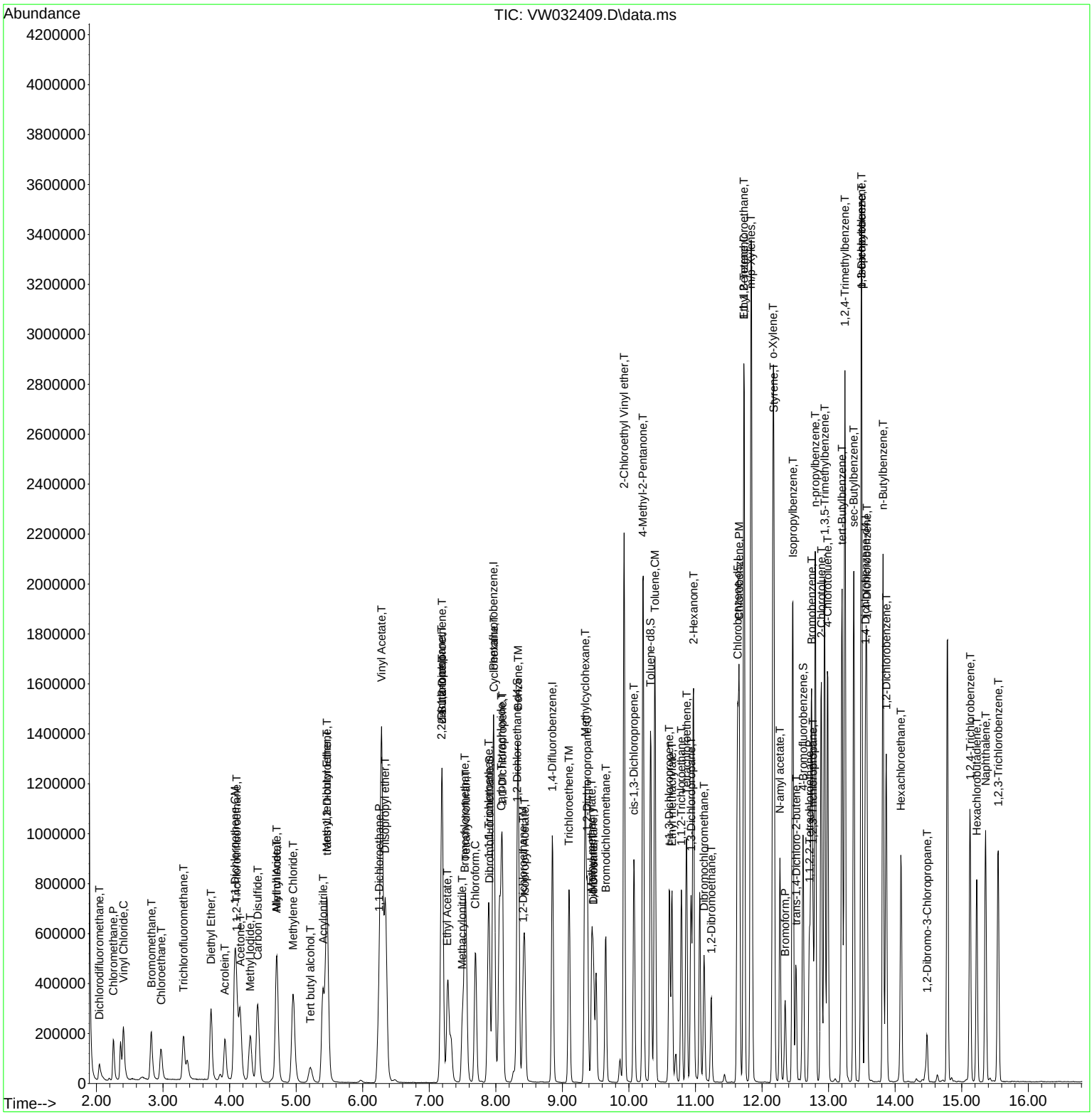
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032409.D
Acq On : 10 Nov 2025 16:17
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 11 03:35:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032410.D
Acq On : 10 Nov 2025 16:39
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 429725 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 800384 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.635 | 117 | 693653 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 316801 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 550189 | 99.309 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 198.620%# | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 474936 | 99.108 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 198.220%# | | | |
| 50) Toluene-d8 | 10.324 | 98 | 1818950 | 98.942 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 197.880%# | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 681369 | 98.113 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 196.220%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.045 | 85 | 209198 | 95.054 | ug/l | 97 |
| 3) Chloromethane | 2.253 | 50 | 376296 | 100.692 | ug/l | 100 |
| 4) Vinyl Chloride | 2.405 | 62 | 466906 | 98.996 | ug/l | 96 |
| 5) Bromomethane | 2.820 | 94 | 312741 | 99.129 | ug/l | 99 |
| 6) Chloroethane | 2.966 | 64 | 310998 | 100.786 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.307 | 101 | 379643 | 102.667 | ug/l | 95 |
| 8) Diethyl Ether | 3.722 | 74 | 301478 | 99.719 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 4.106 | 101 | 393269 | 97.631 | ug/l | 100 |
| 10) Methyl Iodide | 4.307 | 142 | 670896 | 103.409 | ug/l | 97 |
| 11) Tert butyl alcohol | 5.216 | 59 | 233477 | 487.365 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 462998 | 100.240 | ug/l | 98 |
| 13) Acrolein | 3.929 | 56 | 403577 | 502.106 | ug/l | 100 |
| 14) Allyl chloride | 4.703 | 41 | 915284 | 103.044 | ug/l | 99 |
| 15) Acrylonitrile | 5.405 | 53 | 878664 | 502.664 | ug/l | 100 |
| 16) Acetone | 4.161 | 43 | 816608 | 492.679 | ug/l | 99 |
| 17) Carbon Disulfide | 4.417 | 76 | 1412864 | 103.493 | ug/l | 98 |
| 18) Methyl Acetate | 4.710 | 43 | 409034 | 99.655 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.466 | 73 | 967405 | 99.359 | ug/l | 99 |
| 20) Methylene Chloride | 4.953 | 84 | 565294 | 95.367 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.459 | 96 | 536141 | 101.514 | ug/l | 99 |
| 22) Diisopropyl ether | 6.343 | 45 | 1834328 | 101.428 | ug/l | 93 |
| 23) Vinyl Acetate | 6.282 | 43 | 6417015 | 517.894 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 6.246 | 63 | 1003793 | 101.307 | ug/l | 99 |
| 25) 2-Butanone | 7.191 | 43 | 1219983 | 499.605 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.191 | 77 | 540572 | 97.893 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 642856 | 101.868 | ug/l | 99 |
| 28) Bromochloromethane | 7.532 | 49 | 462255 | 98.707 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.551 | 42 | 781708 | 504.365 | ug/l | 100 |
| 30) Chloroform | 7.697 | 83 | 980958 | 101.132 | ug/l | 98 |
| 31) Cyclohexane | 7.971 | 56 | 861642 | 94.009 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 701923 | 101.298 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 8.099 | 75 | 697975 | 98.854 | ug/l | 99 |
| 37) Ethyl Acetate | 7.270 | 43 | 511684 | 97.458 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.087 | 117 | 617665 | 98.453 | ug/l | 98 |
| 39) Methylcyclohexane | 9.343 | 83 | 898941 | 98.279 | ug/l | 93 |
| 40) Benzene | 8.337 | 78 | 2261437 | 99.457 | ug/l | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032410.D
Acq On : 10 Nov 2025 16:39
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 292045 | 101.259 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 655360 | 98.125 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.434 | 43 | 929467 | 99.979 | ug/l | | 100 |
| 44) Trichloroethene | 9.099 | 130 | 516649 | 97.647 | ug/l | | 94 |
| 45) 1,2-Dichloropropane | 9.373 | 63 | 560668 | 99.027 | ug/l | | 98 |
| 46) Dibromomethane | 9.465 | 93 | 322963 | 97.615 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.648 | 83 | 769561 | 101.968 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.440 | 41 | 439533 | 99.494 | ug/l | | 94 |
| 49) 1,4-Dioxane | 9.459 | 88 | 92138 | 1987.934 | ug/l | # | 97 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 2535868 | 493.417 | ug/l | | 100 |
| 52) Toluene | 10.391 | 92 | 1393077 | 99.188 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.605 | 75 | 813483 | 104.660 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 10.074 | 75 | 921332 | 102.501 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 445589 | 98.174 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.648 | 69 | 718120 | 103.118 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 795798 | 98.169 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 1907914 | 514.445 | ug/l | | 100 |
| 59) 2-Hexanone | 10.971 | 43 | 1848731 | 491.662 | ug/l | | 99 |
| 60) Dibromochloromethane | 11.129 | 129 | 512808 | 101.174 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 434659 | 98.325 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.867 | 164 | 419713 | 102.178 | ug/l | | 93 |
| 65) Chlorobenzene | 11.660 | 112 | 1515655 | 101.377 | ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 479510 | 103.634 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.727 | 91 | 2656753 | 102.700 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.836 | 106 | 1963495 | 202.156 | ug/l | | 99 |
| 69) o-Xylene | 12.166 | 106 | 969597 | 104.258 | ug/l | | 97 |
| 70) Styrene | 12.178 | 104 | 1681973 | 105.135 | ug/l | | 99 |
| 71) Bromoform | 12.348 | 173 | 284967 | 103.980 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.464 | 105 | 2395772 | 102.968 | ug/l | | 100 |
| 74) N-amyl acetate | 12.269 | 43 | 845015 | 104.515 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83 | 551839 | 99.938 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.769 | 75 | 393778m | 90.639 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 546510 | 99.206 | ug/l | | 92 |
| 78) n-propylbenzene | 12.800 | 91 | 2892121 | 102.070 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 1767116 | 102.163 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 1955044 | 101.850 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.513 | 75 | 204550 | 107.855 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.989 | 91 | 1810987 | 100.663 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.202 | 119 | 1702452 | 101.956 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.251 | 105 | 1945604 | 99.654 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.379 | 105 | 2472114 | 99.408 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 2083658 | 101.480 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 1051226 | 100.648 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 1050230 | 98.149 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.818 | 91 | 2017115 | 100.554 | ug/l | | 100 |
| 90) Hexachloroethane | 14.092 | 117 | 379045 | 102.388 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.866 | 146 | 955867 | 99.694 | ug/l | | 97 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 96032 | 100.954 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 15.128 | 180 | 615828 | 100.931 | ug/l | | 96 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 255953 | 100.987 | ug/l | | 98 |
| 95) Naphthalene | 15.360 | 128 | 1638729 | 107.703 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.543 | 180 | 557493 | 100.642 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032410.D
Acq On : 10 Nov 2025 16:39
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

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

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

ICAL Form

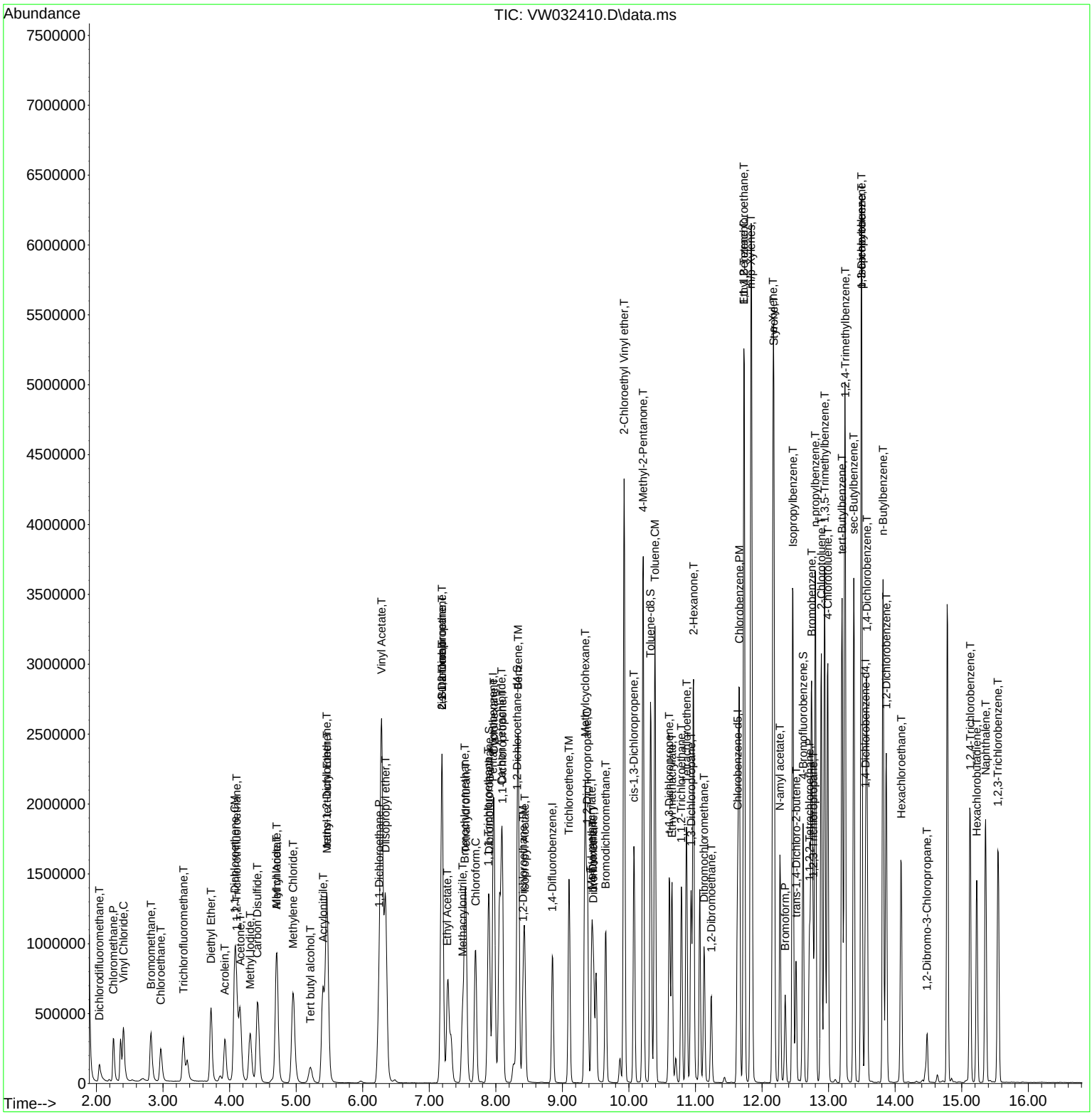
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032410.D
Acq On : 10 Nov 2025 16:39
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 11 03:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032411.D
Acq On : 10 Nov 2025 17:00
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:37:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 435986 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 797552 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 719357 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 315359 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 823539 | 146.514 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 293.020%# | | | |
| 35) Dibromofluoromethane | 7.904 | 113 | 696957 | 145.955 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 291.920%# | | | |
| 50) Toluene-d8 | 10.325 | 98 | 2691800 | 146.940 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 293.880%# | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 1007366 | 145.569 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 291.140%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 300485 | 134.572 | ug/l | 98 |
| 3) Chloromethane | 2.253 | 50 | 575315 | 151.736 | ug/l | 99 |
| 4) Vinyl Chloride | 2.405 | 62 | 690759 | 144.355 | ug/l | 100 |
| 5) Bromomethane | 2.814 | 94 | 468539 | 146.379 | ug/l | 97 |
| 6) Chloroethane | 2.966 | 64 | 463613 | 148.087 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.308 | 101 | 591071 | 157.548 | ug/l | 95 |
| 8) Diethyl Ether | 3.716 | 74 | 454616 | 148.213 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 586837 | 143.593 | ug/l | 100 |
| 10) Methyl Iodide | 4.301 | 142 | 977057 | 148.436 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.216 | 59 | 341966 | 703.576 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 684456 | 146.058 | ug/l | 95 |
| 13) Acrolein | 3.930 | 56 | 599820 | 735.542 | ug/l | 97 |
| 14) Allyl chloride | 4.704 | 41 | 1348651 | 149.653 | ug/l | 99 |
| 15) Acrylonitrile | 5.399 | 53 | 1304835 | 735.748 | ug/l | 100 |
| 16) Acetone | 4.161 | 43 | 1231978 | 732.607 | ug/l | 98 |
| 17) Carbon Disulfide | 4.417 | 76 | 2097048 | 151.404 | ug/l | 99 |
| 18) Methyl Acetate | 4.704 | 43 | 637225 | 153.021 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.460 | 73 | 1407972 | 142.531 | ug/l | 98 |
| 20) Methylene Chloride | 4.954 | 84 | 823132 | 136.871 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.460 | 96 | 782759 | 146.081 | ug/l | 96 |
| 22) Diisopropyl ether | 6.338 | 45 | 2672365 | 145.645 | ug/l | 99 |
| 23) Vinyl Acetate | 6.283 | 43 | 9418125 | 749.187 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.246 | 63 | 1487877 | 148.007 | ug/l | 99 |
| 25) 2-Butanone | 7.191 | 43 | 1820645 | 734.880 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 774362 | 138.217 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 946132 | 147.772 | ug/l | 99 |
| 28) Bromochloromethane | 7.533 | 49 | 689075 | 145.028 | ug/l # | 16 |
| 29) Tetrahydrofuran | 7.551 | 42 | 1147539 | 729.769 | ug/l | 100 |
| 30) Chloroform | 7.691 | 83 | 1443061 | 146.635 | ug/l | 99 |
| 31) Cyclohexane | 7.972 | 56 | 1276256 | 137.246 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 1016260 | 144.555 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.093 | 75 | 1045183 | 148.554 | ug/l | 99 |
| 37) Ethyl Acetate | 7.270 | 43 | 758180 | 144.920 | ug/l | 100 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 935129 | 149.585 | ug/l | 98 |
| 39) Methylcyclohexane | 9.343 | 83 | 1368173 | 150.110 | ug/l | 94 |
| 40) Benzene | 8.337 | 78 | 3302092 | 145.740 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032411.D
Acq On : 10 Nov 2025 17:00
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:37:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 439701 | 152.996 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 977444 | 146.870 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.435 | 43 | 1401399 | 151.278 | ug/l | | 100 |
| 44) Trichloroethene | 9.099 | 130 | 771901 | 146.409 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 828599 | 146.870 | ug/l | | 98 |
| 46) Dibromomethane | 9.465 | 93 | 477479 | 144.830 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.648 | 83 | 1152120 | 153.199 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.441 | 41 | 706671 | 160.532 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.459 | 88 | 132273 | 2864.004 | ug/l | # | 100 |
| 51) 4-Methyl-2-Pentanone | 10.209 | 43 | 3720409 | 726.470 | ug/l | | 99 |
| 52) Toluene | 10.392 | 92 | 2054324 | 146.788 | ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 10.611 | 75 | 1212474 | 156.547 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 1373940 | 153.398 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 661729 | 146.312 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.648 | 69 | 1077015 | 155.202 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 1184554 | 146.644 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 2815169 | 761.770 | ug/l | | 100 |
| 59) 2-Hexanone | 10.971 | 43 | 2707666 | 722.649 | ug/l | | 99 |
| 60) Dibromochloromethane | 11.130 | 129 | 771162 | 152.685 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.233 | 107 | 650672 | 147.713 | ug/l | | 97 |
| 64) Tetrachloroethene | 10.867 | 164 | 618662 | 145.230 | ug/l | | 88 |
| 65) Chlorobenzene | 11.654 | 112 | 2207255 | 142.361 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 706156 | 147.164 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.727 | 91 | 3839407 | 143.114 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.837 | 106 | 2923713 | 290.261 | ug/l | | 96 |
| 69) o-Xylene | 12.166 | 106 | 1409302 | 146.124 | ug/l | | 97 |
| 70) Styrene | 12.178 | 104 | 2411726 | 145.364 | ug/l | | 99 |
| 71) Bromoform | 12.349 | 173 | 423010 | 148.835 | ug/l | # | 95 |
| 73) Isopropylbenzene | 12.459 | 105 | 3489900 | 150.679 | ug/l | | 99 |
| 74) N-amyl acetate | 12.270 | 43 | 1227847 | 152.560 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.715 | 83 | 786139 | 143.021 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 573471m | 132.604 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 813648 | 148.374 | ug/l | | 97 |
| 78) n-propylbenzene | 12.800 | 91 | 4246088 | 150.540 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 2572090 | 149.381 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 2817712 | 147.463 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 307315 | 162.783 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 2684128 | 149.879 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.202 | 119 | 2490454 | 149.829 | ug/l | | 96 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 2901660 | 149.302 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.379 | 105 | 3673311 | 148.386 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 3073760 | 150.385 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 1509962 | 145.231 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 1515160 | 142.246 | ug/l | | 97 |
| 89) n-Butylbenzene | 13.818 | 91 | 3032908 | 151.884 | ug/l | | 99 |
| 90) Hexachloroethane | 14.086 | 117 | 584015 | 158.476 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 1407554 | 147.475 | ug/l | | 94 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 145307 | 153.453 | ug/l | | 94 |
| 93) 1,2,4-Trichlorobenzene | 15.129 | 180 | 938399 | 154.502 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.232 | 225 | 391549 | 155.194 | ug/l | | 96 |
| 95) Naphthalene | 15.360 | 128 | 2339043 | 154.434 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 856827 | 155.386 | ug/l | | 92 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032411.D
Acq On : 10 Nov 2025 17:00
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:37:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

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

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

ICAL Form

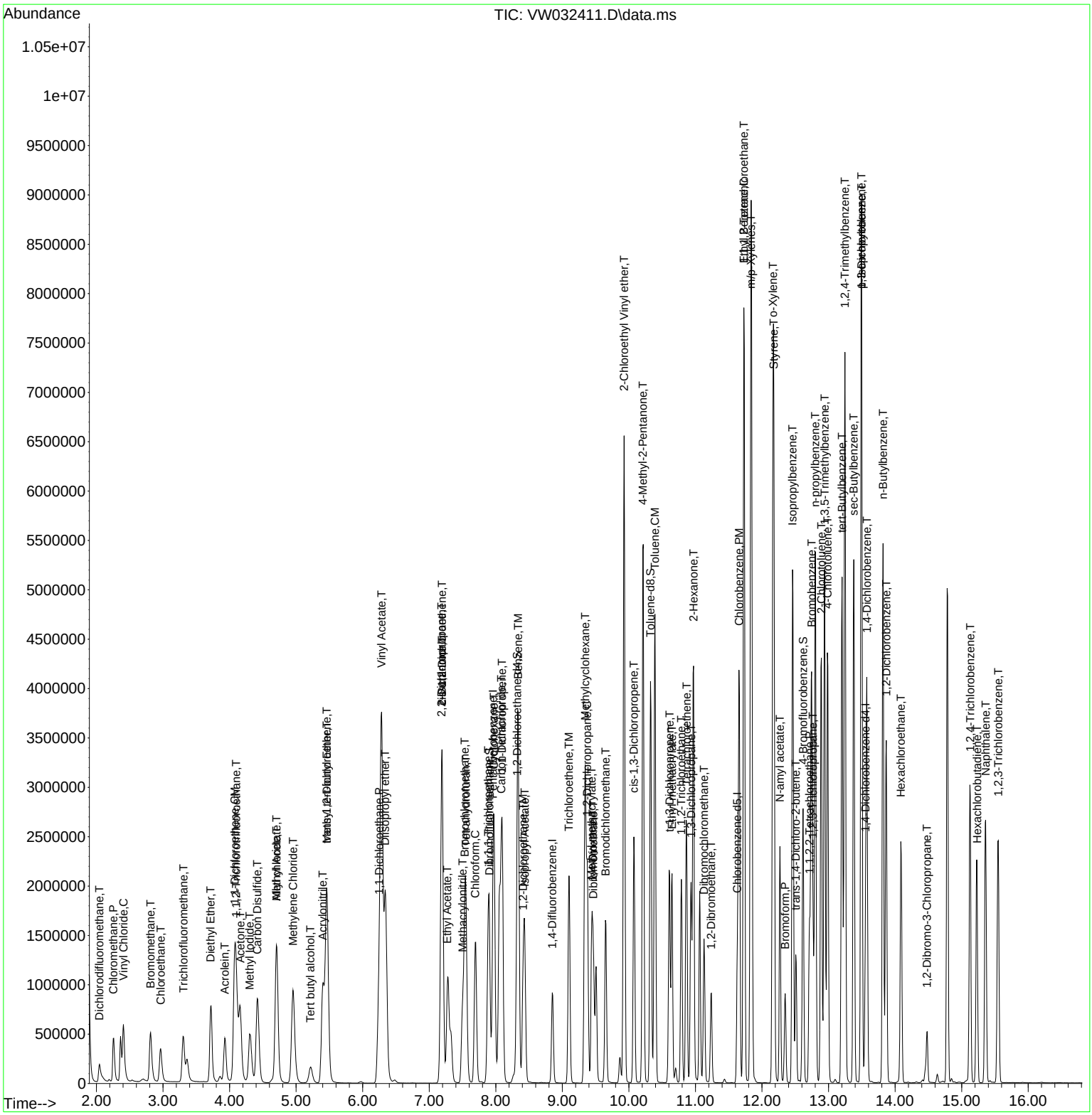
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032411.D
Acq On : 10 Nov 2025 17:00
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 11 03:37:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW111025

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.965 | 168 | 457772 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.855 | 114 | 826297 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.636 | 117 | 742649 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 335568 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 292374 | 49.540 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 99.080% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 246711 | 49.868 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 99.740% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 943721 | 49.724 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 99.440% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 362720 | 50.591 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 101.180% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 103260 | 44.460 | ug/l | 97 |
| 3) Chloromethane | 2.253 | 50 | 191682 | 48.149 | ug/l | 100 |
| 4) Vinyl Chloride | 2.405 | 62 | 236975 | 47.166 | ug/l | 95 |
| 5) Bromomethane | 2.826 | 94 | 161727 | 48.121 | ug/l | 98 |
| 6) Chloroethane | 2.966 | 64 | 157091 | 47.790 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.308 | 101 | 198210 | 50.318 | ug/l | 93 |
| 8) Diethyl Ether | 3.722 | 74 | 155105 | 48.160 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.106 | 101 | 203133 | 47.339 | ug/l | 99 |
| 10) Methyl Iodide | 4.314 | 142 | 345049 | 49.926 | ug/l | 97 |
| 11) Tert butyl alcohol | 5.210 | 59 | 123907 | 242.799 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.082 | 96 | 232539 | 47.260 | ug/l | 97 |
| 13) Acrolein | 3.930 | 56 | 205590 | 240.111 | ug/l | 100 |
| 14) Allyl chloride | 4.710 | 41 | 463711 | 49.007 | ug/l | 99 |
| 15) Acrylonitrile | 5.405 | 53 | 461322 | 247.743 | ug/l | 100 |
| 16) Acetone | 4.161 | 43 | 446031 | 252.613 | ug/l | 99 |
| 17) Carbon Disulfide | 4.423 | 76 | 712178 | 48.971 | ug/l | 99 |
| 18) Methyl Acetate | 4.710 | 43 | 222685 | 50.930 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.466 | 73 | 521562 | 50.286 | ug/l | 99 |
| 20) Methylene Chloride | 4.960 | 84 | 292767 | 46.365 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.460 | 96 | 264891 | 47.082 | ug/l | 99 |
| 22) Diisopropyl ether | 6.338 | 45 | 949736 | 49.298 | ug/l | 99 |
| 23) Vinyl Acetate | 6.283 | 43 | 3293228 | 249.500 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.246 | 63 | 510813 | 48.395 | ug/l | 98 |
| 25) 2-Butanone | 7.191 | 43 | 649663 | 249.748 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.191 | 77 | 278144 | 47.283 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 326672 | 48.593 | ug/l | 100 |
| 28) Bromochloromethane | 7.533 | 49 | 238363 | 47.780 | ug/l | 97 |
| 29) Tetrahydrofuran | 7.551 | 42 | 415747 | 251.809 | ug/l | 99 |
| 30) Chloroform | 7.697 | 83 | 496469 | 48.047 | ug/l | 98 |
| 31) Cyclohexane | 7.972 | 56 | 441733 | 45.242 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.892 | 97 | 359677 | 48.726 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 8.100 | 75 | 354738 | 48.666 | ug/l | 99 |
| 37) Ethyl Acetate | 7.277 | 43 | 273800 | 50.514 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.087 | 117 | 311936 | 48.162 | ug/l | 96 |
| 39) Methylcyclohexane | 9.343 | 83 | 450888 | 47.748 | ug/l | 89 |
| 40) Benzene | 8.337 | 78 | 1144488 | 48.756 | ug/l | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW111025

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 152683 | 51.279 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 338257 | 49.058 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.435 | 43 | 482186 | 50.240 | ug/l | | 100 |
| 44) Trichloroethene | 9.099 | 130 | 256771 | 47.008 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 284966 | 48.753 | ug/l | | 100 |
| 46) Dibromomethane | 9.465 | 93 | 170725 | 49.983 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.648 | 83 | 381617 | 48.979 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.441 | 41 | 226548 | 49.674 | ug/l | | 95 |
| 49) 1,4-Dioxane | 9.465 | 88 | 46205 | 965.638 | ug/l | # | 99 |
| 51) 4-Methyl-2-Pentanone | 10.209 | 43 | 1355743 | 255.521 | ug/l | | 99 |
| 52) Toluene | 10.392 | 92 | 697639 | 48.115 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.611 | 75 | 398178 | 49.622 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 460102 | 49.583 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 223598 | 47.719 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.648 | 69 | 367486 | 51.114 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 411537 | 49.175 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 949029 | 247.869 | ug/l | | 99 |
| 59) 2-Hexanone | 10.965 | 43 | 984290 | 253.559 | ug/l | | 100 |
| 60) Dibromochloromethane | 11.129 | 129 | 255752 | 48.876 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.233 | 107 | 225223 | 49.350 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.861 | 164 | 210025 | 47.757 | ug/l | | 90 |
| 65) Chlorobenzene | 11.654 | 112 | 772847 | 48.283 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 234293 | 47.296 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.727 | 91 | 1336202 | 48.245 | ug/l | | 95 |
| 68) m/p-Xylenes | 11.837 | 106 | 1020533 | 98.139 | ug/l | | 99 |
| 69) o-Xylene | 12.166 | 106 | 485568 | 48.767 | ug/l | | 98 |
| 70) Styrene | 12.178 | 104 | 858740 | 50.136 | ug/l | | 98 |
| 71) Bromoform | 12.349 | 173 | 147519 | 50.276 | ug/l | # | 95 |
| 73) Isopropylbenzene | 12.459 | 105 | 1201571 | 48.754 | ug/l | | 99 |
| 74) N-amyl acetate | 12.270 | 43 | 439444 | 51.313 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.715 | 83 | 289144 | 49.435 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 209388m | 45.507 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 290897 | 49.852 | ug/l | | 98 |
| 78) n-propylbenzene | 12.800 | 91 | 1506843 | 50.206 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 908334 | 49.577 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 1005706 | 49.463 | ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 102563 | 51.055 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 944717 | 49.575 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.202 | 119 | 883415 | 49.947 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 1029723 | 49.793 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.379 | 105 | 1278459 | 48.534 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 1070542 | 49.222 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 546952 | 49.439 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 549573 | 48.488 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.818 | 91 | 1036054 | 48.759 | ug/l | | 99 |
| 90) Hexachloroethane | 14.086 | 117 | 191658 | 48.875 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 491597 | 48.405 | ug/l | | 97 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 50261 | 49.882 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 15.123 | 180 | 322348 | 49.877 | ug/l | | 96 |
| 94) Hexachlorobutadiene | 15.232 | 225 | 137633 | 51.267 | ug/l | | 97 |
| 95) Naphthalene | 15.360 | 128 | 806082 | 50.016 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.543 | 180 | 290012 | 49.427 | ug/l | | 93 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW111025

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

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

ICAL Form

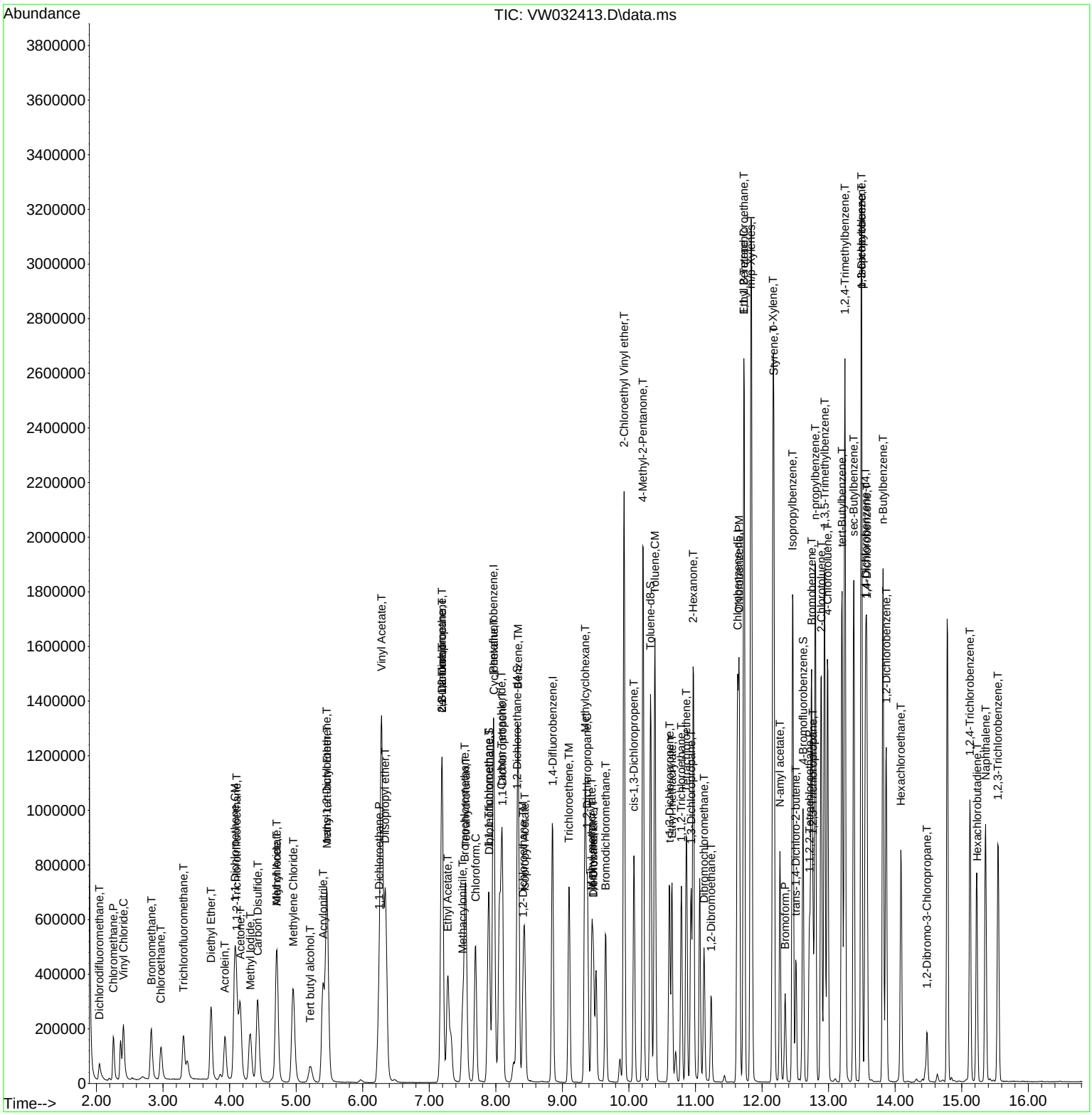
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW111025

**Manual Integrations APPROVED**

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025



# Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW111025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.254 | 0.226 | 11.0 | 88 | 0.00 |
| 3 | P | Chloromethane | 0.435 | 0.419 | 3.7 | 99 | 0.00 |
| 4 | C | Vinyl Chloride | 0.549 | 0.518 | 5.6# | 93 | 0.00 |
| 5 | T | Bromomethane | 0.367 | 0.353 | 3.8 | 95 | 0.00 |
| 6 | T | Chloroethane | 0.359 | 0.343 | 4.5 | 93 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.430 | 0.433 | -0.7 | 91 | 0.00 |
| 8 | T | Diethyl Ether | 0.352 | 0.339 | 3.7 | 96 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.469 | 0.444 | 5.3 | 92 | 0.00 |
| 10 | T | Methyl Iodide | 0.755 | 0.754 | 0.1 | 98 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.056 | 0.054 | 3.6 | 97 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.537 | 0.508 | 5.4# | 91 | 0.00 |
| 13 | T | Acrolein | 0.094 | 0.090 | 4.3 | 96 | 0.00 |
| 14 | T | Allyl chloride | 1.034 | 1.013 | 2.0 | 94 | 0.00 |
| 15 | T | Acrylonitrile | 0.203 | 0.202 | 0.5 | 96 | 0.00 |
| 16 | T | Acetone | 0.193 | 0.195 | -1.0 | 101 | 0.00 |
| 17 | T | Carbon Disulfide | 1.588 | 1.556 | 2.0 | 93 | 0.00 |
| 18 | T | Methyl Acetate | 0.478 | 0.486 | -1.7 | 101 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.133 | 1.139 | -0.5 | 97 | 0.00 |
| 20 | T | Methylene Chloride | 0.690 | 0.640 | 7.2 | 97 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.615 | 0.579 | 5.9 | 93 | 0.00 |
| 22 | T | Diisopropyl ether | 2.104 | 2.075 | 1.4 | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 1.442 | 1.439 | 0.2 | 95 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.153 | 1.116 | 3.2 | 94 | 0.00 |
| 25 | T | 2-Butanone | 0.284 | 0.284 | 0.0 | 98 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.643 | 0.608 | 5.4 | 95 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.734 | 0.714 | 2.7 | 95 | 0.00 |
| 28 | T | Bromochloromethane | 0.545 | 0.521 | 4.4 | 100 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.180 | 0.182 | -1.1 | 97 | 0.00 |
| 30 | C | Chloroform | 1.129 | 1.085 | 3.9# | 95 | 0.00 |
| 31 | T | Cyclohexane | 1.066 | 0.965 | 9.5 | 91 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.806 | 0.786 | 2.5 | 93 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.645 | 0.639 | 0.9 | 102 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.299 | 0.299 | 0.0 | 102 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.441 | 0.429 | 2.7 | 93 | 0.00 |
| 37 | T | Ethyl Acetate | 0.328 | 0.331 | -0.9 | 97 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.392 | 0.378 | 3.6 | 93 | 0.00 |
| 39 | T | Methylcyclohexane | 0.571 | 0.546 | 4.4 | 90 | 0.00 |
| 40 | TM | Benzene | 1.420 | 1.385 | 2.5 | 95 | 0.00 |
| 41 | T | Methacrylonitrile | 0.180 | 0.185 | -2.8 | 97 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.417 | 0.409 | 1.9 | 96 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.581 | 0.584 | -0.5 | 95 | 0.00 |
| 44 | TM | Trichloroethene | 0.331 | 0.311 | 6.0 | 91 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.354 | 0.345 | 2.5# | 95 | 0.00 |
| 46 | T | Dibromomethane | 0.207 | 0.207 | 0.0 | 96 | 0.00 |
| 47 | T | Bromodichloromethane | 0.471 | 0.462 | 1.9 | 94 | 0.00 |
| 48 | T | Methyl methacrylate | 0.276 | 0.274 | 0.7 | 89 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW111025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.003 | 0.003 | 0.0 | 90 | 0.00 |
| 50 | S | Toluene-d8 | 1.148 | 1.142 | 0.5 | 99 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.321 | 0.328 | -2.2 | 96 | 0.00 |
| 52 | CM | Toluene | 0.877 | 0.844 | 3.8# | 93 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.486 | 0.482 | 0.8 | 94 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.562 | 0.557 | 0.9 | 95 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.284 | 0.271 | 4.6 | 91 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.435 | 0.445 | -2.3 | 96 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.506 | 0.498 | 1.6 | 94 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.232 | 0.230 | 0.9 | 100 | 0.00 |
| 59 | T | 2-Hexanone | 0.235 | 0.238 | -1.3 | 96 | 0.00 |
| 60 | T | Dibromochloromethane | 0.317 | 0.310 | 2.2 | 95 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.276 | 0.273 | 1.1 | 96 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.434 | 0.439 | -1.2 | 104 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 64 | T | Tetrachloroethene | 0.296 | 0.283 | 4.4 | 95 | 0.00 |
| 65 | PM | Chlorobenzene | 1.078 | 1.041 | 3.4 | 92 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.334 | 0.315 | 5.7 | 94 | 0.00 |
| 67 | C | Ethyl Benzene | 1.865 | 1.799 | 3.5# | 93 | 0.00 |
| 68 | T | m/p-Xylenes | 0.700 | 0.687 | 1.9 | 94 | 0.00 |
| 69 | T | o-Xylene | 0.670 | 0.654 | 2.4 | 97 | 0.00 |
| 70 | T | Styrene | 1.153 | 1.156 | -0.3 | 96 | 0.00 |
| 71 | P | Bromoform | 0.198 | 0.199 | -0.5 | 99 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 73 | T | Isopropylbenzene | 3.672 | 3.581 | 2.5 | 92 | 0.00 |
| 74 | T | N-amyl acetate | 1.276 | 1.310 | -2.7 | 95 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.871 | 0.862 | 1.0 | 94 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.686 | 0.624 | 9.0 | 94 | 0.00 |
| 77 | T | Bromobenzene | 0.869 | 0.867 | 0.2 | 93 | 0.00 |
| 78 | T | n-propylbenzene | 4.472 | 4.490 | -0.4 | 95 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.730 | 2.707 | 0.8 | 96 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.030 | 2.997 | 1.1 | 94 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.299 | 0.306 | -2.3 | 95 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.839 | 2.815 | 0.8 | 95 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.635 | 2.633 | 0.1 | 93 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.081 | 3.069 | 0.4 | 95 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.925 | 3.810 | 2.9 | 92 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.241 | 3.190 | 1.6 | 94 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.648 | 1.630 | 1.1 | 96 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.689 | 1.638 | 3.0 | 94 | 0.00 |
| 89 | T | n-Butylbenzene | 3.166 | 3.087 | 2.5 | 93 | 0.00 |
| 90 | T | Hexachloroethane | 0.584 | 0.571 | 2.2 | 93 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.513 | 1.465 | 3.2 | 96 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.150 | 0.150 | 0.0 | 95 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.963 | 0.961 | 0.2 | 94 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.400 | 0.410 | -2.5 | 99 | 0.00 |
| 95 | T | Naphthalene | 2.401 | 2.402 | -0.0 | 94 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW111025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.874 | 0.864 | 1.1 | 97 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

# Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW111025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 97 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 44.460 | 11.1 | 88 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 48.149 | 3.7 | 99 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 47.166 | 5.7# | 93 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 48.121 | 3.8 | 95 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 47.790 | 4.4 | 93 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 50.318 | -0.6 | 91 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 48.160 | 3.7 | 96 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 47.339 | 5.3 | 92 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 49.926 | 0.1 | 98 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 242.799 | 2.9 | 97 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 47.260 | 5.5# | 91 | 0.00 |
| 13 | T | Acrolein | 250.000 | 240.111 | 4.0 | 96 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 49.007 | 2.0 | 94 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 247.743 | 0.9 | 96 | 0.00 |
| 16 | T | Acetone | 250.000 | 252.613 | -1.0 | 101 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 48.971 | 2.1 | 93 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 50.930 | -1.9 | 101 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 50.286 | -0.6 | 97 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 46.365 | 7.3 | 97 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 47.082 | 5.8 | 93 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 49.298 | 1.4 | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 249.500 | 0.2 | 95 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 48.395 | 3.2 | 94 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 249.748 | 0.1 | 98 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 47.283 | 5.4 | 95 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 48.593 | 2.8 | 95 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 47.780 | 4.4 | 100 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 251.809 | -0.7 | 97 | 0.00 |
| 30 | C | Chloroform | 50.000 | 48.047 | 3.9# | 95 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 45.242 | 9.5 | 91 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 48.726 | 2.5 | 93 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.540 | 0.9 | 102 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.868 | 0.3 | 102 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 48.666 | 2.7 | 93 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 50.514 | -1.0 | 97 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 48.162 | 3.7 | 93 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 47.748 | 4.5 | 90 | 0.00 |
| 40 | TM | Benzene | 50.000 | 48.756 | 2.5 | 95 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 51.279 | -2.6 | 97 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 49.058 | 1.9 | 96 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 50.240 | -0.5 | 95 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 47.008 | 6.0 | 91 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 48.753 | 2.5# | 95 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 49.983 | 0.0 | 96 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 48.979 | 2.0 | 94 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 49.674 | 0.7 | 89 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW111025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 965.638 | 3.4 | 90 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 49.724 | 0.6 | 99 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 255.521 | -2.2 | 96 | 0.00 |
| 52 | CM | Toluene | 50.000 | 48.115 | 3.8# | 93 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 49.622 | 0.8 | 94 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 49.583 | 0.8 | 95 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 47.719 | 4.6 | 91 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 51.114 | -2.2 | 96 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 49.175 | 1.7 | 94 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 247.869 | 0.9 | 100 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 253.559 | -1.4 | 96 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 48.876 | 2.2 | 95 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 49.350 | 1.3 | 96 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 50.591 | -1.2 | 104 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 101 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 47.757 | 4.5 | 95 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 48.283 | 3.4 | 92 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 47.296 | 5.4 | 94 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 48.245 | 3.5# | 93 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 98.139 | 1.9 | 94 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 48.767 | 2.5 | 97 | 0.00 |
| 70 | T | Styrene | 50.000 | 50.136 | -0.3 | 96 | 0.00 |
| 71 | P | Bromoform | 50.000 | 50.276 | -0.6 | 99 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 48.754 | 2.5 | 92 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 51.313 | -2.6 | 95 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 49.435 | 1.1 | 94 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 45.507 | 9.0 | 94 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.852 | 0.3 | 93 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 50.206 | -0.4 | 95 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.577 | 0.8 | 96 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 49.463 | 1.1 | 94 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 51.055 | -2.1 | 95 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 49.575 | 0.8 | 95 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 49.947 | 0.1 | 93 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 49.793 | 0.4 | 95 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 48.534 | 2.9 | 92 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 49.222 | 1.6 | 94 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 49.439 | 1.1 | 96 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.488 | 3.0 | 94 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 48.759 | 2.5 | 93 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 48.875 | 2.3 | 93 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 48.405 | 3.2 | 96 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.882 | 0.2 | 95 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 49.877 | 0.2 | 94 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 51.267 | -2.5 | 99 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 50.016 | -0.0 | 94 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW111025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 49.427 | 1.1 | 97 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VW032468.D**

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

## VOLATILE CONTINUING CALIBRATION CHECK

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

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

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

Raw Data: **VW032468.D**

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

## VOLATILE CONTINUING CALIBRATION CHECK

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.865 | 1.941 | | 4.07 | 20 |
| m/p-Xylenes | 0.700 | 0.733 | | 4.71 | 20 |
| o-Xylene | 0.670 | 0.694 | | 3.58 | 20 |
| Styrene | 1.153 | 1.249 | | 8.33 | 20 |
| Bromoform | 0.198 | 0.203 | 0.1 | 2.53 | 20 |
| Isopropylbenzene | 3.672 | 3.748 | | 2.07 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.871 | 0.927 | 0.3 | 6.43 | 20 |
| 1,3-Dichlorobenzene | 1.648 | 1.713 | | 3.94 | 20 |
| 1,4-Dichlorobenzene | 1.689 | 1.691 | | 0.12 | 20 |
| 1,2-Dichlorobenzene | 1.513 | 1.598 | | 5.62 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.150 | 0.155 | | 3.33 | 20 |
| 1,2,4-Trichlorobenzene | 0.963 | 0.914 | | -5.09 | 20 |
| 1,2,3-Trichlorobenzene | 0.874 | 0.850 | | -2.75 | 20 |
| 1,2-Dichloroethane-d4 | 0.645 | 0.695 | | 7.75 | 20 |
| Dibromofluoromethane | 0.299 | 0.310 | | 3.68 | 20 |
| Toluene-d8 | 1.148 | 1.197 | | 4.27 | 20 |
| 4-Bromofluorobenzene | 0.434 | 0.457 | | 5.3 | 20 |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032468.D
Acq On : 18 Nov 2025 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

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

Quant Time: Nov 19 00:21:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.953 | 168 | 361815 | 50.000 | ug/l | -0.01 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 661363 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 600329 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 279351 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.313 | 65 | 251373 | 53.889 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 107.780% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 204750 | 51.708 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 103.420% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 791488 | 52.103 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 104.200% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 302447 | 52.705 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 105.400% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.040 | 85 | 89228 | 48.607 | ug/l | 93 |
| 3) Chloromethane | 2.253 | 50 | 148231 | 47.110 | ug/l | 99 |
| 4) Vinyl Chloride | 2.405 | 62 | 207226 | 52.184 | ug/l | 98 |
| 5) Bromomethane | 2.820 | 94 | 135648 | 51.066 | ug/l | 97 |
| 6) Chloroethane | 2.966 | 64 | 137506 | 52.926 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.302 | 101 | 161132 | 51.754 | ug/l | 98 |
| 8) Diethyl Ether | 3.716 | 74 | 133402 | 52.407 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 178005 | 52.485 | ug/l | 97 |
| 10) Methyl Iodide | 4.301 | 142 | 278915 | 51.060 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.210 | 59 | 100305 | 248.678 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 198619 | 51.072 | ug/l | 92 |
| 13) Acrolein | 3.930 | 56 | 120834 | 178.551 | ug/l | 98 |
| 14) Allyl chloride | 4.704 | 41 | 389538 | 52.086 | ug/l | 99 |
| 15) Acrylonitrile | 5.393 | 53 | 397601 | 270.151 | ug/l | 99 |
| 16) Acetone | 4.155 | 43 | 376221 | 269.586 | ug/l | 99 |
| 17) Carbon Disulfide | 4.417 | 76 | 587827 | 51.141 | ug/l | 100 |
| 18) Methyl Acetate | 4.704 | 43 | 196845 | 56.960 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.460 | 73 | 434104 | 52.954 | ug/l | 99 |
| 20) Methylene Chloride | 4.948 | 84 | 254757 | 51.045 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.454 | 96 | 231569 | 52.075 | ug/l | 98 |
| 22) Diisopropyl ether | 6.338 | 45 | 813639 | 53.434 | ug/l | 95 |
| 23) Vinyl Acetate | 6.277 | 43 | 2788164 | 267.258 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.240 | 63 | 446364 | 53.504 | ug/l | 99 |
| 25) 2-Butanone | 7.191 | 43 | 535856 | 260.631 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 235710 | 50.697 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 7.185 | 96 | 279779 | 52.655 | ug/l | 98 |
| 28) Bromochloromethane | 7.526 | 49 | 212694 | 53.942 | ug/l | 97 |
| 29) Tetrahydrofuran | 7.551 | 42 | 360143 | 275.981 | ug/l | 99 |
| 30) Chloroform | 7.691 | 83 | 438755 | 53.723 | ug/l | 98 |
| 31) Cyclohexane | 7.971 | 56 | 380474 | 49.303 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 308241 | 52.833 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.093 | 75 | 312041 | 53.484 | ug/l | 99 |
| 37) Ethyl Acetate | 7.270 | 43 | 240035 | 55.329 | ug/l | 98 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 276301 | 53.299 | ug/l | 98 |
| 39) Methylcyclohexane | 9.343 | 83 | 389889 | 51.586 | ug/l | 90 |
| 40) Benzene | 8.331 | 78 | 994834 | 52.949 | ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032468.D
Acq On : 18 Nov 2025 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 00:21:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

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

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.496 | 41 | 136068 | 57.095 | ug/l | | 95 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 303224 | 54.944 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.429 | 43 | 411851 | 53.613 | ug/l | | 99 |
| 44) Trichloroethene | 9.099 | 130 | 224520 | 51.355 | ug/l | | 92 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 251613 | 53.782 | ug/l | | 97 |
| 46) Dibromomethane | 9.465 | 93 | 146373 | 53.541 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.648 | 83 | 331569 | 53.168 | ug/l | | 94 |
| 48) Methyl methacrylate | 9.441 | 41 | 192161 | 52.642 | ug/l | | 93 |
| 49) 1,4-Dioxane | 9.459 | 88 | 41520 | 1084.124 | ug/l | # | 99 |
| 51) 4-Methyl-2-Pentanone | 10.209 | 43 | 1190307 | 280.288 | ug/l | | 99 |
| 52) Toluene | 10.386 | 92 | 615596 | 53.044 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.605 | 75 | 341094 | 53.109 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 397223 | 53.482 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 201824 | 53.814 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.648 | 69 | 308598 | 53.628 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 364222 | 54.374 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.922 | 63 | 824892 | 269.175 | ug/l | | 100 |
| 59) 2-Hexanone | 10.965 | 43 | 842820 | 271.260 | ug/l | | 99 |
| 60) Dibromochloromethane | 11.129 | 129 | 229117 | 54.705 | ug/l | | 96 |
| 61) 1,2-Dibromoethane | 11.233 | 107 | 192605 | 52.728 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.861 | 164 | 181935 | 51.177 | ug/l | | 93 |
| 65) Chlorobenzene | 11.660 | 112 | 683155 | 52.797 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 206652 | 51.606 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.727 | 91 | 1165404 | 52.053 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.837 | 106 | 879989 | 104.685 | ug/l | | 99 |
| 69) o-Xylene | 12.160 | 106 | 416410 | 51.736 | ug/l | | 100 |
| 70) Styrene | 12.178 | 104 | 749932 | 54.163 | ug/l | | 98 |
| 71) Bromoform | 12.349 | 173 | 122012 | 51.441 | ug/l | | 96 |
| 73) Isopropylbenzene | 12.458 | 105 | 1046985 | 51.031 | ug/l | | 98 |
| 74) N-amyl acetate | 12.269 | 43 | 374507 | 52.531 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.708 | 83 | 259052 | 53.204 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 184675m | 48.214 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 243636 | 50.156 | ug/l | | 92 |
| 78) n-propylbenzene | 12.800 | 91 | 1304152 | 52.197 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.885 | 91 | 791141 | 51.870 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 869708 | 51.383 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 88381 | 52.849 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 825619 | 52.044 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.202 | 119 | 748267 | 50.819 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 881411 | 51.198 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.379 | 105 | 1130247 | 51.542 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 923050 | 50.982 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 478644 | 51.971 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 472264 | 50.052 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.818 | 91 | 890478 | 50.342 | ug/l | | 100 |
| 90) Hexachloroethane | 14.086 | 117 | 164982 | 50.539 | ug/l | | 92 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 446439 | 52.805 | ug/l | | 94 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 43390 | 51.729 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 15.129 | 180 | 255341 | 47.459 | ug/l | | 94 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 113755 | 50.900 | ug/l | | 96 |
| 95) Naphthalene | 15.360 | 128 | 677528 | 50.499 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 237374 | 48.597 | ug/l | | 96 |

Sample Results: **VW032468.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032468.D
Acq On : 18 Nov 2025 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

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

Quant Time: Nov 19 00:21:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

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

Sample Results: **VW032468.D**

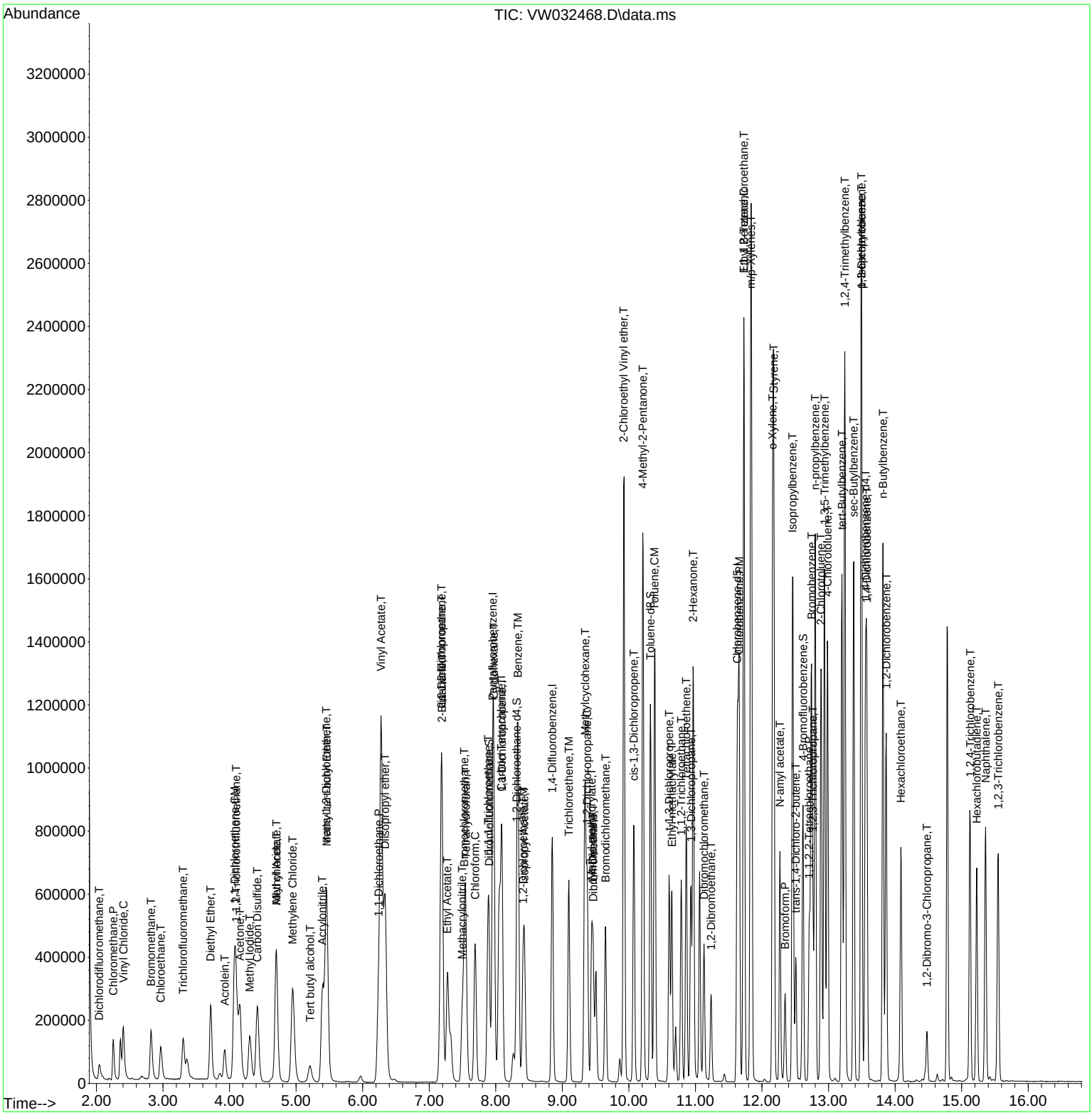
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032468.D
Acq On : 18 Nov 2025 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 00:21:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

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



Sample Results: **VW032468.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032468.D
Acq On : 18 Nov 2025 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 19 00:21:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 76 | -0.01 |
| 2 | T | Dichlorodifluoromethane | 0.254 | 0.247 | 2.8 | 76 | 0.00 |
| 3 | P | Chloromethane | 0.435 | 0.410 | 5.7 | 77 | 0.00 |
| 4 | C | Vinyl Chloride | 0.549 | 0.573 | -4.4# | 81 | 0.00 |
| 5 | T | Bromomethane | 0.367 | 0.375 | -2.2 | 80 | 0.00 |
| 6 | T | Chloroethane | 0.359 | 0.380 | -5.8 | 82 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.430 | 0.445 | -3.5 | 74 | 0.00 |
| 8 | T | Diethyl Ether | 0.352 | 0.369 | -4.8 | 83 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.469 | 0.492 | -4.9 | 80 | 0.00 |
| 10 | T | Methyl Iodide | 0.755 | 0.771 | -2.1 | 79 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.056 | 0.055 | 1.8 | 79 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.537 | 0.549 | -2.2# | 78 | 0.00 |
| 13 | T | Acrolein | 0.094 | 0.067 | 28.7# | 57 | 0.00 |
| 14 | T | Allyl chloride | 1.034 | 1.077 | -4.2 | 79 | 0.00 |
| 15 | T | Acrylonitrile | 0.203 | 0.220 | -8.4 | 83 | -0.01 |
| 16 | T | Acetone | 0.193 | 0.208 | -7.8 | 85 | 0.00 |
| 17 | T | Carbon Disulfide | 1.588 | 1.625 | -2.3 | 77 | 0.00 |
| 18 | T | Methyl Acetate | 0.478 | 0.544 | -13.8 | 90 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.133 | 1.200 | -5.9 | 80 | 0.00 |
| 20 | T | Methylene Chloride | 0.690 | 0.704 | -2.0 | 84 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.615 | 0.640 | -4.1 | 81 | -0.01 |
| 22 | T | Diisopropyl ether | 2.104 | 2.249 | -6.9 | 82 | 0.00 |
| 23 | T | Vinyl Acetate | 1.442 | 1.541 | -6.9 | 81 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.153 | 1.234 | -7.0 | 82 | 0.00 |
| 25 | T | 2-Butanone | 0.284 | 0.296 | -4.2 | 81 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.643 | 0.651 | -1.2 | 80 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.734 | 0.773 | -5.3 | 81 | 0.00 |
| 28 | T | Bromochloromethane | 0.545 | 0.588 | -7.9 | 89 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.180 | 0.199 | -10.6 | 84 | 0.00 |
| 30 | C | Chloroform | 1.129 | 1.213 | -7.4# | 84 | 0.00 |
| 31 | T | Cyclohexane | 1.066 | 1.052 | 1.3 | 78 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.806 | 0.852 | -5.7 | 80 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.645 | 0.695 | -7.8 | 88 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 79 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.299 | 0.310 | -3.7 | 85 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.441 | 0.472 | -7.0 | 82 | 0.00 |
| 37 | T | Ethyl Acetate | 0.328 | 0.363 | -10.7 | 85 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.392 | 0.418 | -6.6 | 83 | 0.00 |
| 39 | T | Methylcyclohexane | 0.571 | 0.590 | -3.3 | 78 | 0.00 |
| 40 | TM | Benzene | 1.420 | 1.504 | -5.9 | 82 | 0.00 |
| 41 | T | Methacrylonitrile | 0.180 | 0.206 | -14.4 | 87 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.417 | 0.458 | -9.8 | 86 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.581 | 0.623 | -7.2 | 81 | 0.00 |
| 44 | TM | Trichloroethene | 0.331 | 0.339 | -2.4 | 80 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.354 | 0.380 | -7.3# | 84 | 0.00 |
| 46 | T | Dibromomethane | 0.207 | 0.221 | -6.8 | 83 | 0.00 |
| 47 | T | Bromodichloromethane | 0.471 | 0.501 | -6.4 | 82 | 0.00 |
| 48 | T | Methyl methacrylate | 0.276 | 0.291 | -5.4 | 76 | 0.00 |

Sample Results: **VW032468.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032468.D
Acq On : 18 Nov 2025 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 19 00:21:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.003 | 0.003 | 0.0 | 81 | 0.00 |
| 50 | S | Toluene-d8 | 1.148 | 1.197 | -4.3 | 83 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.321 | 0.360 | -12.1 | 84 | 0.00 |
| 52 | CM | Toluene | 0.877 | 0.931 | -6.2# | 82 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.486 | 0.516 | -6.2 | 81 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.562 | 0.601 | -6.9 | 82 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.284 | 0.305 | -7.4 | 82 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.435 | 0.467 | -7.4 | 80 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.506 | 0.551 | -8.9 | 83 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.232 | 0.249 | -7.3 | 87 | 0.00 |
| 59 | T | 2-Hexanone | 0.235 | 0.255 | -8.5 | 82 | 0.00 |
| 60 | T | Dibromochloromethane | 0.317 | 0.346 | -9.1 | 85 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.276 | 0.291 | -5.4 | 82 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.434 | 0.457 | -5.3 | 87 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 81 | 0.00 |
| 64 | T | Tetrachloroethene | 0.296 | 0.303 | -2.4 | 82 | 0.00 |
| 65 | PM | Chlorobenzene | 1.078 | 1.138 | -5.6 | 82 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.334 | 0.344 | -3.0 | 83 | 0.00 |
| 67 | C | Ethyl Benzene | 1.865 | 1.941 | -4.1# | 81 | 0.00 |
| 68 | T | m/p-Xylenes | 0.700 | 0.733 | -4.7 | 81 | 0.00 |
| 69 | T | o-Xylene | 0.670 | 0.694 | -3.6 | 83 | 0.00 |
| 70 | T | Styrene | 1.153 | 1.249 | -8.3 | 84 | 0.00 |
| 71 | P | Bromoform | 0.198 | 0.203 | -2.5 | 81 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 85 | 0.00 |
| 73 | T | Isopropylbenzene | 3.672 | 3.748 | -2.1 | 80 | 0.00 |
| 74 | T | N-amyl acetate | 1.276 | 1.341 | -5.1 | 81 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.871 | 0.927 | -6.4 | 85 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.686 | 0.661 | 3.6 | 83 | 0.00 |
| 77 | T | Bromobenzene | 0.869 | 0.872 | -0.3 | 78 | 0.00 |
| 78 | T | n-propylbenzene | 4.472 | 4.669 | -4.4 | 82 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.730 | 2.832 | -3.7 | 83 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.030 | 3.113 | -2.7 | 81 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.299 | 0.316 | -5.7 | 81 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.839 | 2.955 | -4.1 | 83 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.635 | 2.679 | -1.7 | 79 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.081 | 3.155 | -2.4 | 81 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.925 | 4.046 | -3.1 | 81 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.241 | 3.304 | -1.9 | 81 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.648 | 1.713 | -3.9 | 84 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.689 | 1.691 | -0.1 | 81 | 0.00 |
| 89 | T | n-Butylbenzene | 3.166 | 3.188 | -0.7 | 80 | 0.00 |
| 90 | T | Hexachloroethane | 0.584 | 0.591 | -1.2 | 80 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.513 | 1.598 | -5.6 | 87 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.150 | 0.155 | -3.3 | 82 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.963 | 0.914 | 5.1 | 75 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.400 | 0.407 | -1.7 | 82 | 0.00 |
| 95 | T | Naphthalene | 2.401 | 2.425 | -1.0 | 79 | 0.00 |

Sample Results: **VW032468.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032468.D
Acq On : 18 Nov 2025 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 19 00:21:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.874 | 0.850 | 2.7 | 80 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Sample Results: **VW032468.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032468.D
Acq On : 18 Nov 2025 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 19 00:21:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 76 | -0.01 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 48.607 | 2.8 | 76 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 47.110 | 5.8 | 77 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 52.184 | -4.4# | 81 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 51.066 | -2.1 | 80 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 52.926 | -5.9 | 82 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 51.754 | -3.5 | 74 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 52.407 | -4.8 | 83 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 52.485 | -5.0 | 80 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 51.060 | -2.1 | 79 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 248.678 | 0.5 | 79 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 51.072 | -2.1# | 78 | 0.00 |
| 13 | T | Acrolein | 250.000 | 178.551 | 28.6# | 57 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 52.086 | -4.2 | 79 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 270.151 | -8.1 | 83 | -0.01 |
| 16 | T | Acetone | 250.000 | 269.586 | -7.8 | 85 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 51.141 | -2.3 | 77 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 56.960 | -13.9 | 90 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 52.954 | -5.9 | 80 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 51.045 | -2.1 | 84 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 52.075 | -4.2 | 81 | -0.01 |
| 22 | T | Diisopropyl ether | 50.000 | 53.434 | -6.9 | 82 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 267.258 | -6.9 | 81 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 53.504 | -7.0 | 82 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 260.631 | -4.3 | 81 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 50.697 | -1.4 | 80 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 52.655 | -5.3 | 81 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 53.942 | -7.9 | 89 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 275.981 | -10.4 | 84 | 0.00 |
| 30 | C | Chloroform | 50.000 | 53.723 | -7.4# | 84 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 49.303 | 1.4 | 78 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 52.833 | -5.7 | 80 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 53.889 | -7.8 | 88 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 79 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 51.708 | -3.4 | 85 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 53.484 | -7.0 | 82 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 55.329 | -10.7 | 85 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 53.299 | -6.6 | 83 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 51.586 | -3.2 | 78 | 0.00 |
| 40 | TM | Benzene | 50.000 | 52.949 | -5.9 | 82 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 57.095 | -14.2 | 87 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 54.944 | -9.9 | 86 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 53.613 | -7.2 | 81 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.355 | -2.7 | 80 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 53.782 | -7.6# | 84 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 53.541 | -7.1 | 83 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 53.168 | -6.3 | 82 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 52.642 | -5.3 | 76 | 0.00 |

Sample Results: **VW032468.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032468.D
Acq On : 18 Nov 2025 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 19 00:21:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1084.124 | -8.4 | 81 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 52.103 | -4.2 | 83 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 280.288 | -12.1 | 84 | 0.00 |
| 52 | CM | Toluene | 50.000 | 53.044 | -6.1# | 82 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 53.109 | -6.2 | 81 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 53.482 | -7.0 | 82 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 53.814 | -7.6 | 82 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 53.628 | -7.3 | 80 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 54.374 | -8.7 | 83 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 269.175 | -7.7 | 87 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 271.260 | -8.5 | 82 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 54.705 | -9.4 | 85 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 52.728 | -5.5 | 82 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 52.705 | -5.4 | 87 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 81 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 51.177 | -2.4 | 82 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 52.797 | -5.6 | 82 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.606 | -3.2 | 83 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 52.053 | -4.1# | 81 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 104.685 | -4.7 | 81 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 51.736 | -3.5 | 83 | 0.00 |
| 70 | T | Styrene | 50.000 | 54.163 | -8.3 | 84 | 0.00 |
| 71 | P | Bromoform | 50.000 | 51.441 | -2.9 | 81 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 85 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 51.031 | -2.1 | 80 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 52.531 | -5.1 | 81 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 53.204 | -6.4 | 85 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 48.214 | 3.6 | 83 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.156 | -0.3 | 78 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 52.197 | -4.4 | 82 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 51.870 | -3.7 | 83 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.383 | -2.8 | 81 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 52.849 | -5.7 | 81 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 52.044 | -4.1 | 83 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 50.819 | -1.6 | 79 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.198 | -2.4 | 81 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.542 | -3.1 | 81 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.982 | -2.0 | 81 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 51.971 | -3.9 | 84 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.052 | -0.1 | 81 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 50.342 | -0.7 | 80 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 50.539 | -1.1 | 80 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 52.805 | -5.6 | 87 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.729 | -3.5 | 82 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 47.459 | 5.1 | 75 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 50.900 | -1.8 | 82 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 50.499 | -1.0 | 79 | 0.00 |

Sample Results: **VW032468.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032468.D
Acq On : 18 Nov 2025 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**LabSampleId :**
VSTDCCC050

Quant Time: Nov 19 00:21:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 48.597 | 2.8 | 80 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

# QC SAMPLE DATA

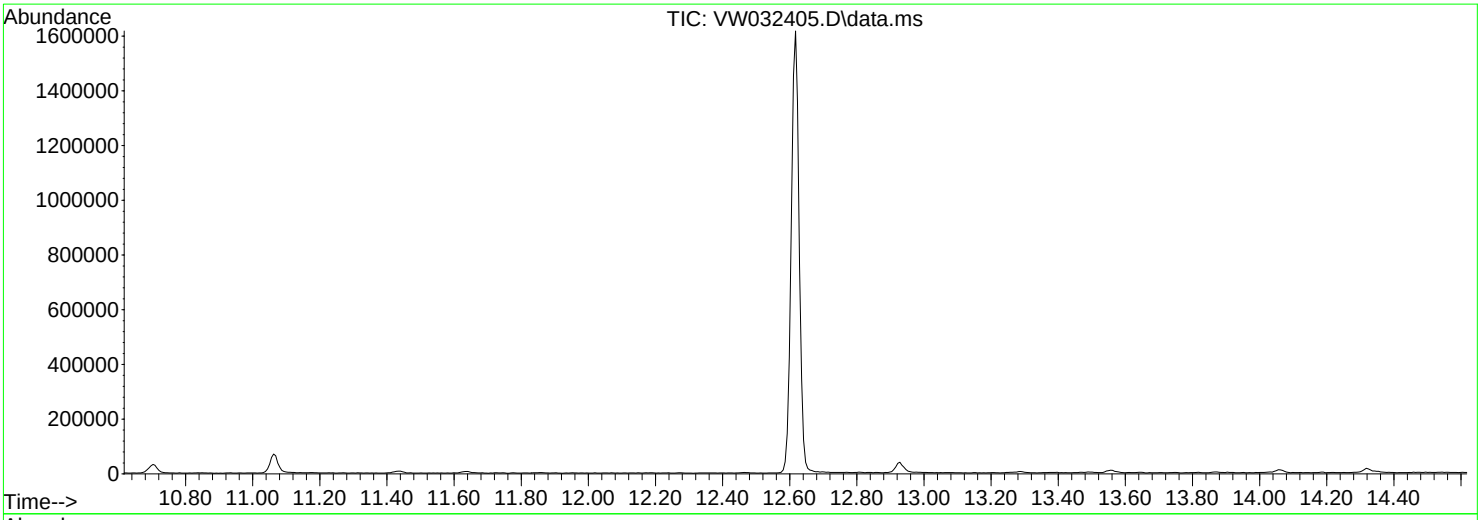
Sample Results: **VW032405.D**

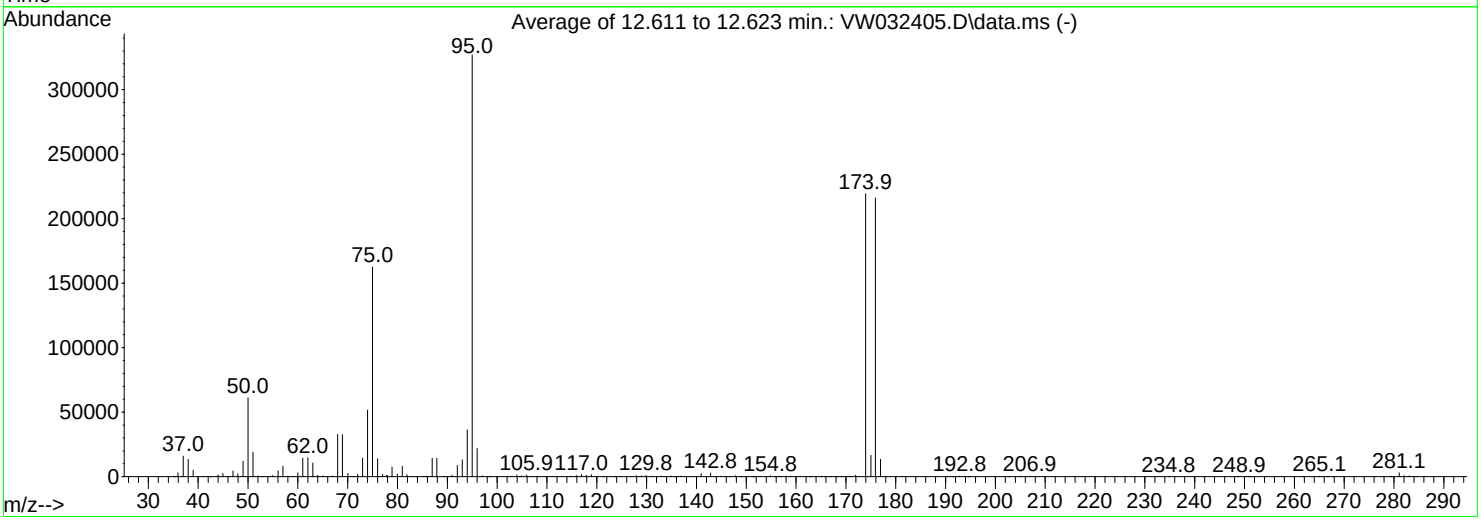
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032405.D
Acq On : 10 Nov 2025 14:20
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Title : SW846 8260
Last Update : Tue Nov 11 03:48:21 2025




AutoFind: Scans 1759, 1760, 1761; Background Corrected with Scan 1750

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 18.7 | 61165 | PASS |
| 75 | 95 | 30 | 60 | 49.7 | 162496 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 326997 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 21816 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 67.1 | 219371 | PASS |
| 175 | 174 | 5 | 9 | 7.6 | 16661 | PASS |
| 176 | 174 | 95 | 101 | 98.5 | 216149 | PASS |
| 177 | 176 | 5 | 9 | 6.3 | 13512 | PASS |

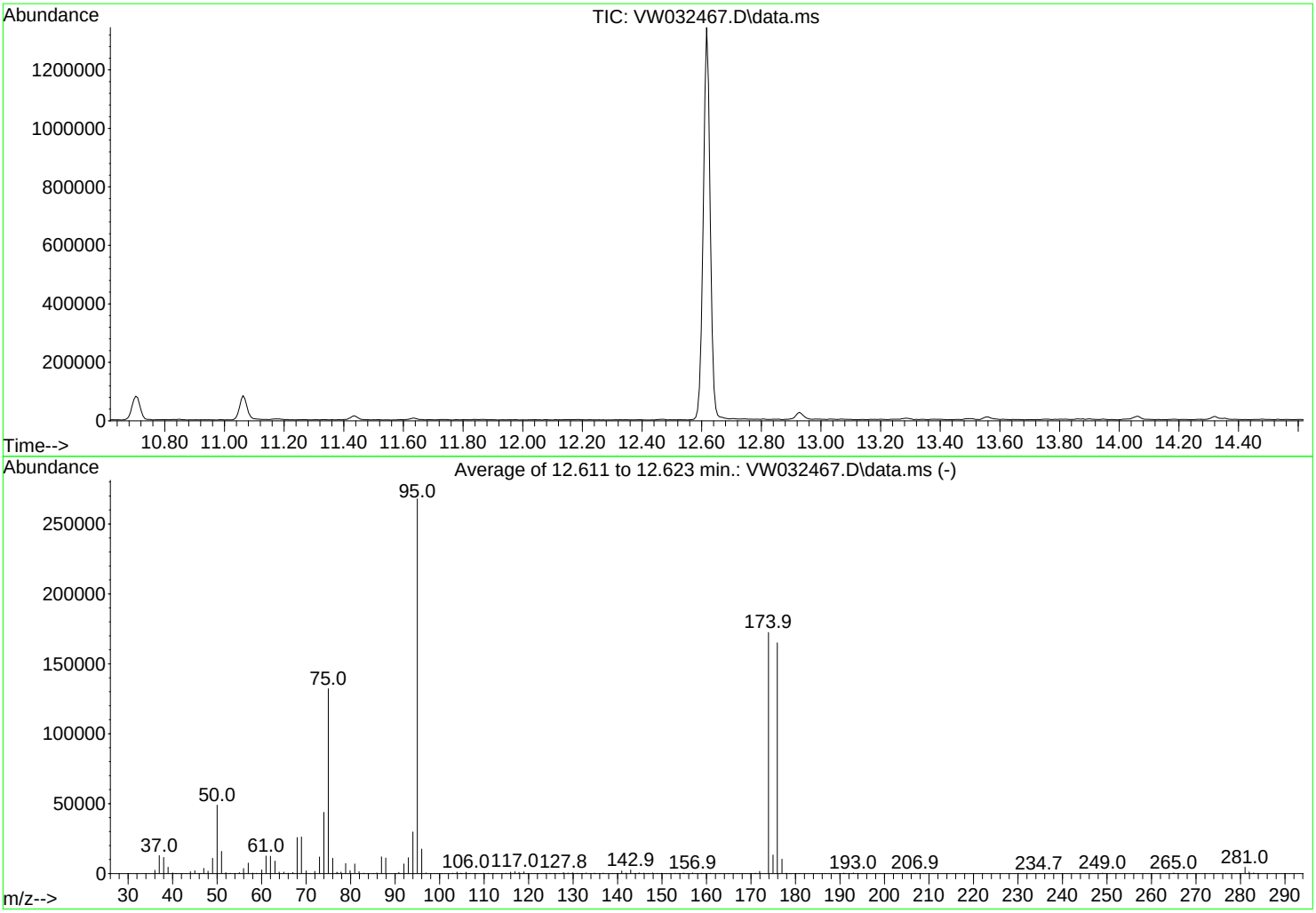
Sample Results: **VW032467.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032467.D
Acq On : 18 Nov 2025 09:15
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Title : SW846 8260
Last Update : Tue Nov 11 03:48:21 2025




AutoFind: Scans 1759, 1760, 1761; Background Corrected with Scan 1750

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 18.3 | 48973 | PASS |
| 75 | 95 | 30 | 60 | 49.3 | 132197 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 267925 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 17523 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 64.4 | 172437 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 13242 | PASS |
| 176 | 174 | 95 | 101 | 95.7 | 164992 | PASS |
| 177 | 176 | 5 | 9 | 6.3 | 10340 | PASS |

Raw Data: **VW032469.D**

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

# Report of Analysis

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

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

Raw Data: **VW032469.D**

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

# Report of Analysis

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

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

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

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

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

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

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

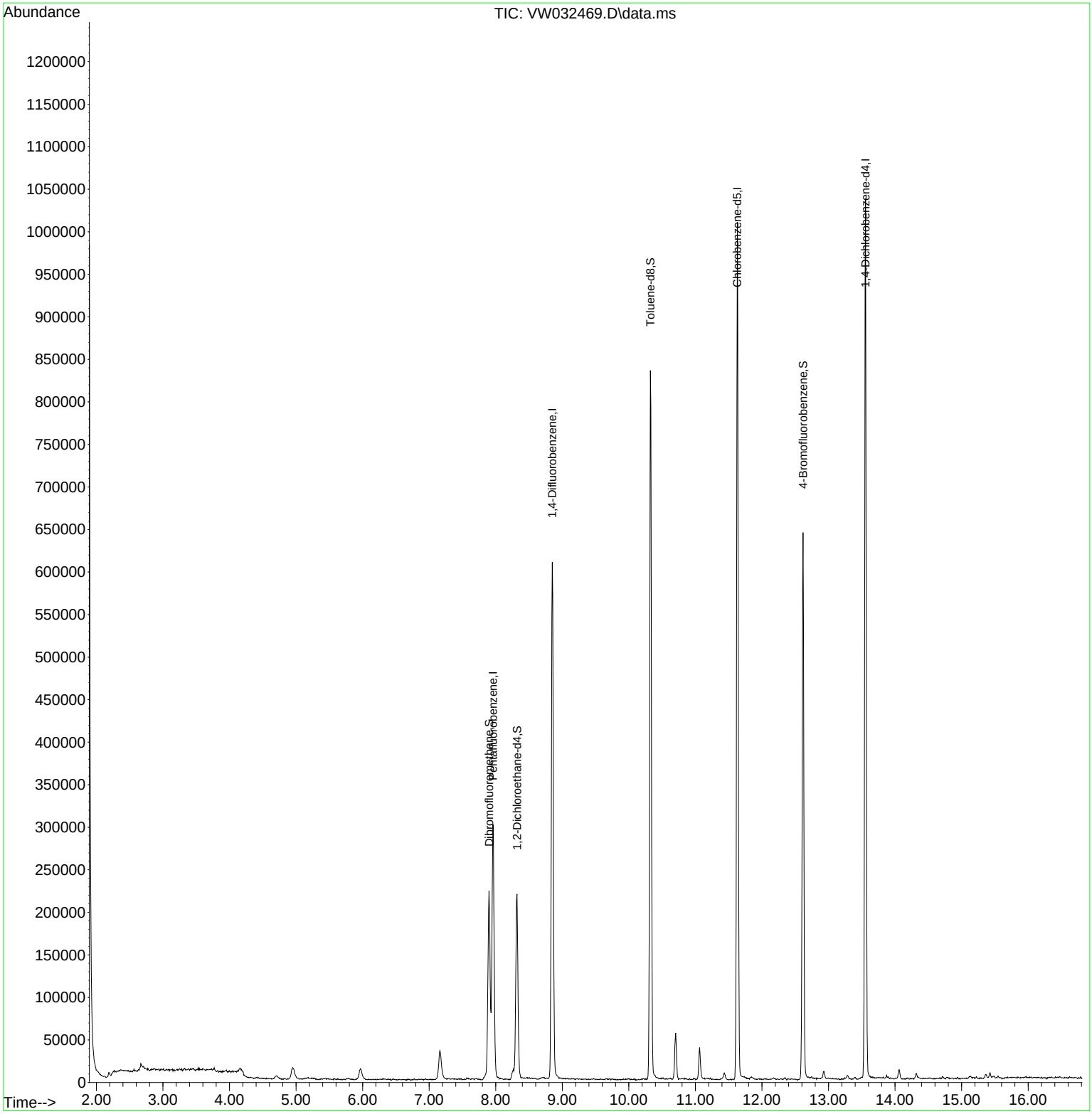
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 212726 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 511741 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629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

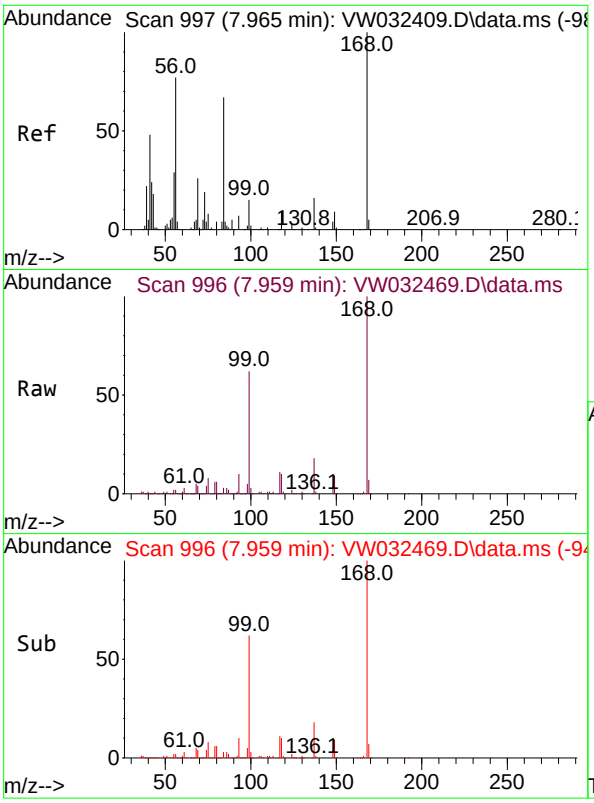
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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

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



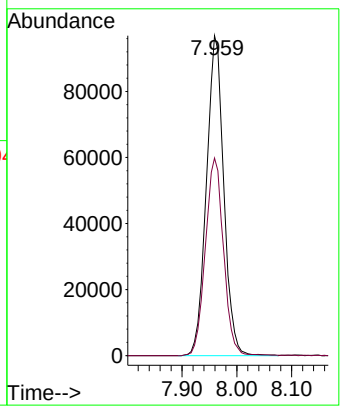


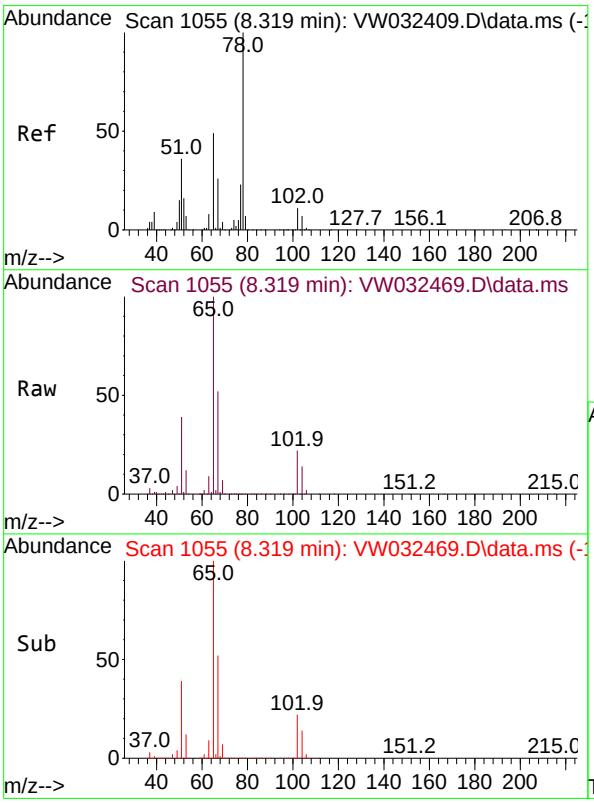

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

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

Tgt Ion:168 Resp: 212726

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

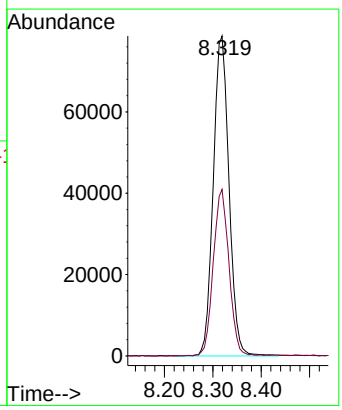


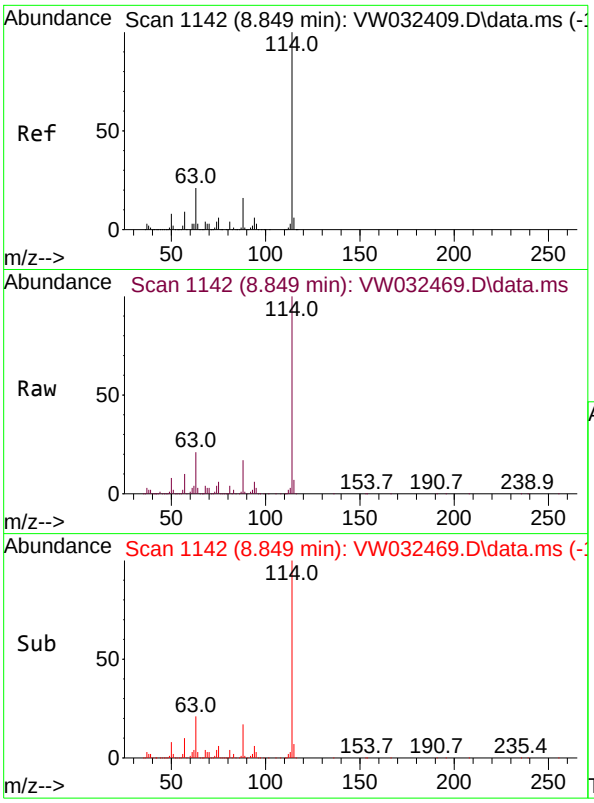




#33
1,2-Dichloroethane-d4
Concen: 64.691 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

Tgt Ion: 65 Resp: 177417

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



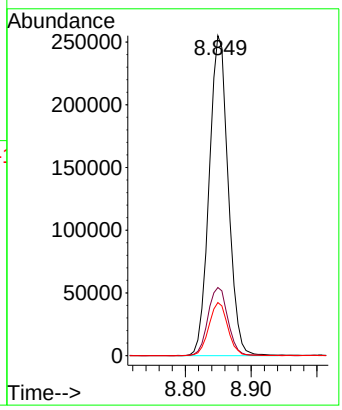


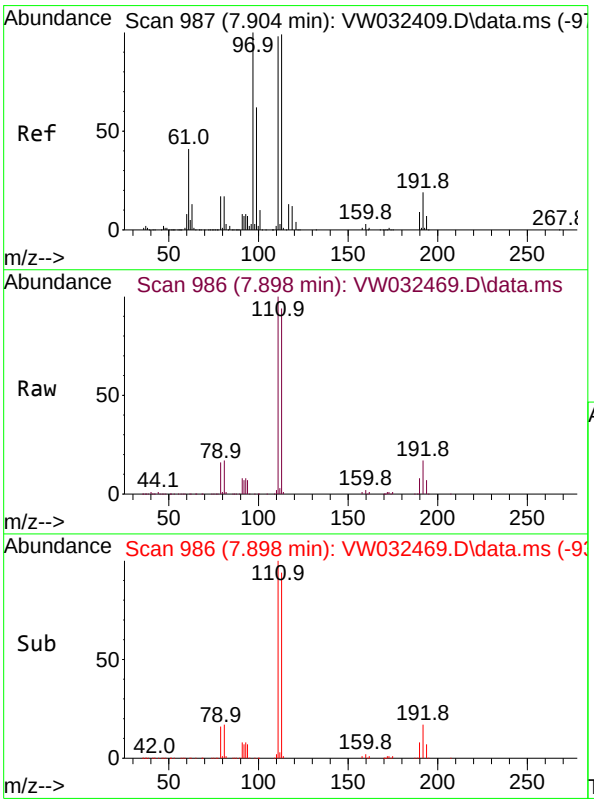

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

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

Tgt Ion:114 Resp: 511741

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

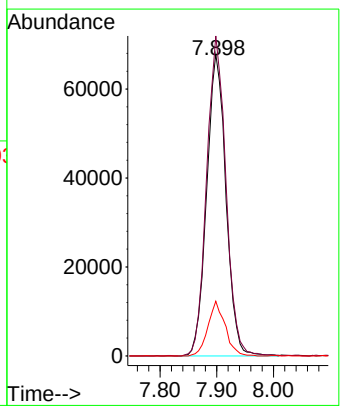


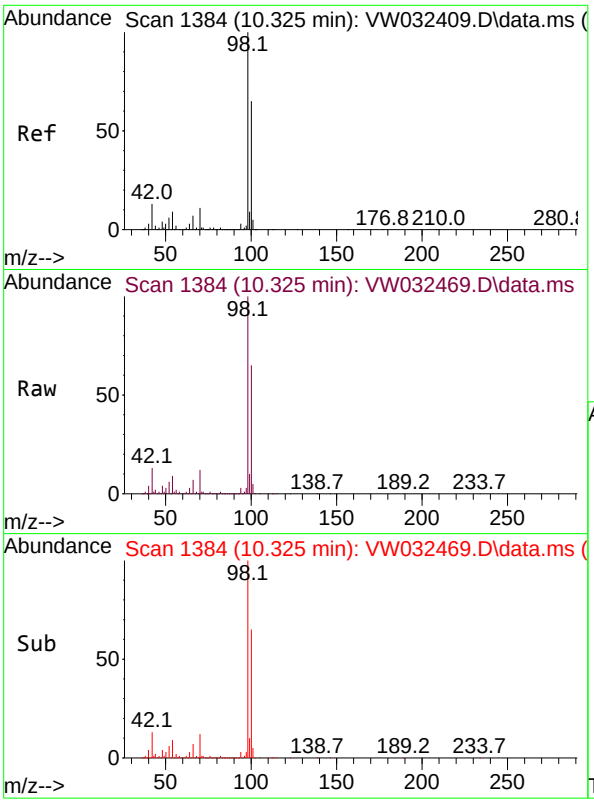




#35
Dibromofluoromethane
Concen: 52.255 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

Tgt Ion:113 Resp: 160106

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



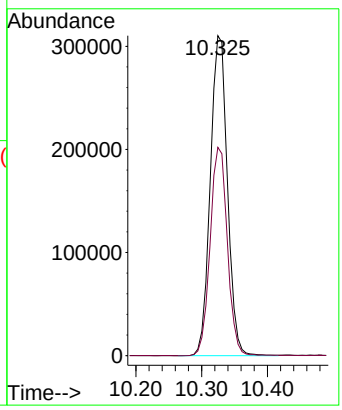


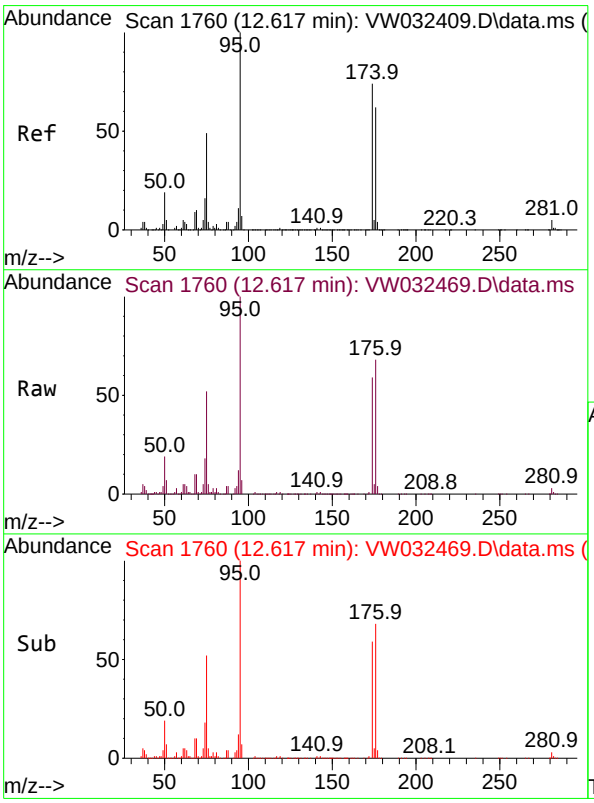

#50
Toluene-d8
Concen: 47.411 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

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

Tgt Ion: 98 Resp: 557281

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

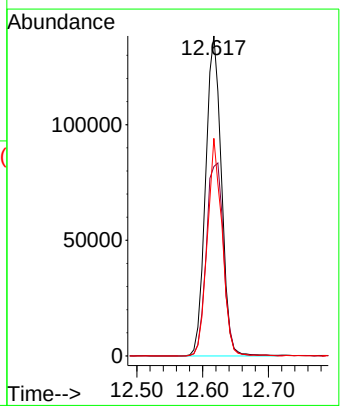


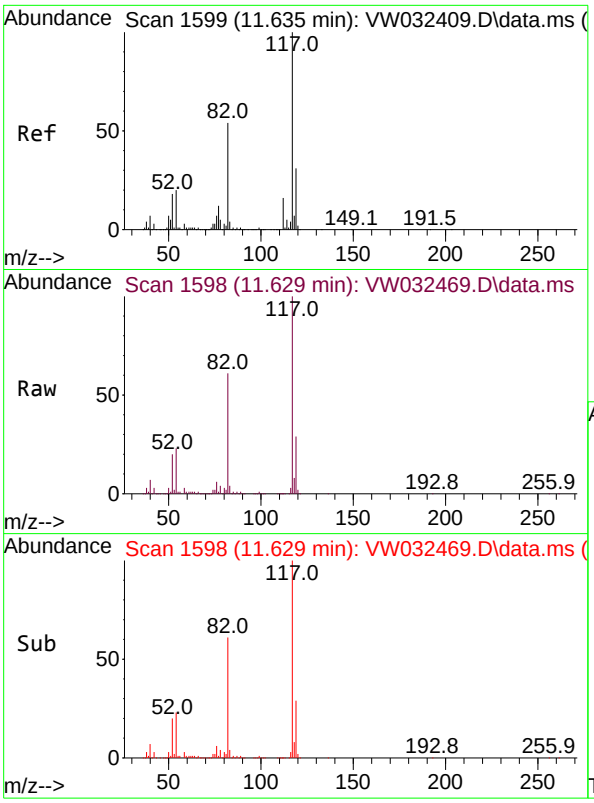




#62
4-Bromofluorobenzene
Concen: 52.041 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

Tgt Ion: 95 Resp: 231076

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



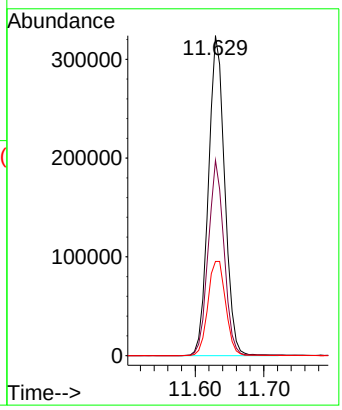


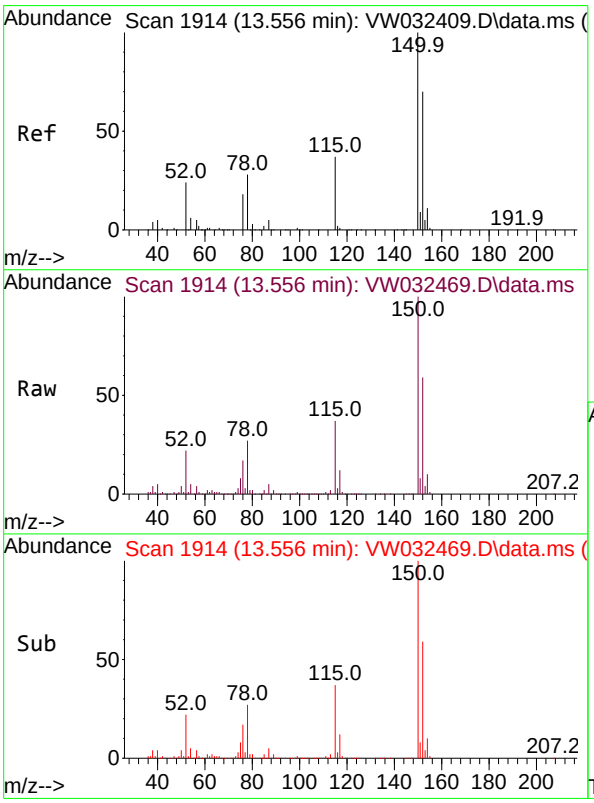

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

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

Tgt Ion:117 Resp: 533709

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

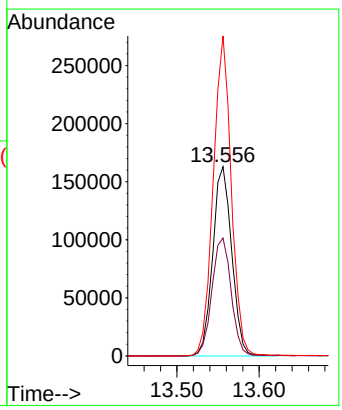



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

Tgt Ion:152 Resp: 261053

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



Sample Results: **VW032469.D**

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

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

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

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

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

Signal : TIC: VW032469.D\data.ms

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

Sum of corrected areas: 9348726

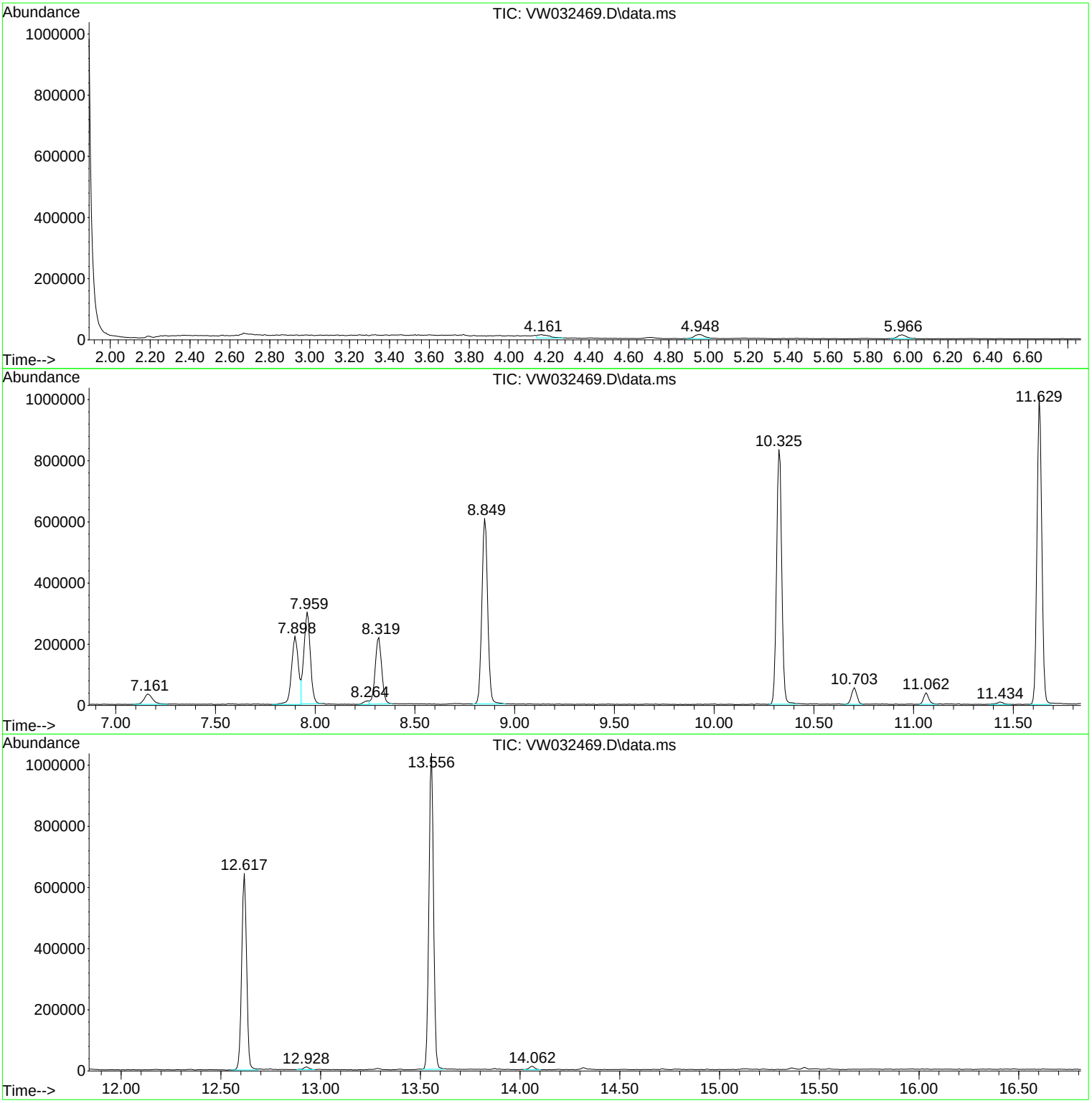
Sample Results: **VW032469.D**

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

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

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

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



Library Search Compound Report

Sample Results: **VW032469.D**

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

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

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

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

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

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

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

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

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

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

Raw Data: **VW032470.D**

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

# Report of Analysis

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

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

Raw Data: **VW032470.D**

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

# Report of Analysis

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

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

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

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

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

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

**Manual Integrations APPROVED**

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

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

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

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

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

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

**Manual Integrations APPROVED**

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

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

Sample Results: **VW032470.D**

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

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

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

**Manual Integrations APPROVED**

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

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

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

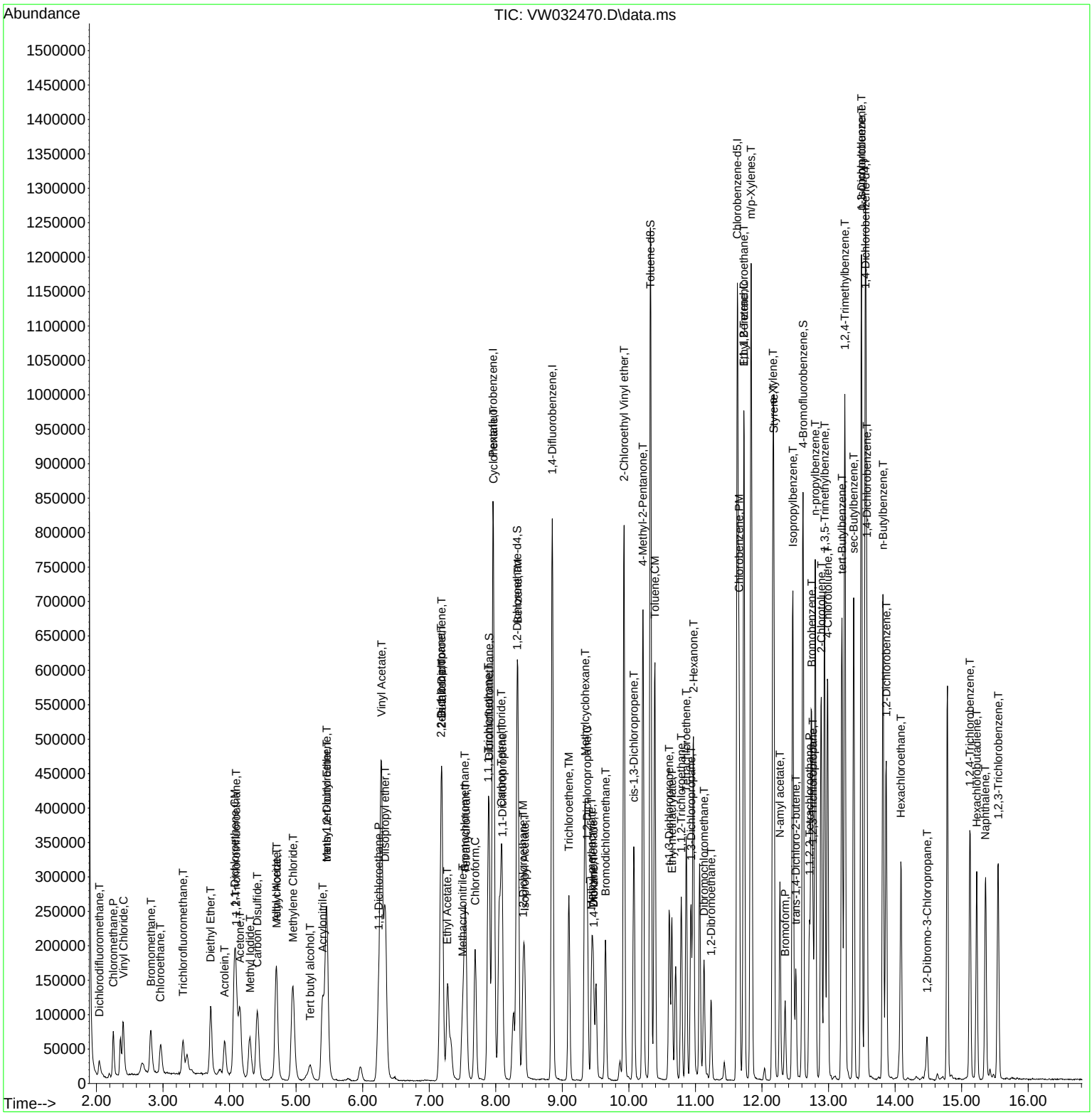
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032470.D
Acq On : 18 Nov 2025 10:40
Operator : SY/MD
Sample : VW1118SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

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

**Manual Integrations APPROVED**

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



Raw Data: **VW032471.D**

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

# Report of Analysis

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

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

Raw Data: **VW032471.D**

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

# Report of Analysis

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

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

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

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

Sample Results: **VW032471.D**

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

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

**Manual Integrations APPROVED**

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

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

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

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

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

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

**Manual Integrations APPROVED**

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

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

Sample Results: **VW032471.D**

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

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

**Manual Integrations APPROVED**

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

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

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

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

Sample Results: **VW032471.D**

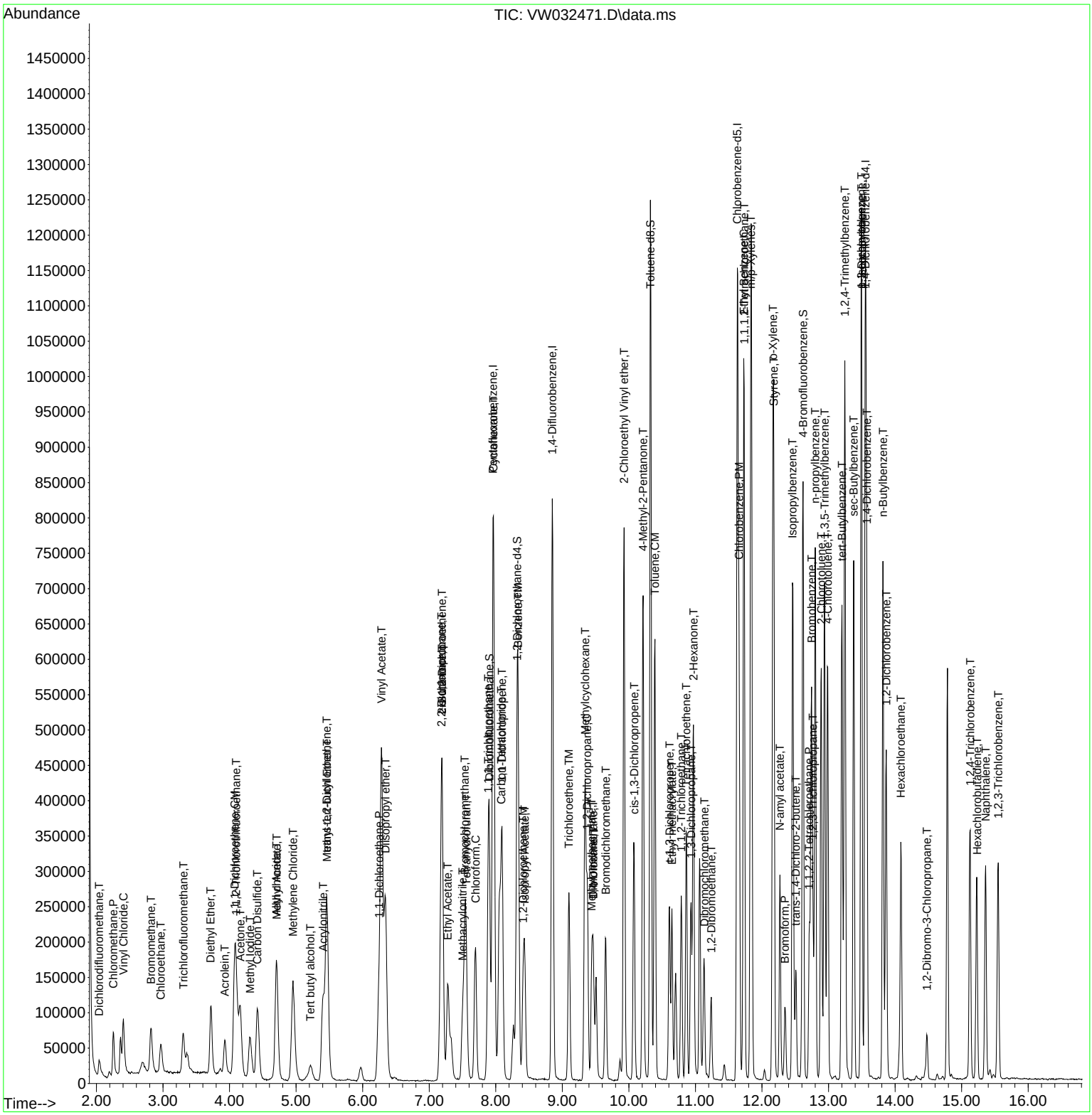
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032471.D
Acq On : 18 Nov 2025 11:02
Operator : SY/MD
Sample : VW1118SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

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

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

**Manual Integrations APPROVED**

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



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

# Manual Integration Report

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

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

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

# Manual Integration Report

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

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

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

**Instrument ID: MSVOA_W**

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

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

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

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

M : Manual Integration

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

**Instrument ID: MSVOA_W**

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

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

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

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

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

**Instrument ID: MSVOA_W**

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

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

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

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

M : Manual Integration

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

**Instrument ID:** MSVOA_W

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

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

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

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

M : Manual Integration

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

**Instrument ID:** MSVOA_W

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

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

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

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

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

**Instrument ID:** MSVOA_W

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

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

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

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

M : Manual Integration

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** JIGNESH
**Date:** 11/19/2025

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:30
**In Date:** 11/18/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 104
**Time OUT:** 08:35
**Out Date:** 11/19/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID-OVEN

**QC:** LB137951

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| Q3662-01 | B3-0.5-1.0-20251117 | 1 | 1.15 | 10.55 | 11.7 | 10.77 | 91.2 | |
| Q3662-02 | B3-0.0-1.0-20251117 | 2 | 1.19 | 10.67 | 11.86 | 10.23 | 84.7 | |
| Q3662-03 | B1-0.5-1.0-20251117 | 3 | 1.16 | 10.37 | 11.53 | 10.76 | 92.6 | |
| Q3662-04 | B1-0.0-1.0-20251117 | 4 | 1.17 | 10.62 | 11.79 | 10.53 | 88.1 | |
| Q3663-01 | 2053 | 5 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oil sample |
| Q3663-02 | 2054 | 6 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oil sample |
| Q3664-01 | ARS20-0001 | 7 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | Concreate sample |
| Q3664-02 | ARS20-0001-E2 | 8 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | Concreate sample |
| Q3664-03 | ARS20-0013 | 9 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | Concreate sample |
| Q3664-04 | ARS20-0013-E2 | 10 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | Concreate sample |
| Q3664-05 | 291399 | 11 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | STONE SAMPLE, 100% SOLIDS |
| Q3664-06 | 291399-E2 | 12 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | STONE SAMPLE, 100% SOLIDS |
| Q3665-01 | BUR-25-0101 | 13 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | WIPE SAMPLE |
| Q3666-01 | BUR-25-0103 | 14 | 1.18 | 10.38 | 11.56 | 10.66 | 91.3 | |
| Q3667-01 | RIGHT-SIDE-WALL | 15 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | Concreate sample |
| Q3667-03 | LEFT-SIDE-WALL | 16 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | Concreate sample |
| Q3667-05 | LEFT-SIDE-FLOOR | 17 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | Concreate sample |
| Q3667-07 | ELEVATED-DIVIDE | 18 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | Concreate sample |
| Q3668-01 | 2015 | 19 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | Concreate sample |
| Q3669-01 | EO-01-11182025 | 20 | 1.11 | 10.43 | 11.54 | 10.8 | 92.9 | |
| Q3669-02 | EO-01-11182025-E2 | 21 | 1.15 | 9.98 | 11.13 | 10.33 | 92.0 | |
| Q3669-02D | EO-01-11182025-E2DUP | 22 | 1.19 | 9.96 | 11.15 | 10.35 | 92.0 | |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

SB 137951

**WorkList Name :** %1-111825 **WorkList ID :** 193178 **Department :** Wet-Chemistry **Date :** 11-18-2025 10:44:37

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q3662-01 | B3-0.5-1.0-20251117 | Solid | Percent Solids | Cool 4 deg C | HDRI08 | D41 | 11/17/2025 | Chemtech -SO |
| Q3662-02 | B3-0.0-1.0-20251117 | Solid | Percent Solids | Cool 4 deg C | HDRI08 | D41 | 11/17/2025 | Chemtech -SO |
| Q3662-03 | B3-0.5-1.0-20251117 | Solid | Percent Solids | Cool 4 deg C | HDRI08 | D41 | 11/17/2025 | Chemtech -SO |
| Q3662-04 | B3-0.0-1.0-20251117 | Solid | Percent Solids | Cool 4 deg C | HDRI08 | D41 | 11/17/2025 | Chemtech -SO |
| Q3663-01 | 2053 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | Chemtech -SO |
| Q3663-02 | 2054 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | Chemtech -SO |
| Q3664-01 | ARS20-0001 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | Chemtech -SO |
| Q3664-02 | ARS20-0001-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | Chemtech -SO |
| Q3664-03 | ARS20-0013 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | Chemtech -SO |
| Q3664-04 | ARS20-0013-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | Chemtech -SO |
| Q3664-05 | 291399 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | Chemtech -SO |
| Q3664-06 | 291399-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | Chemtech -SO |
| Q3665-01 | BUR-25-0101 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | Chemtech -SO |
| Q3666-01 | BUR-25-0103 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D41 | 11/18/2025 | Chemtech -SO |
| Q3667-01 | RIGHT-SIDE-WALL | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D31 | 11/18/2025 | Chemtech -SO |
| Q3667-03 | LEFT-SIDE-WALL | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D41 | 11/18/2025 | Chemtech -SO |
| Q3667-05 | LEFT-SIDE-FLOOR | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D41 | 11/18/2025 | Chemtech -SO |
| Q3667-07 | ELEVATED-DIVIDE | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D41 | 11/18/2025 | Chemtech -SO |
| Q3668-01 | 2015 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D41 | 11/18/2025 | Chemtech -SO |
| Q3669-01 | EO-01-11182025 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | D41 | 11/18/2025 | Chemtech -SO |
| Q3669-02 | EO-01-11182025-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | D41 | 11/18/2025 | Chemtech -SO |

**Date/Time** 11/18/25 15:35

**Raw Sample Received by:** SB CWC

**Raw Sample Relinquished by:**

**Date/Time** 11/18/25 17:40

**Raw Sample Received by:**

**Raw Sample Relinquished by:** SB CWC


# SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. ~~Q3466~~ Q3662
COC Number 2044566

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: HDR
ADDRESS: 50 Tice Blvd., Suite 210
CITY Woodcliff Lake STATE: NJ ZIP: 07677
ATTENTION: Andrew Wadden
PHONE: 201-312-0752 FAX: —

## CLIENT PROJECT INFORMATION

PROJECT NAME: PVWC
PROJECT NO.: 10367568 LOCATION: Passaic, NJ
PROJECT MANAGER: Andrew Wadden
e-mail: Andrew.Wadden@HDRinc.com
PHONE: 201-312-0752 FAX:

## CLIENT BILLING INFORMATION

BILL TO: HDR PO#: —
ADDRESS: 50 Tice Blvd., Suite 210
CITY Woodcliff Lake STATE: NJ ZIP: 07677
ATTENTION: Andrew Wadden PHONE: 201-312-0752

## DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): STADARD TAT DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

## DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT _____
- ☐ Level 4 (QC + Full Raw Data)
- ☑ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____

## ANALYSIS

1. TCL VOCs
2. TCL SVOCs
3. Pesticides, Cyanide
4. PCBs + TAL metals
5. TCLP for metals, Hexavalent chromium, mercury, ignitability, EPH
6. 2,3,7,8 Tetrachlorodibenzo-p-dioxin
7. Reactive cyanide, reactive sulfide, corrosivity
8. PAHs + PCBs
9.

## PRESERVATIVES

## COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRES 1 | PRES 2 | PRES 3 | PRES 4 | PRES 5 | PRES 6 | PRES 7 | PRES 8 | PRES 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | B3-0.5-1.0-20251117 | S | | ✓ | 11/17/25 | 0925 | 4 | ✓ | | | | | | | | |
| 2. | B3-0.0-1.0-20251117 | S | | ✓ | 11/17/25 | 0930 | 3 | | ✓ | ✓ | ✓ | | | | | |
| 3. | B1-0.5-1.0-20251117 | S | | ✓ | 11/17/25 | 1055 | 4 | ✓ | | | | | | | | |
| 4. | B1-0.0-1.0-20251117 | S | | ✓ | 11/17/25 | 1105 | 6 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5. | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | |

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. | 11/17/25 1515 | 1. 11/18/25 0957 |
| 2. | | 2. |
| 3. | 11/18/25 1110 | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.4 °C
Comments: _____

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other _____

Shipment Complete ☐ YES ☐ NO



WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

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

# Laboratory Certification

| Certified By | License No. |
|---|---|
| | |
| Connecticut | PH-0830 |
| | |
| DOD ELAP (ANAB) | L2219 |
| | |
| Maine | 2024021 |
| | |
| Maryland | 296 |
| | |
| New Hampshire | 255425 |
| | |
| New Jersey | 20012 |
| | |
| New York | 11376 |
| | |
| Pennsylvania | 68-00548 |
| | |
| Soil Permit | 525-24-234-08441 |
| | |
| Texas | TX-C25-00189 |
| | |
| Virginia | 460312 |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q3662 HDRI08
**Client Name :** HDR, Inc.
**Client Contact :** Andrew Wadden
**Invoice Name :** HDR, Inc.
**Invoice Contact :** Andrew Wadden

**Order Date :** 11/18/2025 11:14:00 AM
**Project Name :** PVWC Linear Construction
**Receive DateTime :** 11/18/2025 ~~12:00:00~~ 11:10 AM
**Purchase Order :**

**Project Mgr :**
**Report Type :** NJ Reduced
**EDD Type :** Excel NJ
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q3662-01 | B3-0.5-1.0-20251117 | Solid | 11/17/2025 | 09:25 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q3662-03 | B1 ~~B3~~-0.5-1.0-20251117 | Solid | 11/17/2025 | 10:55 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |

**Relinguished By :**
**Date / Time :** 11/18/25 1245

**Received By :**
**Date / Time :** 11/18/25 12:45
**Storage Area :** VOA Refridgerator Room