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 |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q3757 | **OrderDate:** | 12/3/2025 9:25:00 AM |
| **Client:** | JACOBS Engineering Group, Inc. | **Project:** | Former Schlumberger STC PTC Site D3868221 |
| **Contact:** | John Ynfante | **Location:** | --Select--,A11,VOA Lab |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q3757-01** | **MW-14A-17.5-120325** | **Water** | | | **12/03/25** | | | **12/03/25** |
| | | | VOCMS Group3 | 8260-Low | | | 12/05/25 | |
| **Q3757-03** | **BR-03D-490-120325** | **Water** | | | **12/03/25** | | | **12/03/25** |
| | | | VOCMS Group3 | 8260-Low | | | 12/05/25 | |
| **Q3757-05** | **MW-14B-46-120325** | **Water** | | | **12/03/25** | | | **12/03/25** |
| | | | VOCMS Group3 | 8260-Low | | | 12/05/25 | |
| **Q3757-05RE** | **MW-14B-46-120325RE** | **Water** | | | **12/03/25** | | | **12/03/25** |
| | | | VOCMS Group3 | 8260-Low | | | 12/08/25 | |
| **Q3757-07** | **RMW-05B-90.5-120325** | **Water** | | | **12/03/25** | | | **12/03/25** |
| | | | VOCMS Group3 | 8260-Low | | | 12/05/25 | |
| **Q3757-09** | **OW-05B-72-120325** | **Water** | | | **12/03/25** | | | **12/03/25** |
| | | | VOCMS Group3 | 8260-Low | | | 12/05/25 | |
| **Q3757-09RE** | **OW-05B-72-120325RE** | **Water** | | | **12/03/25** | | | **12/03/25** |
| | | | VOCMS Group3 | 8260-Low | | | 12/08/25 | |
| **Q3757-11** | **EB01-120325** | **Water** | | | **12/03/25** | | | **12/03/25** |
| | | | VOCMS Group3 | 8260-Low | | | 12/04/25 | |
| **Q3757-12** | **TB01-120325** | **Water** | | | **12/03/25** | | | **12/03/25** |
| | | | VOCMS Group3 | 8260-Low | | | 12/04/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3757

**Client:** JACOBS Engineering Group, Inc.

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **BR-03D-490-120325** | | | | | | | |
| Q3757-03 | BR-03D-490-12032 | Water | Vinyl Chloride | 3.90 | | 0.26 | 1.00 | ug/L |
| Q3757-03 | BR-03D-490-12032 | Water | 1,1-Dichloroethene | 48.1 | | 0.23 | 1.00 | ug/L |
| Q3757-03 | BR-03D-490-12032 | Water | 1,1-Dichloroethane | 6.40 | | 0.23 | 1.00 | ug/L |
| Q3757-03 | BR-03D-490-12032 | Water | cis-1,2-Dichloroethene | 34.9 | | 0.19 | 1.00 | ug/L |
| Q3757-03 | BR-03D-490-12032 | Water | Benzene | 0.23 | J | 0.15 | 1.00 | ug/L |
| Q3757-03 | BR-03D-490-12032 | Water | 1,2-Dichloroethane | 3.70 | | 0.22 | 1.00 | ug/L |
| Q3757-03 | BR-03D-490-12032 | Water | Trichloroethene | 35.1 | | 0.090 | 1.00 | ug/L |
| | | | **Total Voc :** | 132 | | | | |
| | | | **Total Concentration:** | 132 | | | | |
| **Client ID:** | **RMW-05B-90.5-120325** | | | | | | | |
| Q3757-07 | RMW-05B-90.5-12( | Water | 1,1-Dichloroethane | 1.50 | | 0.23 | 1.00 | ug/L |
| Q3757-07 | RMW-05B-90.5-12( | Water | cis-1,2-Dichloroethene | 13.1 | | 0.19 | 1.00 | ug/L |
| Q3757-07 | RMW-05B-90.5-12( | Water | Trichloroethene | 0.65 | J | 0.090 | 1.00 | ug/L |
| | | | **Total Voc :** | 15.3 | | | | |
| | | | **Total Concentration:** | 15.3 | | | | |
| **Client ID:** | **OW-05B-72-120325** | | | | | | | |
| Q3757-09 | OW-05B-72-12032! | Water | 1,1-Dichloroethene | 0.85 | J | 0.23 | 1.00 | ug/L |
| Q3757-09 | OW-05B-72-12032! | Water | cis-1,2-Dichloroethene | 2.20 | | 0.19 | 1.00 | ug/L |
| Q3757-09 | OW-05B-72-12032! | Water | Trichloroethene | 0.44 | J | 0.090 | 1.00 | ug/L |
| | | | **Total Voc :** | 3.49 | | | | |
| | | | **Total Concentration:** | 3.49 | | | | |
| **Client ID:** | **OW-05B-72-120325RE** | | | | | | | |
| Q3757-09RE | OW-05B-72-12032! | Water | 1,1-Dichloroethene | 0.60 | J | 0.23 | 1.00 | ug/L |
| Q3757-09RE | OW-05B-72-12032! | Water | cis-1,2-Dichloroethene | 1.50 | | 0.19 | 1.00 | ug/L |
| Q3757-09RE | OW-05B-72-12032! | Water | Trichloroethene | 0.25 | J | 0.090 | 1.00 | ug/L |
| | | | **Total Voc :** | 2.35 | | | | |
| | | | **Total Concentration:** | 2.35 | | | | |


# QC SUMMARY

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# Surrogate Summary

**SDG No.:** Q3757

**Client:** JACOBS Engineering Group, Inc.

**Analytical Method:** SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| Q3757-01 | MW-14A-17.5-120325 | 1,2-Dichloroethane-d4 | 50 | 52.4 | 105 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 49.5 | 99 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 48.6 | 97 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 50.0 | 100 | | 70 (77) | 130 (121) |
| Q3757-03 | BR-03D-490-120325 | 1,2-Dichloroethane-d4 | 50 | 55.1 | 110 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 51.8 | 104 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 42.9 | 86 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 45.5 | 91 | | 70 (77) | 130 (121) |
| Q3757-05 | MW-14B-46-120325 | 1,2-Dichloroethane-d4 | 50 | 47.2 | 94 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 40.9 | 82 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 35.3 | 71 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 43.5 | 87 | | 70 (77) | 130 (121) |
| Q3757-05RE | MW-14B-46-120325RE | 1,2-Dichloroethane-d4 | 50 | 57.7 | 115 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 38.4 | 77 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 38.4 | 77 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 56.9 | 114 | | 70 (77) | 130 (121) |
| Q3757-07 | RMW-05B-90.5-120325 | 1,2-Dichloroethane-d4 | 50 | 51.3 | 103 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 47.1 | 94 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 43.9 | 88 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 45.8 | 92 | | 70 (77) | 130 (121) |
| Q3757-09 | OW-05B-72-120325 | 1,2-Dichloroethane-d4 | 50 | 58.8 | 118 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 39.7 | 79 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 38.2 | 76 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 45.0 | 90 | | 70 (77) | 130 (121) |
| Q3757-09RE | OW-05B-72-120325RE | 1,2-Dichloroethane-d4 | 50 | 62.9 | 126 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 39.6 | 79 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 47.0 | 94 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 56.1 | 112 | | 70 (77) | 130 (121) |
| Q3757-11 | EB01-120325 | 1,2-Dichloroethane-d4 | 50 | 53.6 | 107 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 46.9 | 94 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 44.4 | 89 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 49.5 | 99 | | 70 (77) | 130 (121) |
| Q3757-12 | TB01-120325 | 1,2-Dichloroethane-d4 | 50 | 56.4 | 113 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 47.1 | 94 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 45.0 | 90 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 52.4 | 105 | | 70 (77) | 130 (121) |
| VN1204WBL01 | VN1204WBL01 | 1,2-Dichloroethane-d4 | 50 | 61.7 | 123 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 50.8 | 102 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 46.7 | 93 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 49.9 | 100 | | 70 (77) | 130 (121) |
| VN1204WBS01 | VN1204WBS01 | 1,2-Dichloroethane-d4 | 50 | 53.8 | 108 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 50.7 | 101 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 51.7 | 103 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 54.4 | 109 | | 70 (77) | 130 (121) |
| VN1204WBSD0 | VN1204WBSD01 | 1,2-Dichloroethane-d4 | 50 | 56.0 | 112 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 53.1 | 106 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 52.7 | 105 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 56.3 | 113 | | 70 (77) | 130 (121) |
| VX1205WBL01 | VX1205WBL01 | 1,2-Dichloroethane-d4 | 50 | 50.6 | 101 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 49.7 | 99 | | 70 (75) | 130 (124) |

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# Surrogate Summary

**SDG No.:** Q3757

**Client:** JACOBS Engineering Group, Inc.

**Analytical Method:** SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| VX1205WBL01 | VX1205WBL01 | Toluene-d8 | 50 | 50.8 | 102 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 60.5 | 121 | | 70 (77) | 130 (121) |
| VX1205WBS01 | VX1205WBS01 | 1,2-Dichloroethane-d4 | 50 | 52.4 | 105 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 48.0 | 96 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 49.6 | 99 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 52.5 | 105 | | 70 (77) | 130 (121) |
| VX1208WBL01 | VX1208WBL01 | 1,2-Dichloroethane-d4 | 50 | 49.5 | 99 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 46.0 | 92 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 45.2 | 90 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 55.8 | 112 | | 70 (77) | 130 (121) |
| VX1208WBS01 | VX1208WBS01 | 1,2-Dichloroethane-d4 | 50 | 56.7 | 113 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 50.4 | 101 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 50.6 | 101 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 58.8 | 118 | | 70 (77) | 130 (121) |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3757 **Analytical Method:** SW8260-Low

**Client:** JACOBS Engineering Group, Inc. **Datafile :** VN088443.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN1204WBS01 | Vinyl chloride | 20 | 20.3 | ug/L | 102 | | | 70 (65) | 130 (117) | |
| | 1,1-Dichloroethene | 20 | 20.4 | ug/L | 102 | | | 70 (74) | 130 (110) | |
| | 1,1-Dichloroethane | 20 | 19.6 | ug/L | 98 | | | 70 (78) | 130 (112) | |
| | cis-1,2-Dichloroethene | 20 | 19.0 | ug/L | 95 | | | 70 (77) | 130 (110) | |
| | 1,1,1-Trichloroethane | 20 | 20.7 | ug/L | 104 | | | 70 (80) | 130 (108) | |
| | Benzene | 20 | 19.3 | ug/L | 97 | | | 70 (82) | 130 (109) | |
| | 1,2-Dichloroethane | 20 | 20.8 | ug/L | 104 | | | 70 (80) | 130 (115) | |
| | Trichloroethene | 20 | 18.3 | ug/L | 92 | | | 70 (77) | 130 (113) | |
| | 1,1,2-Trichloroethane | 20 | 19.9 | ug/L | 100 | | | 70 (83) | 130 (112) | |
| | Tetrachloroethene | 20 | 18.1 | ug/L | 91 | | | 70 (67) | 130 (123) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3757 **Analytical Method:** SW8260-Low

**Client:** JACOBS Engineering Group, Inc. **Datafile :** VN088444.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN1204WBSD01 | Vinyl chloride | 20 | 19.0 | ug/L | 95 | 7 | | 70 (65) | 130 (117) | 20 (19) |
| | 1,1-Dichloroethene | 20 | 19.5 | ug/L | 98 | 4 | | 70 (74) | 130 (110) | 20 (20) |
| | 1,1-Dichloroethane | 20 | 19.7 | ug/L | 99 | 1 | | 70 (78) | 130 (112) | 20 (20) |
| | cis-1,2-Dichloroethene | 20 | 19.3 | ug/L | 97 | 2 | | 70 (77) | 130 (110) | 20 (20) |
| | 1,1,1-Trichloroethane | 20 | 20.6 | ug/L | 103 | 1 | | 70 (80) | 130 (108) | 20 (20) |
| | Benzene | 20 | 19.3 | ug/L | 97 | 0 | | 70 (82) | 130 (109) | 20 (15) |
| | 1,2-Dichloroethane | 20 | 21.6 | ug/L | 108 | 4 | | 70 (80) | 130 (115) | 20 (20) |
| | Trichloroethene | 20 | 18.7 | ug/L | 94 | 2 | | 70 (77) | 130 (113) | 20 (15) |
| | 1,1,2-Trichloroethane | 20 | 20.7 | ug/L | 104 | 4 | | 70 (83) | 130 (112) | 20 (20) |
| | Tetrachloroethene | 20 | 17.3 | ug/L | 86 | 6 | | 70 (67) | 130 (123) | 20 (15) |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3757 **Analytical Method:** SW8260-Low

**Client:** JACOBS Engineering Group, Inc. **Datafile :** VX048726.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VX1205WBS01 | Vinyl chloride | 20 | 16.1 | ug/L | 81 | | | 70 (65) | 130 (117) | |
| | 1,1-Dichloroethene | 20 | 19.4 | ug/L | 97 | | | 70 (74) | 130 (110) | |
| | 1,1-Dichloroethane | 20 | 20.1 | ug/L | 101 | | | 70 (78) | 130 (112) | |
| | cis-1,2-Dichloroethene | 20 | 19.1 | ug/L | 96 | | | 70 (77) | 130 (110) | |
| | 1,1,1-Trichloroethane | 20 | 20.0 | ug/L | 100 | | | 70 (80) | 130 (108) | |
| | Benzene | 20 | 18.7 | ug/L | 94 | | | 70 (82) | 130 (109) | |
| | 1,2-Dichloroethane | 20 | 20.1 | ug/L | 101 | | | 70 (80) | 130 (115) | |
| | Trichloroethene | 20 | 19.0 | ug/L | 95 | | | 70 (77) | 130 (113) | |
| | 1,1,2-Trichloroethane | 20 | 19.1 | ug/L | 96 | | | 70 (83) | 130 (112) | |
| | Tetrachloroethene | 20 | 17.6 | ug/L | 88 | | | 70 (67) | 130 (123) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3757 **Analytical Method:** SW8260-Low

**Client:** JACOBS Engineering Group, Inc. **Datafile :** VX048745.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VX1208WBS01 | Vinyl chloride | 20 | 19.8 | ug/L | 99 | | | 70 (65) | 130 (117) | |
| | 1,1-Dichloroethene | 20 | 19.2 | ug/L | 96 | | | 70 (74) | 130 (110) | |
| | 1,1-Dichloroethane | 20 | 20.8 | ug/L | 104 | | | 70 (78) | 130 (112) | |
| | cis-1,2-Dichloroethene | 20 | 19.9 | ug/L | 100 | | | 70 (77) | 130 (110) | |
| | 1,1,1-Trichloroethane | 20 | 20.1 | ug/L | 101 | | | 70 (80) | 130 (108) | |
| | Benzene | 20 | 18.8 | ug/L | 94 | | | 70 (82) | 130 (109) | |
| | 1,2-Dichloroethane | 20 | 21.4 | ug/L | 107 | | | 70 (80) | 130 (115) | |
| | Trichloroethene | 20 | 17.6 | ug/L | 88 | | | 70 (77) | 130 (113) | |
| | 1,1,2-Trichloroethane | 20 | 21.7 | ug/L | 109 | | | 70 (83) | 130 (112) | |
| | Tetrachloroethene | 20 | 16.5 | ug/L | 83 | | | 70 (67) | 130 (123) | |

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# VOLATILE METHOD BLANK SUMMARY

Client ID: VN1204WBL01

Lab Name: Alliance | Contract: JACO05

Lab Code: ACE | SDG NO.: Q3757

Lab File ID: VN088439.D | Lab Sample ID: VN1204WBL01

Date Analyzed: 12/04/2025 | Time Analyzed: 12:38

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

Instrument ID: MSVOA_N

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VN1204WBS01 | VN1204WBS01 | VN088443.D | 12/04/2025 |
| VN1204WBSD01 | VN1204WBSD01 | VN088444.D | 12/04/2025 |
| TB01-120325 | Q3757-12 | VN088449.D | 12/04/2025 |
| EB01-120325 | Q3757-11 | VN088450.D | 12/04/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

Client ID: VX1205WBL01

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG NO.: Q3757

Lab File ID: VX048725.D Lab Sample ID: VX1205WBL01

Date Analyzed: 12/05/2025 Time Analyzed: 10:34

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

Instrument ID: MSVOA_X

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VX1205WBS01 | VX1205WBS01 | VX048726.D | 12/05/2025 |
| MW-14A-17.5-120325 | Q3757-01 | VX048731.D | 12/05/2025 |
| BR-03D-490-120325 | Q3757-03 | VX048732.D | 12/05/2025 |
| MW-14B-46-120325 | Q3757-05 | VX048733.D | 12/05/2025 |
| RMW-05B-90.5-120325 | Q3757-07 | VX048734.D | 12/05/2025 |
| OW-05B-72-120325 | Q3757-09 | VX048735.D | 12/05/2025 |

COMMENTS:

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Fax : 908 789 8922

# VOLATILE METHOD BLANK SUMMARY

Client ID: VX1208WBL01

Lab Name: Alliance | Contract: JACO05

Lab Code: ACE | SDG NO.: Q3757

Lab File ID: VX048744.D | Lab Sample ID: VX1208WBL01

Date Analyzed: 12/08/2025 | Time Analyzed: 11:15

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

Instrument ID: MSVOA_X

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VX1208WBS01 | VX1208WBS01 | VX048745.D | 12/08/2025 |
| MW-14B-46-120325RE | Q3757-05RE | VX048747.D | 12/08/2025 |
| OW-05B-72-120325RE | Q3757-09RE | VX048748.D | 12/08/2025 |

COMMENTS:

Raw Data: **VN088343.D**

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

Lab Name: Alliance | Contract: JACO05

Lab Code: ACE | SDG NO.: Q3757

Lab File ID: VN088343.D | BFB Injection Date: 11/24/2025

Instrument ID: MSVOA_N | BFB Injection Time: 08:17

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 23.6 |
| 75 | 30.0 - 60.0% of mass 95 | 56.6 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.9 |
| 173 | Less than 2.0% of mass 174 | 1 ( 1.4 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 70.8 |
| 175 | 5.0 - 9.0% of mass 174 | 6 ( 8.4 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 68.3 ( 96.4 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.3 ( 6.4 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC001 | VSTDICC001 | VN088344.D | 11/24/2025 | 12:38 |
| VSTDICC005 | VSTDICC005 | VN088345.D | 11/24/2025 | 13:11 |
| VSTDICC020 | VSTDICC020 | VN088346.D | 11/24/2025 | 13:32 |
| VSTDICCC050 | VSTDICCC050 | VN088347.D | 11/24/2025 | 13:53 |
| VSTDICC100 | VSTDICC100 | VN088348.D | 11/24/2025 | 14:14 |
| VSTDICC150 | VSTDICC150 | VN088349.D | 11/24/2025 | 14:35 |

Alliance TECHNICAL GROUP

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

Lab Name: Alliance | Contract: JACO05

Lab Code: ACE | SDG NO.: Q3757

Lab File ID: VN088436.D | BFB Injection Date: 12/04/2025

Instrument ID: MSVOA_N | BFB Injection Time: 11:03

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 23.6 |
| 75 | 30.0 - 60.0% of mass 95 | 59.8 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 7 |
| 173 | Less than 2.0% of mass 174 | 0.5 ( 0.7 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 70.2 |
| 175 | 5.0 - 9.0% of mass 174 | 5.8 ( 8.3 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 67.6 ( 96.3 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.3 ( 6.4 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VN088437.D | 12/04/2025 | 11:44 |
| VN1204WBL01 | VN1204WBL01 | VN088439.D | 12/04/2025 | 12:38 |
| VN1204WBS01 | VN1204WBS01 | VN088443.D | 12/04/2025 | 14:12 |
| VN1204WBSD01 | VN1204WBSD01 | VN088444.D | 12/04/2025 | 14:45 |
| TB01-120325 | Q3757-12 | VN088449.D | 12/04/2025 | 16:28 |
| EB01-120325 | Q3757-11 | VN088450.D | 12/04/2025 | 16:48 |

Raw Data: **VX048713.D**

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

Lab Name: Alliance
Contract: JACO05
Lab Code: ACE
SDG NO.: Q3757
Lab File ID: VX048713.D
BFB Injection Date: 12/04/2025
Instrument ID: MSVOA_X
BFB Injection Time: 08:15
GC Column: DB-624UI ID: 0.18 (mm)
Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19.6 |
| 75 | 30.0 - 60.0% of mass 95 | 51.6 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.4 |
| 173 | Less than 2.0% of mass 174 | 1 ( 1.3 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 76.2 |
| 175 | 5.0 - 9.0% of mass 174 | 5.9 ( 7.8 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 74.4 ( 97.7 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.9 ( 6.6 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC001 | VSTDICC001 | VX048714.D | 12/04/2025 | 08:47 |
| VSTDICC005 | VSTDICC005 | VX048715.D | 12/04/2025 | 09:16 |
| VSTDICC020 | VSTDICC020 | VX048716.D | 12/04/2025 | 09:36 |
| VSTDICCC050 | VSTDICCC050 | VX048717.D | 12/04/2025 | 09:57 |
| VSTDICC100 | VSTDICC100 | VX048718.D | 12/04/2025 | 10:17 |
| VSTDICC150 | VSTDICC150 | VX048719.D | 12/04/2025 | 10:38 |

Raw Data: **VX048722.D**

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

Lab Name: Alliance | Contract: JACO05

Lab Code: ACE | SDG NO.: Q3757

Lab File ID: VX048722.D | BFB Injection Date: 12/05/2025

Instrument ID: MSVOA_X | BFB Injection Time: 08:14

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 16.3 |
| 75 | 30.0 - 60.0% of mass 95 | 48.5 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 |
| 173 | Less than 2.0% of mass 174 | 0.9 ( 1.2 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 80.6 |
| 175 | 5.0 - 9.0% of mass 174 | 5.9 ( 7.3 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 77.7 ( 96.4 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.4 ( 7 ) 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 | VX048723.D | 12/05/2025 | 08:45 |
| VX1205WBL01 | VX1205WBL01 | VX048725.D | 12/05/2025 | 10:34 |
| VX1205WBS01 | VX1205WBS01 | VX048726.D | 12/05/2025 | 11:31 |
| MW-14A-17.5-120325 | Q3757-01 | VX048731.D | 12/05/2025 | 13:32 |
| BR-03D-490-120325 | Q3757-03 | VX048732.D | 12/05/2025 | 13:53 |
| MW-14B-46-120325 | Q3757-05 | VX048733.D | 12/05/2025 | 14:13 |
| RMW-05B-90.5-120325 | Q3757-07 | VX048734.D | 12/05/2025 | 14:33 |
| OW-05B-72-120325 | Q3757-09 | VX048735.D | 12/05/2025 | 14:54 |

Raw Data: **VX048741.D**

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

Lab Name: Alliance
Contract: JACO05
Lab Code: ACE
SDG NO.: Q3757
Lab File ID: VX048741.D
BFB Injection Date: 12/08/2025
Instrument ID: MSVOA_X
BFB Injection Time: 08:17
GC Column: DB-624UI ID: 0.18 (mm)
Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19.5 |
| 75 | 30.0 - 60.0% of mass 95 | 51.5 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.2 |
| 173 | Less than 2.0% of mass 174 | 1 ( 1.2 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 80.1 |
| 175 | 5.0 - 9.0% of mass 174 | 6 ( 7.5 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 76.4 ( 95.3 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.3 ( 7 ) 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 | VX048742.D | 12/08/2025 | 09:20 |
| VX1208WBL01 | VX1208WBL01 | VX048744.D | 12/08/2025 | 11:15 |
| VX1208WBS01 | VX1208WBS01 | VX048745.D | 12/08/2025 | 11:44 |
| MW-14B-46-120325RE | Q3757-05RE | VX048747.D | 12/08/2025 | 12:33 |
| OW-05B-72-120325RE | Q3757-09RE | VX048748.D | 12/08/2025 | 12:53 |

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG NO.: Q3757

Lab File ID: VN088437.D Date Analyzed: 12/04/2025

Instrument ID: MSVOA_N Time Analyzed: 11:44

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

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 259230 | 8.21 | 454552 | 9.08 | 431157 | 11.84 |
| UPPER LIMIT | 518460 | 8.706 | 909104 | 9.577 | 862314 | 12.341 |
| LOWER LIMIT | 129615 | 7.706 | 227276 | 8.577 | 215579 | 11.341 |
| EPA SAMPLE NO. | | | | | | |
| EB01-120325 | 201753 | 8.21 | 451562 | 9.08 | 439722 | 11.84 |
| TB01-120325 | 198228 | 8.21 | 454339 | 9.08 | 441078 | 11.84 |
| VN1204WBL01 | 236600 | 8.21 | 556948 | 9.08 | 555675 | 11.84 |
| VN1204WBS01 | 303745 | 8.21 | 559564 | 9.08 | 491842 | 11.84 |
| VN1204WBSD01 | 290727 | 8.21 | 529277 | 9.08 | 469866 | 11.84 |

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG NO.: Q3757

Lab File ID: VN088437.D Date Analyzed: 12/04/2025

Instrument ID: MSVOA_N Time Analyzed: 11:44

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 210277 | 13.765 | | | | |
| UPPER LIMIT | 420554 | 14.265 | | | | |
| LOWER LIMIT | 105139 | 13.265 | | | | |
| EPA SAMPLE NO. | | | | | | |
| EB01-120325 | 210586 | 13.77 | | | | |
| TB01-120325 | 211349 | 13.77 | | | | |
| VN1204WBL01 | 258091 | 13.77 | | | | |
| VN1204WBS01 | 237731 | 13.77 | | | | |
| VN1204WBSD01 | 229597 | 13.77 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG NO.: Q3757

Lab File ID: VX048723.D Date Analyzed: 12/05/2025

Instrument ID: MSVOA_X Time Analyzed: 08:45

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

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 218600 | 5.53 | 333007 | 6.74 | 285113 | 10.04 |
| UPPER LIMIT | 437200 | 6.025 | 666014 | 7.239 | 570226 | 10.537 |
| LOWER LIMIT | 109300 | 5.025 | 166504 | 6.239 | 142557 | 9.537 |
| EPA SAMPLE NO. | | | | | | |
| MW-14A-17.5-120325 | 176619 | 5.53 | 302604 | 6.74 | 274042 | 10.04 |
| BR-03D-490-120325 | 163180 | 5.54 | 280929 | 6.75 | 230844 | 10.04 |
| MW-14B-46-120325 | 161591 | 5.54 | 286549 | 6.75 | 220300 | 10.04 |
| RMW-05B-90.5-120325 | 132392 | 5.54 | 222932 | 6.75 | 207009 | 10.04 |
| OW-05B-72-120325 | 129477 | 5.54 | 275147 | 6.75 | 208806 | 10.04 |
| VX1205WBL01 | 193187 | 5.53 | 291151 | 6.74 | 294164 | 10.04 |
| VX1205WBS01 | 179194 | 5.53 | 293931 | 6.74 | 269397 | 10.04 |

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG NO.: Q3757

Lab File ID: VX048723.D Date Analyzed: 12/05/2025

Instrument ID: MSVOA_X Time Analyzed: 08:45

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 141895 | 12 | | | | |
| UPPER LIMIT | 283790 | 12.5 | | | | |
| LOWER LIMIT | 70947.5 | 11.5 | | | | |
| EPA SAMPLE NO. | | | | | | |
| MW-14A-17.5-120325 | 141373 | 12.01 | | | | |
| BR-03D-490-120325 | 110489 | 12.01 | | | | |
| MW-14B-46-120325 | 131055 | 12.01 | | | | |
| RMW-05B-90.5-120325 | 102583 | 12.01 | | | | |
| OW-05B-72-120325 | 103213 | 12.01 | | | | |
| VX1205WBL01 | 130501 | 12.01 | | | | |
| VX1205WBS01 | 132992 | 12.01 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG NO.: Q3757

Lab File ID: VX048742.D Date Analyzed: 12/08/2025

Instrument ID: MSVOA_X Time Analyzed: 09:20

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

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 174813 | 5.53 | 271670 | 6.74 | 259893 | 10.04 |
| UPPER LIMIT | 349626 | 6.031 | 543340 | 7.239 | 519786 | 10.537 |
| LOWER LIMIT | 87406.5 | 5.031 | 135835 | 6.239 | 129947 | 9.537 |
| EPA SAMPLE NO. | | | | | | |
| MW-14B-46-120325RE | 124903 | 5.54 | 299763 | 6.75 | 268328 | 10.04 |
| OW-05B-72-120325RE | 169111 | 5.54 | 409831 | 6.74 | 413547 | 10.04 |
| VX1208WBL01 | 173343 | 5.53 | 340953 | 6.74 | 370451 | 10.04 |
| VX1208WBS01 | 178446 | 5.53 | 298973 | 6.74 | 311271 | 10.04 |

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG NO.: Q3757

Lab File ID: VX048742.D Date Analyzed: 12/08/2025

Instrument ID: MSVOA_X Time Analyzed: 09:20

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 132353 | 12 | | | | |
| UPPER LIMIT | 264706 | 12.5 | | | | |
| LOWER LIMIT | 66176.5 | 11.5 | | | | |
| EPA SAMPLE NO. | | | | | | |
| MW-14B-46-120325RE | 139875 | 12.01 | | | | |
| OW-05B-72-120325RE | 197728 | 12.01 | | | | |
| VX1208WBL01 | 179749 | 12.01 | | | | |
| VX1208WBS01 | 157846 | 12.00 | | | | |

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: **VX048731.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 12/03/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 12/03/25 |
| Client Sample ID: | MW-14A-17.5-120325 | SDG No.: | Q3757 |
| Lab Sample ID: | Q3757-01 | Matrix: | Water |
| Analytical Method: | 8260D Level: LOW | % Solid: | 0 |
| Sample Wt/Vol: | 5 mL Final Vol: 5000 uL | Test: | VOCMS Group3 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 1 | 0.26 | 1.00 | ug/L | 12/05/25 13:32 | VX120525 |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/05/25 13:32 | VX120525 |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/05/25 13:32 | VX120525 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 1 | 0.19 | 1.00 | ug/L | 12/05/25 13:32 | VX120525 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1 | 0.20 | 1.00 | ug/L | 12/05/25 13:32 | VX120525 |
| 71-43-2 | Benzene | 0.15 | U | 1 | 0.15 | 1.00 | ug/L | 12/05/25 13:32 | VX120525 |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 1 | 0.22 | 1.00 | ug/L | 12/05/25 13:32 | VX120525 |
| 79-01-6 | Trichloroethene | 0.090 | U | 1 | 0.090 | 1.00 | ug/L | 12/05/25 13:32 | VX120525 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 1 | 0.21 | 1.00 | ug/L | 12/05/25 13:32 | VX120525 |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/05/25 13:32 | VX120525 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.4 | | | 70 (74) - 130 (125) | 105% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 49.5 | | | 70 (75) - 130 (124) | 99% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 48.7 | | | 70 (86) - 130 (113) | 97% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 50.0 | | | 70 (77) - 130 (121) | 100% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 177000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 303000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 274000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 141000 | | | | | | | |

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_X\Data\VX120525\
Data File : VX048731.D
Acq On : 05 Dec 2025 13:32
Operator : JC/MD
Sample : Q3757-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14A-17.5-120325

Quant Time: Dec 05 22:03:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

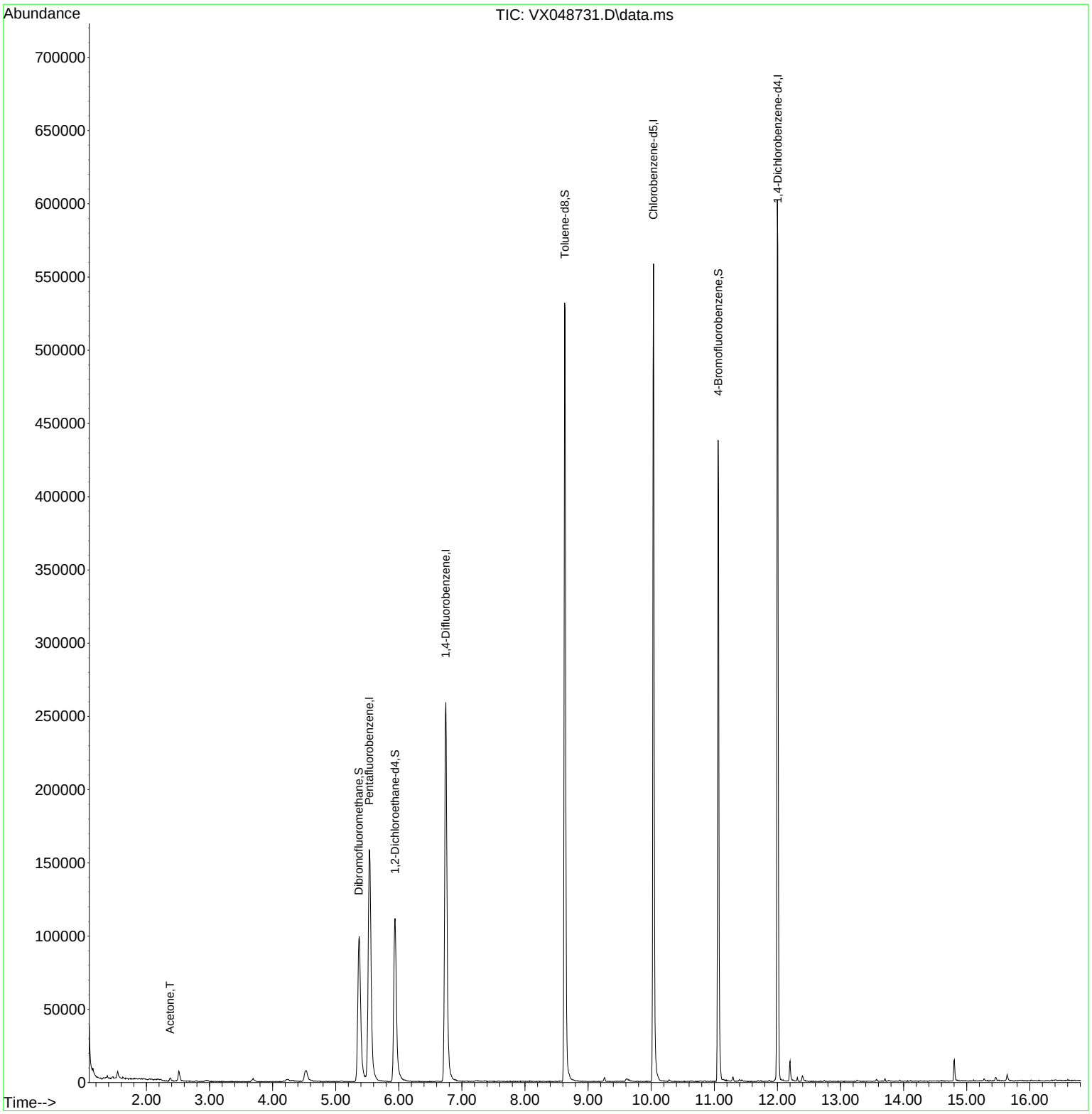
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.531 | 168 | 176619 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.744 | 114 | 302604 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 274042 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152 | 141373 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.940 | 65 | 124177 | 52.383 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = 104.760% | | | |
| 35) Dibromofluoromethane | 5.367 | 113 | 103142 | 49.503 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 99.000% | | | |
| 50) Toluene-d8 | 8.628 | 98 | 355343 | 48.654 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = 97.300% | | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 125871 | 49.979 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = 99.960% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.373 | 43 | 3056 | 3.368 | ug/l | 95 |

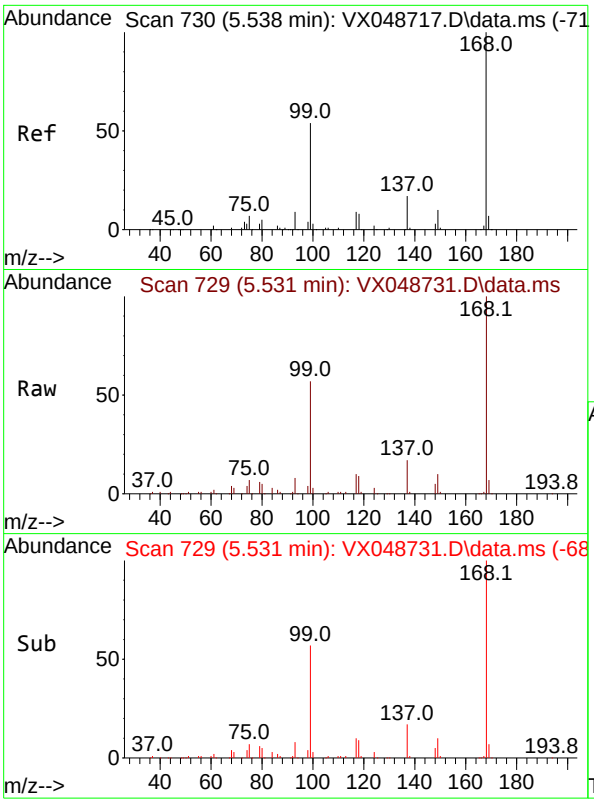
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048731.D
Acq On : 05 Dec 2025 13:32
Operator : JC/MD
Sample : Q3757-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14A-17.5-120325

Quant Time: Dec 05 22:03:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration



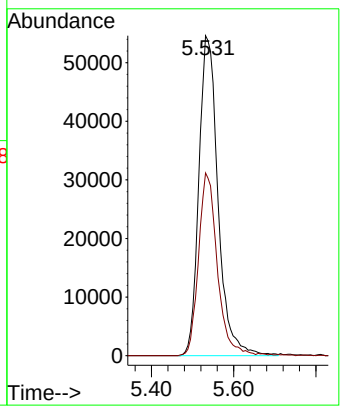


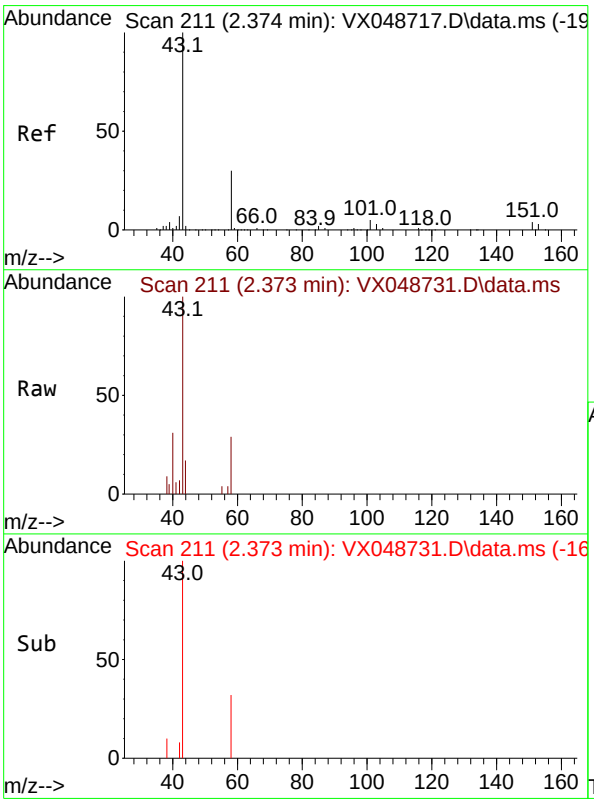

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX048731.D
Acq: 05 Dec 2025 13:32

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14A-17.5-120325

Tgt Ion:168 Resp: 176619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.1 | 44.2 | 66.4 |

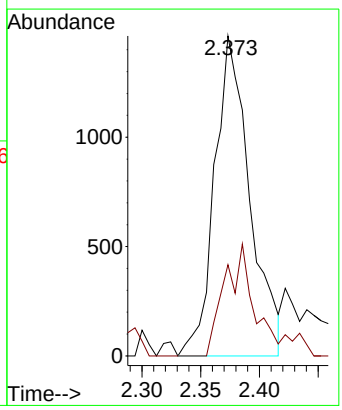


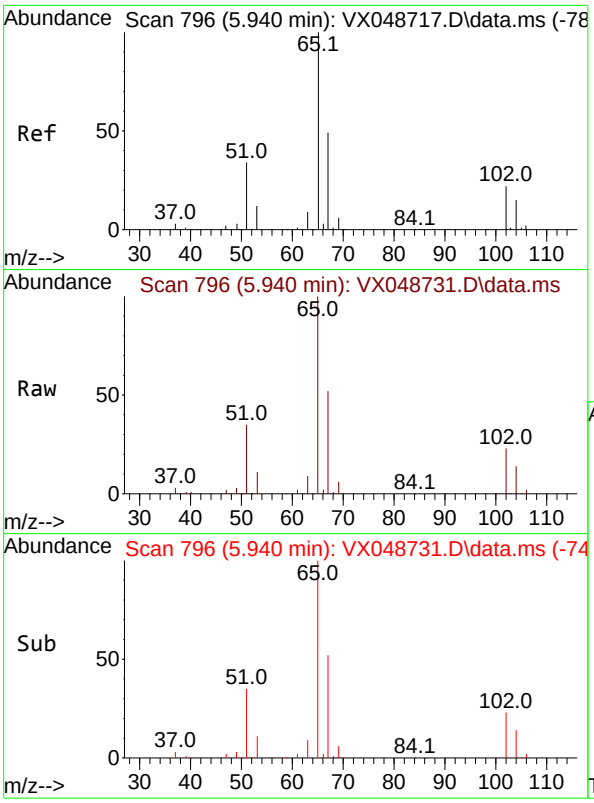




#16
Acetone
Concen: 3.368 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048731.D
Acq: 05 Dec 2025 13:32

Tgt Ion: 43 Resp: 3056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.5 | 25.0 | 37.4 |



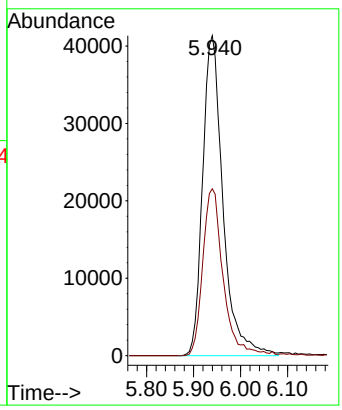


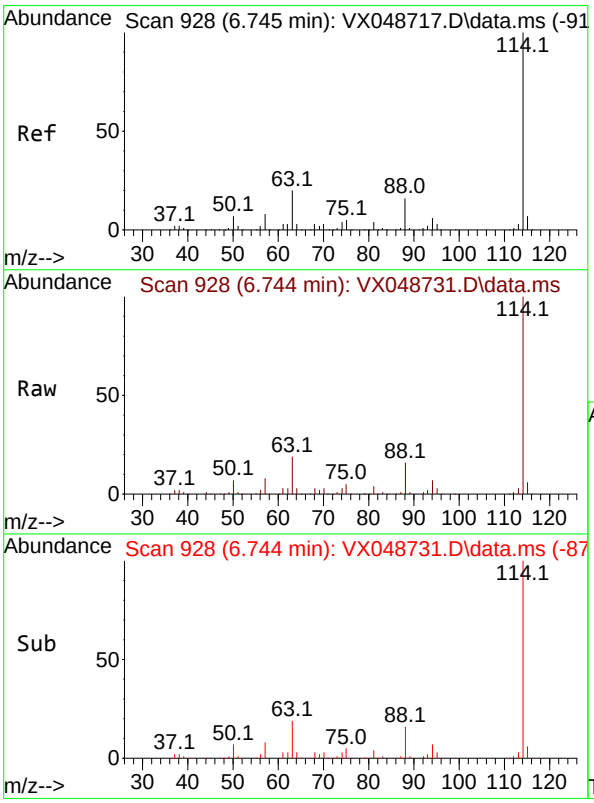

#33
1,2-Dichloroethane-d4
Concen: 52.383 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048731.D
Acq: 05 Dec 2025 13:32

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14A-17.5-120325

Tgt Ion: 65 Resp: 124177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.1 | 0.0 | 107.4 |

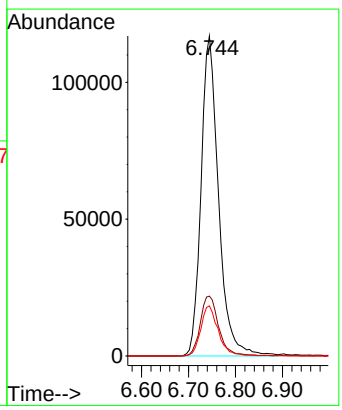


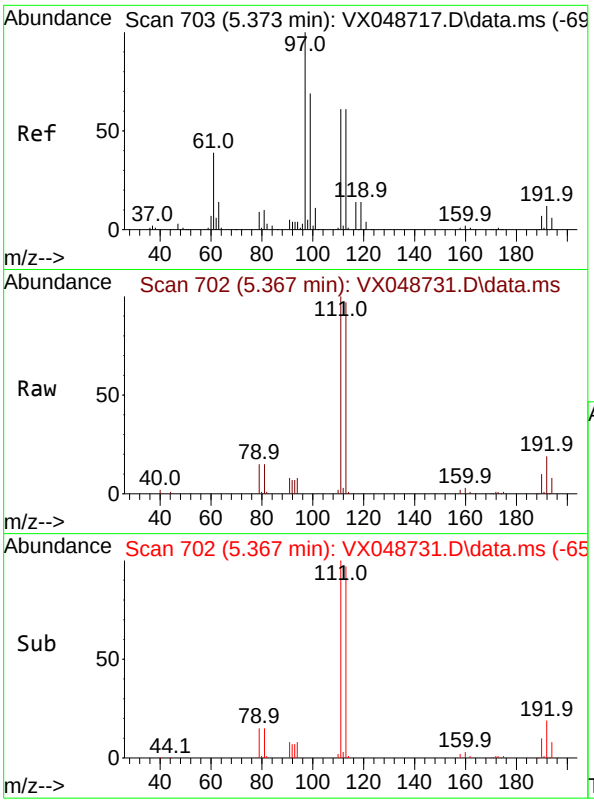




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.744 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048731.D
Acq: 05 Dec 2025 13:32

Tgt Ion:114 Resp: 302604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.7 | 0.0 | 39.0 |
| 88 | 15.7 | 0.0 | 31.8 |



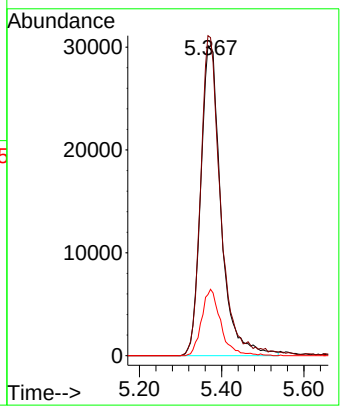


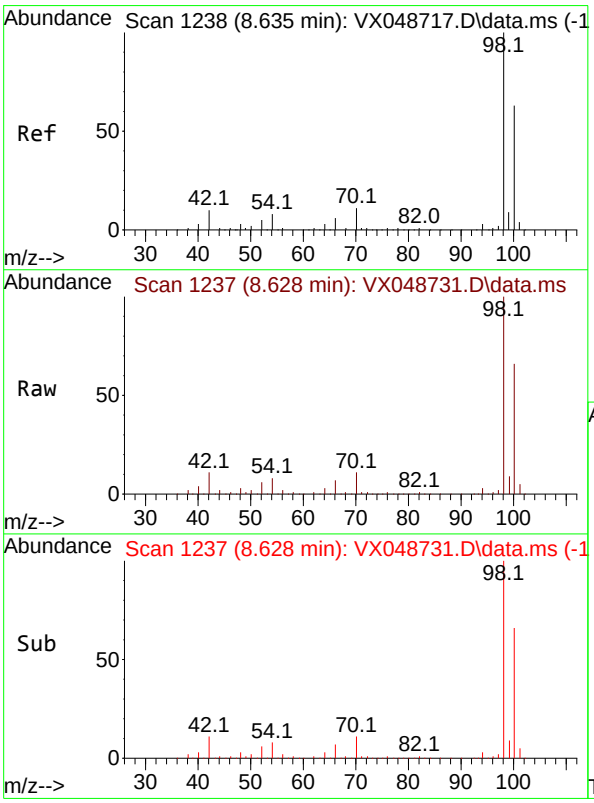

#35
Dibromofluoromethane
Concen: 49.503 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048731.D
Acq: 05 Dec 2025 13:32

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14A-17.5-120325

Tgt Ion:113 Resp: 103142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.1 | 79.5 | 119.3 |
| 192 | 20.2 | 16.1 | 24.1 |

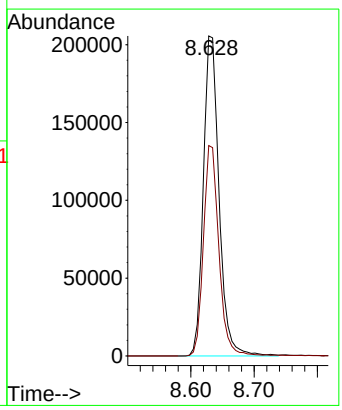


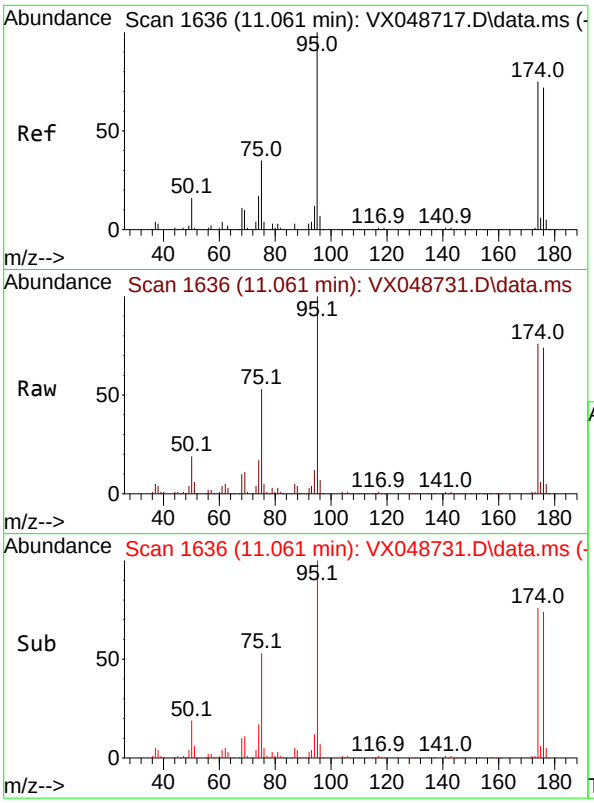




#50
Toluene-d8
Concen: 48.654 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX048731.D
Acq: 05 Dec 2025 13:32

Tgt Ion: 98 Resp: 355343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.2 | 53.4 | 80.0 |



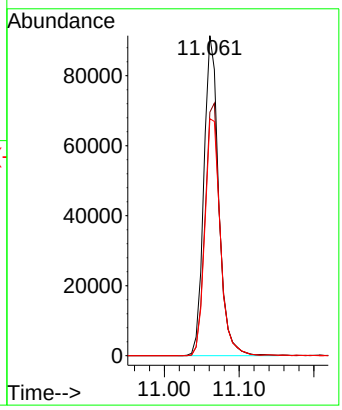


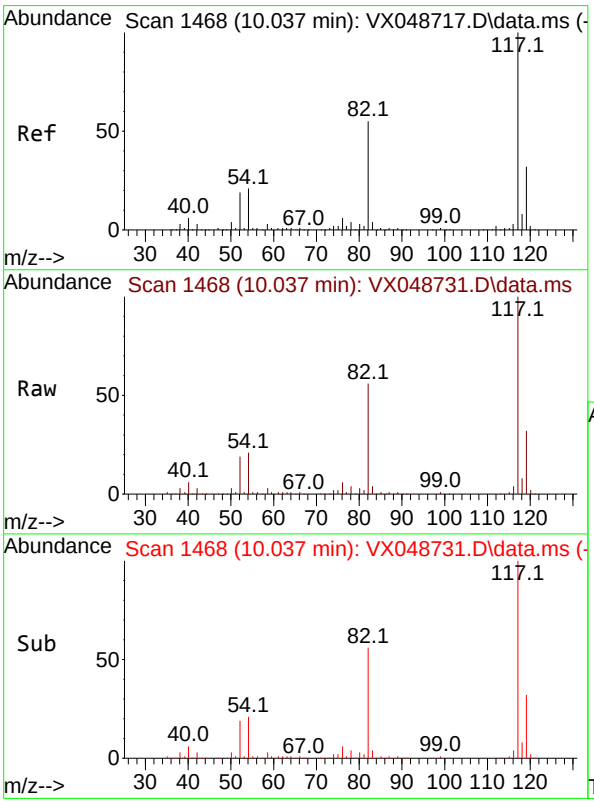

#62
4-Bromofluorobenzene
Concen: 49.979 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048731.D
Acq: 05 Dec 2025 13:32

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14A-17.5-120325

Tgt Ion: 95 Resp: 125871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.3 | 0.0 | 157.8 |
| 176 | 77.3 | 0.0 | 154.0 |

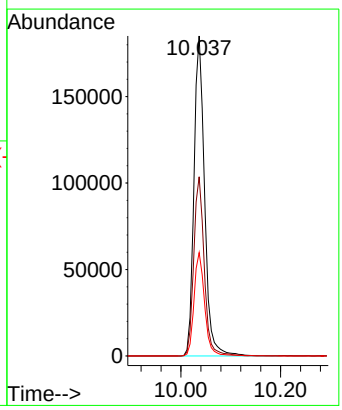


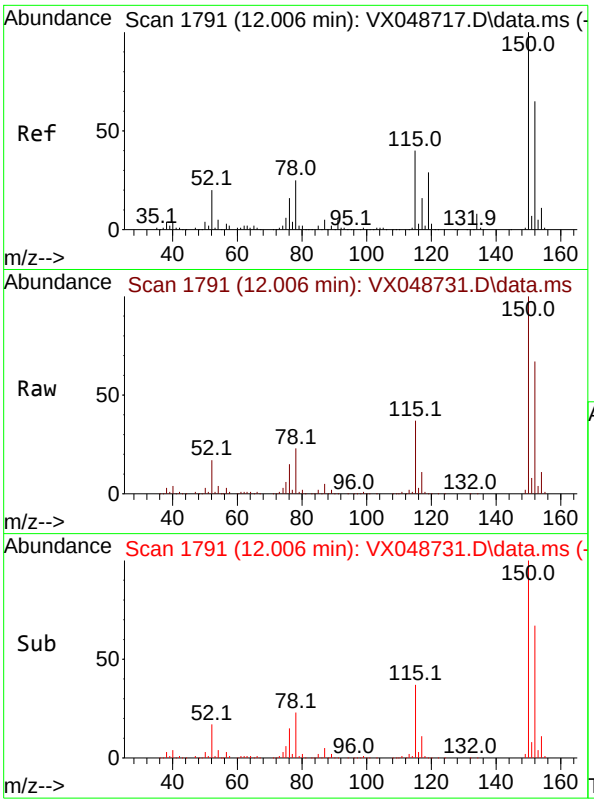




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048731.D
Acq: 05 Dec 2025 13:32

Tgt Ion:117 Resp: 274042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.0 | 44.1 | 66.1 |
| 119 | 32.3 | 25.2 | 37.8 |



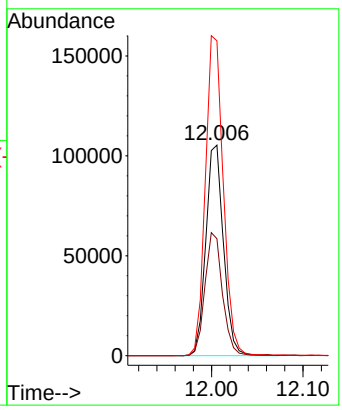



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048731.D
Acq: 05 Dec 2025 13:32

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14A-17.5-120325

Tgt Ion:152 Resp: 141373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.1 | 42.1 | 126.4 |
| 150 | 154.1 | 0.0 | 347.8 |



Raw Data: **VX048732.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 12/03/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 12/03/25 |
| Client Sample ID: | BR-03D-490-120325 | SDG No.: | Q3757 |
| Lab Sample ID: | Q3757-03 | Matrix: | Water |
| Analytical Method: | 8260D Level: LOW | % Solid: | 0 |
| Sample Wt/Vol: | 5 mL Final Vol: 5000 uL | Test: | VOCMS Group3 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-01-4 | Vinyl Chloride | 3.90 | | 1 | 0.26 | 1.00 | ug/L | 12/05/25 13:53 | VX120525 |
| 75-35-4 | 1,1-Dichloroethene | 48.1 | | 1 | 0.23 | 1.00 | ug/L | 12/05/25 13:53 | VX120525 |
| 75-34-3 | 1,1-Dichloroethane | 6.40 | | 1 | 0.23 | 1.00 | ug/L | 12/05/25 13:53 | VX120525 |
| 156-59-2 | cis-1,2-Dichloroethene | 34.9 | | 1 | 0.19 | 1.00 | ug/L | 12/05/25 13:53 | VX120525 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1 | 0.20 | 1.00 | ug/L | 12/05/25 13:53 | VX120525 |
| 71-43-2 | Benzene | 0.23 | J | 1 | 0.15 | 1.00 | ug/L | 12/05/25 13:53 | VX120525 |
| 107-06-2 | 1,2-Dichloroethane | 3.70 | | 1 | 0.22 | 1.00 | ug/L | 12/05/25 13:53 | VX120525 |
| 79-01-6 | Trichloroethene | 35.1 | | 1 | 0.090 | 1.00 | ug/L | 12/05/25 13:53 | VX120525 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 1 | 0.21 | 1.00 | ug/L | 12/05/25 13:53 | VX120525 |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/05/25 13:53 | VX120525 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.1 | | | 70 (74) - 130 (125) | 110% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 51.8 | | | 70 (75) - 130 (124) | 104% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 42.9 | | | 70 (86) - 130 (113) | 86% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 45.5 | | | 70 (77) - 130 (121) | 91% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 163000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 281000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 231000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 110000 | | | | | | | |

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_X\Data\VX120525\
Data File : VX048732.D
Acq On : 05 Dec 2025 13:53
Operator : JC/MD
Sample : Q3757-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BR-03D-490-120325

Quant Time: Dec 05 22:04:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

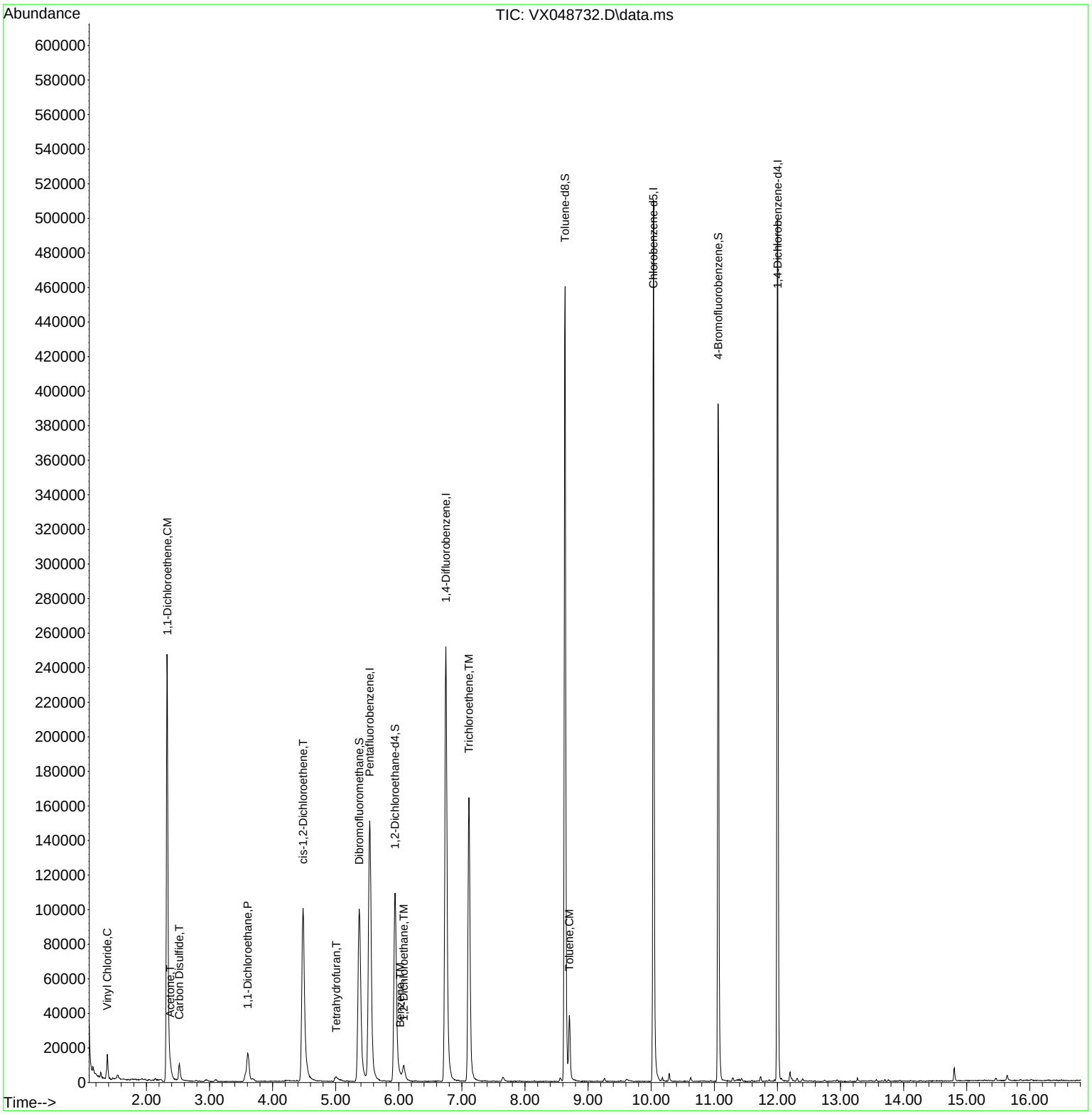
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.538 | 168 | 163180 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.745 | 114 | 280929 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 230844 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152 | 110489 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.940 | 65 | 120640 | 55.082 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = 110.160% | | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 100214 | 51.809 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 103.620% | | | |
| 50) Toluene-d8 | 8.635 | 98 | 290658 | 42.868 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = 85.740%# | | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 106460 | 45.533 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = 91.060% | | | |
| Target Compounds | | | | | | Qvalue |
| 4) Vinyl Chloride | 1.380 | 62 | 8761 | 3.921 | ug/l | 95 |
| 12) 1,1-Dichloroethene | 2.331 | 96 | 91225 | 48.143 | ug/l | 98 |
| 16) Acetone | 2.380 | 43 | 2388 | 2.848 | ug/l | 89 |
| 17) Carbon Disulfide | 2.520 | 76 | 14803 | 2.690 | ug/l # | 93 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 21327 | 6.432 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 76248 | 34.939 | ug/l | 89 |
| 29) Tetrahydrofuran | 5.007 | 42 | 2915 | 3.085 | ug/l # | 78 |
| 40) Benzene | 6.019 | 78 | 1766 | 0.225 | ug/l | 98 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 10373 | 3.732 | ug/l | 94 |
| 44) Trichloroethene | 7.110 | 130 | 72016 | 35.143 | ug/l | 100 |
| 52) Toluene | 8.702 | 92 | 14719 | 3.108 | ug/l | 100 |

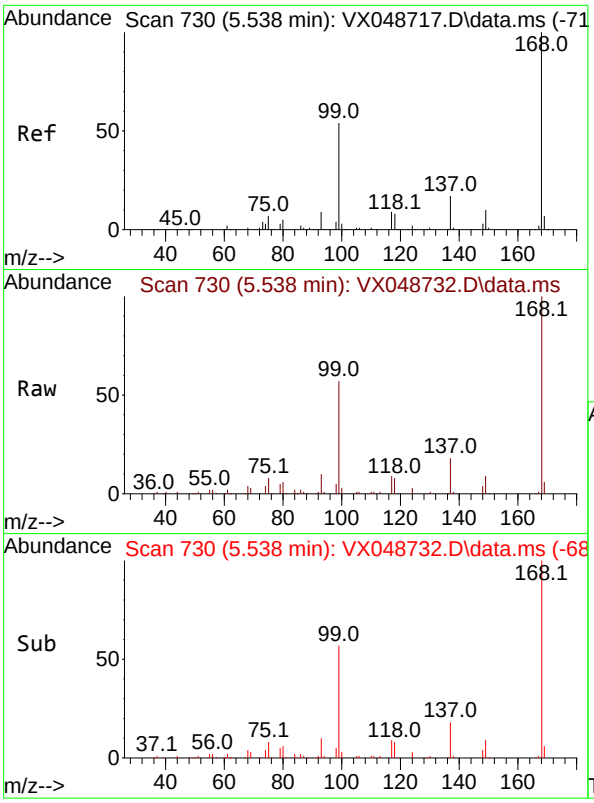
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048732.D
Acq On : 05 Dec 2025 13:53
Operator : JC/MD
Sample : Q3757-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BR-03D-490-120325

Quant Time: Dec 05 22:04:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration



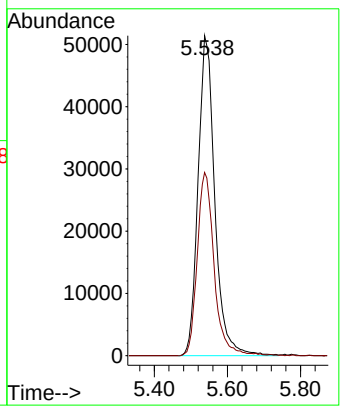


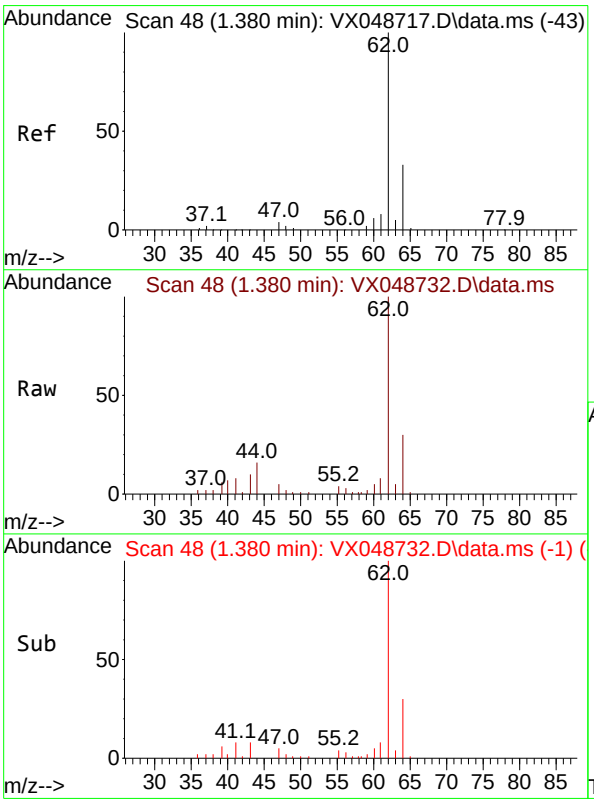

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
BR-03D-490-120325

Tgt Ion:168 Resp: 163180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.3 | 44.2 | 66.4 |

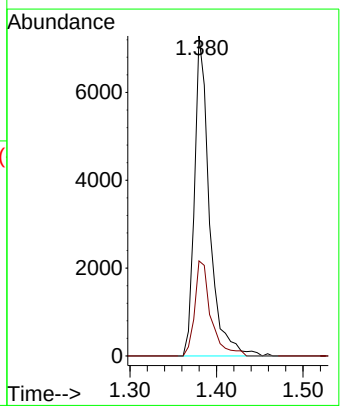


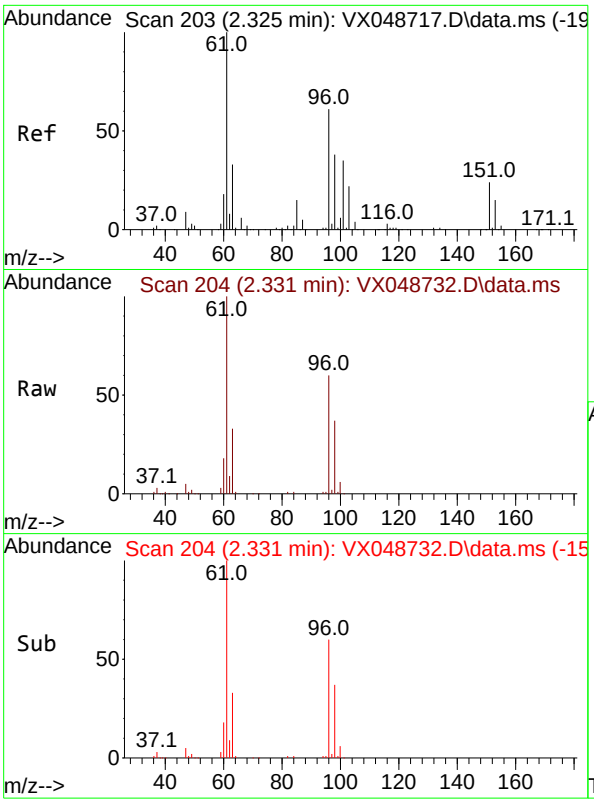




#4
Vinyl Chloride
Concen: 3.921 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

Tgt Ion: 62 Resp: 8761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.7 | 26.0 | 39.0 |



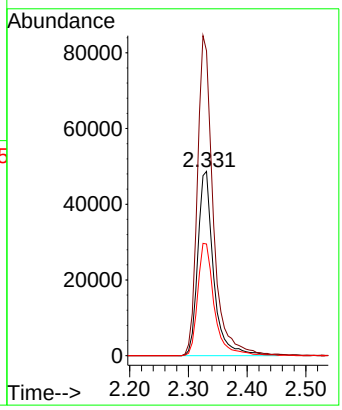


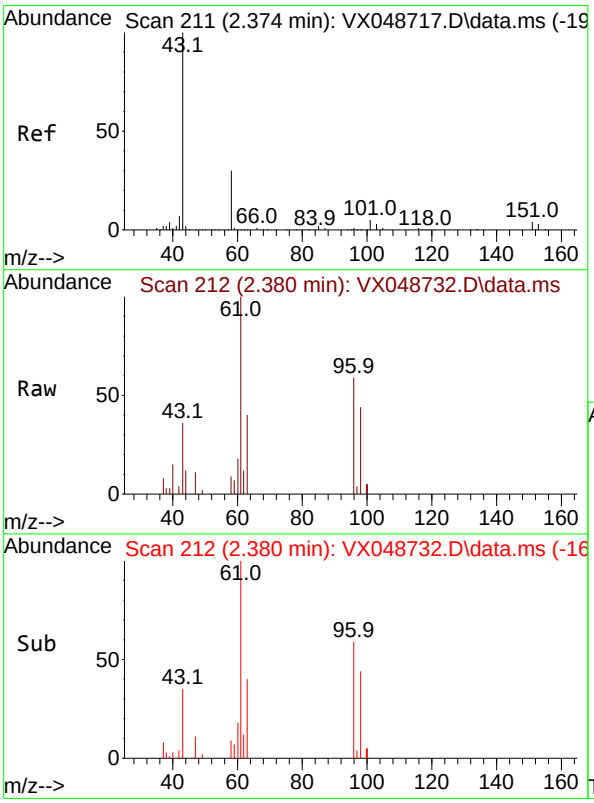

#12
1,1-Dichloroethene
Concen: 48.143 ug/l
RT: 2.331 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
BR-03D-490-120325

Tgt Ion: 96 Resp: 91225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 165.4 | 130.7 | 196.1 |
| 98 | 60.6 | 49.8 | 74.8 |

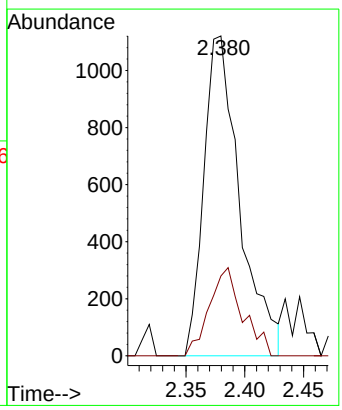


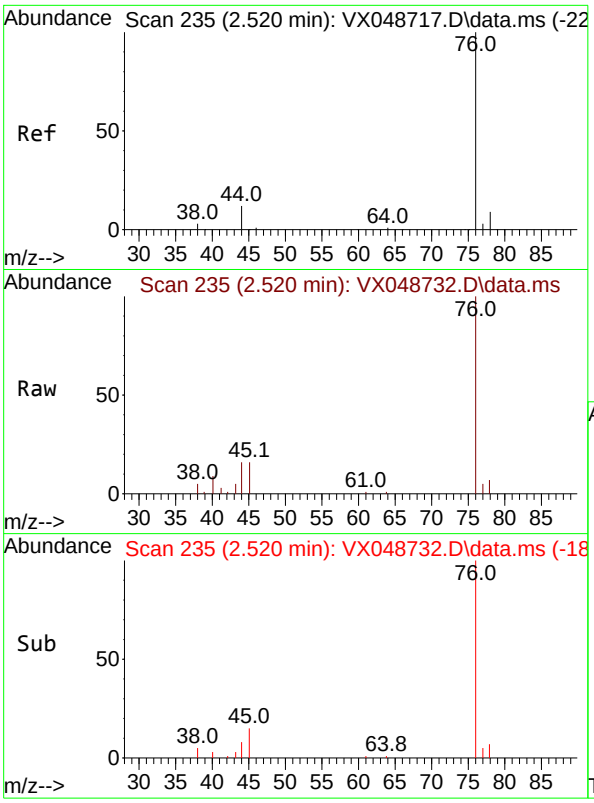




#16
Acetone
Concen: 2.848 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

Tgt Ion: 43 Resp: 2388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 25.0 | 25.0 | 37.4 |



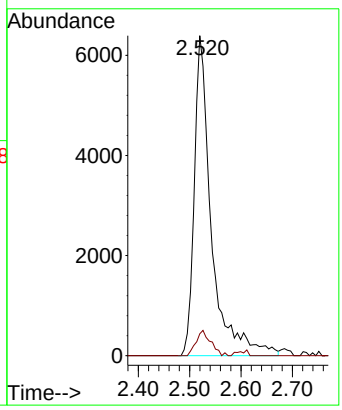


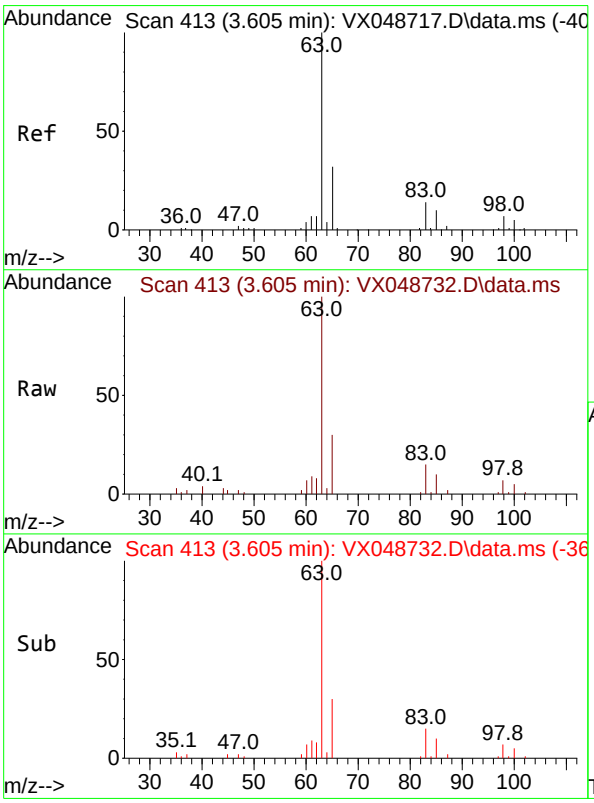

#17
Carbon Disulfide
Concen: 2.690 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
BR-03D-490-120325

Tgt Ion: 76 Resp: 14803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 6.8 | 7.4 | 11.2# |

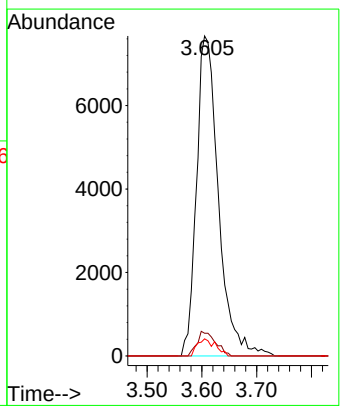


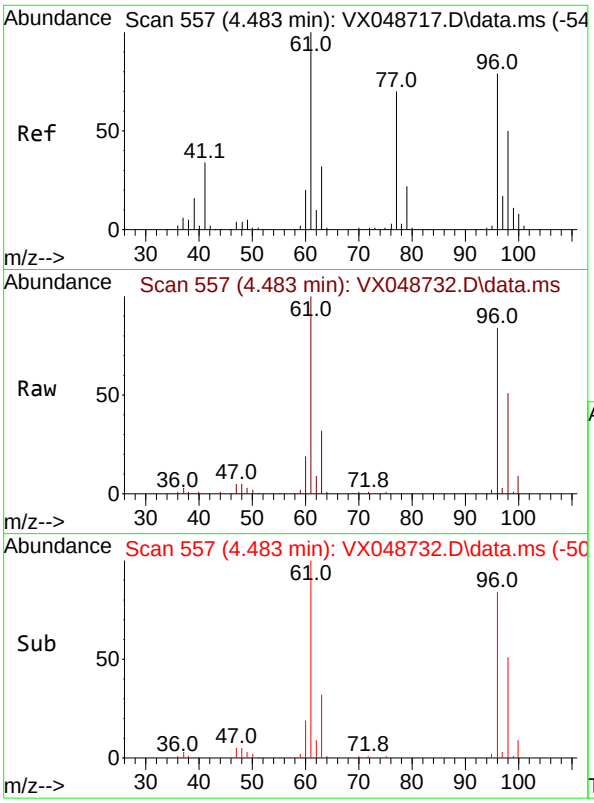




#24
1,1-Dichloroethane
Concen: 6.432 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

Tgt Ion: 63 Resp: 21327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.1 | 3.5 | 10.6 |
| 100 | 5.4 | 2.5 | 7.4 |



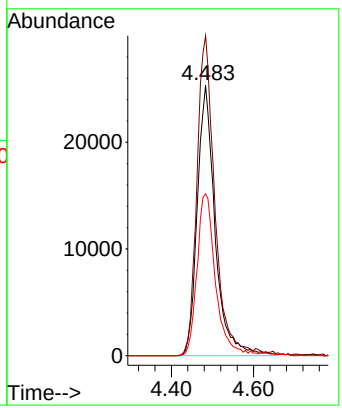


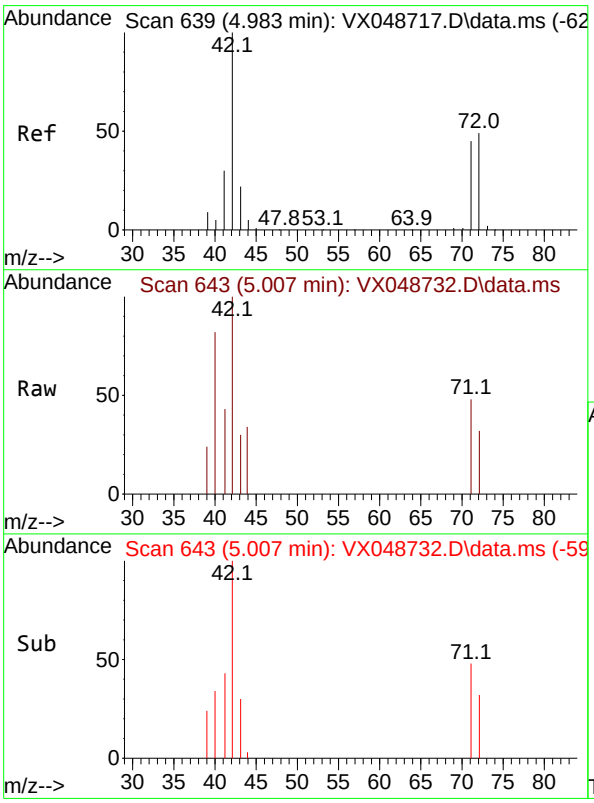

#27
cis-1,2-Dichloroethene
Concen: 34.939 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
BR-03D-490-120325

Tgt Ion: 96 Resp: 76248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 118.2 | 0.0 | 271.0 |
| 98 | 62.0 | 0.0 | 130.2 |

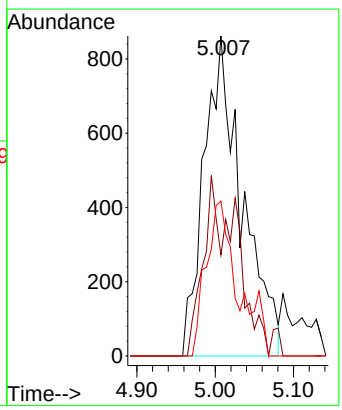


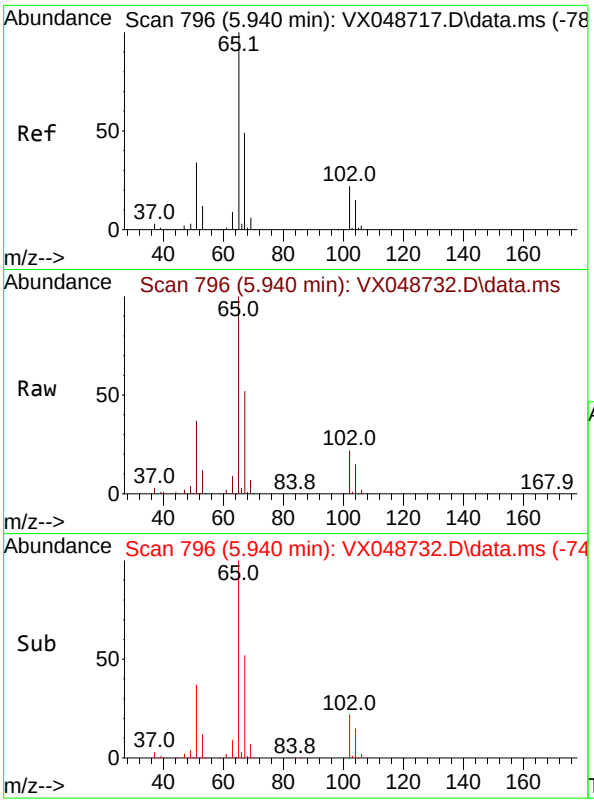




#29
Tetrahydrofuran
Concen: 3.085 ug/l
RT: 5.007 min Scan# 643
Delta R.T. 0.024 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

Tgt Ion: 42 Resp: 2915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 24.0 | 39.4 | 59.2# |
| 71 | 40.5 | 35.8 | 53.6 |



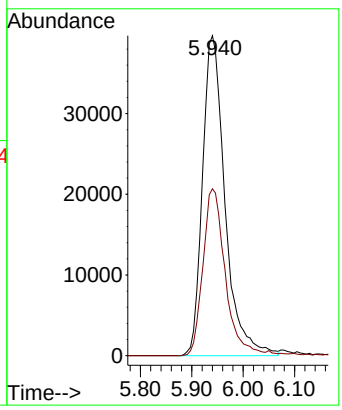


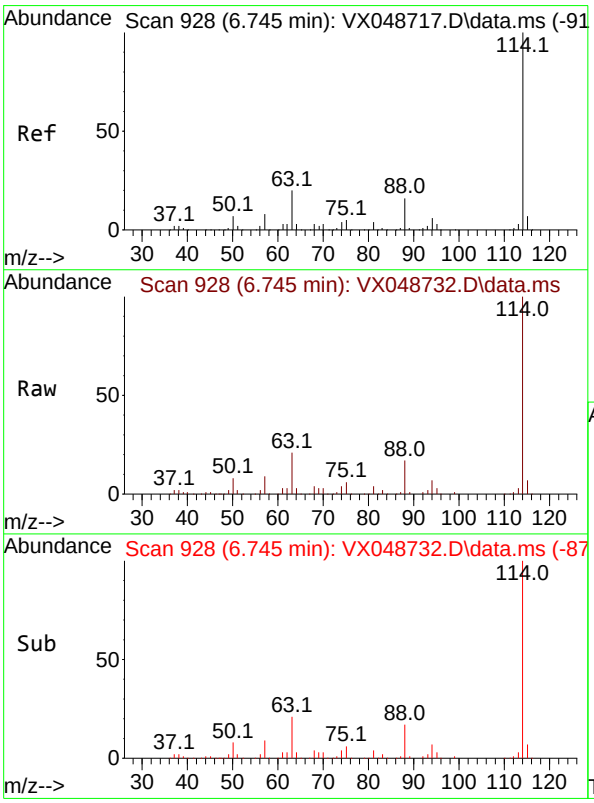

#33
1,2-Dichloroethane-d4
Concen: 55.082 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
BR-03D-490-120325

Tgt Ion: 65 Resp: 120640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.6 | 0.0 | 107.4 |

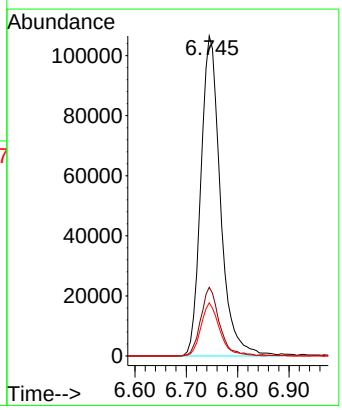


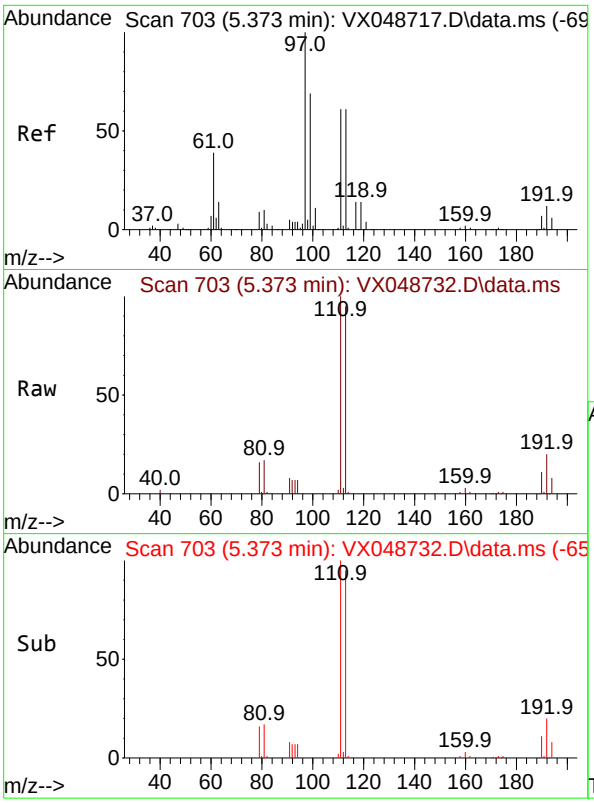




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

Tgt Ion:114 Resp: 280929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.4 | 0.0 | 39.0 |
| 88 | 16.6 | 0.0 | 31.8 |



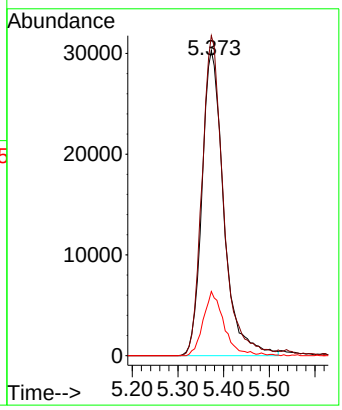


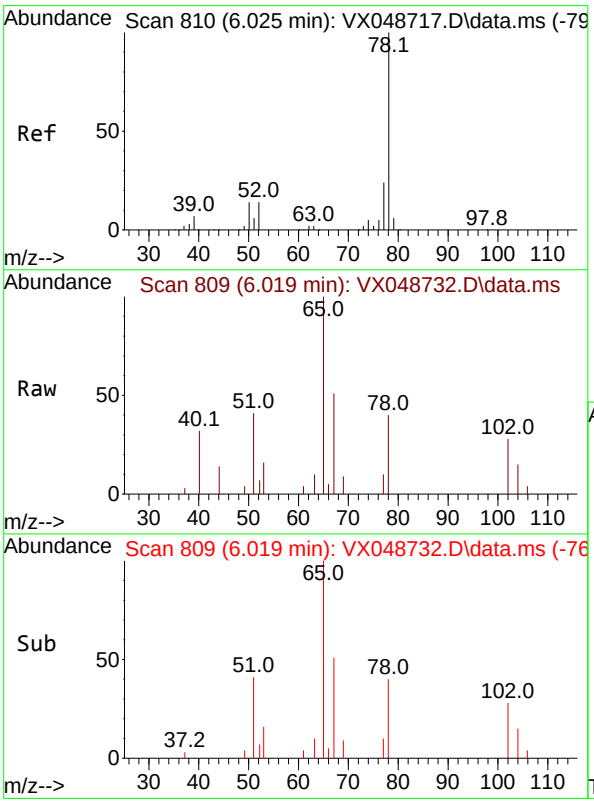

#35
Dibromofluoromethane
Concen: 51.809 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
BR-03D-490-120325

Tgt Ion:113 Resp: 100214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.9 | 79.5 | 119.3 |
| 192 | 19.9 | 16.1 | 24.1 |

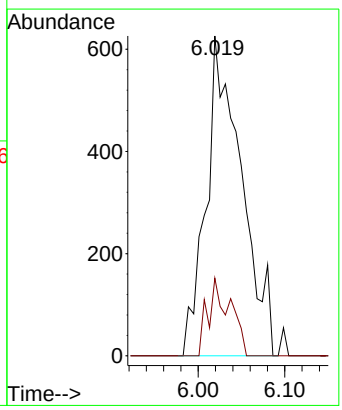


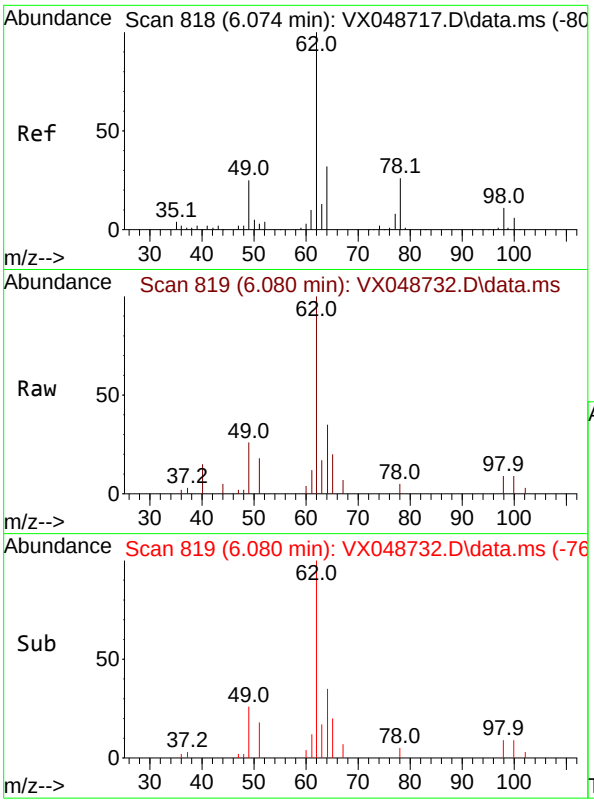




#40
Benzene
Concen: 0.225 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

Tgt Ion: 78 Resp: 1766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.3 | 18.8 | 28.2 |



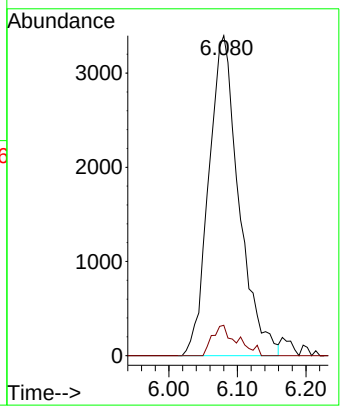


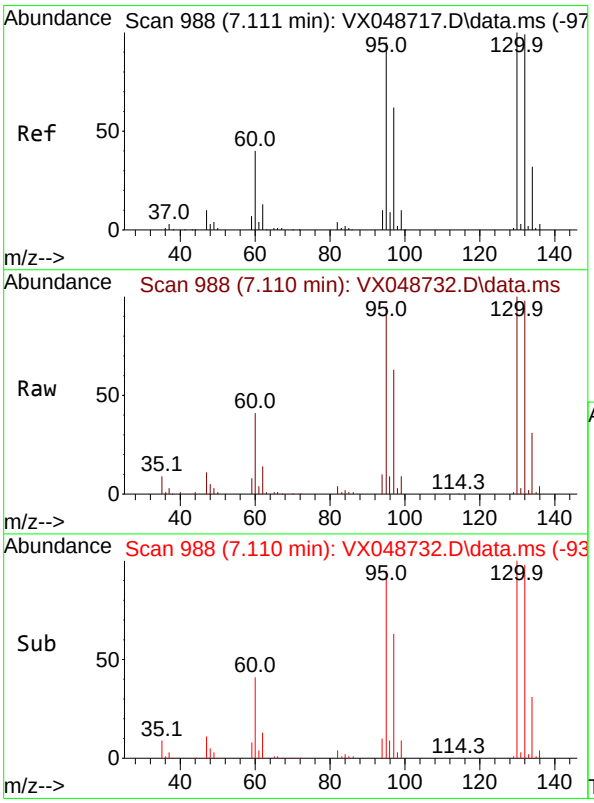

#42
1,2-Dichloroethane
Concen: 3.732 ug/l
RT: 6.080 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
BR-03D-490-120325

Tgt Ion: 62 Resp: 10373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.8 | 0.0 | 20.2 |

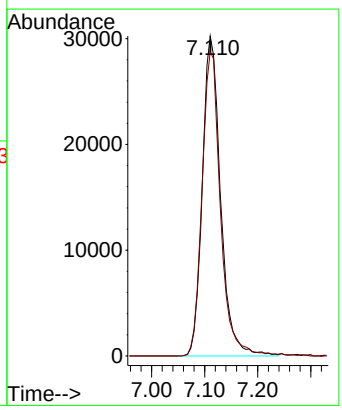


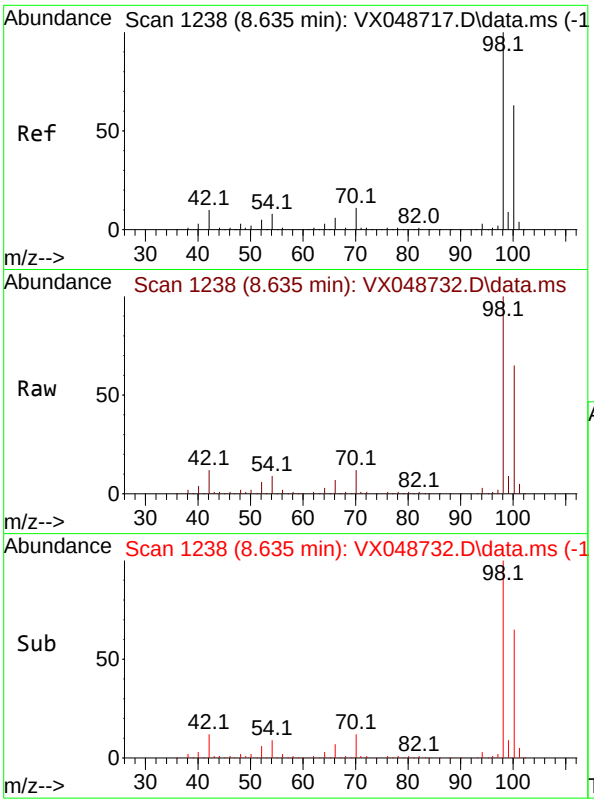




#44
Trichloroethene
Concen: 35.143 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

Tgt Ion:130 Resp: 72016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.0 | 0.0 | 189.6 |



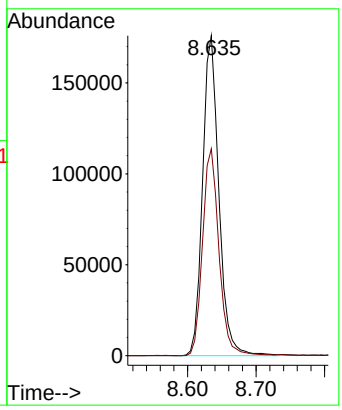


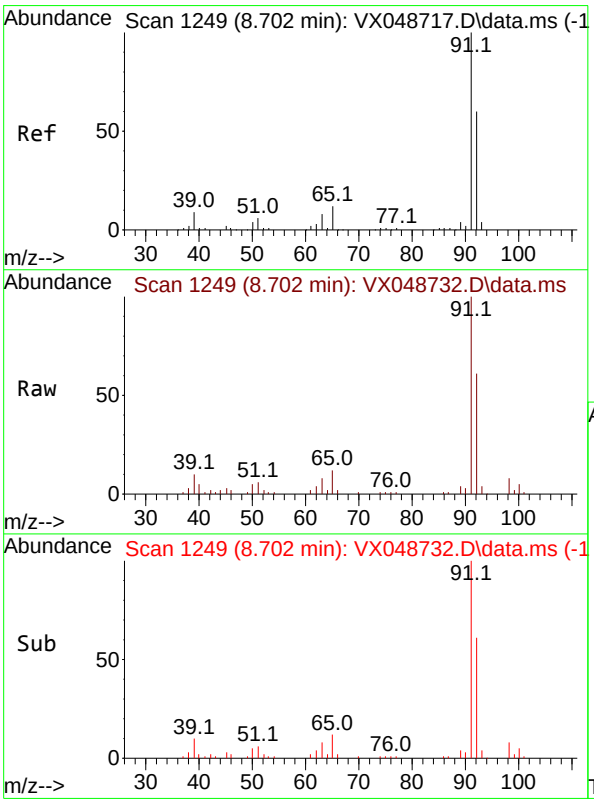

#50
Toluene-d8
Concen: 42.868 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
BR-03D-490-120325

Tgt Ion: 98 Resp: 290658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.3 | 53.4 | 80.0 |

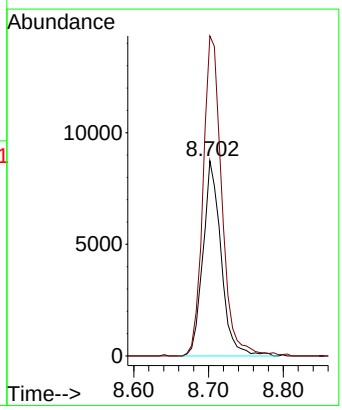


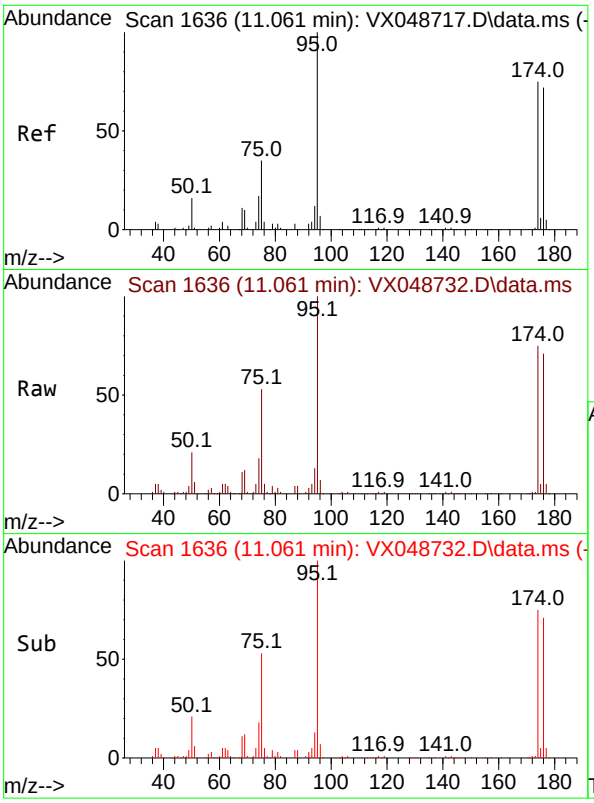




#52
Toluene
Concen: 3.108 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

Tgt Ion: 92 Resp: 14719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.9 | 136.3 | 204.5 |



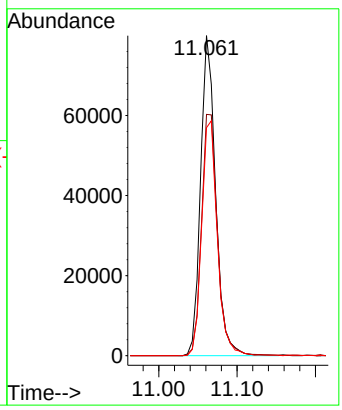


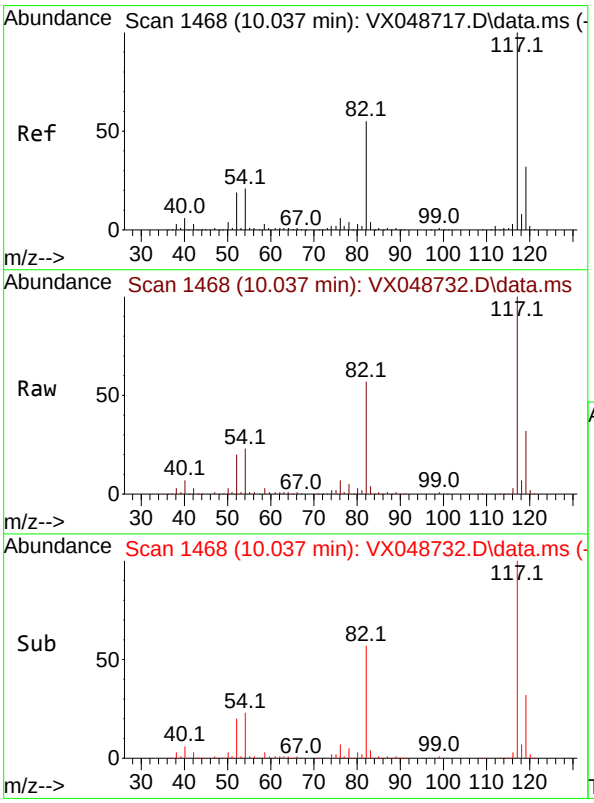

#62
4-Bromofluorobenzene
Concen: 45.533 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
BR-03D-490-120325

Tgt Ion: 95 Resp: 106460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.3 | 0.0 | 157.8 |
| 176 | 76.6 | 0.0 | 154.0 |

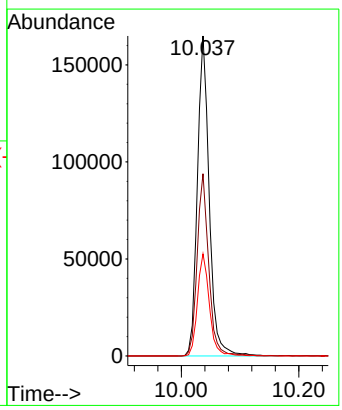


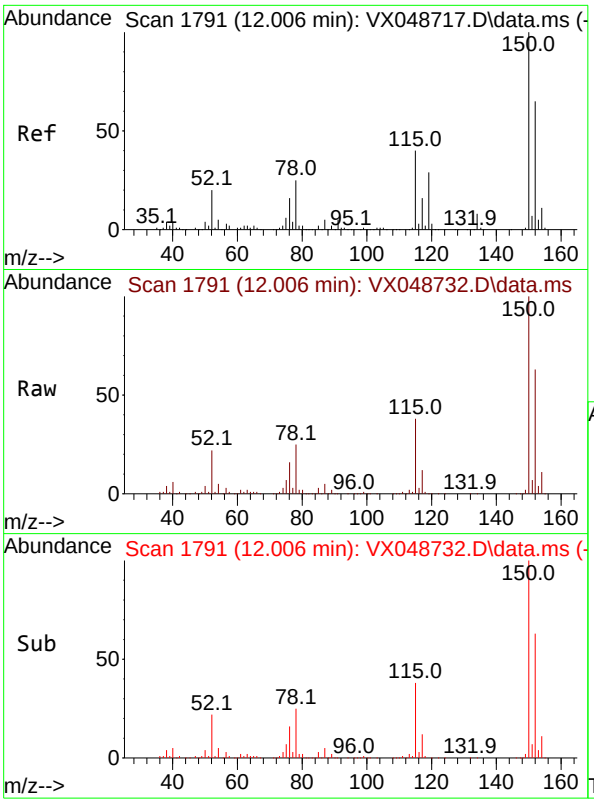




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

Tgt Ion:117 Resp: 230844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.9 | 44.1 | 66.1 |
| 119 | 31.9 | 25.2 | 37.8 |



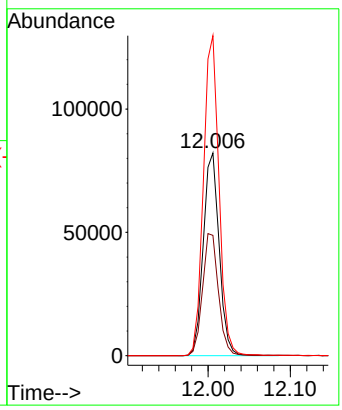



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048732.D
Acq: 05 Dec 2025 13:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
BR-03D-490-120325

Tgt Ion:152 Resp: 110489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.4 | 42.1 | 126.4 |
| 150 | 154.7 | 0.0 | 347.8 |



Raw Data: **VX048733.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 12/03/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 12/03/25 |
| Client Sample ID: | MW-14B-46-120325 | SDG No.: | Q3757 |
| Lab Sample ID: | Q3757-05 | Matrix: | Water |
| Analytical Method: | 8260D Level: LOW | % Solid: | 0 |
| Sample Wt/Vol: | 5 mL Final Vol: 5000 uL | Test: | VOCMS Group3 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 1 | 0.26 | 1.00 | ug/L | 12/05/25 14:13 | VX120525 |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/05/25 14:13 | VX120525 |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/05/25 14:13 | VX120525 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 1 | 0.19 | 1.00 | ug/L | 12/05/25 14:13 | VX120525 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1 | 0.20 | 1.00 | ug/L | 12/05/25 14:13 | VX120525 |
| 71-43-2 | Benzene | 0.15 | U | 1 | 0.15 | 1.00 | ug/L | 12/05/25 14:13 | VX120525 |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 1 | 0.22 | 1.00 | ug/L | 12/05/25 14:13 | VX120525 |
| 79-01-6 | Trichloroethene | 0.090 | U | 1 | 0.090 | 1.00 | ug/L | 12/05/25 14:13 | VX120525 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 1 | 0.21 | 1.00 | ug/L | 12/05/25 14:13 | VX120525 |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/05/25 14:13 | VX120525 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 47.2 | | | 70 (74) - 130 (125) | 94% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 40.9 | | | 70 (75) - 130 (124) | 82% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 35.3 | | | 70 (86) - 130 (113) | 71% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 43.5 | | | 70 (77) - 130 (121) | 87% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 162000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 287000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 220000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 131000 | | | | | | | |

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_X\Data\VX120525\
Data File : VX048733.D
Acq On : 05 Dec 2025 14:13
Operator : JC/MD
Sample : Q3757-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14B-46-120325

Quant Time: Dec 05 22:04:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

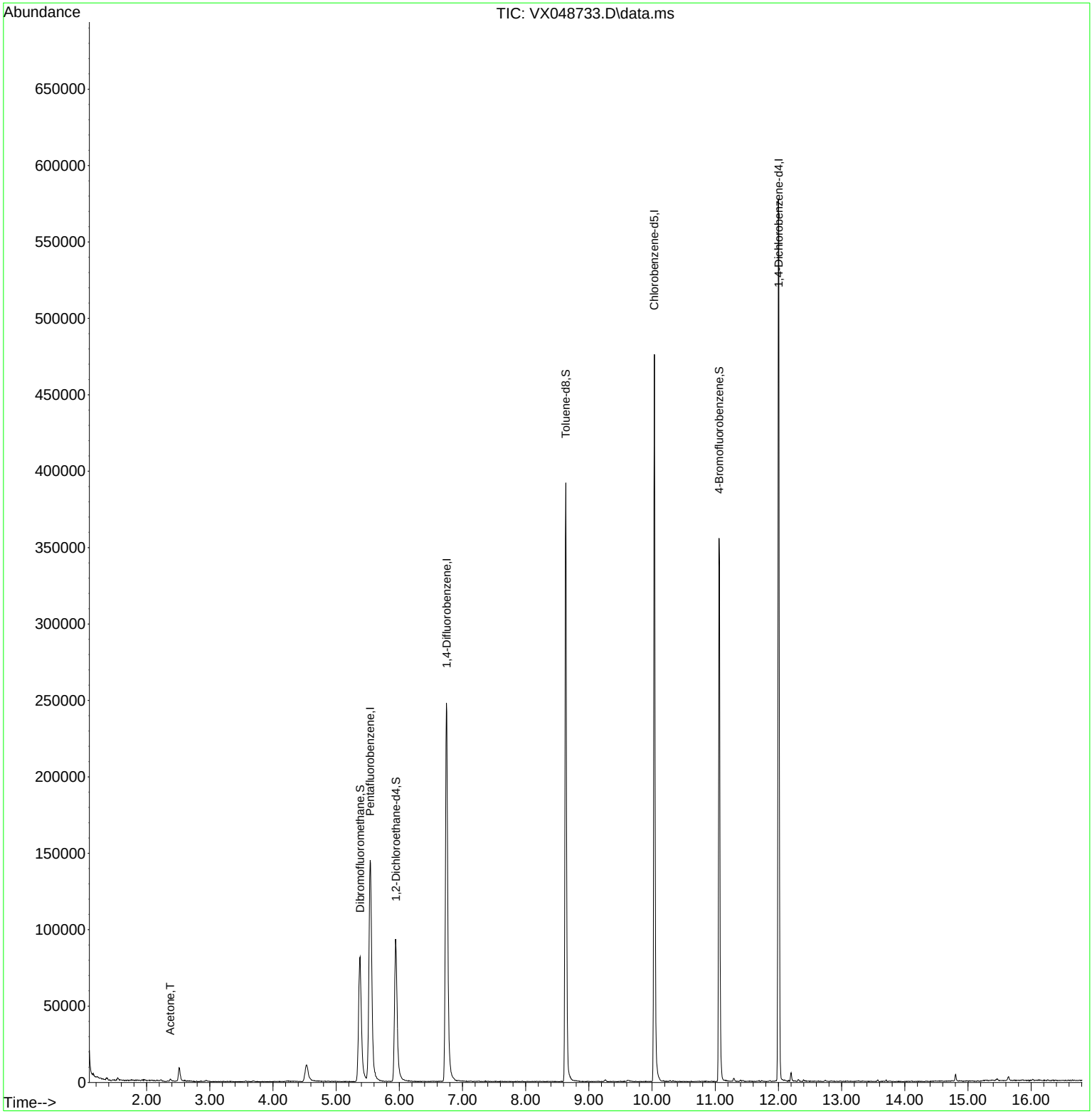
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.537 | 168 | 161591 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 286549 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 220300 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152 | 131055 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 102428 | 47.227 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = | 94.460% | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 80744 | 40.924 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 81.840% | | |
| 50) Toluene-d8 | 8.634 | 98 | 244075 | 35.291 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = | 70.580%# | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 103850 | 43.546 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = | 87.100% | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.373 | 43 | 2569 | 3.094 | ug/l | 100 |

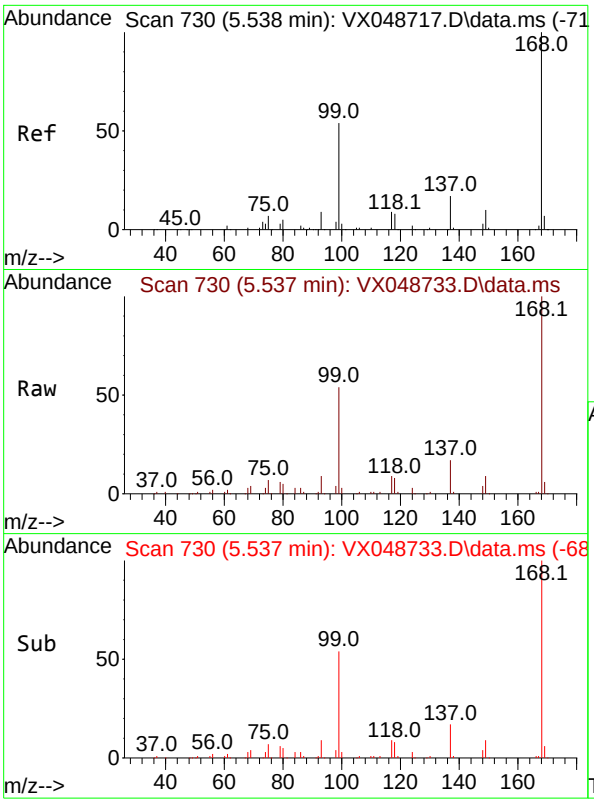
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048733.D
Acq On : 05 Dec 2025 14:13
Operator : JC/MD
Sample : Q3757-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14B-46-120325

Quant Time: Dec 05 22:04:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration



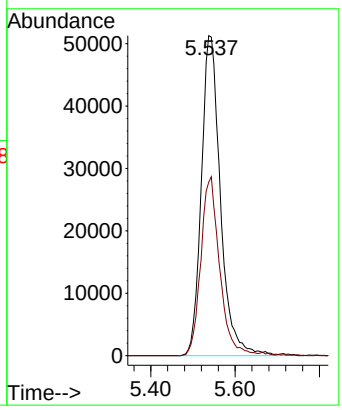


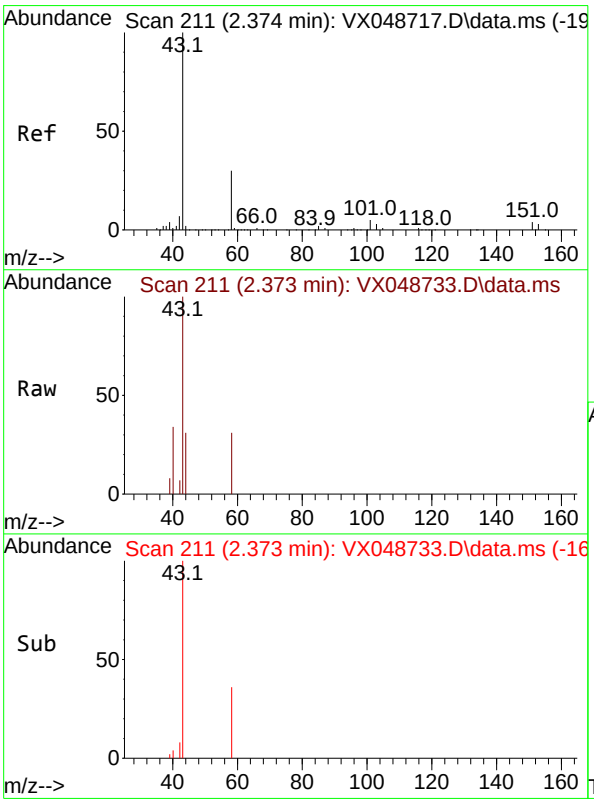

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.001 min
Lab File: VX048733.D
Acq: 05 Dec 2025 14:13

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14B-46-120325

Tgt Ion:168 Resp: 161591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 54.2 | 44.2 | 66.4 |

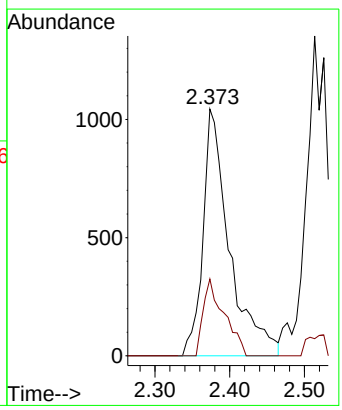


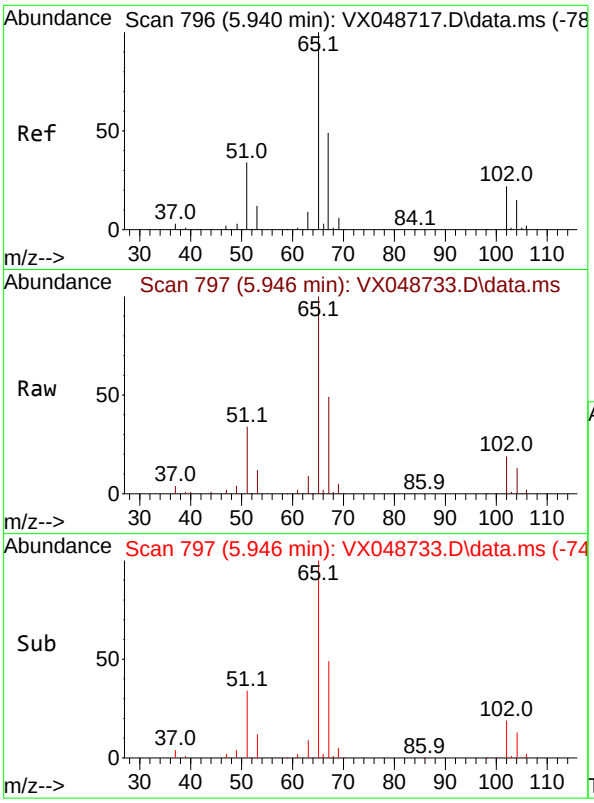




#16
Acetone
Concen: 3.094 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048733.D
Acq: 05 Dec 2025 14:13

Tgt Ion: 43 Resp: 2569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.1 | 25.0 | 37.4 |



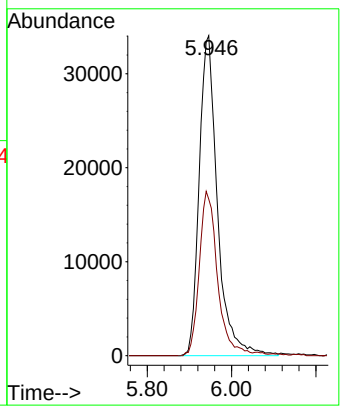


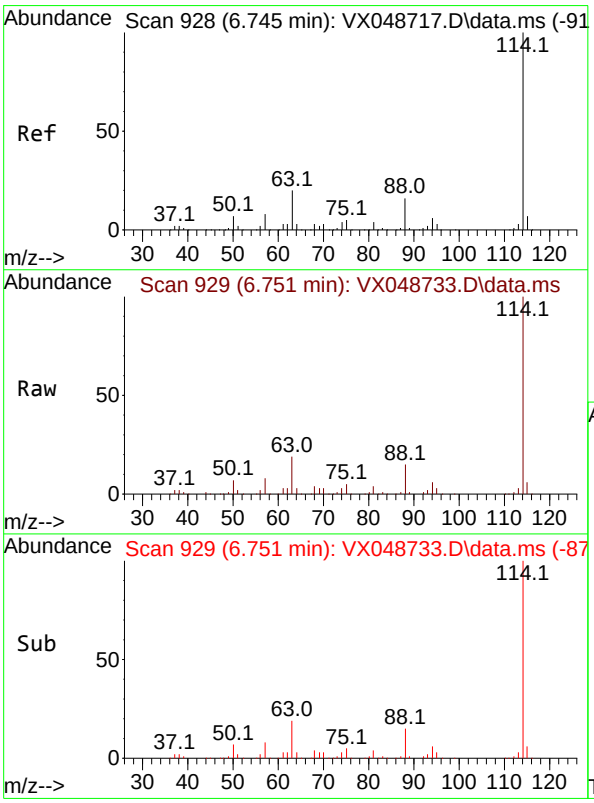

#33
1,2-Dichloroethane-d4
Concen: 47.227 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048733.D
Acq: 05 Dec 2025 14:13

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14B-46-120325

Tgt Ion: 65 Resp: 102428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.2 | 0.0 | 107.4 |

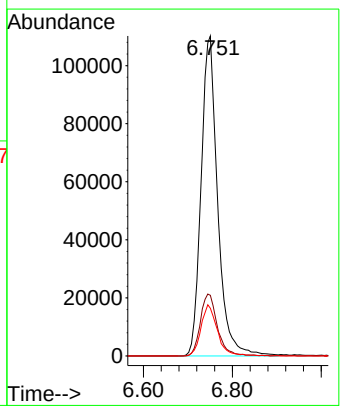


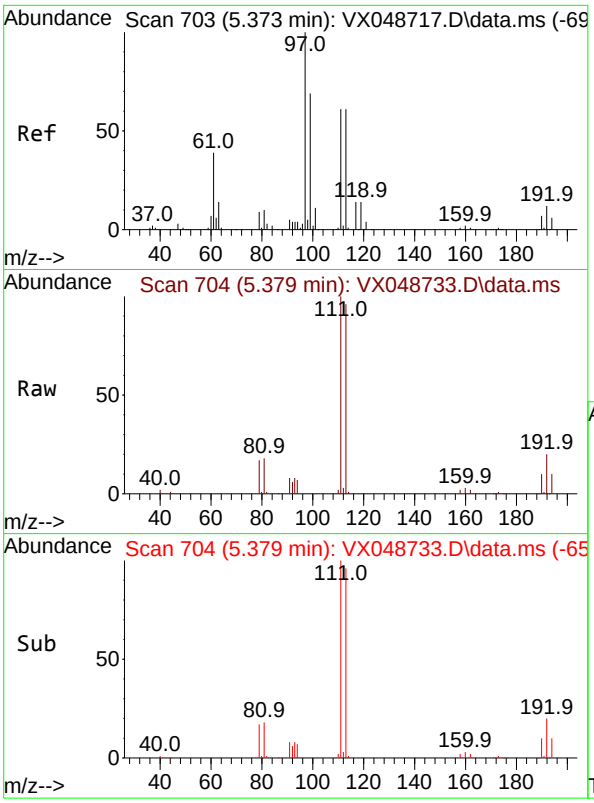




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX048733.D
Acq: 05 Dec 2025 14:13

Tgt Ion:114 Resp: 286549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.9 | 0.0 | 39.0 |
| 88 | 14.9 | 0.0 | 31.8 |



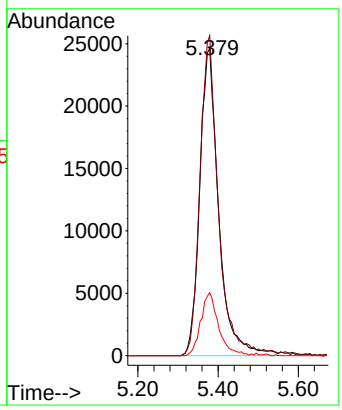


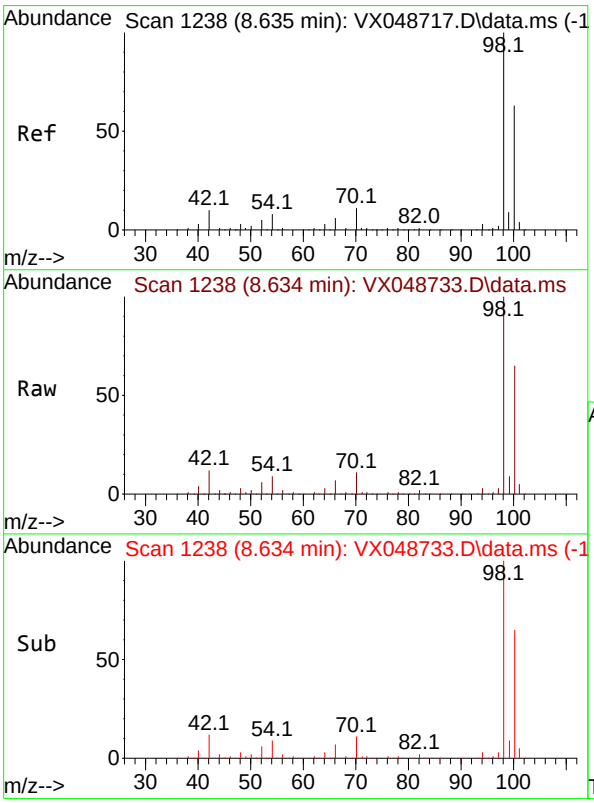

#35
Dibromofluoromethane
Concen: 40.924 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048733.D
Acq: 05 Dec 2025 14:13

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14B-46-120325

Tgt Ion:113 Resp: 80744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.6 | 79.5 | 119.3 |
| 192 | 19.3 | 16.1 | 24.1 |

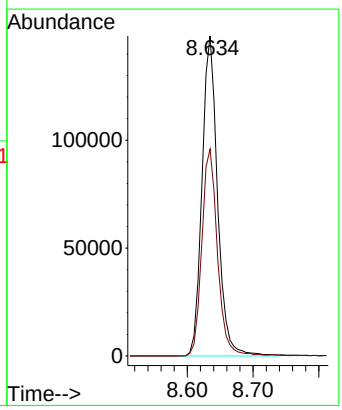


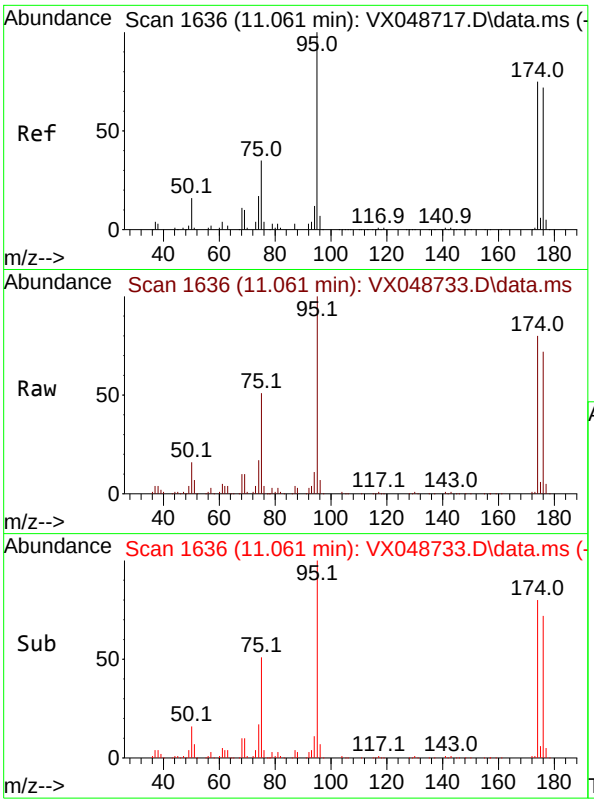




#50
Toluene-d8
Concen: 35.291 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048733.D
Acq: 05 Dec 2025 14:13

Tgt Ion: 98 Resp: 244075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.9 | 53.4 | 80.0 |



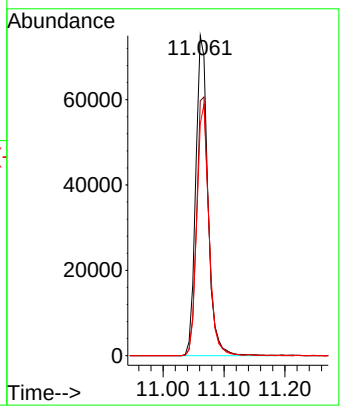


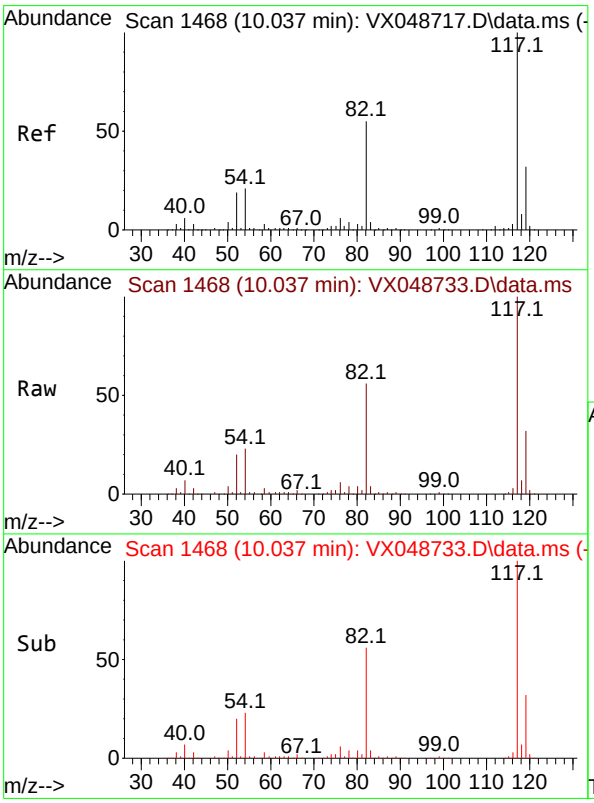

#62
4-Bromofluorobenzene
Concen: 43.546 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048733.D
Acq: 05 Dec 2025 14:13

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14B-46-120325

Tgt Ion: 95 Resp: 103850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 81.4 | 0.0 | 157.8 |
| 176 | 78.1 | 0.0 | 154.0 |

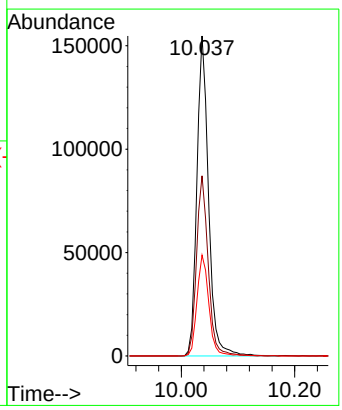


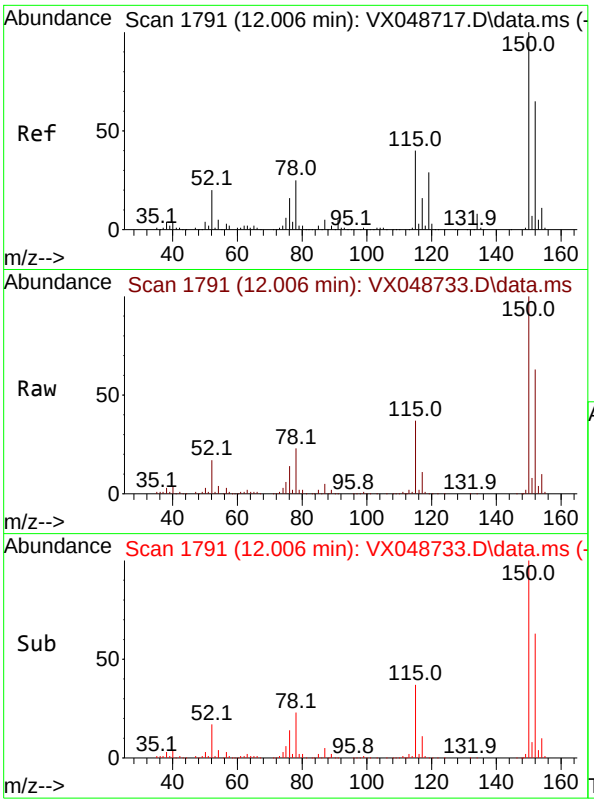




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048733.D
Acq: 05 Dec 2025 14:13

Tgt Ion:117 Resp: 220300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.3 | 44.1 | 66.1 |
| 119 | 31.5 | 25.2 | 37.8 |



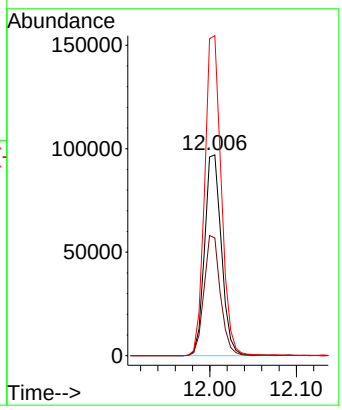



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048733.D
Acq: 05 Dec 2025 14:13

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14B-46-120325

Tgt Ion:152 Resp: 131055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.4 | 42.1 | 126.4 |
| 150 | 156.9 | 0.0 | 347.8 |



Raw Data: **VX048747.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 12/03/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 12/03/25 |
| Client Sample ID: | MW-14B-46-120325RE | SDG No.: | Q3757 |
| Lab Sample ID: | Q3757-05RE | Matrix: | Water |
| Analytical Method: | 8260D Level: LOW | % Solid: | 0 |
| Sample Wt/Vol: | 5 mL Final Vol: 5000 uL | Test: | VOCMS Group3 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 1 | 0.26 | 1.00 | ug/L | 12/08/25 12:33 | VX120825 |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/08/25 12:33 | VX120825 |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/08/25 12:33 | VX120825 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 1 | 0.19 | 1.00 | ug/L | 12/08/25 12:33 | VX120825 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1 | 0.20 | 1.00 | ug/L | 12/08/25 12:33 | VX120825 |
| 71-43-2 | Benzene | 0.15 | U | 1 | 0.15 | 1.00 | ug/L | 12/08/25 12:33 | VX120825 |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 1 | 0.22 | 1.00 | ug/L | 12/08/25 12:33 | VX120825 |
| 79-01-6 | Trichloroethene | 0.090 | U | 1 | 0.090 | 1.00 | ug/L | 12/08/25 12:33 | VX120825 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 1 | 0.21 | 1.00 | ug/L | 12/08/25 12:33 | VX120825 |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/08/25 12:33 | VX120825 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 57.7 | | | 70 (74) - 130 (125) | 115% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 38.4 | | | 70 (75) - 130 (124) | 77% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 38.4 | | | 70 (86) - 130 (113) | 77% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 56.9 | | | 70 (77) - 130 (121) | 114% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 125000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 300000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 268000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 140000 | | | | | | | |

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_X\Data\VX120825\
Data File : VX048747.D
Acq On : 08 Dec 2025 12:33
Operator : JC/MD
Sample : Q3757-05RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14B-46-120325RE

Quant Time: Dec 09 04:08:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

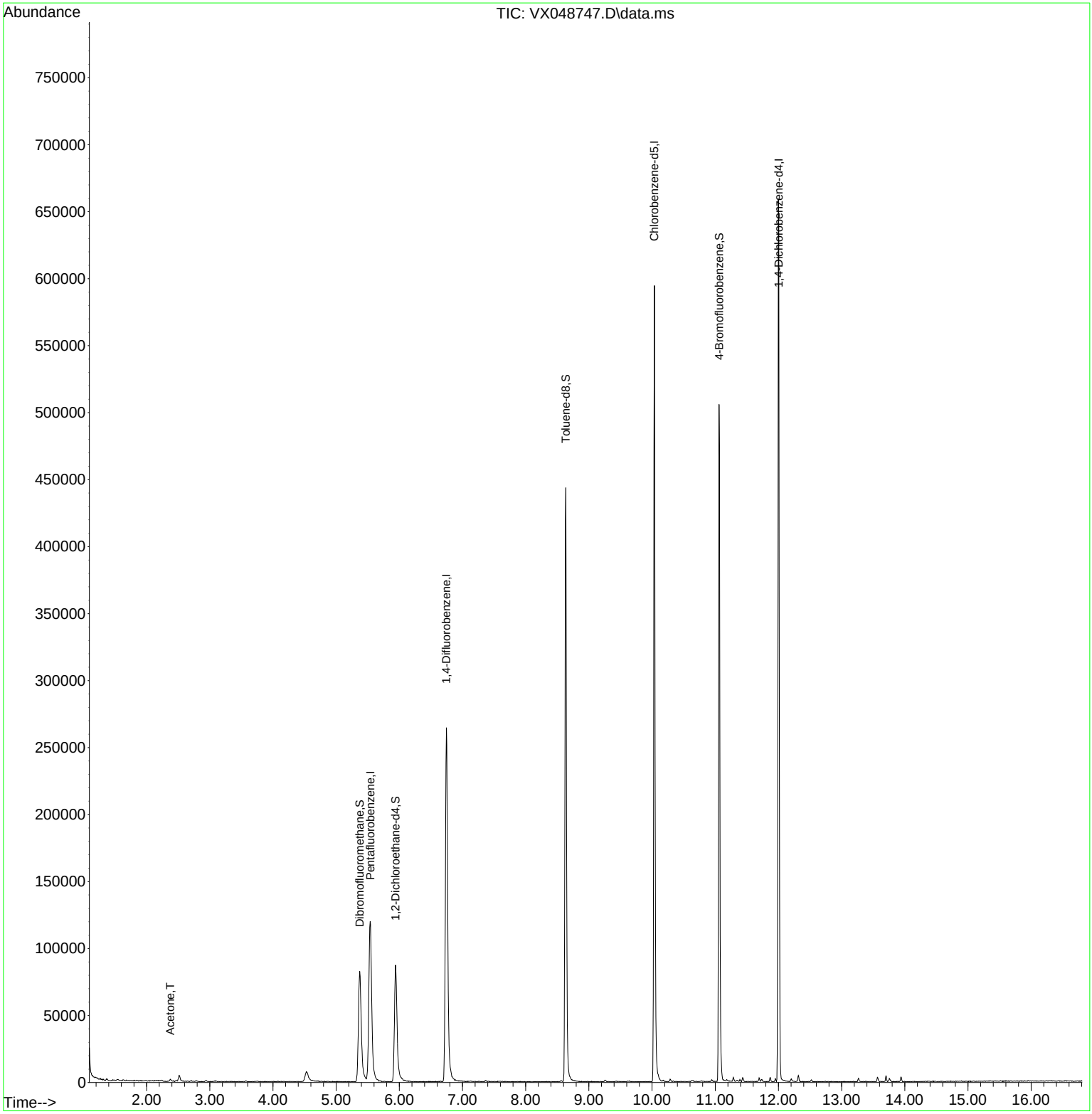
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 124903 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.745 | 114 | 299763 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 268328 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152 | 139875 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.940 | 65 | 96803 | 57.744 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = 115.480% | | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 79281 | 38.412 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 76.820% | | | |
| 50) Toluene-d8 | 8.635 | 98 | 278126 | 38.442 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = 76.880%# | | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 141911 | 56.882 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = 113.760% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.373 | 43 | 2472 | 3.852 | ug/l # | 72 |

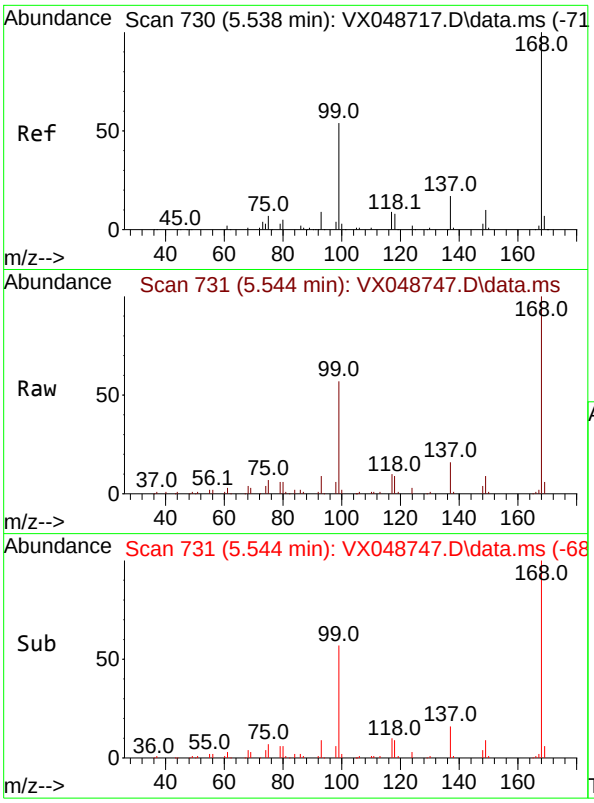
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048747.D
Acq On : 08 Dec 2025 12:33
Operator : JC/MD
Sample : Q3757-05RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14B-46-120325RE

Quant Time: Dec 09 04:08:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration



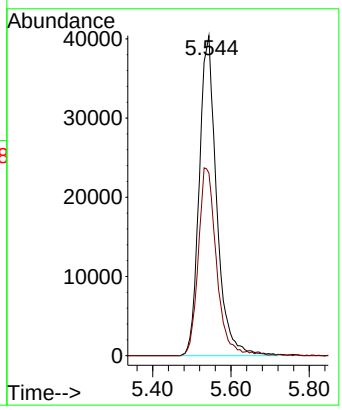


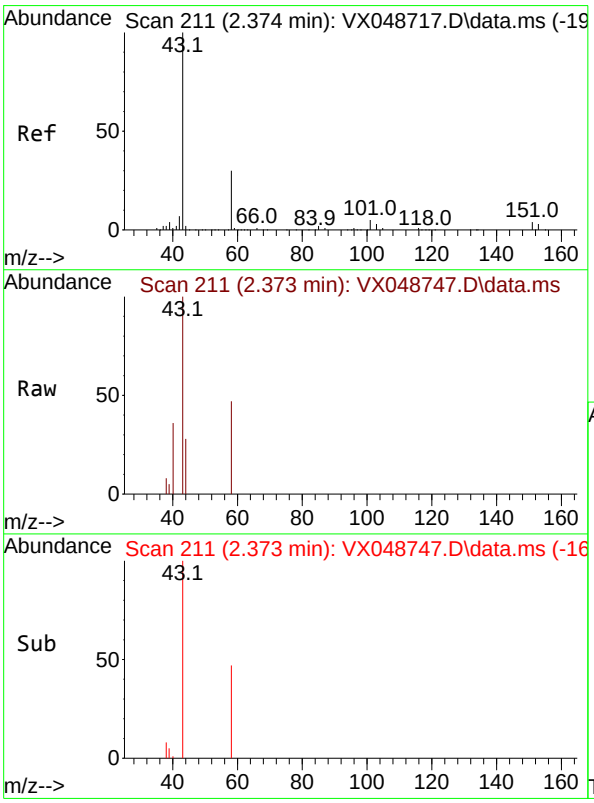

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048747.D
Acq: 08 Dec 2025 12:33

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14B-46-120325RE

Tgt Ion:168 Resp: 124903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.1 | 44.2 | 66.4 |

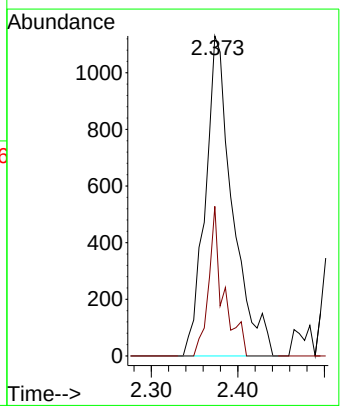


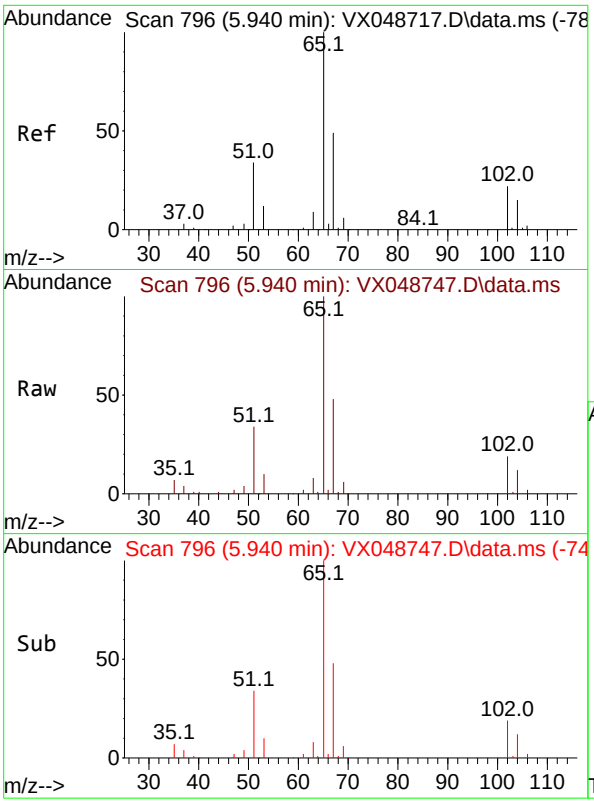




#16
Acetone
Concen: 3.852 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048747.D
Acq: 08 Dec 2025 12:33

Tgt Ion: 43 Resp: 2472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 46.7 | 25.0 | 37.4# |



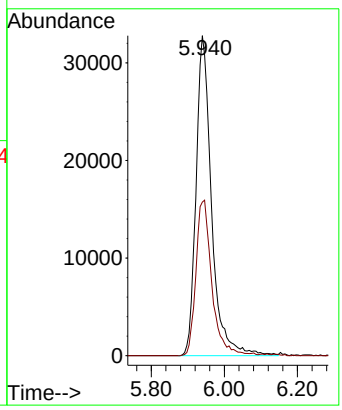


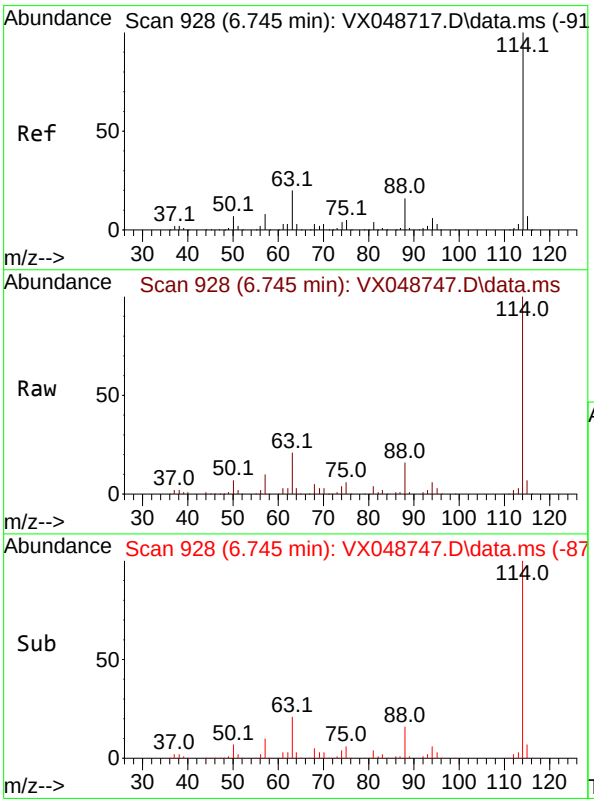

#33
1,2-Dichloroethane-d4
Concen: 57.744 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048747.D
Acq: 08 Dec 2025 12:33

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14B-46-120325RE

Tgt Ion: 65 Resp: 96803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.8 | 0.0 | 107.4 |

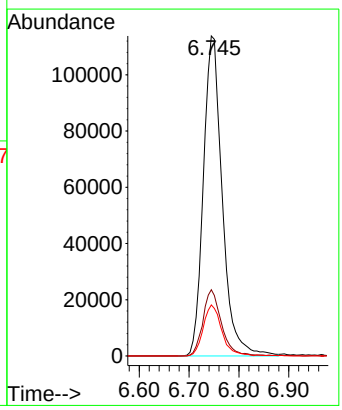


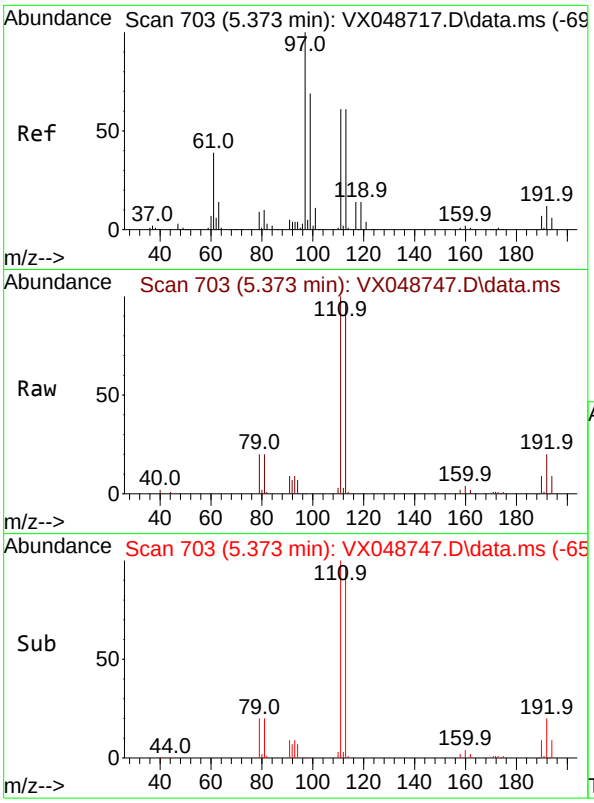




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048747.D
Acq: 08 Dec 2025 12:33

Tgt Ion:114 Resp: 299763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.7 | 0.0 | 39.0 |
| 88 | 16.0 | 0.0 | 31.8 |



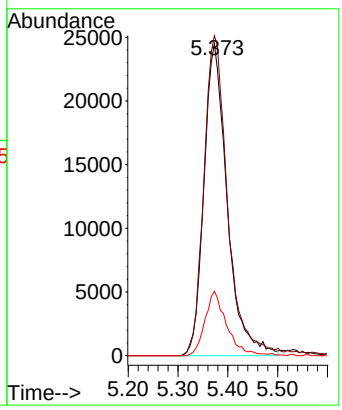


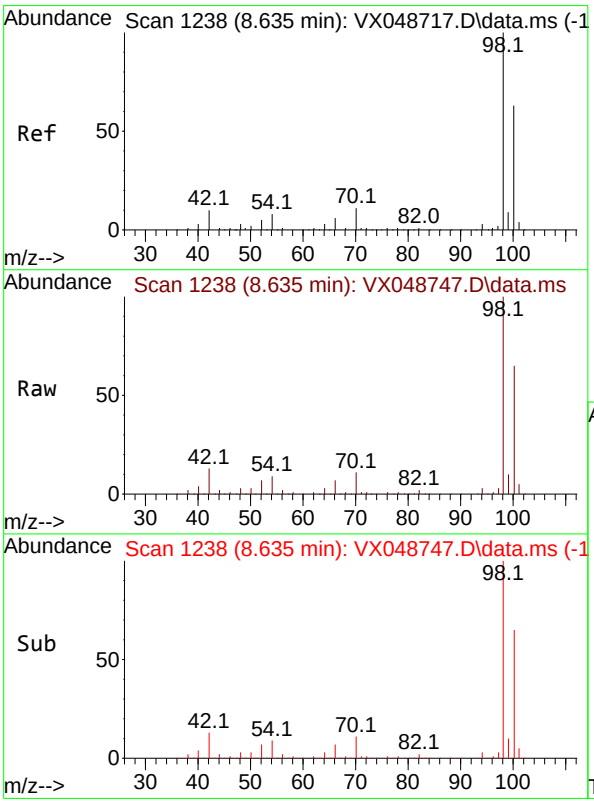

#35
Dibromofluoromethane
Concen: 38.412 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048747.D
Acq: 08 Dec 2025 12:33

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14B-46-120325RE

Tgt Ion:113 Resp: 79281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.9 | 79.5 | 119.3 |
| 192 | 19.5 | 16.1 | 24.1 |

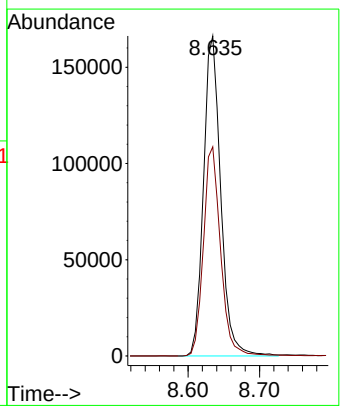


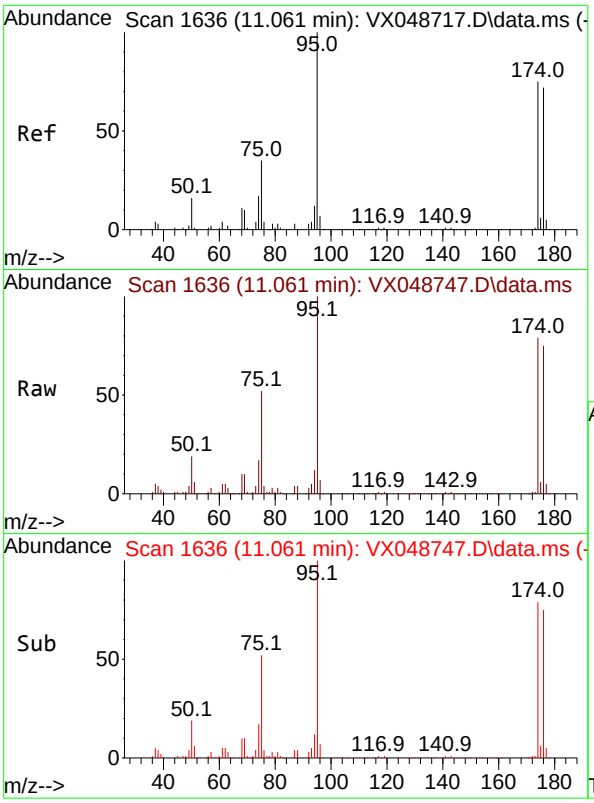




#50
Toluene-d8
Concen: 38.442 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048747.D
Acq: 08 Dec 2025 12:33

Tgt Ion: 98 Resp: 278126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.2 | 53.4 | 80.0 |



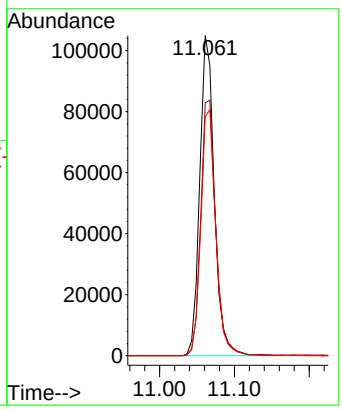


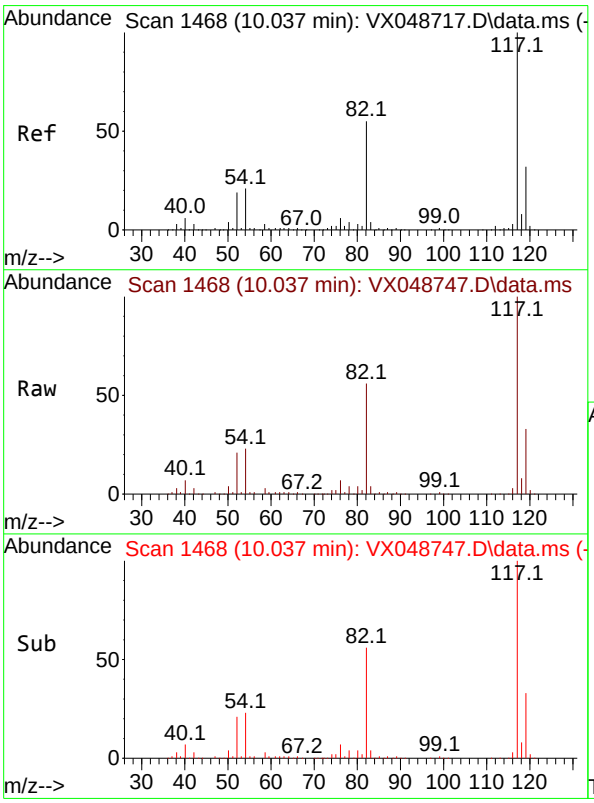

#62
4-Bromofluorobenzene
Concen: 56.882 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048747.D
Acq: 08 Dec 2025 12:33

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14B-46-120325RE

Tgt Ion: 95 Resp: 141911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 82.4 | 0.0 | 157.8 |
| 176 | 79.0 | 0.0 | 154.0 |

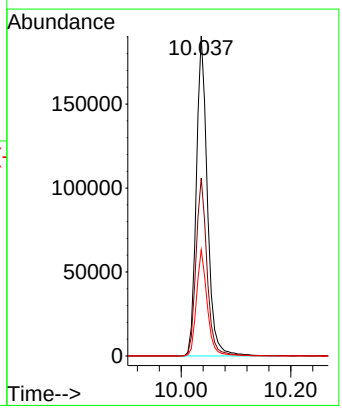


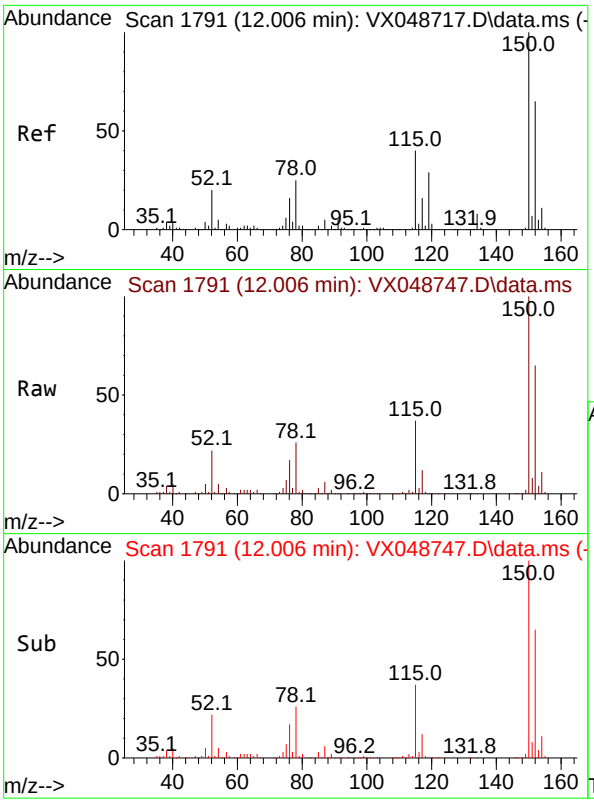




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048747.D
Acq: 08 Dec 2025 12:33

Tgt Ion:117 Resp: 268328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.6 | 44.1 | 66.1 |
| 119 | 33.2 | 25.2 | 37.8 |



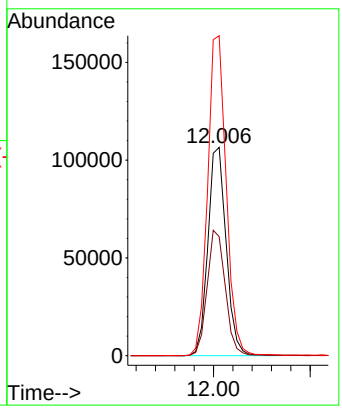



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048747.D
Acq: 08 Dec 2025 12:33

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-14B-46-120325RE

Tgt Ion:152 Resp: 139875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.1 | 42.1 | 126.4 |
| 150 | 156.1 | 0.0 | 347.8 |



Raw Data: **VX048734.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 12/03/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 12/03/25 |
| Client Sample ID: | RMW-05B-90.5-120325 | SDG No.: | Q3757 |
| Lab Sample ID: | Q3757-07 | Matrix: | Water |
| Analytical Method: | 8260D Level: LOW | % Solid: | 0 |
| Sample Wt/Vol: | 5 mL Final Vol: 5000 uL | Test: | VOCMS Group3 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 1 | 0.26 | 1.00 | ug/L | 12/05/25 14:33 | VX120525 |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/05/25 14:33 | VX120525 |
| 75-34-3 | 1,1-Dichloroethane | 1.50 | | 1 | 0.23 | 1.00 | ug/L | 12/05/25 14:33 | VX120525 |
| 156-59-2 | cis-1,2-Dichloroethene | 13.1 | | 1 | 0.19 | 1.00 | ug/L | 12/05/25 14:33 | VX120525 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1 | 0.20 | 1.00 | ug/L | 12/05/25 14:33 | VX120525 |
| 71-43-2 | Benzene | 0.15 | U | 1 | 0.15 | 1.00 | ug/L | 12/05/25 14:33 | VX120525 |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 1 | 0.22 | 1.00 | ug/L | 12/05/25 14:33 | VX120525 |
| 79-01-6 | Trichloroethene | 0.65 | J | 1 | 0.090 | 1.00 | ug/L | 12/05/25 14:33 | VX120525 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 1 | 0.21 | 1.00 | ug/L | 12/05/25 14:33 | VX120525 |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/05/25 14:33 | VX120525 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 51.3 | | | 70 (74) - 130 (125) | 103% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 47.1 | | | 70 (75) - 130 (124) | 94% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 43.9 | | | 70 (86) - 130 (113) | 88% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 45.8 | | | 70 (77) - 130 (121) | 92% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 132000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 223000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 207000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 103000 | | | | | | | |

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_X\Data\VX120525\
Data File : VX048734.D
Acq On : 05 Dec 2025 14:33
Operator : JC/MD
Sample : Q3757-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
RMW-05B-90.5-120325

Quant Time: Dec 05 22:05:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

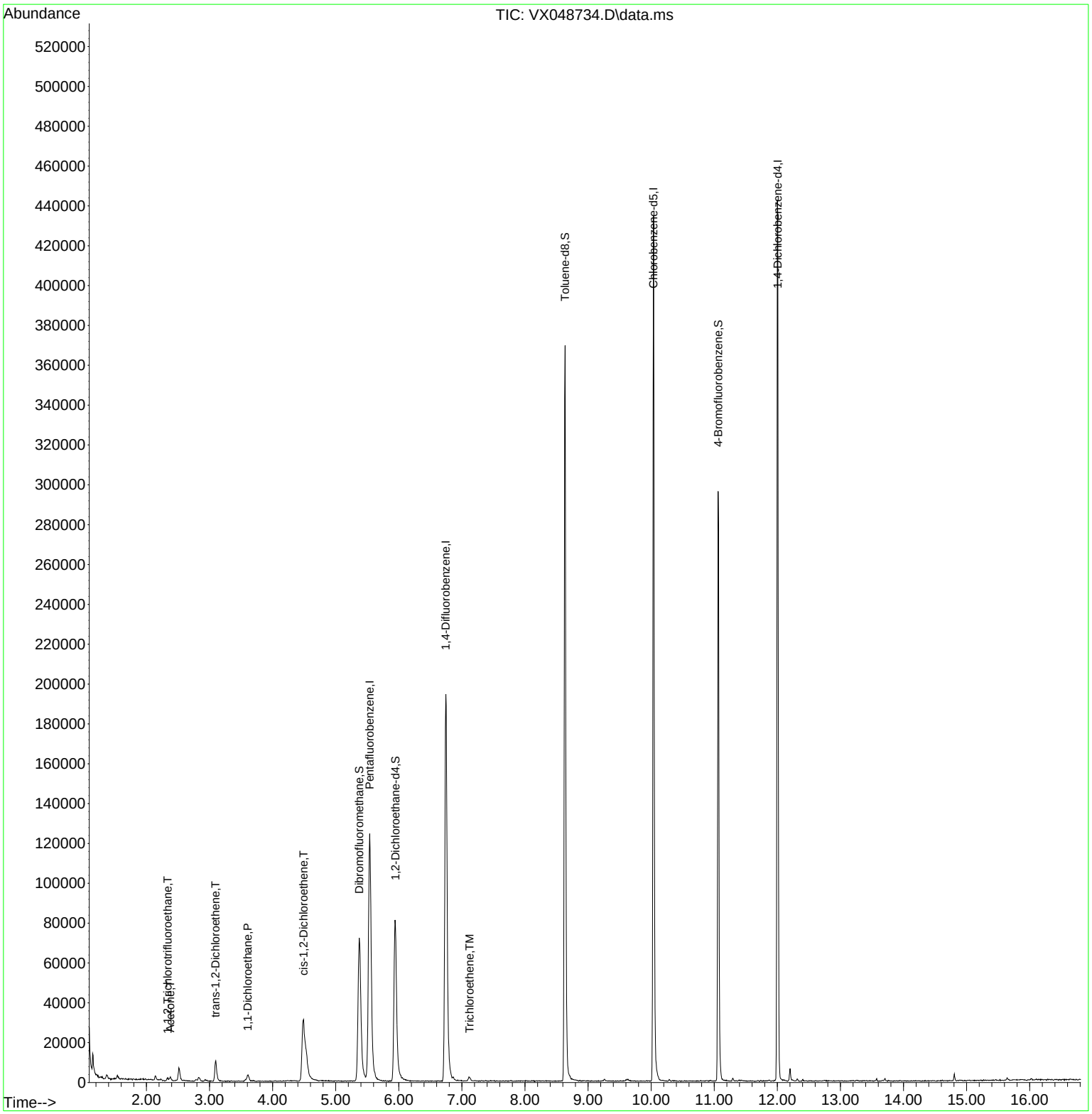
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.538 | 168 | 132392 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.745 | 114 | 222932 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 207009 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152 | 102583 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 91135 | 51.288 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = 102.580% | | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 72316 | 47.112 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 94.220% | | | |
| 50) Toluene-d8 | 8.635 | 98 | 236336 | 43.924 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = 87.840%# | | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 84945 | 45.783 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = 91.560% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) 1,1,2-Trichlorotrifluo... | 2.337 | 101 | 558 | 0.370 | ug/l # | 83 |
| 16) Acetone | 2.380 | 43 | 3009 | 4.423 | ug/l # | 87 |
| 21) trans-1,2-Dichloroethene | 3.093 | 96 | 5495 | 3.502 | ug/l # | 79 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 3969 | 1.475 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 4.489 | 96 | 23281 | 13.149 | ug/l | 90 |
| 44) Trichloroethene | 7.123 | 130 | 1059 | 0.651 | ug/l | 91 |

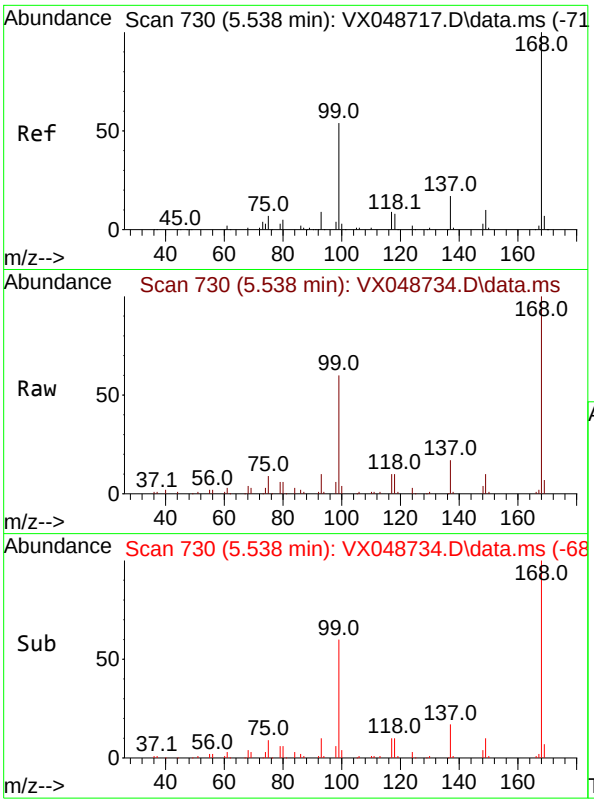
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048734.D
Acq On : 05 Dec 2025 14:33
Operator : JC/MD
Sample : Q3757-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
RMW-05B-90.5-120325

Quant Time: Dec 05 22:05:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration



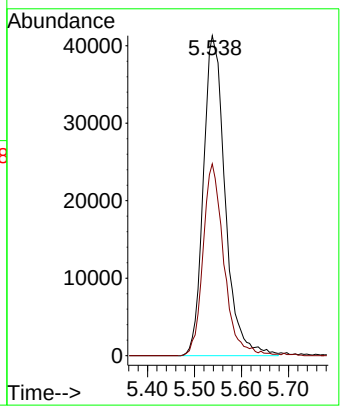


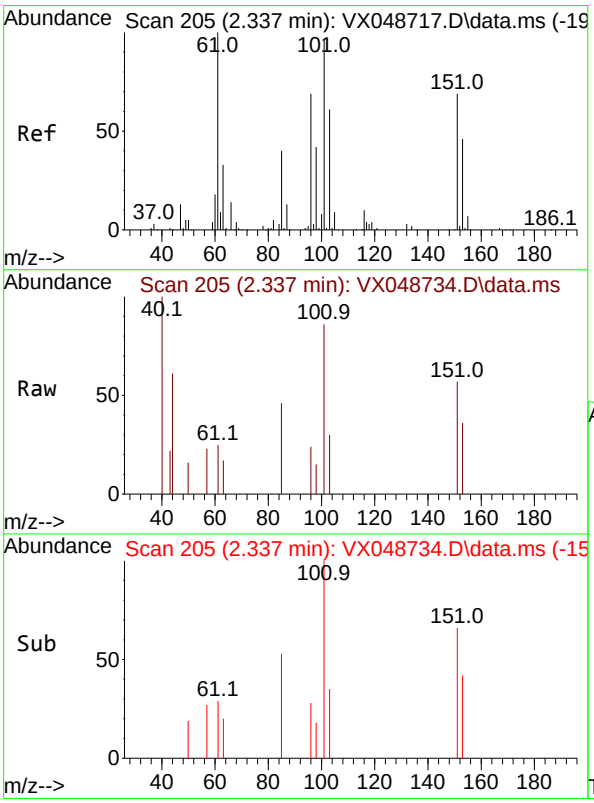

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048734.D
Acq: 05 Dec 2025 14:33

**Instrument :**
MSVOA_X
**ClientSampleId :**
RMW-05B-90.5-120325

Tgt Ion:168 Resp: 132392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 59.9 | 44.2 | 66.4 |

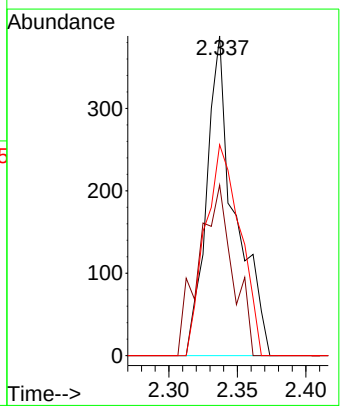


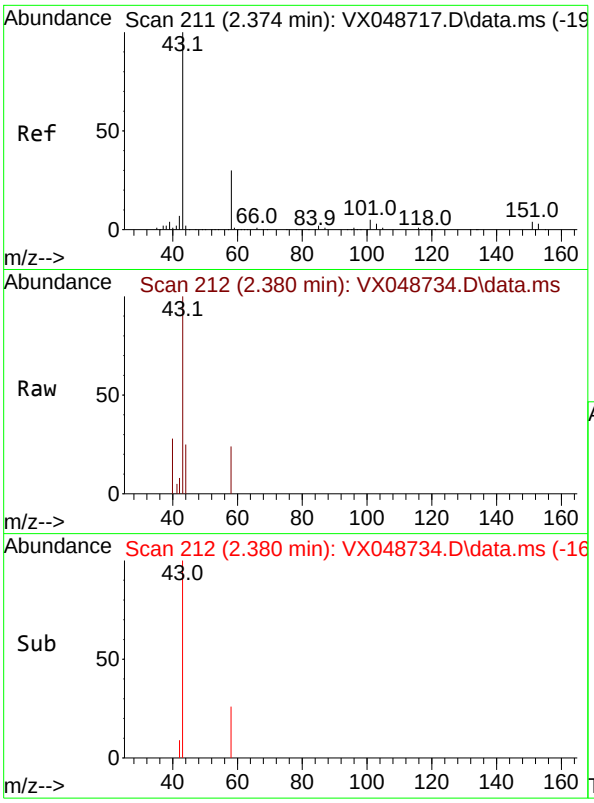




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.370 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX048734.D
Acq: 05 Dec 2025 14:33

Tgt Ion:101 Resp: 558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 64.0 | 34.2 | 51.2# |
| 151 | 81.5 | 60.2 | 90.4 |



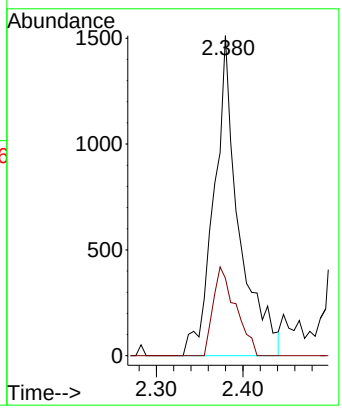


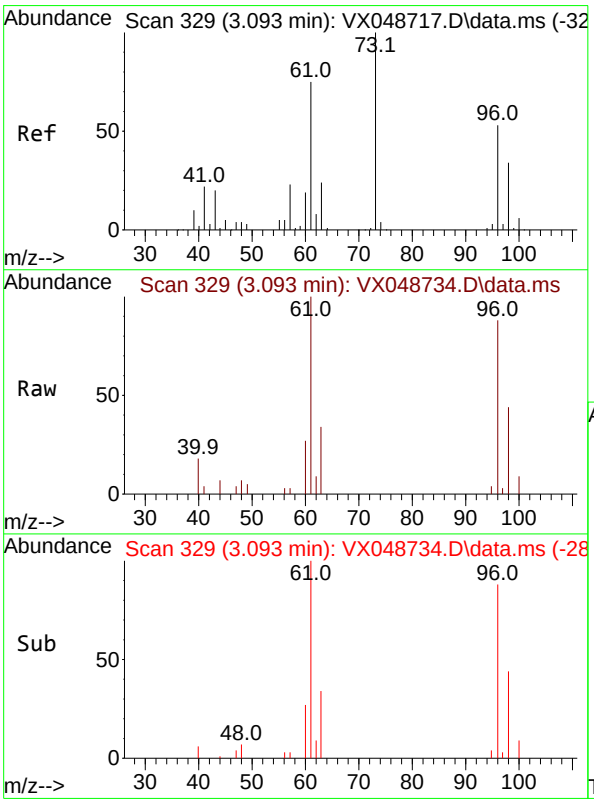

#16
Acetone
Concen: 4.423 ug/l
RT: 2.380 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048734.D
Acq: 05 Dec 2025 14:33

**Instrument :**
MSVOA_X
**ClientSampleId :**
RMW-05B-90.5-120325

Tgt Ion: 43 Resp: 3009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 24.2 | 25.0 | 37.4# |

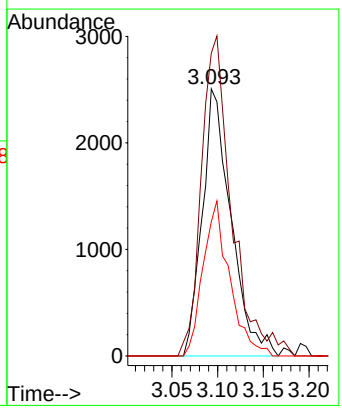


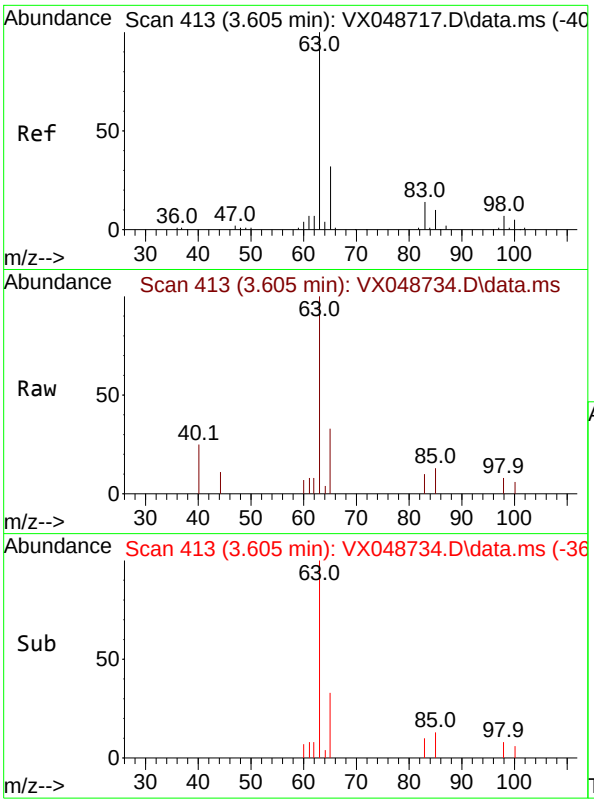




#21
trans-1,2-Dichloroethene
Concen: 3.502 ug/l
RT: 3.093 min Scan# 329
Delta R.T. 0.000 min
Lab File: VX048734.D
Acq: 05 Dec 2025 14:33

Tgt Ion: 96 Resp: 5495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 113.4 | 112.8 | 169.2 |
| 98 | 50.3 | 51.0 | 76.4# |



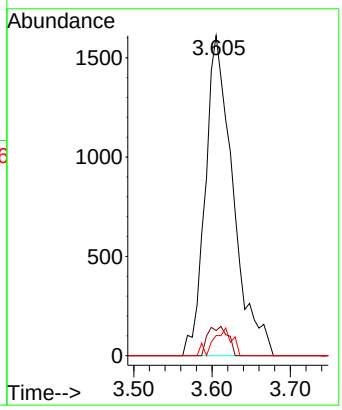


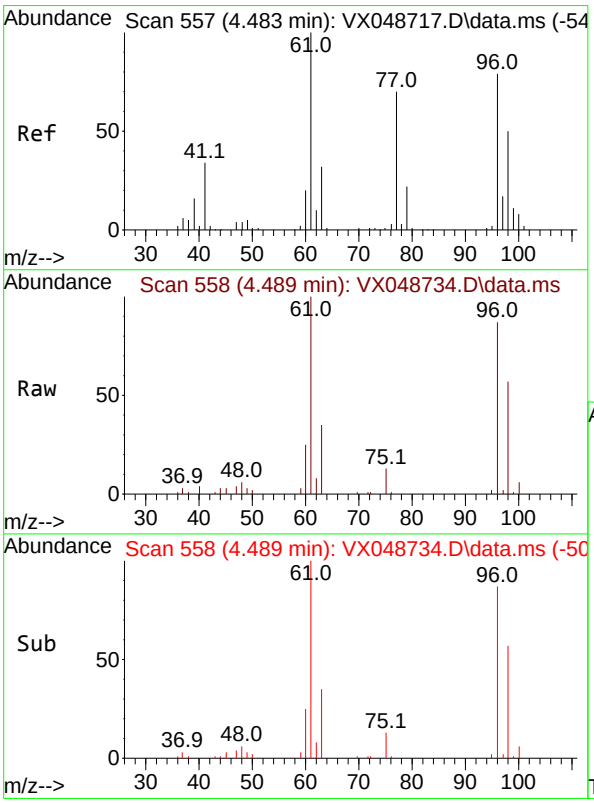

#24
1,1-Dichloroethane
Concen: 1.475 ug/l
RT: 3.605 min Scan# 41
Delta R.T. 0.000 min
Lab File: VX048734.D
Acq: 05 Dec 2025 14:33

**Instrument :**
MSVOA_X
**ClientSampleId :**
RMW-05B-90.5-120325

Tgt Ion: 63 Resp: 3969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.9 | 3.5 | 10.6 |
| 100 | 6.3 | 2.5 | 7.4 |

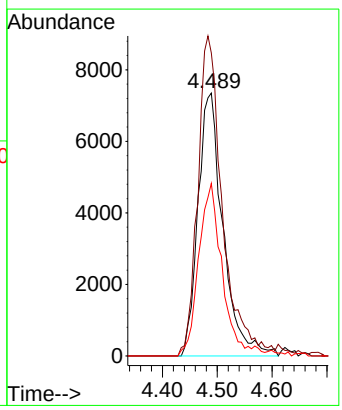


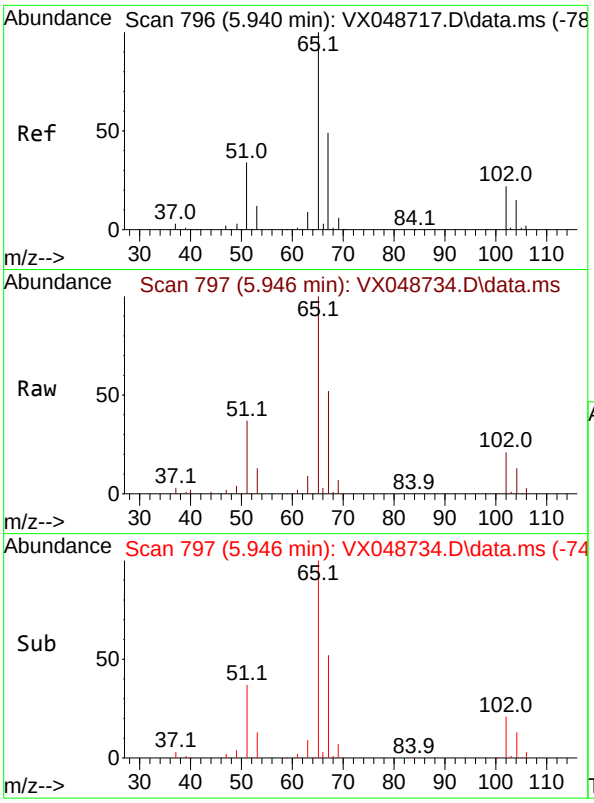




#27
cis-1,2-Dichloroethene
Concen: 13.149 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.006 min
Lab File: VX048734.D
Acq: 05 Dec 2025 14:33

Tgt Ion: 96 Resp: 23281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 119.9 | 0.0 | 271.0 |
| 98 | 61.8 | 0.0 | 130.2 |



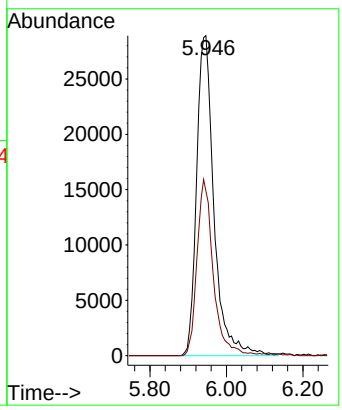


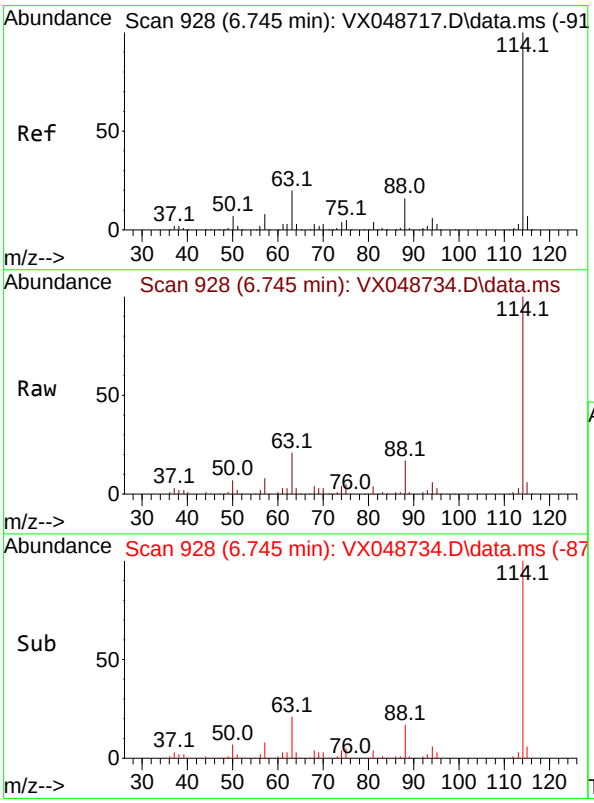

#33
1,2-Dichloroethane-d4
Concen: 51.288 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048734.D
Acq: 05 Dec 2025 14:33

**Instrument :**
MSVOA_X
**ClientSampleId :**
RMW-05B-90.5-120325

Tgt Ion: 65 Resp: 91135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.4 | 0.0 | 107.4 |

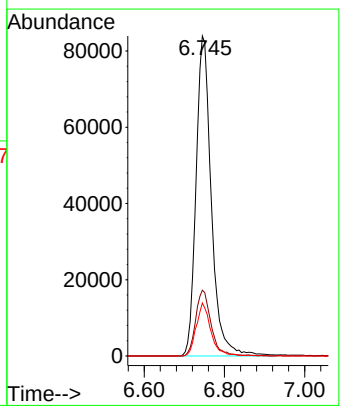


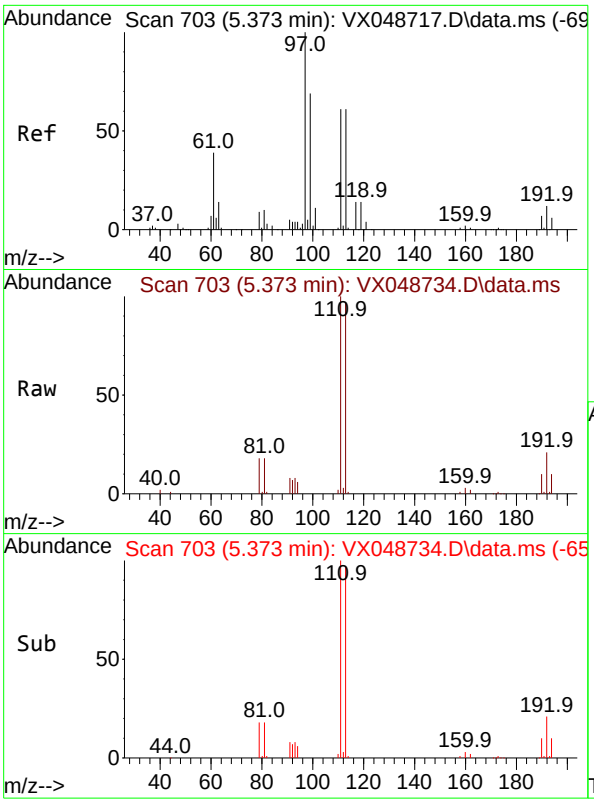




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. 0.000 min
Lab File: VX048734.D
Acq: 05 Dec 2025 14:33

Tgt Ion:114 Resp: 222932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.6 | 0.0 | 39.0 |
| 88 | 16.6 | 0.0 | 31.8 |



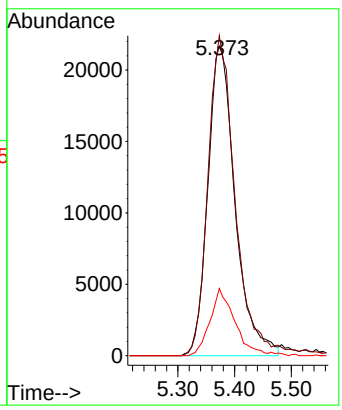


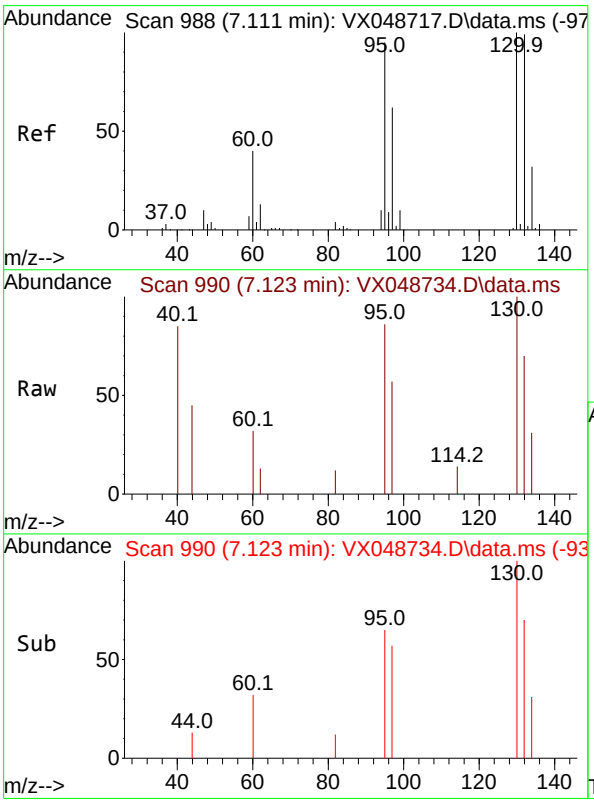

#35
Dibromofluoromethane
Concen: 47.112 ug/l
RT: 5.373 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX048734.D
Acq: 05 Dec 2025 14:33

**Instrument :**
MSVOA_X
**ClientSampleId :**
RMW-05B-90.5-120325

Tgt Ion:113 Resp: 72316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.5 | 79.5 | 119.3 |
| 192 | 19.6 | 16.1 | 24.1 |

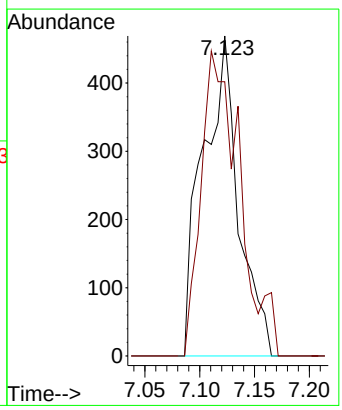


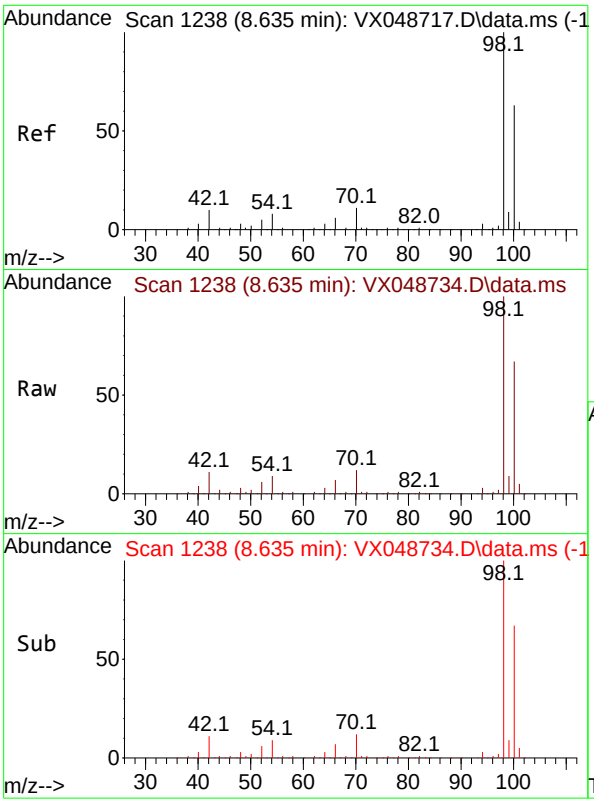




#44
Trichloroethene
Concen: 0.651 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.012 min
Lab File: VX048734.D
Acq: 05 Dec 2025 14:33

Tgt Ion:130 Resp: 1059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 85.7 | 0.0 | 189.6 |



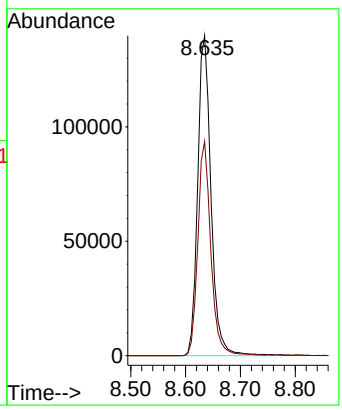


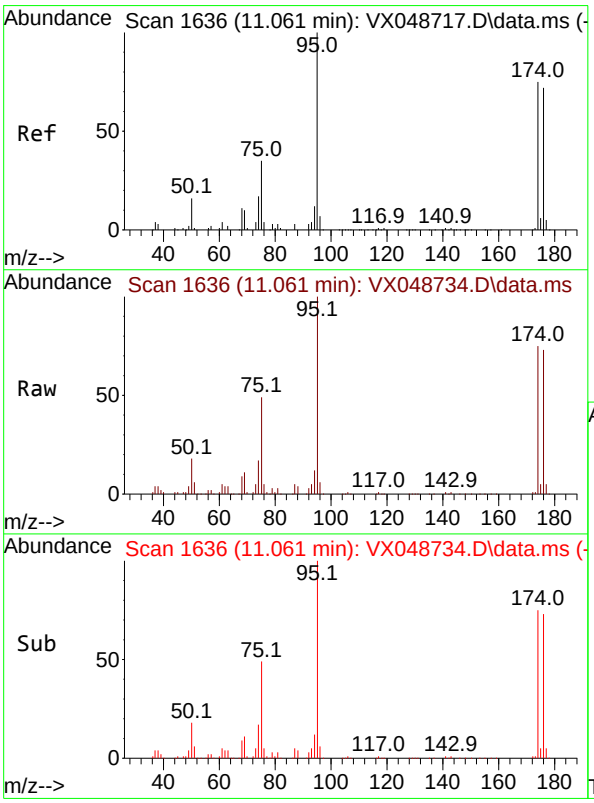

#50
Toluene-d8
Concen: 43.924 ug/l
RT: 8.635 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048734.D
Acq: 05 Dec 2025 14:33

**Instrument :**
MSVOA_X
**ClientSampleId :**
RMW-05B-90.5-120325

Tgt Ion: 98 Resp: 236336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 53.4 | 80.0 |

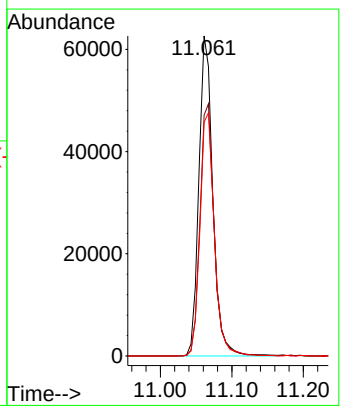


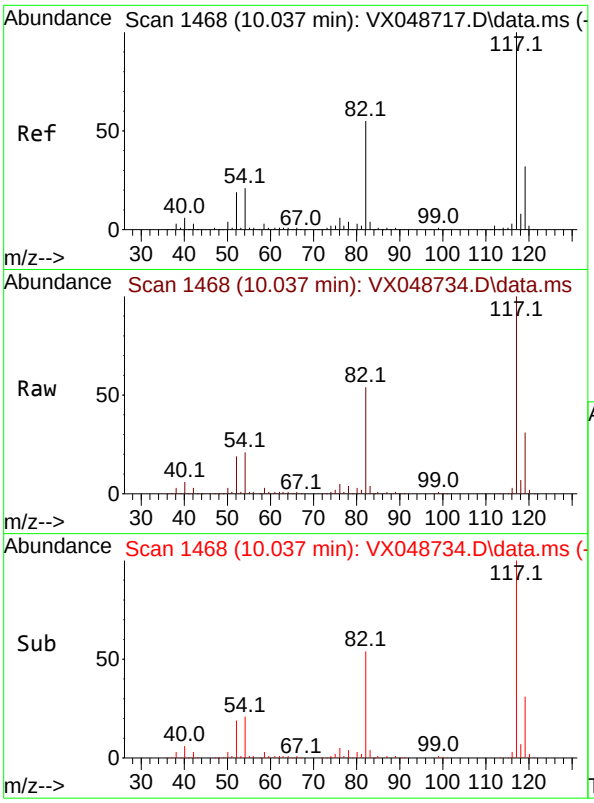




#62
4-Bromofluorobenzene
Concen: 45.783 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX048734.D
Acq: 05 Dec 2025 14:33

Tgt Ion: 95 Resp: 84945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.1 | 0.0 | 157.8 |
| 176 | 78.0 | 0.0 | 154.0 |



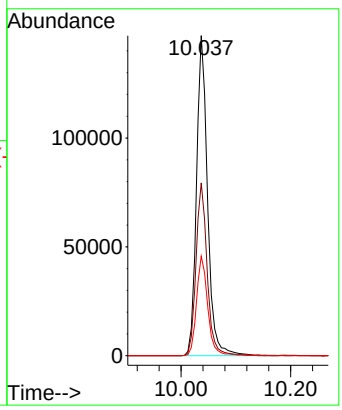


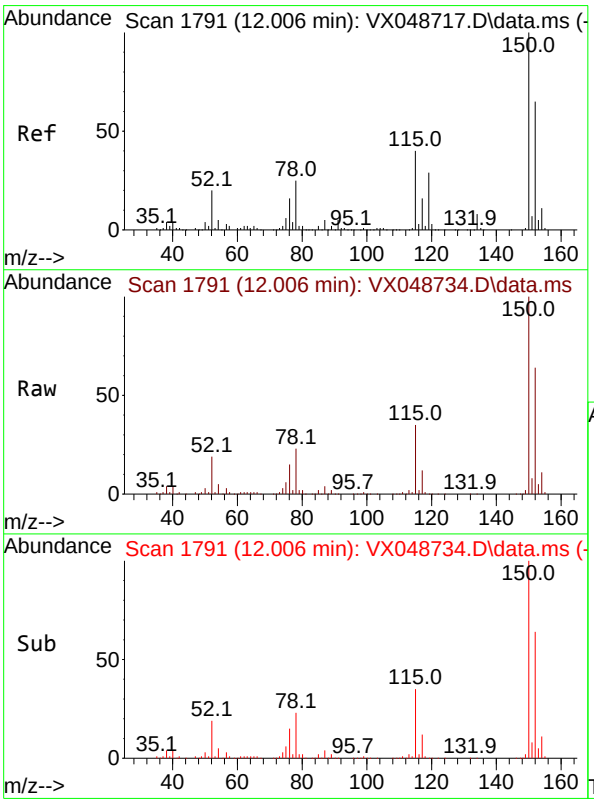

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048734.D
Acq: 05 Dec 2025 14:33

**Instrument :**
MSVOA_X
**ClientSampleId :**
RMW-05B-90.5-120325

Tgt Ion:117 Resp: 207009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.0 | 44.1 | 66.1 |
| 119 | 31.1 | 25.2 | 37.8 |

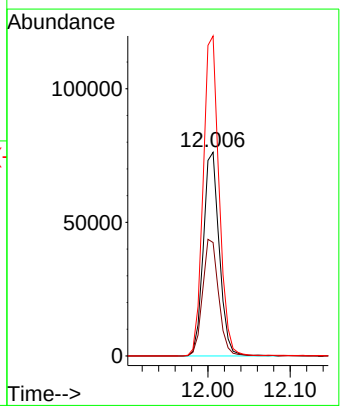



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048734.D
Acq: 05 Dec 2025 14:33

Tgt Ion:152 Resp: 102583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.5 | 42.1 | 126.4 |
| 150 | 156.8 | 0.0 | 347.8 |



Raw Data: **VX048735.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 12/03/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 12/03/25 |
| Client Sample ID: | OW-05B-72-120325 | SDG No.: | Q3757 |
| Lab Sample ID: | Q3757-09 | Matrix: | Water |
| Analytical Method: | 8260D Level: LOW | % Solid: | 0 |
| Sample Wt/Vol: | 5 mL Final Vol: 5000 uL | Test: | VOCMS Group3 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 1 | 0.26 | 1.00 | ug/L | 12/05/25 14:54 | VX120525 |
| 75-35-4 | 1,1-Dichloroethene | 0.85 | J | 1 | 0.23 | 1.00 | ug/L | 12/05/25 14:54 | VX120525 |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/05/25 14:54 | VX120525 |
| 156-59-2 | cis-1,2-Dichloroethene | 2.20 | | 1 | 0.19 | 1.00 | ug/L | 12/05/25 14:54 | VX120525 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1 | 0.20 | 1.00 | ug/L | 12/05/25 14:54 | VX120525 |
| 71-43-2 | Benzene | 0.15 | U | 1 | 0.15 | 1.00 | ug/L | 12/05/25 14:54 | VX120525 |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 1 | 0.22 | 1.00 | ug/L | 12/05/25 14:54 | VX120525 |
| 79-01-6 | Trichloroethene | 0.44 | J | 1 | 0.090 | 1.00 | ug/L | 12/05/25 14:54 | VX120525 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 1 | 0.21 | 1.00 | ug/L | 12/05/25 14:54 | VX120525 |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/05/25 14:54 | VX120525 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 58.8 | | | 70 (74) - 130 (125) | 118% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 39.7 | | | 70 (75) - 130 (124) | 79% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 38.2 | | | 70 (86) - 130 (113) | 76% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 45.0 | | | 70 (77) - 130 (121) | 90% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 129000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 275000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 209000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 103000 | | | | | | | |

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_X\Data\VX120525\
Data File : VX048735.D
Acq On : 05 Dec 2025 14:54
Operator : JC/MD
Sample : Q3757-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
OW-05B-72-120325

Quant Time: Dec 05 22:05:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 129477 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.745 | 114 | 275147 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 208806 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152 | 103213 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.940 | 65 | 102254 | 58.840 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = 117.680%# | | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 75188 | 39.688 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 79.380% | | | |
| 50) Toluene-d8 | 8.635 | 98 | 253556 | 38.182 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = 76.360%# | | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 103159 | 45.048 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = 90.100% | | | |
| Target Compounds | | | | | | Qvalue |
| 12) 1,1-Dichloroethene | 2.331 | 96 | 1284 | 0.854 | ug/l # | 81 |
| 16) Acetone | 2.380 | 43 | 2234 | 3.358 | ug/l | 91 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 3749 | 2.165 | ug/l | 92 |
| 44) Trichloroethene | 7.110 | 130 | 883 | 0.440 | ug/l | 86 |

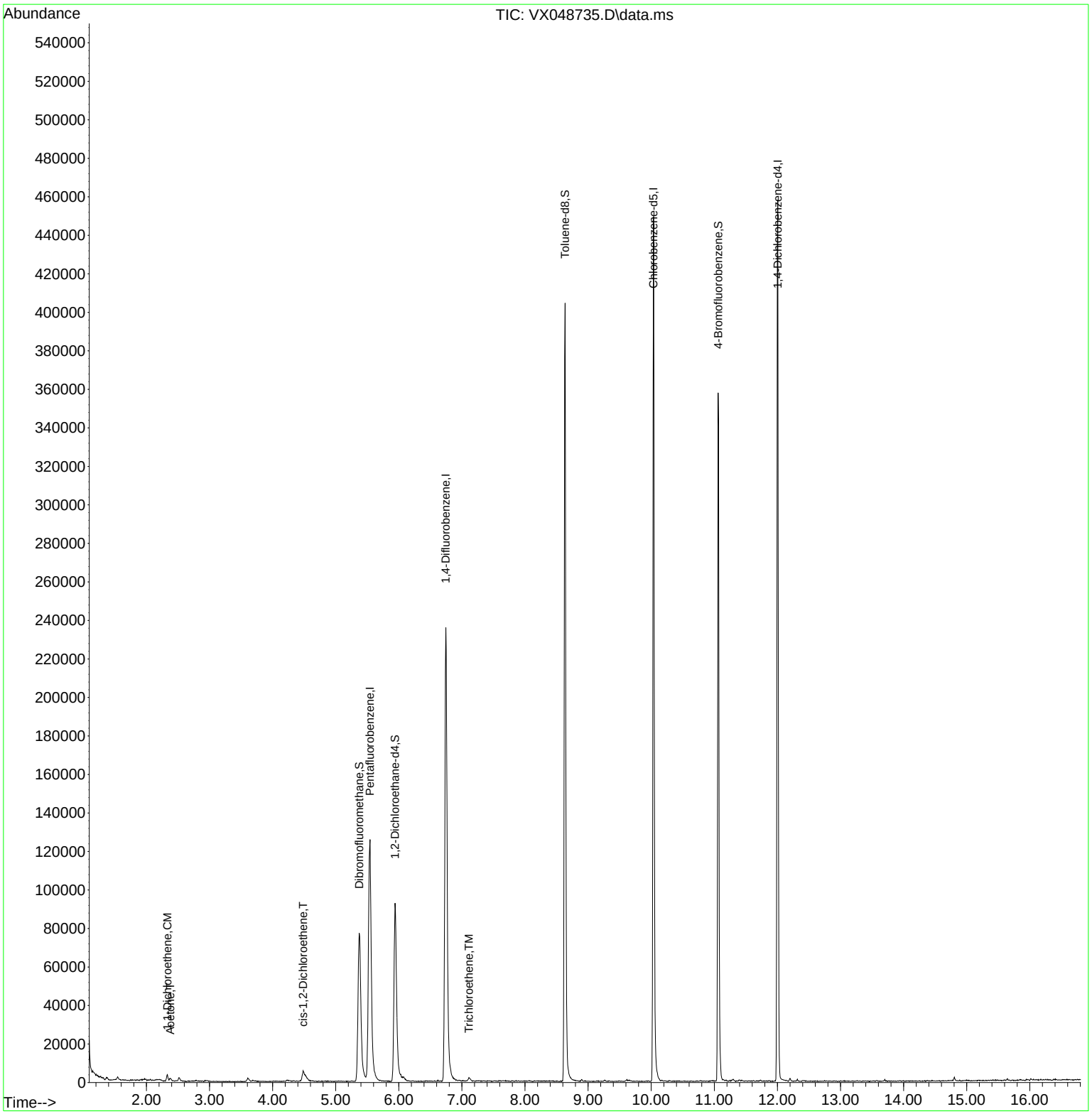
(#) = qualifier out of range (m) = manual integration (+) = signals summed

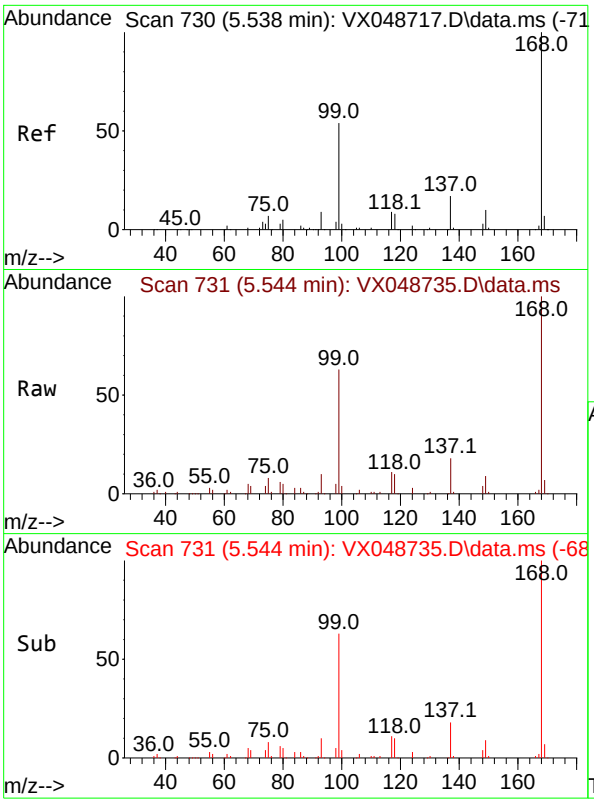
Sample Results: **VX048735.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048735.D
Acq On : 05 Dec 2025 14:54
Operator : JC/MD
Sample : Q3757-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
OW-05B-72-120325

Quant Time: Dec 05 22:05:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration



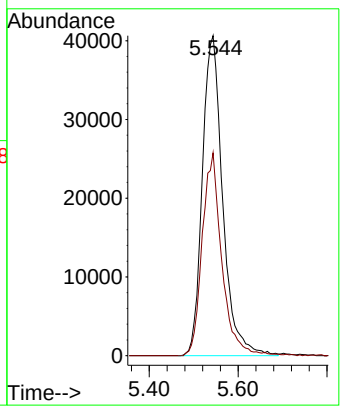


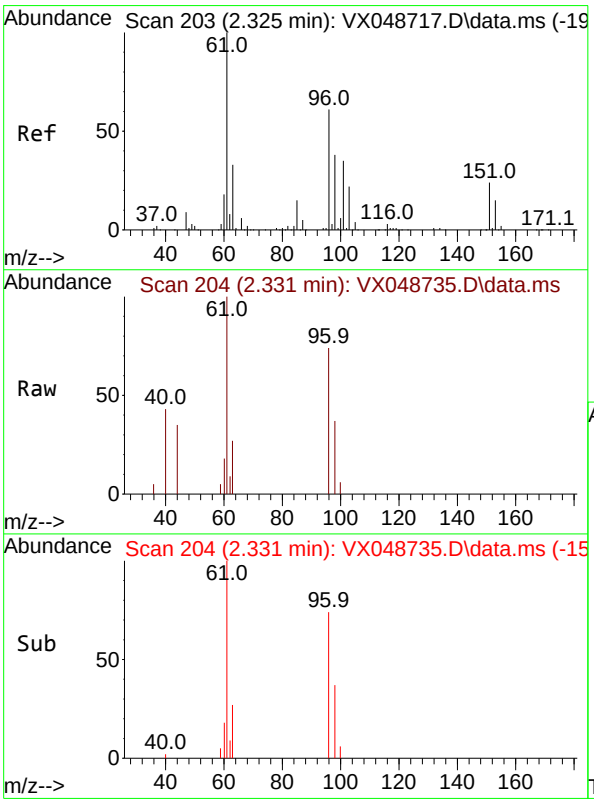

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX048735.D
Acq: 05 Dec 2025 14:54

**Instrument :**
MSVOA_X
**ClientSampleId :**
OW-05B-72-120325

Tgt Ion:168 Resp: 129477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.4 | 44.2 | 66.4 |

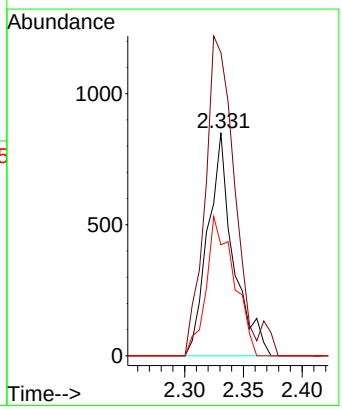


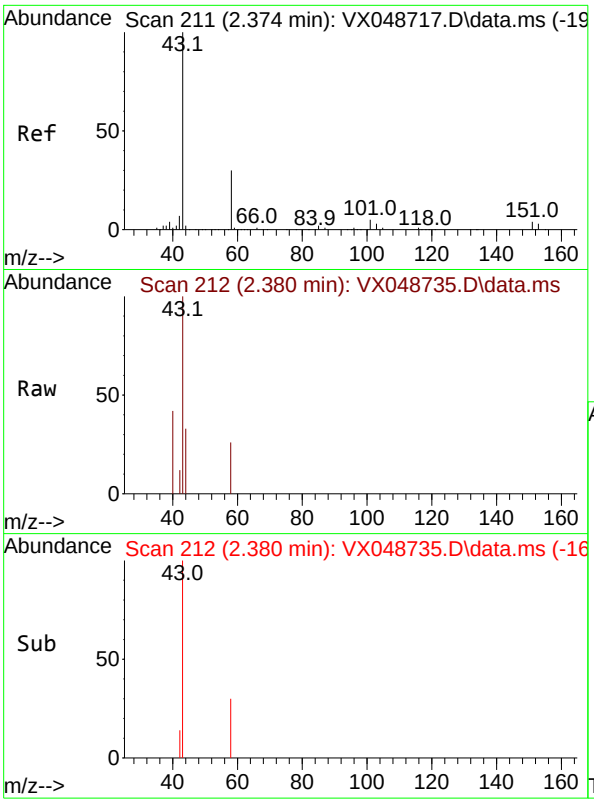




#12
1,1-Dichloroethene
Concen: 0.854 ug/l
RT: 2.331 min Scan# 204
Delta R.T. 0.006 min
Lab File: VX048735.D
Acq: 05 Dec 2025 14:54

Tgt Ion: 96 Resp: 1284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.8 | 130.7 | 196.1 |
| 98 | 49.7 | 49.8 | 74.8# |



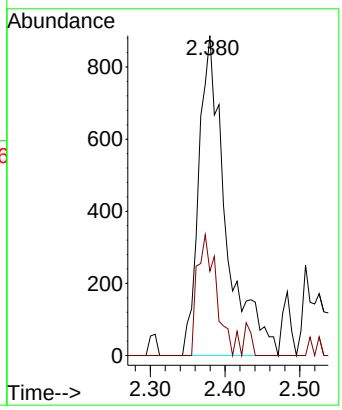


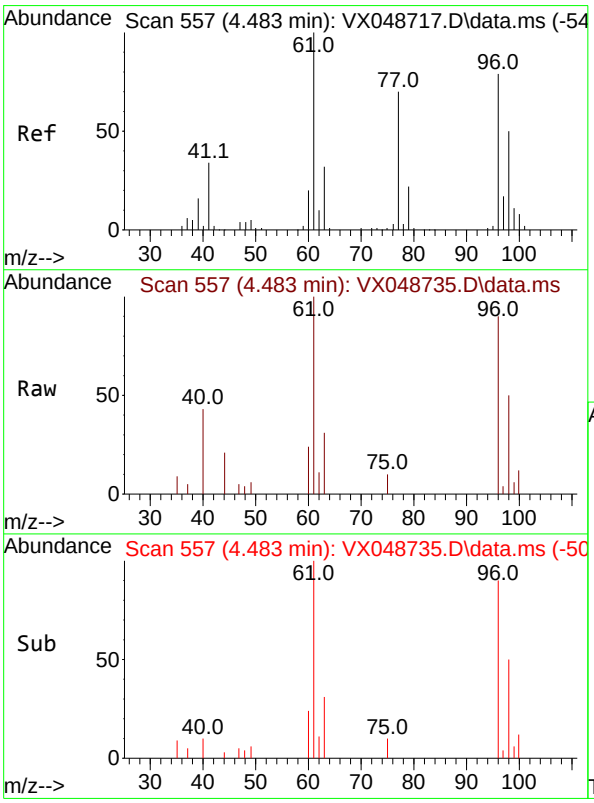

#16
Acetone
Concen: 3.358 ug/l
RT: 2.380 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048735.D
Acq: 05 Dec 2025 14:54

**Instrument :**
MSVOA_X
**ClientSampleId :**
OW-05B-72-120325

Tgt Ion: 43 Resp: 2234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.4 | 25.0 | 37.4 |

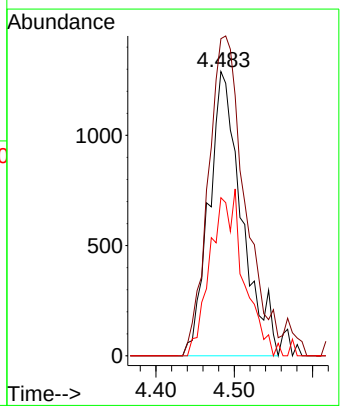


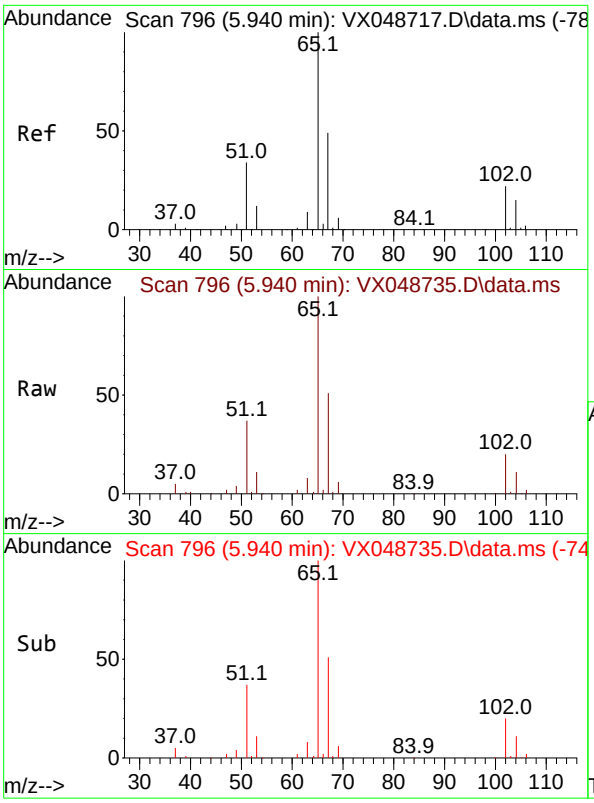




#27
cis-1,2-Dichloroethene
Concen: 2.165 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX048735.D
Acq: 05 Dec 2025 14:54

Tgt Ion: 96 Resp: 3749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 126.3 | 0.0 | 271.0 |
| 98 | 59.3 | 0.0 | 130.2 |



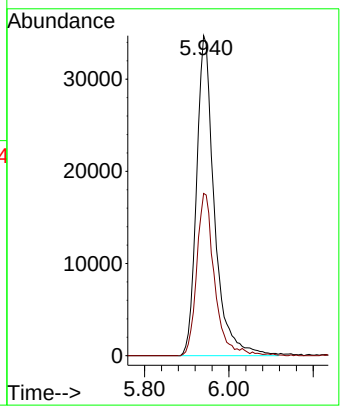


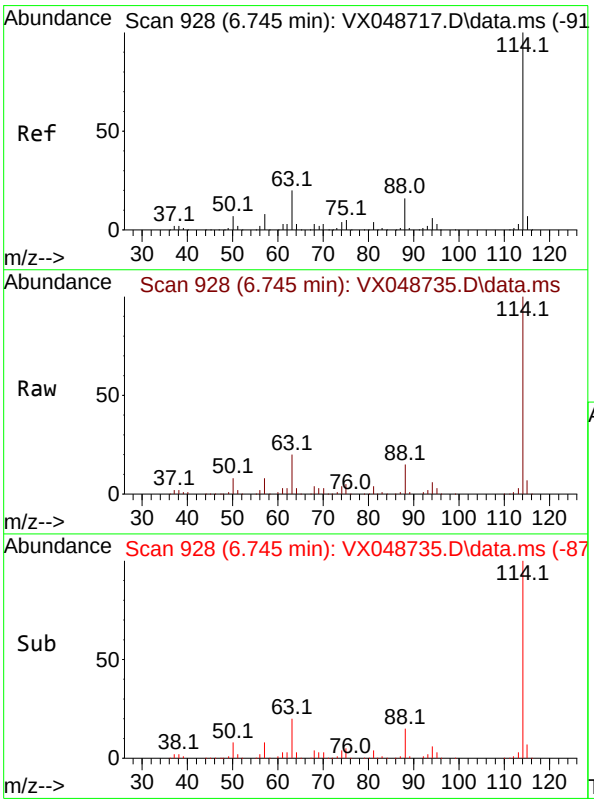

#33
1,2-Dichloroethane-d4
Concen: 58.840 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048735.D
Acq: 05 Dec 2025 14:54

**Instrument :**
MSVOA_X
**ClientSampleId :**
OW-05B-72-120325

Tgt Ion: 65 Resp: 102254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.2 | 0.0 | 107.4 |

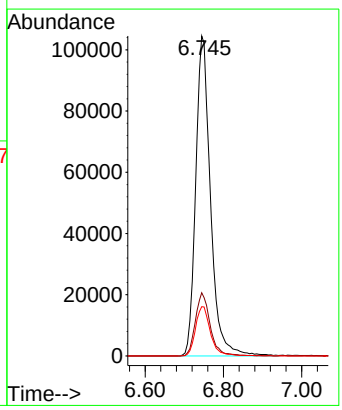


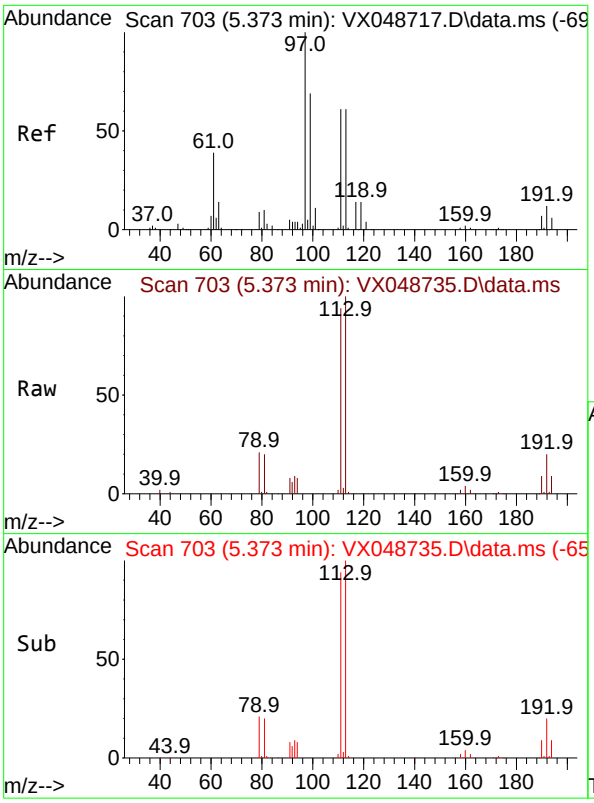




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048735.D
Acq: 05 Dec 2025 14:54

Tgt Ion:114 Resp: 275147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 39.0 |
| 88 | 15.4 | 0.0 | 31.8 |



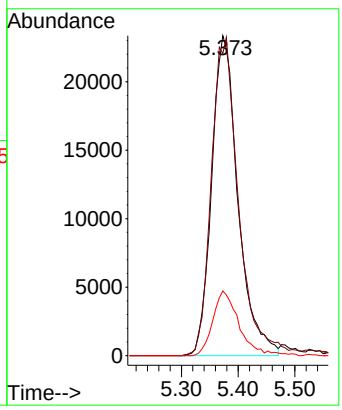


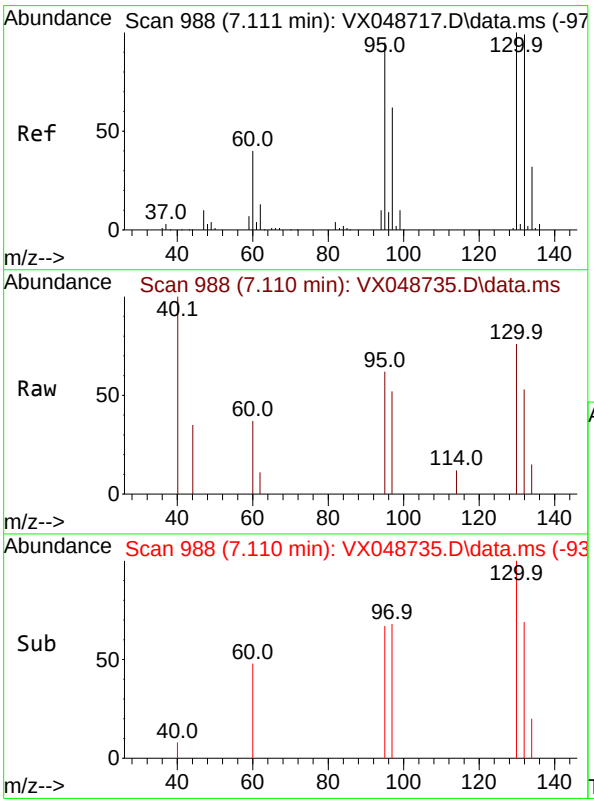

#35
Dibromofluoromethane
Concen: 39.688 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048735.D
Acq: 05 Dec 2025 14:54

**Instrument :**
MSVOA_X
**ClientSampleId :**
OW-05B-72-120325

Tgt Ion:113 Resp: 75188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.3 | 79.5 | 119.3 |
| 192 | 20.3 | 16.1 | 24.1 |

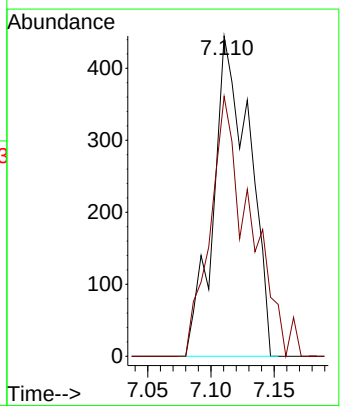


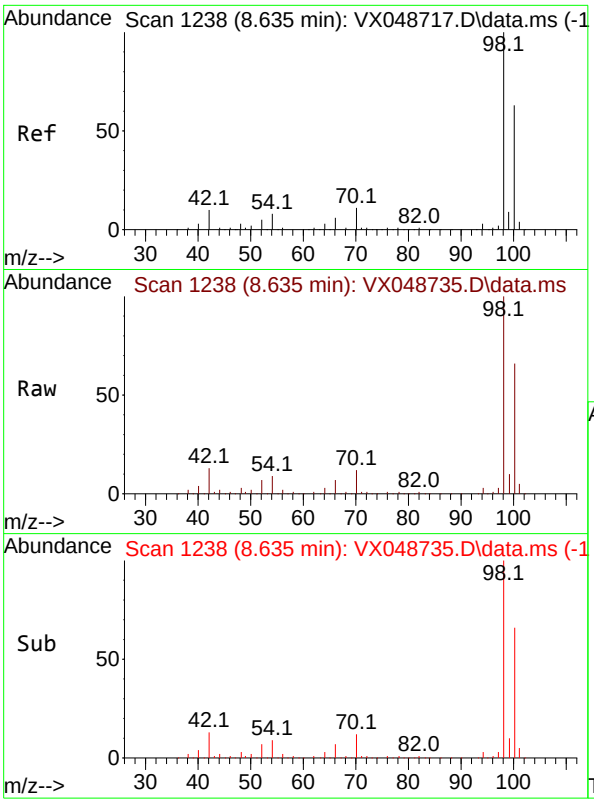




#44
Trichloroethene
Concen: 0.440 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX048735.D
Acq: 05 Dec 2025 14:54

Tgt Ion:130 Resp: 883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 81.1 | 0.0 | 189.6 |



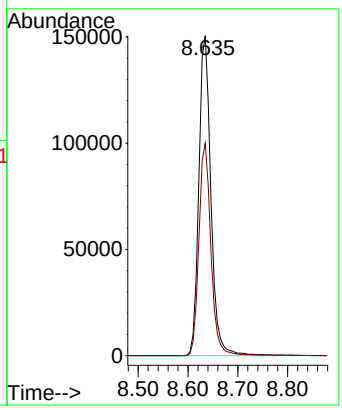


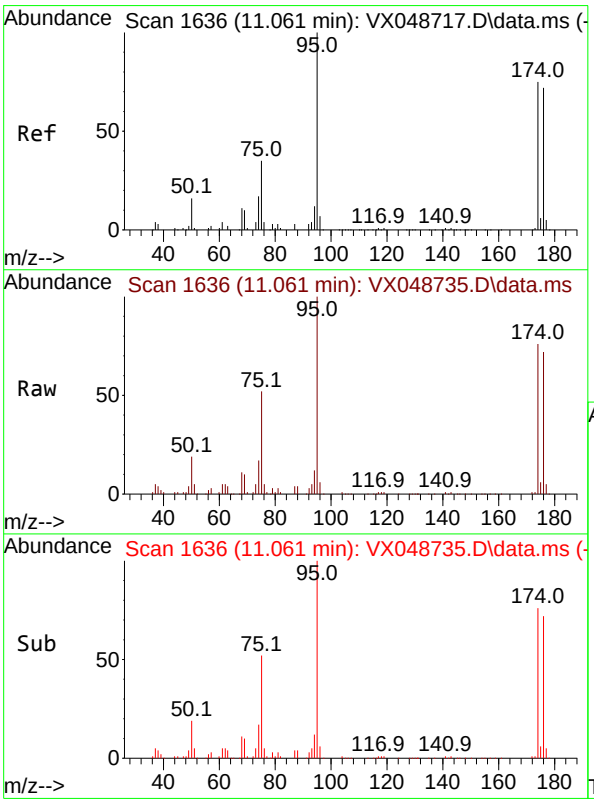

#50
Toluene-d8
Concen: 38.182 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048735.D
Acq: 05 Dec 2025 14:54

**Instrument :**
MSVOA_X
**ClientSampleId :**
OW-05B-72-120325

Tgt Ion: 98 Resp: 253556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.0 | 53.4 | 80.0 |

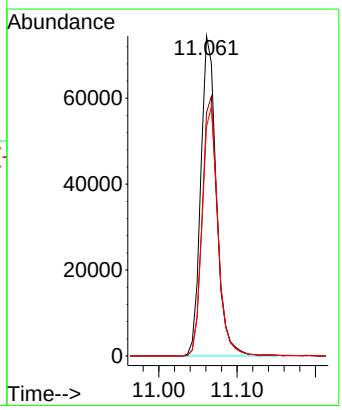


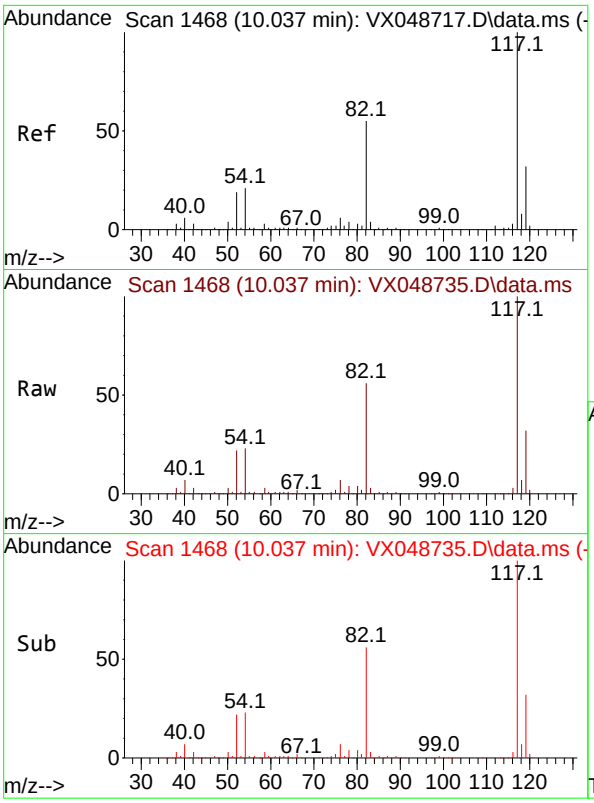




#62
4-Bromofluorobenzene
Concen: 45.048 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048735.D
Acq: 05 Dec 2025 14:54

Tgt Ion: 95 Resp: 103159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.5 | 0.0 | 157.8 |
| 176 | 78.5 | 0.0 | 154.0 |



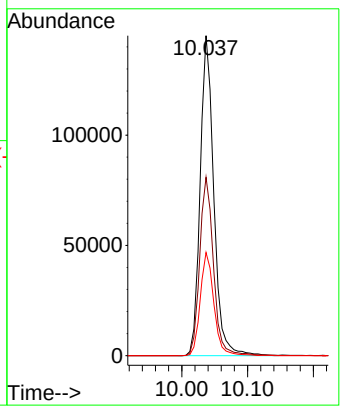


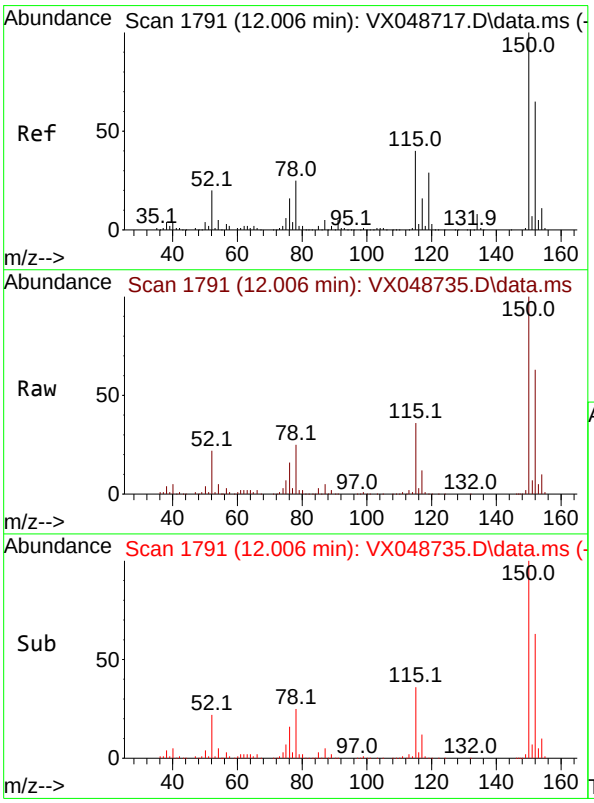

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048735.D
Acq: 05 Dec 2025 14:54

**Instrument :**
MSVOA_X
**ClientSampleId :**
OW-05B-72-120325

Tgt Ion:117 Resp: 208806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.8 | 44.1 | 66.1 |
| 119 | 32.3 | 25.2 | 37.8 |

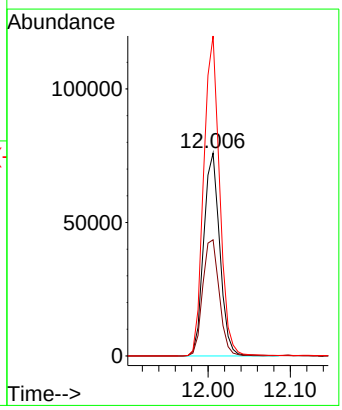



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048735.D
Acq: 05 Dec 2025 14:54

Tgt Ion:152 Resp: 103213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.1 | 42.1 | 126.4 |
| 150 | 156.2 | 0.0 | 347.8 |



Raw Data: **VX048748.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 12/03/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 12/03/25 |
| Client Sample ID: | OW-05B-72-120325RE | SDG No.: | Q3757 |
| Lab Sample ID: | Q3757-09RE | Matrix: | Water |
| Analytical Method: | 8260D Level: LOW | % Solid: | 0 |
| Sample Wt/Vol: | 5 mL Final Vol: 5000 uL | Test: | VOCMS Group3 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 1 | 0.26 | 1.00 | ug/L | 12/08/25 12:53 | VX120825 |
| 75-35-4 | 1,1-Dichloroethene | 0.60 | J | 1 | 0.23 | 1.00 | ug/L | 12/08/25 12:53 | VX120825 |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/08/25 12:53 | VX120825 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.50 | | 1 | 0.19 | 1.00 | ug/L | 12/08/25 12:53 | VX120825 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1 | 0.20 | 1.00 | ug/L | 12/08/25 12:53 | VX120825 |
| 71-43-2 | Benzene | 0.15 | U | 1 | 0.15 | 1.00 | ug/L | 12/08/25 12:53 | VX120825 |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 1 | 0.22 | 1.00 | ug/L | 12/08/25 12:53 | VX120825 |
| 79-01-6 | Trichloroethene | 0.25 | J | 1 | 0.090 | 1.00 | ug/L | 12/08/25 12:53 | VX120825 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 1 | 0.21 | 1.00 | ug/L | 12/08/25 12:53 | VX120825 |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/08/25 12:53 | VX120825 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 62.9 | | | 70 (74) - 130 (125) | 126% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 39.6 | | | 70 (75) - 130 (124) | 79% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 47.0 | | | 70 (86) - 130 (113) | 94% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 56.1 | | | 70 (77) - 130 (121) | 112% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 169000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 410000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 414000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 198000 | | | | | | | |

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: **VX048748.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048748.D
Acq On : 08 Dec 2025 12:53
Operator : JC/MD
Sample : Q3757-09RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
OW-05B-72-120325RE

Quant Time: Dec 09 04:09:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.537 | 168 | 169111 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.744 | 114 | 409831 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.036 | 117 | 413547 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152 | 197728 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.940 | 65 | 142724 | 62.880 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = 125.760%# | | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 111782 | 39.613 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 79.220% | | | |
| 50) Toluene-d8 | 8.634 | 98 | 465280 | 47.039 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = 94.080% | | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 191359 | 56.102 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = 112.200% | | | |
| Target Compounds | | | | | | Qvalue |
| 12) 1,1-Dichloroethene | 2.324 | 96 | 1182 | 0.602 | ug/l | 86 |
| 16) Acetone | 2.373 | 43 | 2059 | 2.370 | ug/l | 89 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 3429 | 1.516 | ug/l | 60 |
| 44) Trichloroethene | 7.116 | 130 | 749 | 0.251 | ug/l | 62 |

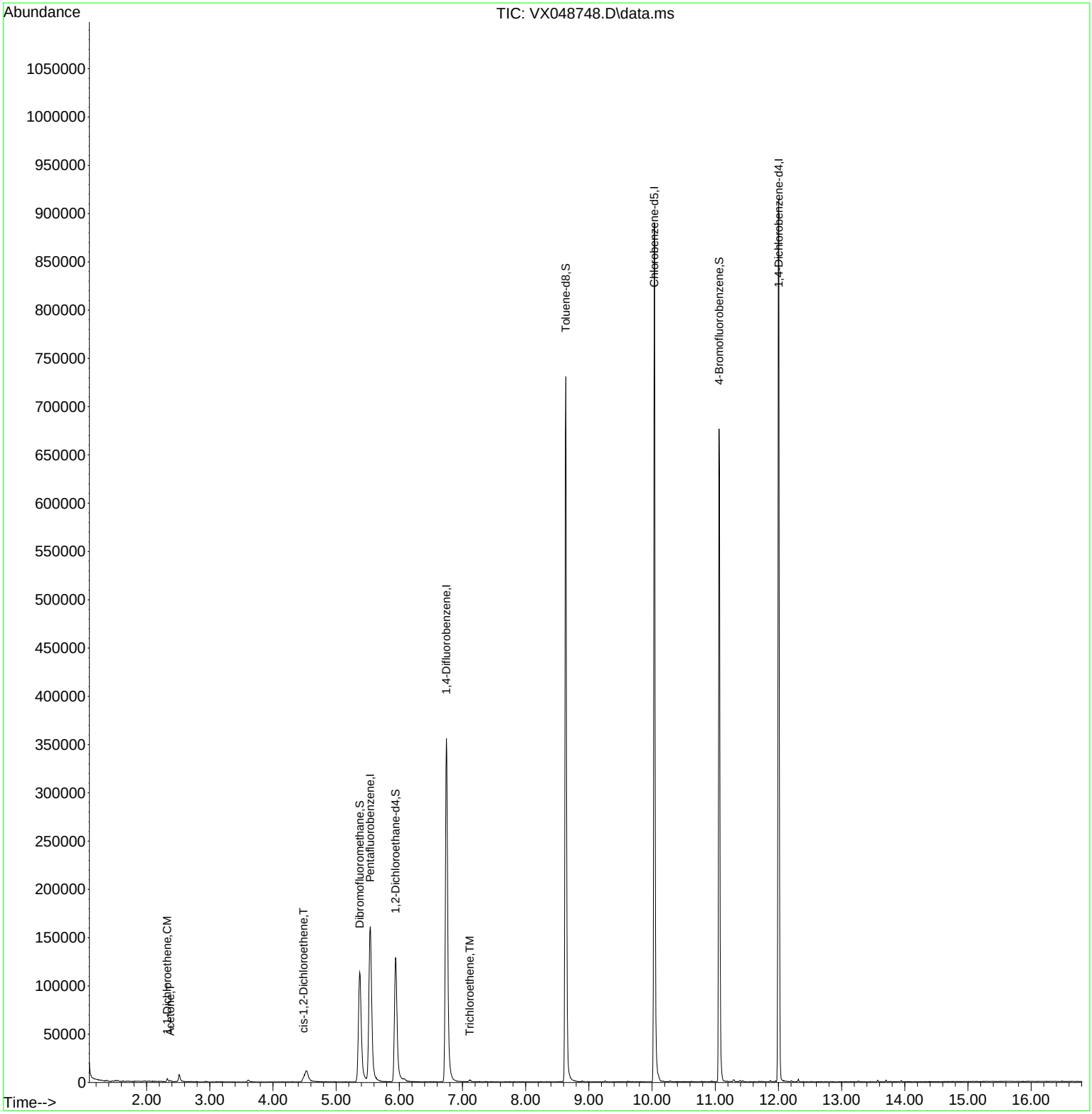
(#) = qualifier out of range (m) = manual integration (+) = signals summed

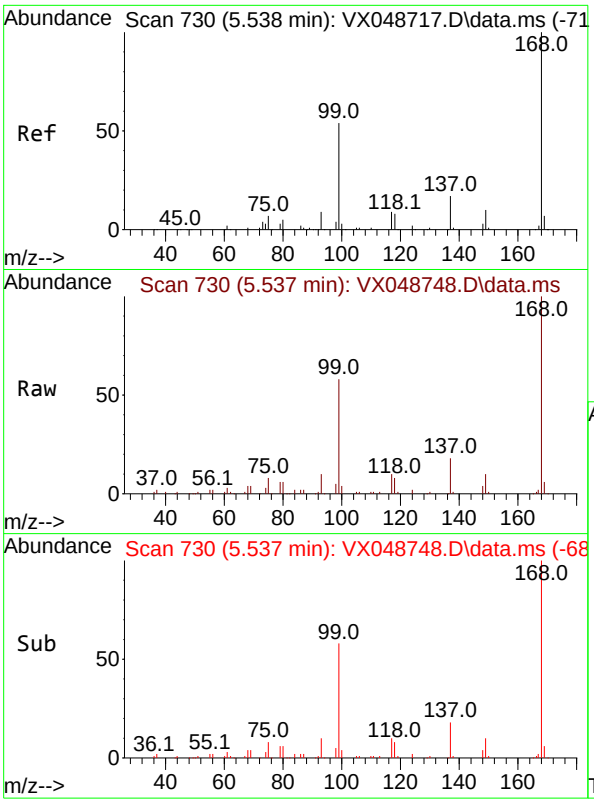
Sample Results: **VX048748.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048748.D
Acq On : 08 Dec 2025 12:53
Operator : JC/MD
Sample : Q3757-09RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
OW-05B-72-120325RE

Quant Time: Dec 09 04:09:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration



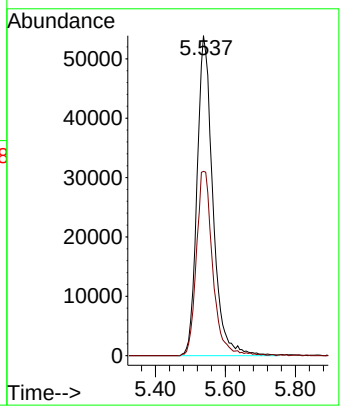


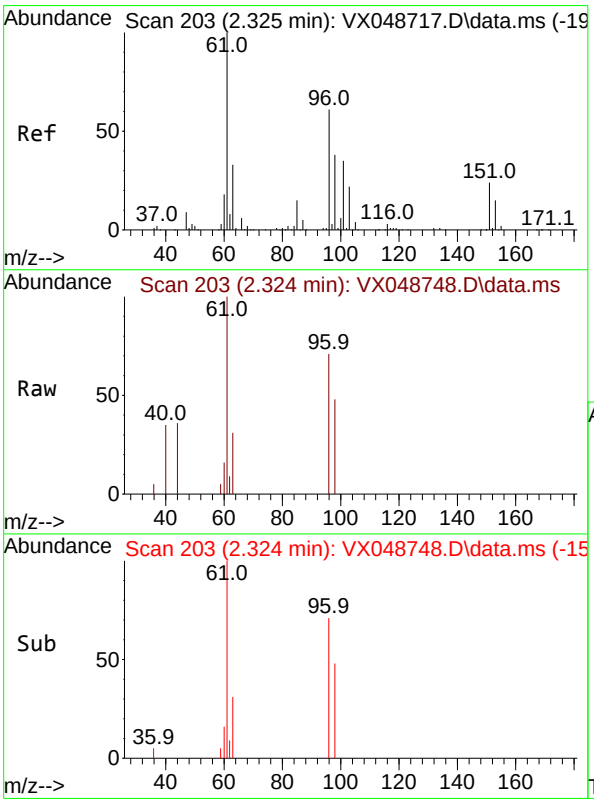

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.001 min
Lab File: VX048748.D
Acq: 08 Dec 2025 12:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
OW-05B-72-120325RE

Tgt Ion:168 Resp: 169111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.6 | 44.2 | 66.4 |

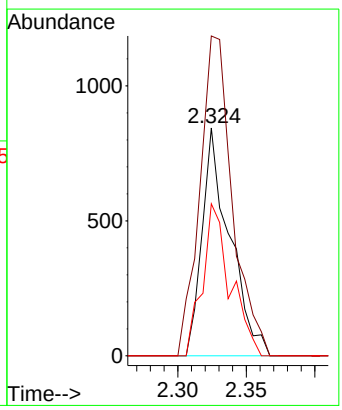


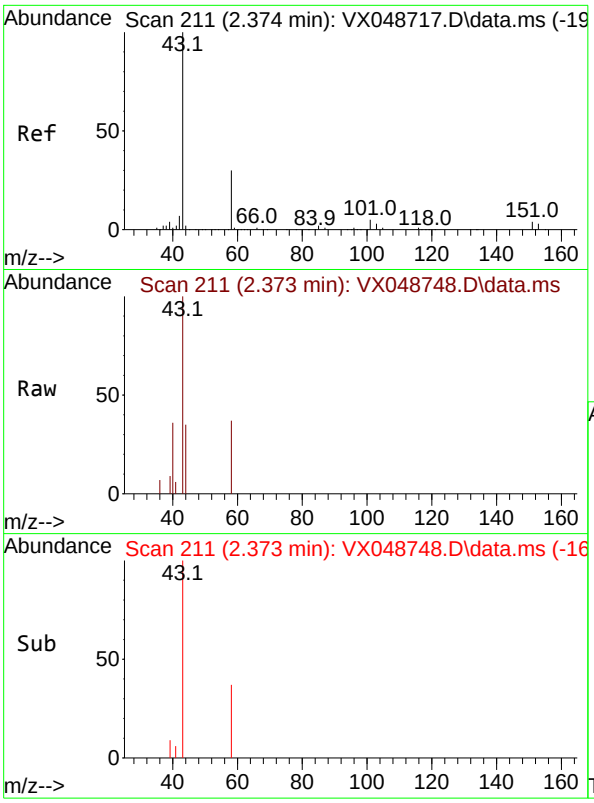




#12
1,1-Dichloroethene
Concen: 0.602 ug/l
RT: 2.324 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048748.D
Acq: 08 Dec 2025 12:53

Tgt Ion: 96 Resp: 1182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 140.4 | 130.7 | 196.1 |
| 98 | 66.7 | 49.8 | 74.8 |



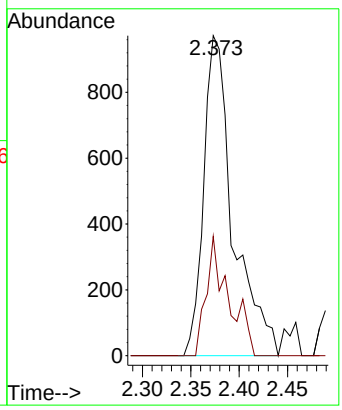


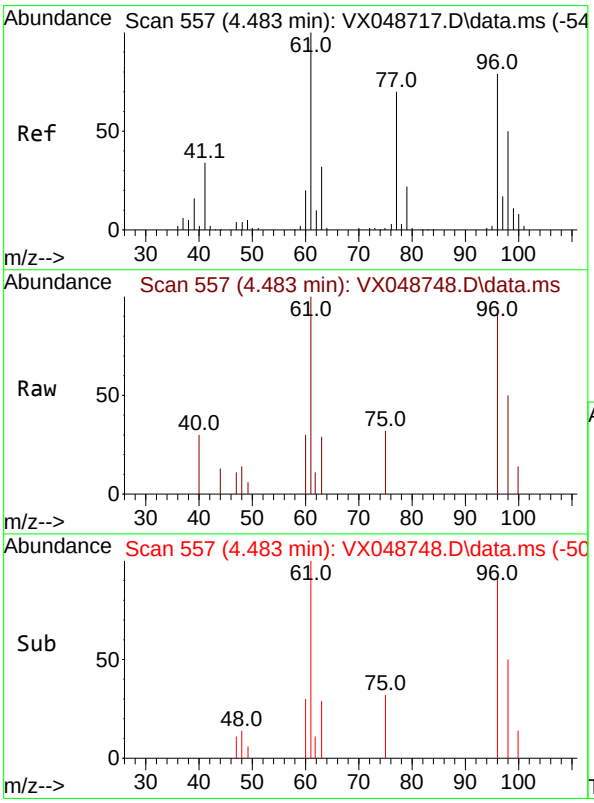

#16
Acetone
Concen: 2.370 ug/l
RT: 2.373 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX048748.D
Acq: 08 Dec 2025 12:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
OW-05B-72-120325RE

Tgt Ion: 43 Resp: 2059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.2 | 25.0 | 37.4 |

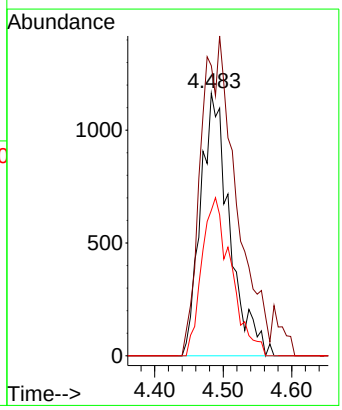


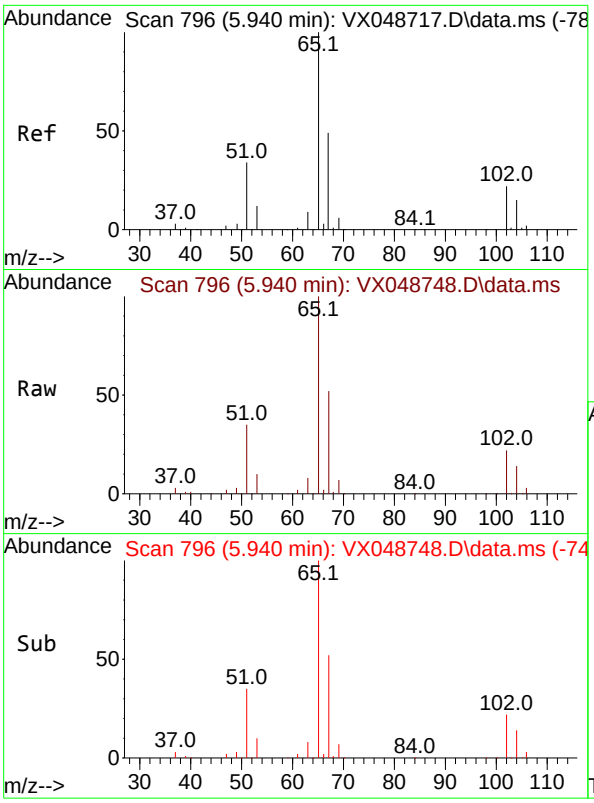




#27
cis-1,2-Dichloroethene
Concen: 1.516 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX048748.D
Acq: 08 Dec 2025 12:53

Tgt Ion: 96 Resp: 3429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 67.6 | 0.0 | 271.0 |
| 98 | 61.1 | 0.0 | 130.2 |



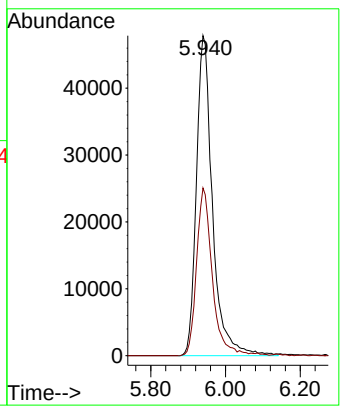


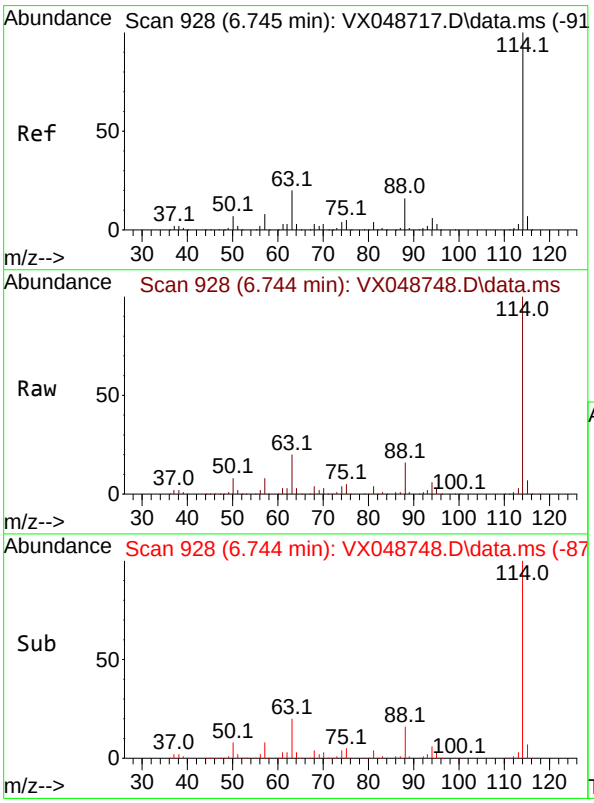

#33
1,2-Dichloroethane-d4
Concen: 62.880 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048748.D
Acq: 08 Dec 2025 12:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
OW-05B-72-120325RE

Tgt Ion: 65 Resp: 142724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.7 | 0.0 | 107.4 |

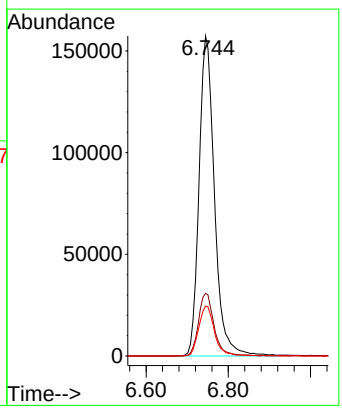


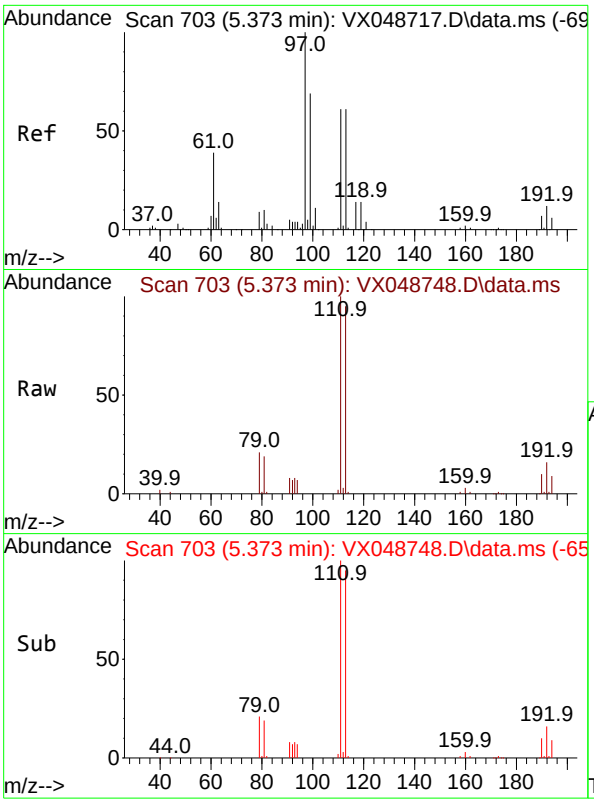




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.744 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048748.D
Acq: 08 Dec 2025 12:53

Tgt Ion:114 Resp: 409831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.5 | 0.0 | 39.0 |
| 88 | 15.6 | 0.0 | 31.8 |



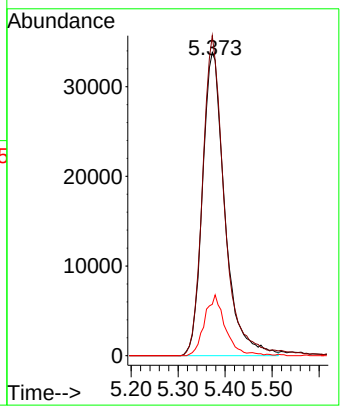


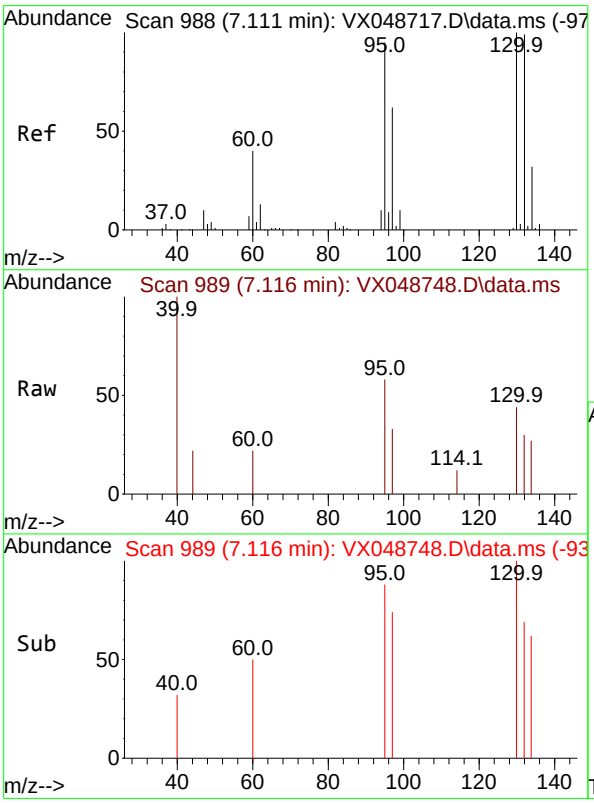

#35
Dibromofluoromethane
Concen: 39.613 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX048748.D
Acq: 08 Dec 2025 12:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
OW-05B-72-120325RE

Tgt Ion:113 Resp: 111782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.7 | 79.5 | 119.3 |
| 192 | 18.7 | 16.1 | 24.1 |

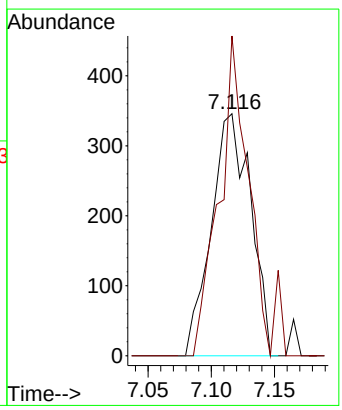


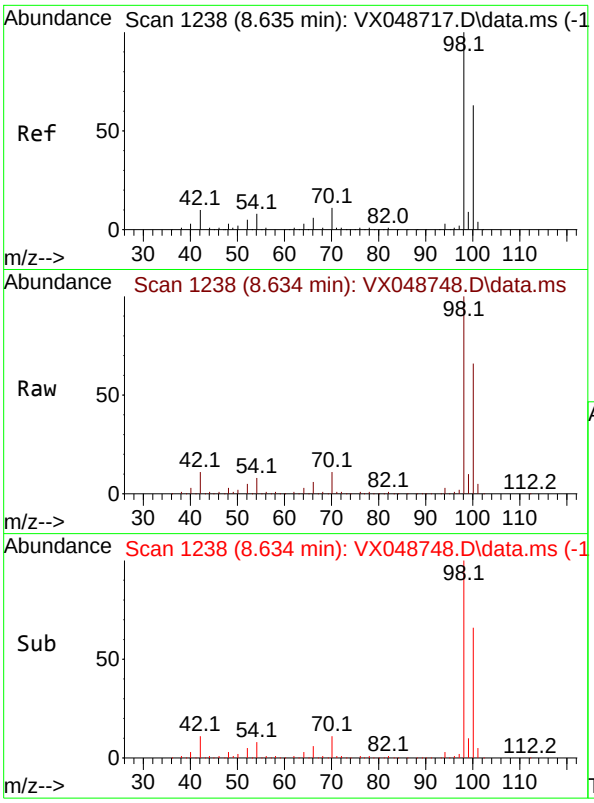




#44
Trichloroethene
Concen: 0.251 ug/l
RT: 7.116 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX048748.D
Acq: 08 Dec 2025 12:53

Tgt Ion:130 Resp: 749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 132.1 | 0.0 | 189.6 |



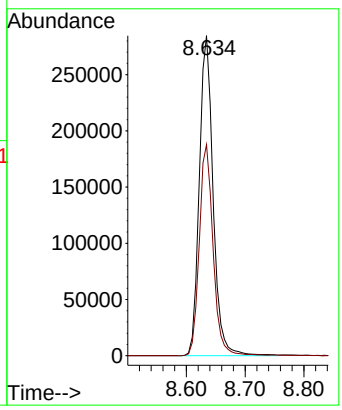


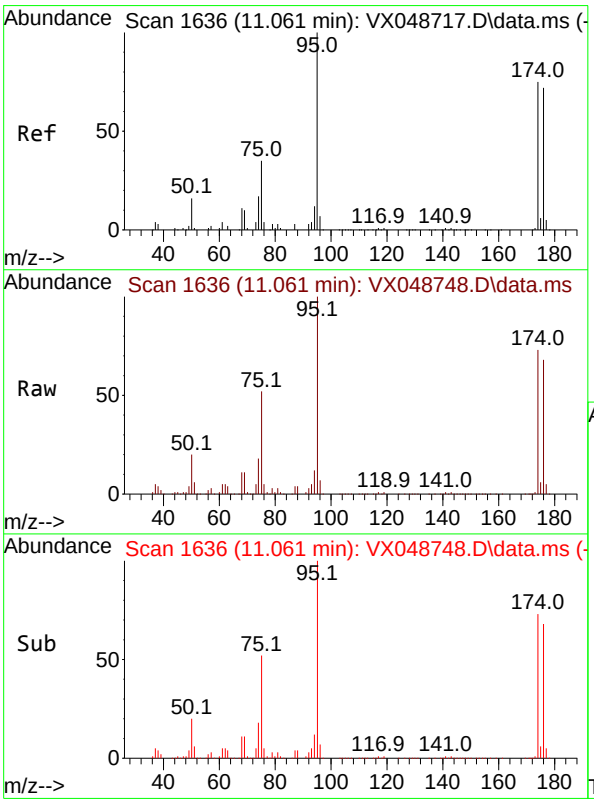

#50
Toluene-d8
Concen: 47.039 ug/l
RT: 8.634 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048748.D
Acq: 08 Dec 2025 12:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
OW-05B-72-120325RE

Tgt Ion: 98 Resp: 465280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.2 | 53.4 | 80.0 |

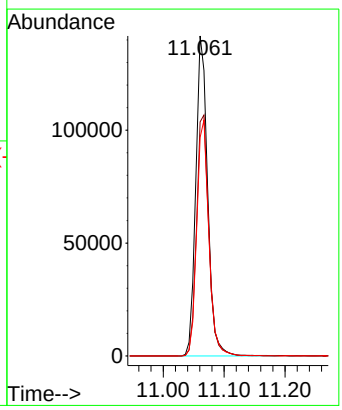


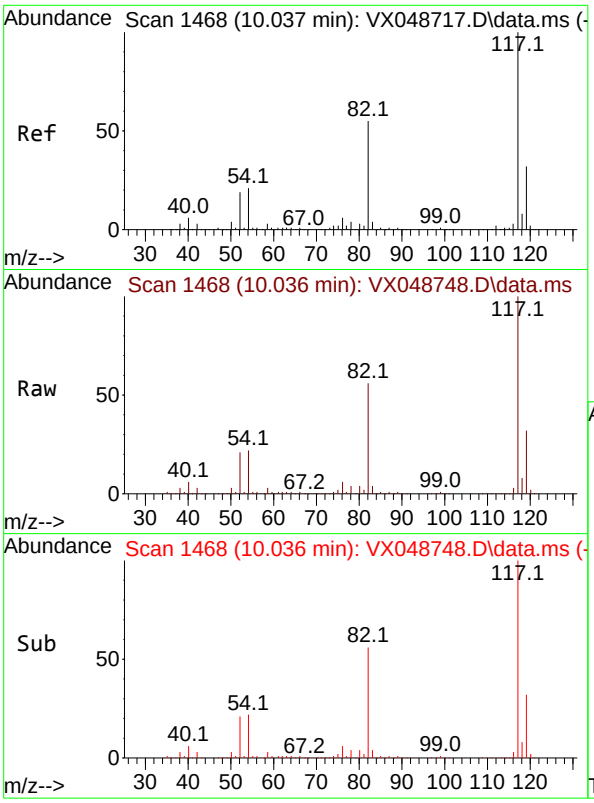




#62
4-Bromofluorobenzene
Concen: 56.102 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048748.D
Acq: 08 Dec 2025 12:53

Tgt Ion: 95 Resp: 191359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 77.9 | 0.0 | 157.8 |
| 176 | 75.0 | 0.0 | 154.0 |



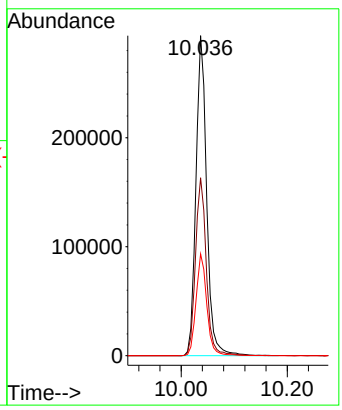


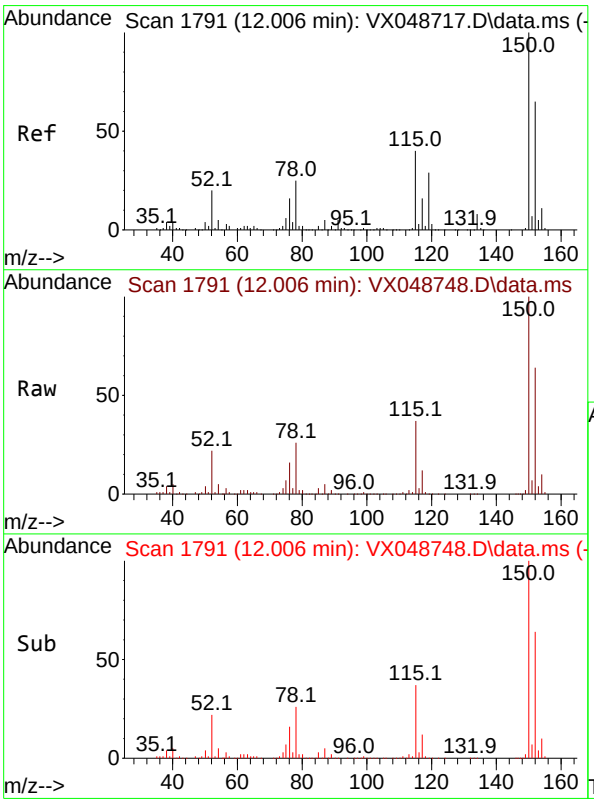

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.036 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048748.D
Acq: 08 Dec 2025 12:53

**Instrument :**
MSVOA_X
**ClientSampleId :**
OW-05B-72-120325RE

Tgt Ion:117 Resp: 413547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.6 | 44.1 | 66.1 |
| 119 | 31.8 | 25.2 | 37.8 |

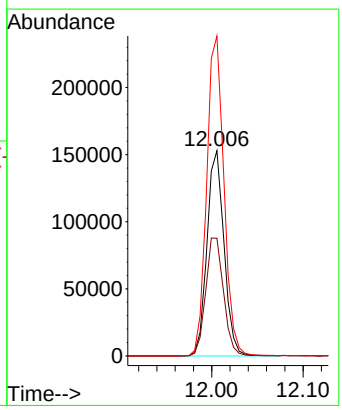



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048748.D
Acq: 08 Dec 2025 12:53

Tgt Ion:152 Resp: 197728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.2 | 42.1 | 126.4 |
| 150 | 157.5 | 0.0 | 347.8 |



Raw Data: **VN088450.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 12/03/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 12/03/25 |
| Client Sample ID: | EB01-120325 | SDG No.: | Q3757 |
| Lab Sample ID: | Q3757-11 | Matrix: | Water |
| Analytical Method: | 8260D Level: LOW | % Solid: | 0 |
| Sample Wt/Vol: | 5 mL Final Vol: 5000 uL | Test: | VOCMS Group3 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 1 | 0.26 | 1.00 | ug/L | 12/04/25 16:48 | VN120425 |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/04/25 16:48 | VN120425 |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/04/25 16:48 | VN120425 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 1 | 0.19 | 1.00 | ug/L | 12/04/25 16:48 | VN120425 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1 | 0.20 | 1.00 | ug/L | 12/04/25 16:48 | VN120425 |
| 71-43-2 | Benzene | 0.15 | U | 1 | 0.15 | 1.00 | ug/L | 12/04/25 16:48 | VN120425 |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 1 | 0.22 | 1.00 | ug/L | 12/04/25 16:48 | VN120425 |
| 79-01-6 | Trichloroethene | 0.090 | U | 1 | 0.090 | 1.00 | ug/L | 12/04/25 16:48 | VN120425 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 1 | 0.21 | 1.00 | ug/L | 12/04/25 16:48 | VN120425 |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/04/25 16:48 | VN120425 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.6 | | | 70 (74) - 130 (125) | 107% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 46.9 | | | 70 (75) - 130 (124) | 94% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 44.3 | | | 70 (86) - 130 (113) | 89% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 49.5 | | | 70 (77) - 130 (121) | 99% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 202000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 452000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 440000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 211000 | | | | | | | |

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: **VN088450.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088450.D
Acq On : 04 Dec 2025 16:48
Operator : JC\MD
Sample : Q3757-11
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 05 00:18:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
EB01-120325

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 201753 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.082 | 114 | 451562 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.841 | 117 | 439722 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 210586 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.559 | 65 | 203838 | 53.633 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 107.260% | | | |
| 35) Dibromofluoromethane | 8.147 | 113 | 146660 | 46.867 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 93.740% | | | |
| 50) Toluene-d8 | 10.541 | 98 | 516378 | 44.349 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 88.700% | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 197862 | 49.526 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 99.060% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 4.412 | 43 | 17456m | 12.700 | ug/l | |

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

Sample Results: **VN088450.D**

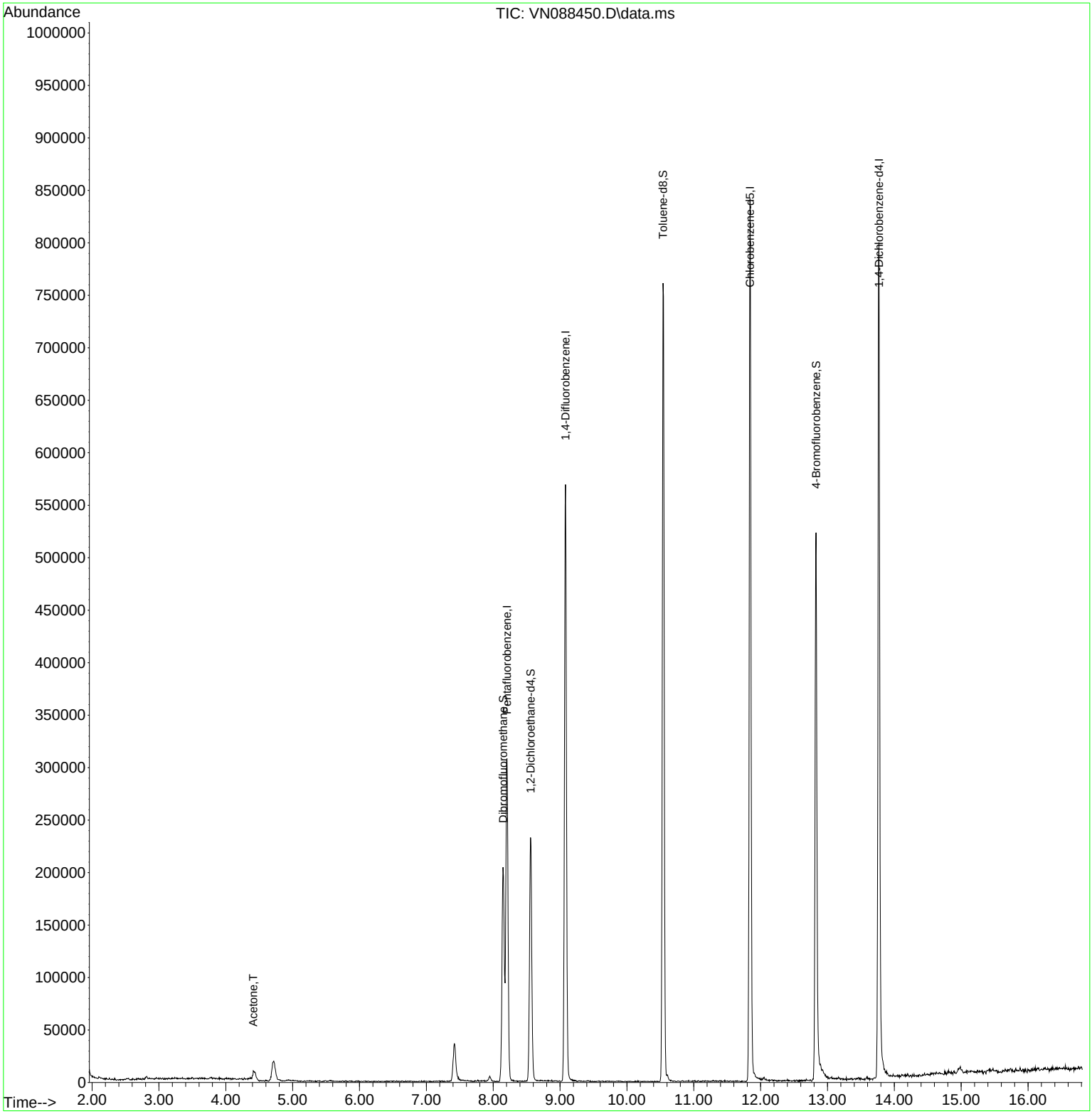
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088450.D
Acq On : 04 Dec 2025 16:48
Operator : JC\MD
Sample : Q3757-11
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

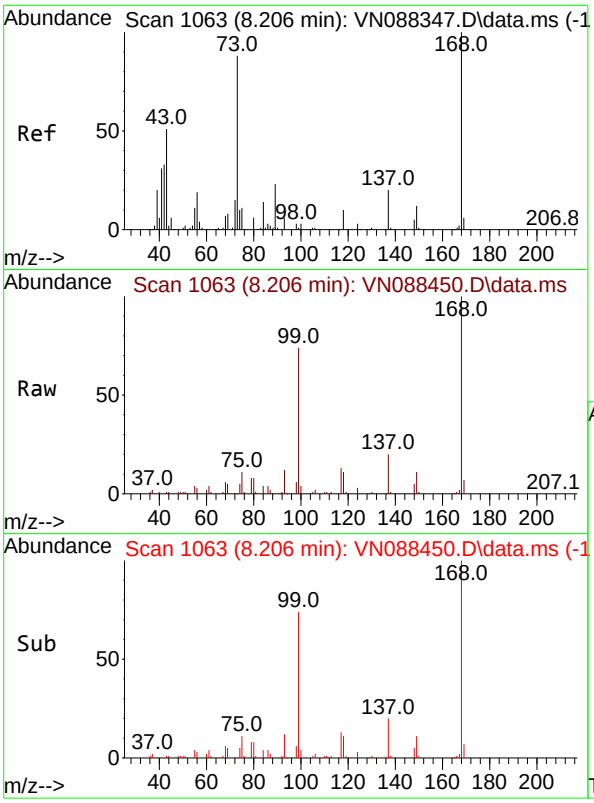
Quant Time: Dec 05 00:18:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
EB01-120325

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

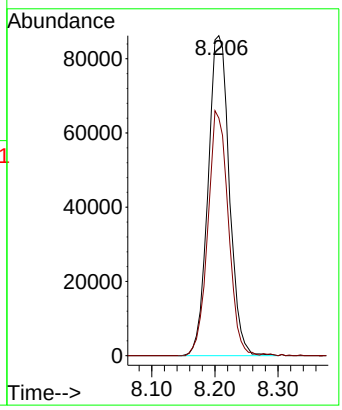





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088450.D
Acq: 04 Dec 2025 16:48

Tgt Ion:168 Resp: 20175

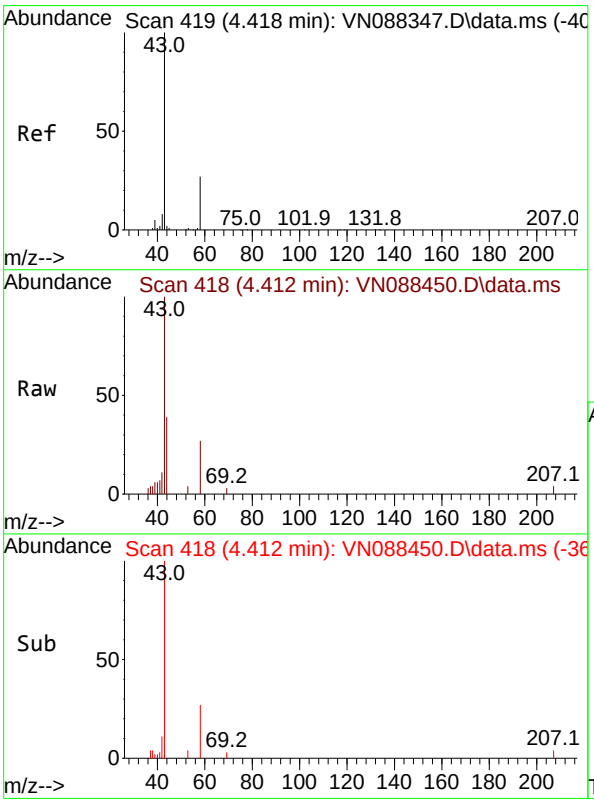
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 74.3 | 57.1 | 85.7 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
EB01-120325

**Manual Integrations**
**APPROVED**

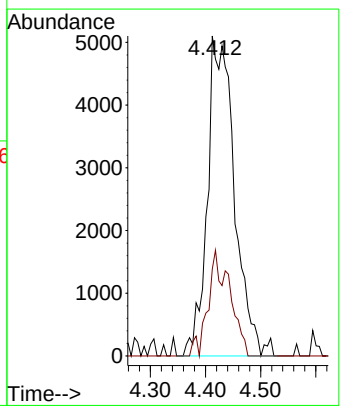
Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

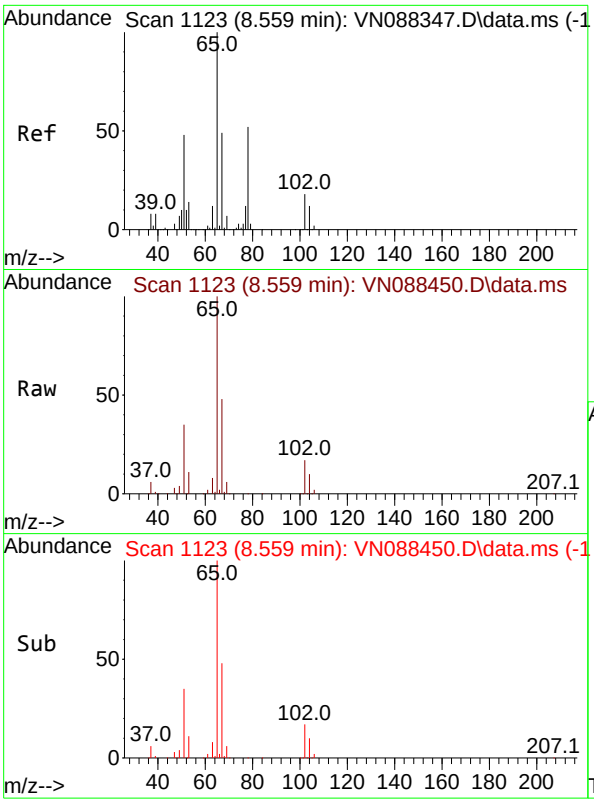



#16
Acetone
Concen: 12.700 ug/l m
RT: 4.412 min Scan# 418
Delta R.T. -0.006 min
Lab File: VN088450.D
Acq: 04 Dec 2025 16:48

Tgt Ion: 43 Resp: 17456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.1 | 21.7 | 32.5 |

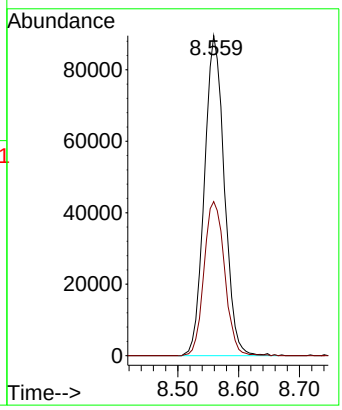





#33
1,2-Dichloroethane-d4
Concen: 53.633 ug/l
RT: 8.559 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088450.D
Acq: 04 Dec 2025 16:48

Tgt Ion: 65 Resp: 20383

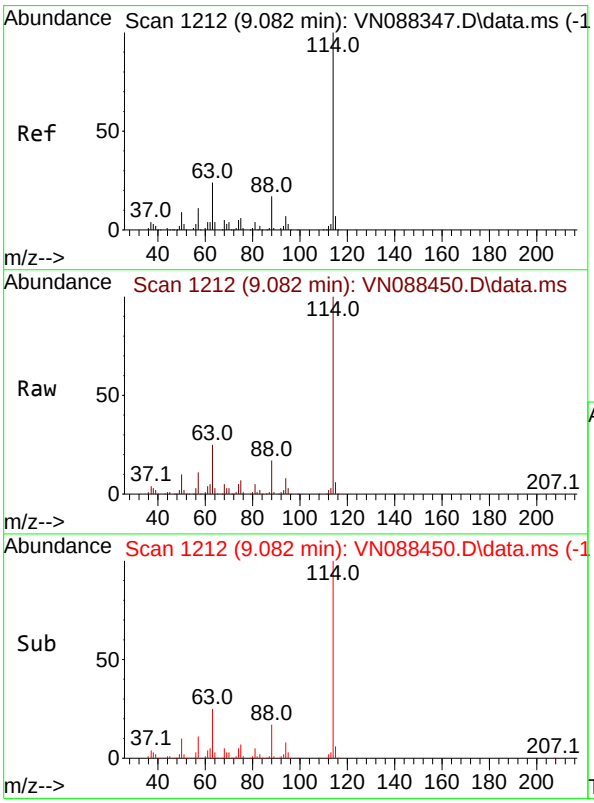
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.7 | 0.0 | 100.8 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
EB01-120325

**Manual Integrations**
**APPROVED**

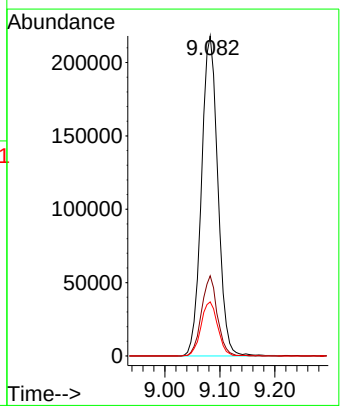
Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

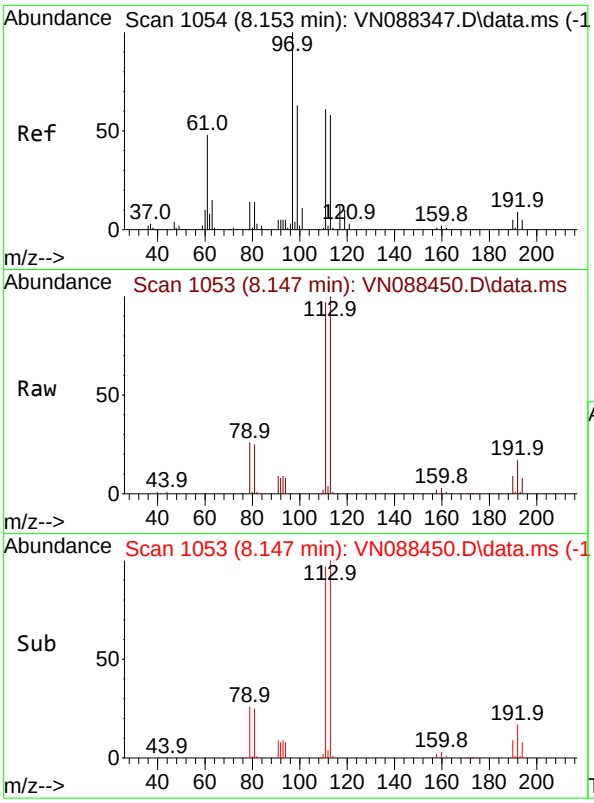



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088450.D
Acq: 04 Dec 2025 16:48

Tgt Ion:114 Resp: 451562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.0 | 0.0 | 49.0 |
| 88 | 16.9 | 0.0 | 34.0 |






#35
Dibromofluoromethane
Concen: 46.867 ug/l
RT: 8.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088450.D
Acq: 04 Dec 2025 16:48

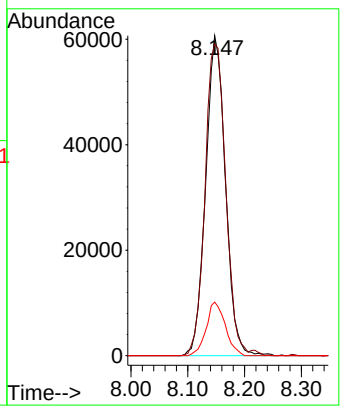
Tgt Ion:113 Resp: 14666

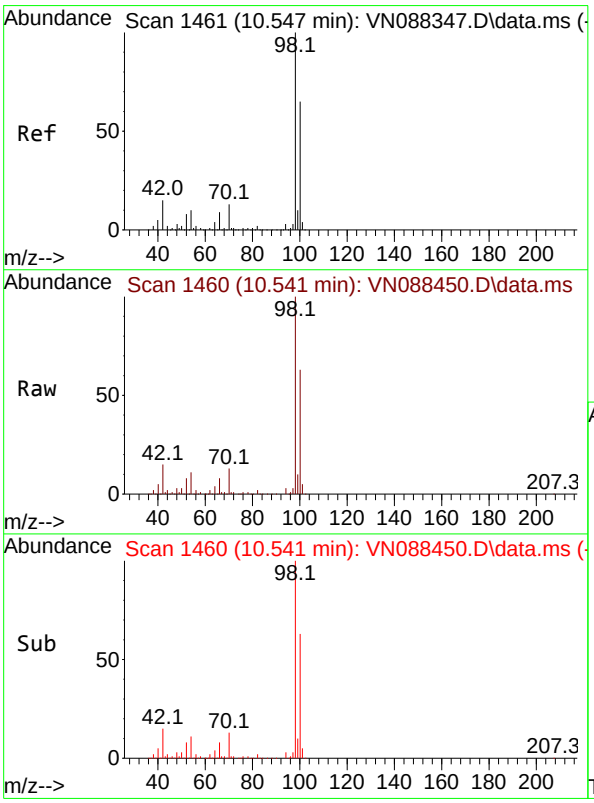
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.9 | 82.5 | 123.7 |
| 192 | 16.2 | 12.8 | 19.2 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
EB01-120325

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

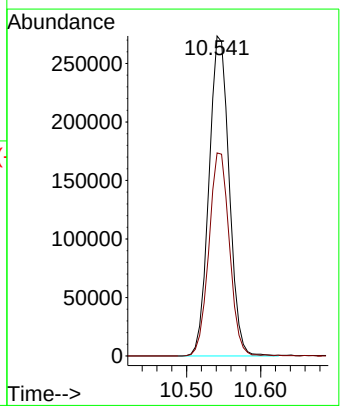


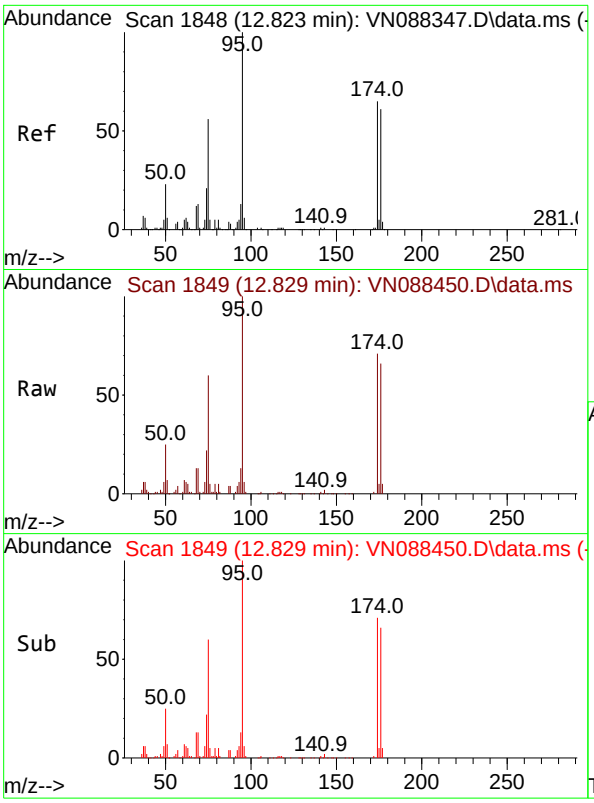




#50
Toluene-d8
Concen: 44.349 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088450.D
Acq: 04 Dec 2025 16:48

Tgt Ion: 98 Resp: 516378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.5 | 52.2 | 78.2 |






#62
4-Bromofluorobenzene
Concen: 49.526 ug/l
RT: 12.829 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088450.D
Acq: 04 Dec 2025 16:48

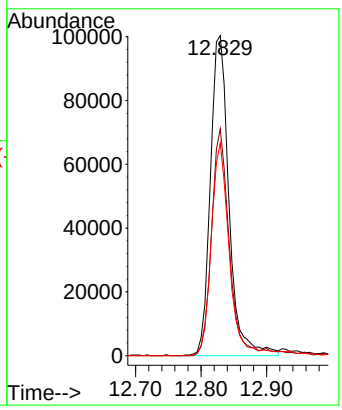
Tgt Ion: 95 Resp: 19786

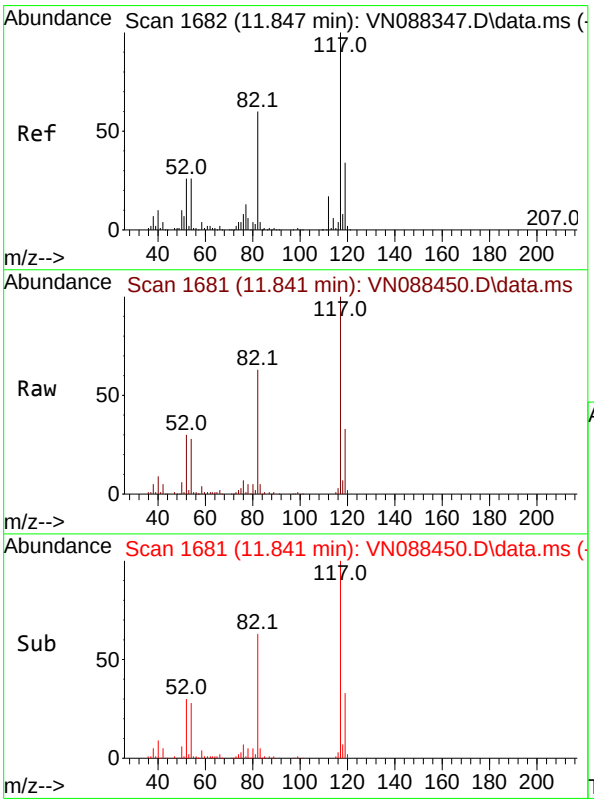
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.5 | 0.0 | 139.0 |
| 176 | 64.3 | 0.0 | 132.4 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
EB01-120325

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

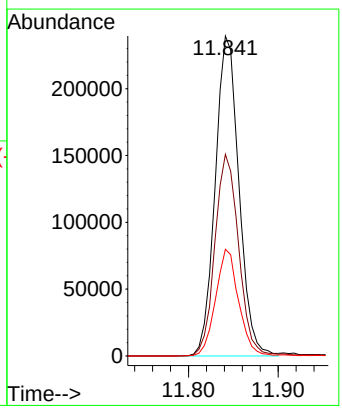


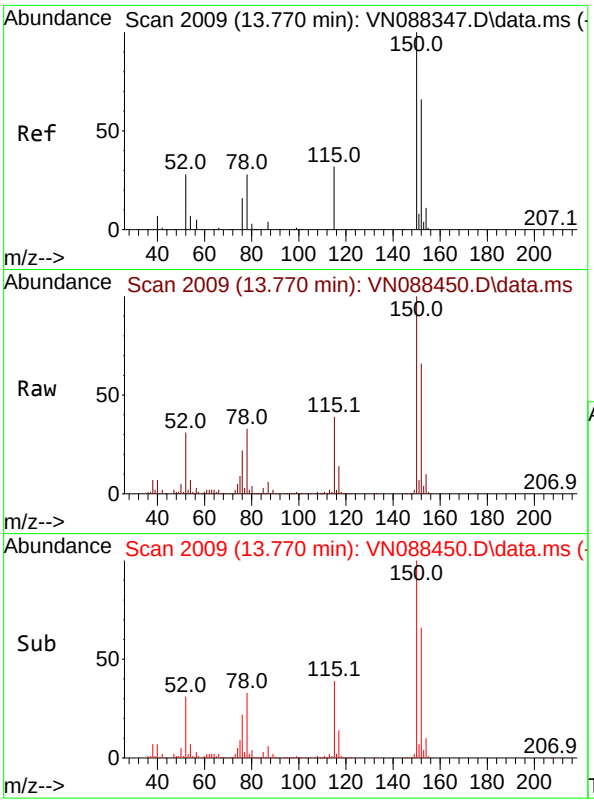




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088450.D
Acq: 04 Dec 2025 16:48

Tgt Ion:117 Resp: 439722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 63.0 | 47.8 | 71.8 |
| 119 | 33.4 | 26.9 | 40.3 |

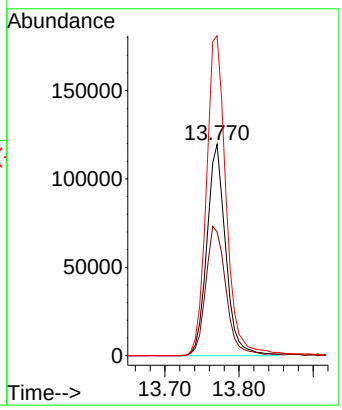





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088450.D
Acq: 04 Dec 2025 16:48

Tgt Ion:152 Resp: 21058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 66.3 | 33.0 | 98.9 |
| 150 | 160.2 | 0.0 | 349.0 |




**Instrument :**
MSVOA_N
**ClientSampleId :**
EB01-120325

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Raw Data: **VN088449.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 12/03/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 12/03/25 |
| Client Sample ID: | TB01-120325 | SDG No.: | Q3757 |
| Lab Sample ID: | Q3757-12 | Matrix: | Water |
| Analytical Method: | 8260D Level: LOW | % Solid: | 0 |
| Sample Wt/Vol: | 5 mL Final Vol: 5000 uL | Test: | VOCMS Group3 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 1 | 0.26 | 1.00 | ug/L | 12/04/25 16:28 | VN120425 |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/04/25 16:28 | VN120425 |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/04/25 16:28 | VN120425 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 1 | 0.19 | 1.00 | ug/L | 12/04/25 16:28 | VN120425 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1 | 0.20 | 1.00 | ug/L | 12/04/25 16:28 | VN120425 |
| 71-43-2 | Benzene | 0.15 | U | 1 | 0.15 | 1.00 | ug/L | 12/04/25 16:28 | VN120425 |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 1 | 0.22 | 1.00 | ug/L | 12/04/25 16:28 | VN120425 |
| 79-01-6 | Trichloroethene | 0.090 | U | 1 | 0.090 | 1.00 | ug/L | 12/04/25 16:28 | VN120425 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 1 | 0.21 | 1.00 | ug/L | 12/04/25 16:28 | VN120425 |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/04/25 16:28 | VN120425 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 56.4 | | | 70 (74) - 130 (125) | 113% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 47.1 | | | 70 (75) - 130 (124) | 94% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 45.0 | | | 70 (86) - 130 (113) | 90% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 52.4 | | | 70 (77) - 130 (121) | 105% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 198000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 454000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 441000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 211000 | | | | | | | |

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: **VN088449.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088449.D
Acq On : 04 Dec 2025 16:28
Operator : JC\MD
Sample : Q3757-12
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB01-120325

Quant Time: Dec 05 00:17:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

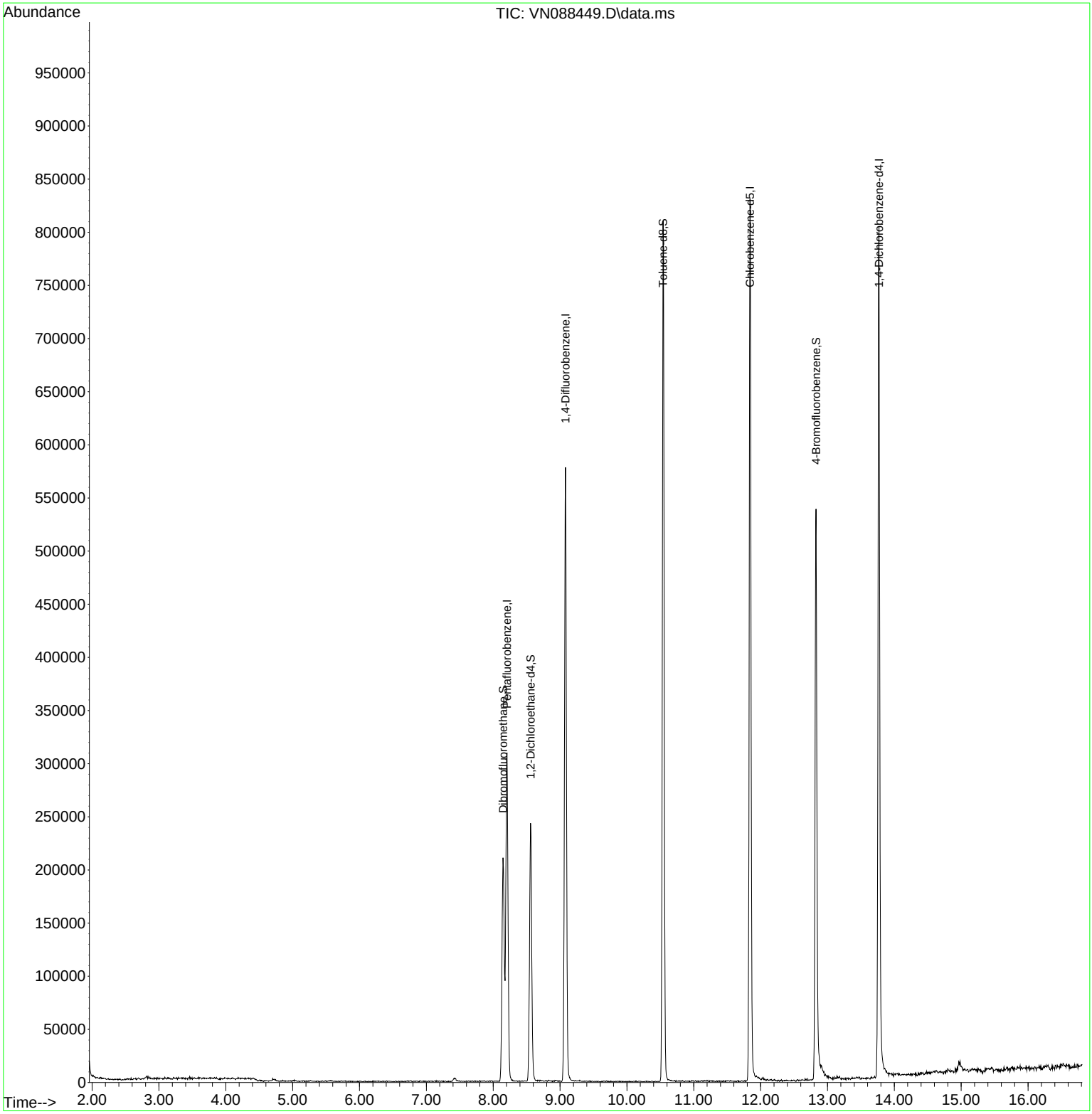
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 198228 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.083 | 114 | 454339 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.841 | 117 | 441078 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 211349 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.559 | 65 | 210629 | 56.405 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 112.820% | | | |
| 35) Dibromofluoromethane | 8.147 | 113 | 148440 | 47.146 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 94.300% | | | |
| 50) Toluene-d8 | 10.541 | 98 | 527723 | 45.047 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 90.100% | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 210610 | 52.395 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 104.800% | | | |
| Target Compounds | | | | | | Qvalue |

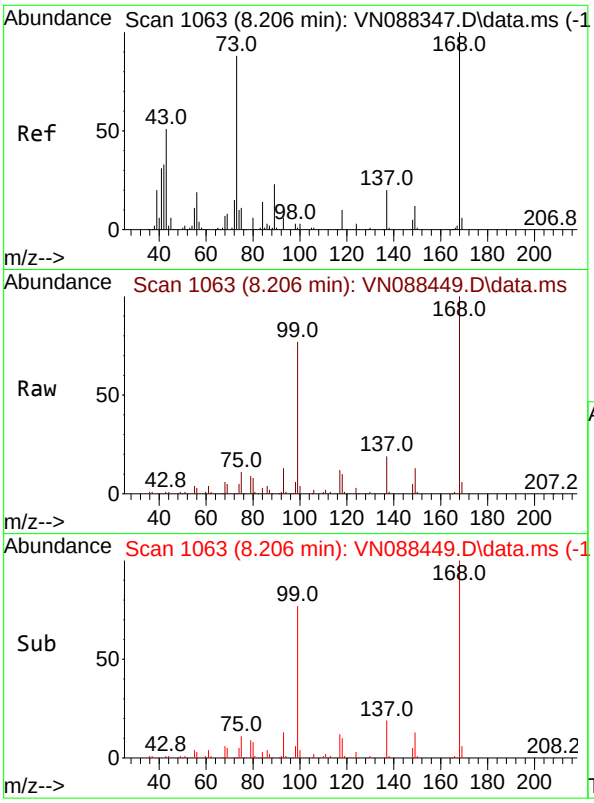
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088449.D
Acq On : 04 Dec 2025 16:28
Operator : JC\MD
Sample : Q3757-12
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB01-120325

Quant Time: Dec 05 00:17:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



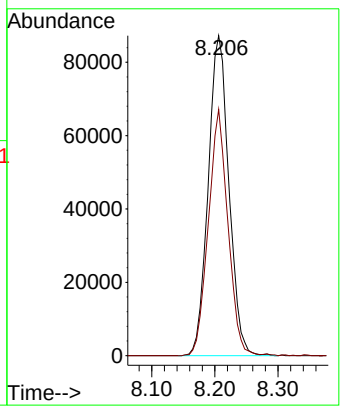


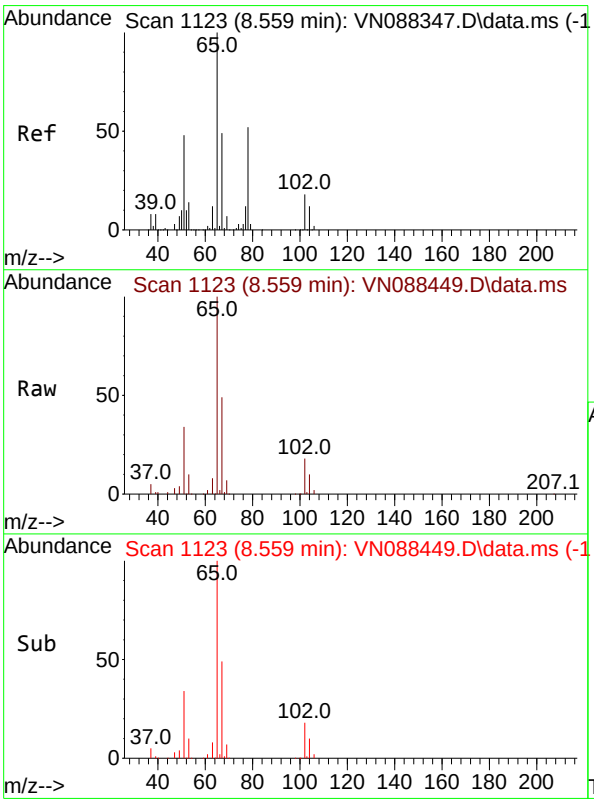

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088449.D
Acq: 04 Dec 2025 16:28

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB01-120325

Tgt Ion:168 Resp: 198228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 77.0 | 57.1 | 85.7 |

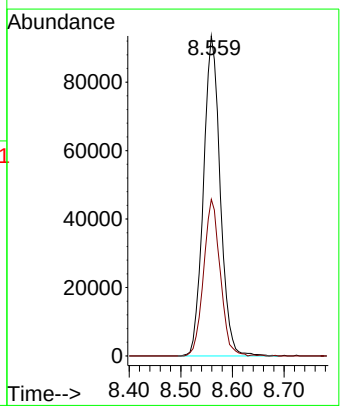


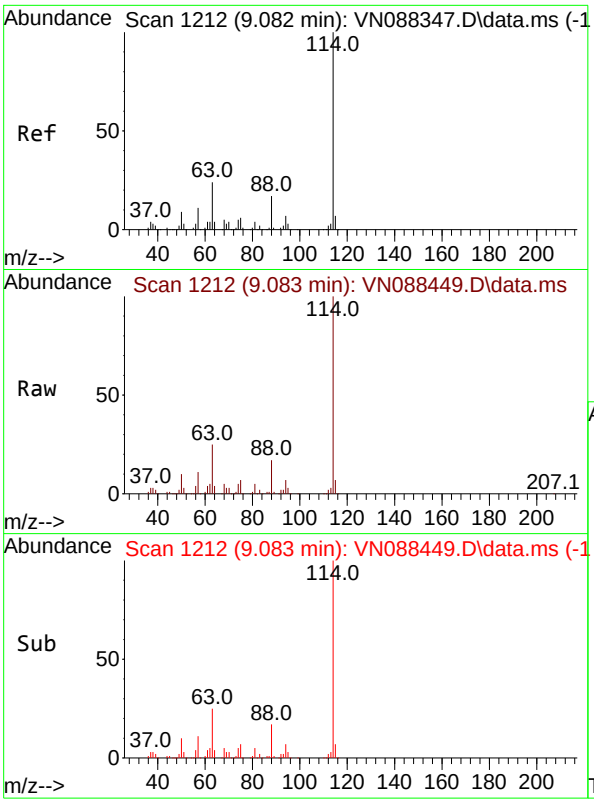




#33
1,2-Dichloroethane-d4
Concen: 56.405 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088449.D
Acq: 04 Dec 2025 16:28

Tgt Ion: 65 Resp: 210629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.4 | 0.0 | 100.8 |



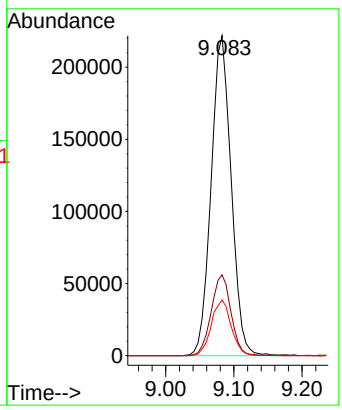


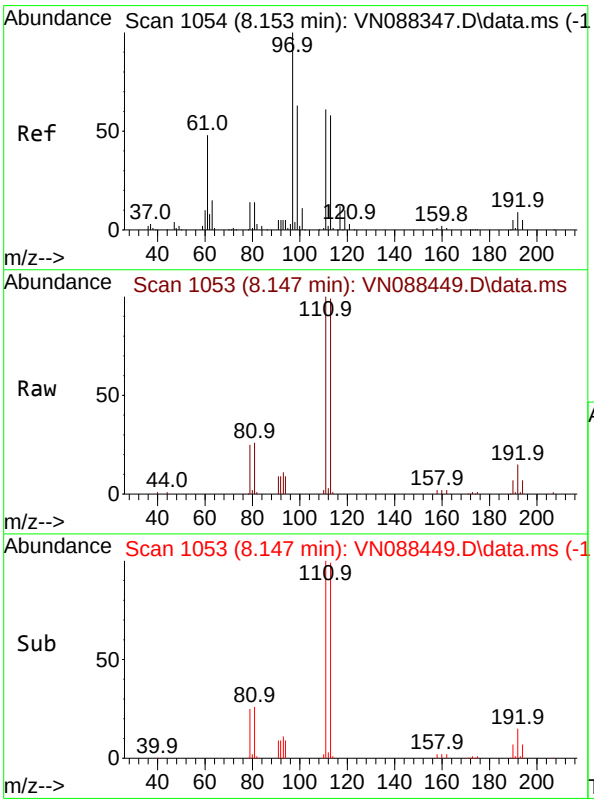

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088449.D
Acq: 04 Dec 2025 16:28

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB01-120325

Tgt Ion:114 Resp: 454339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.2 | 0.0 | 49.0 |
| 88 | 17.4 | 0.0 | 34.0 |

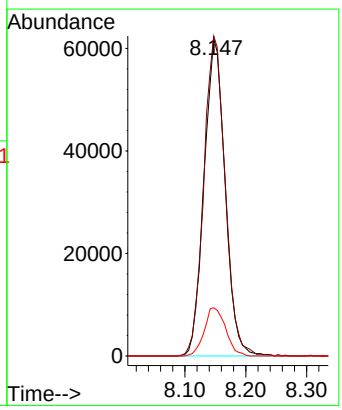


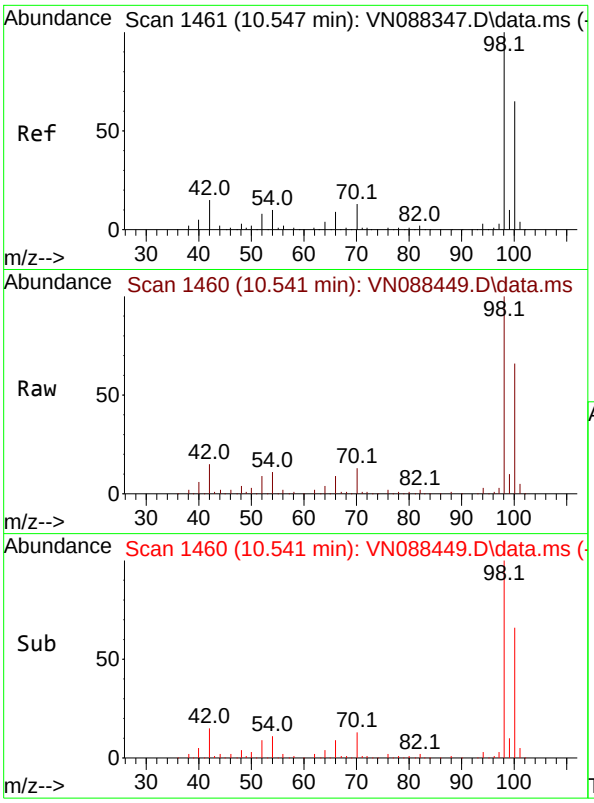




#35
Dibromofluoromethane
Concen: 47.146 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088449.D
Acq: 04 Dec 2025 16:28

Tgt Ion:113 Resp: 148440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.4 | 82.5 | 123.7 |
| 192 | 15.4 | 12.8 | 19.2 |



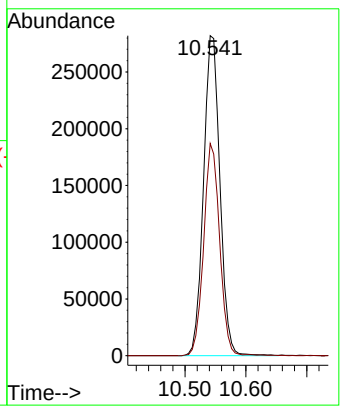


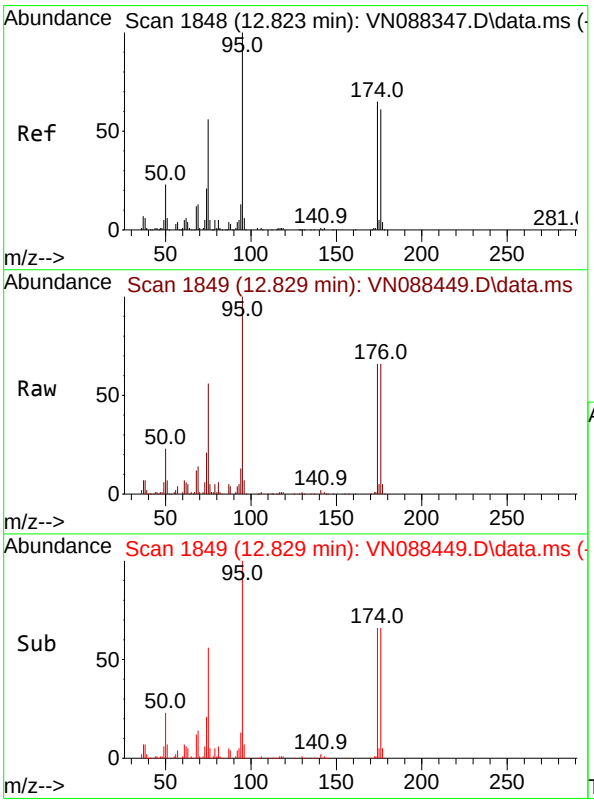

#50
Toluene-d8
Concen: 45.047 ug/l
RT: 10.541 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN088449.D
Acq: 04 Dec 2025 16:28

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB01-120325

Tgt Ion: 98 Resp: 527723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.6 | 52.2 | 78.2 |

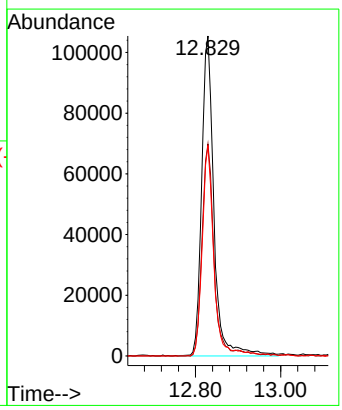


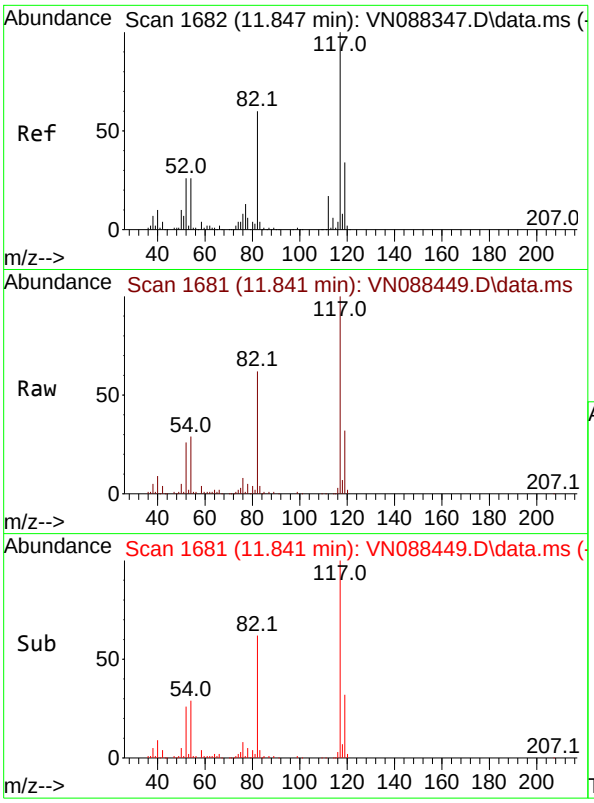




#62
4-Bromofluorobenzene
Concen: 52.395 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088449.D
Acq: 04 Dec 2025 16:28

Tgt Ion: 95 Resp: 210610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.5 | 0.0 | 139.0 |
| 176 | 62.3 | 0.0 | 132.4 |



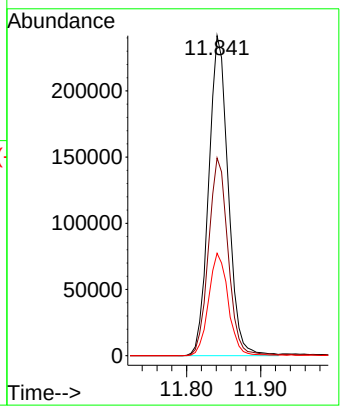


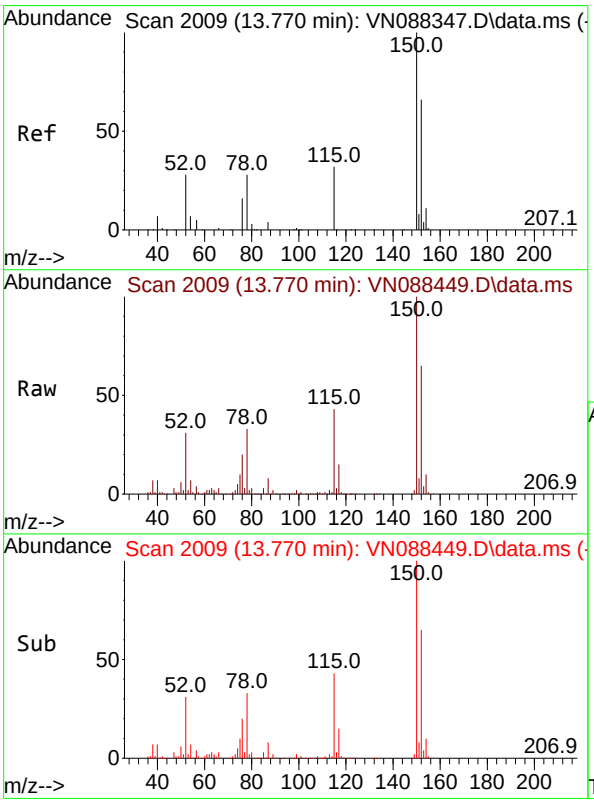

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088449.D
Acq: 04 Dec 2025 16:28

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB01-120325

Tgt Ion:117 Resp: 441078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 61.8 | 47.8 | 71.8 |
| 119 | 32.0 | 26.9 | 40.3 |

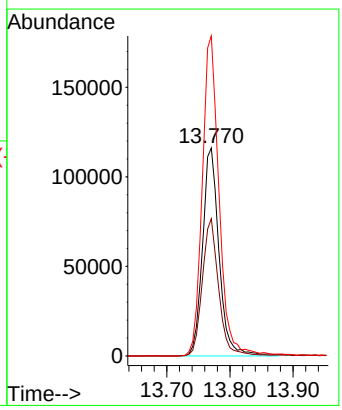



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088449.D
Acq: 04 Dec 2025 16:28

Tgt Ion:152 Resp: 211349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.0 | 33.0 | 98.9 |
| 150 | 156.8 | 0.0 | 349.0 |



# 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: JACO05

Lab Code: ACE SDG No.: Q3757

Instrument ID: MSVOA_N Calibration Date(s): 11/24/2025 11/24/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:38 14:35

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

LAB FILE ID: RRF001 = VN088344.D RRF005 = VN088345.D RRF020 = VN088346.D
RRF050 = VN088347.D RRF100 = VN088348.D RRF150 = VN088349.D

| COMPOUND | RRF001 | RRF005 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.804 | 0.844 | 0.856 | 0.812 | 0.837 | 0.772 | 0.821 | 3.8 |
| 1,1-Dichloroethene | 0.722 | 0.620 | 0.601 | 0.568 | 0.595 | 0.554 | 0.610 | 9.8 |
| 1,1-Dichloroethane | 1.389 | 1.431 | 1.348 | 1.427 | 1.321 | 1.286 | 1.367 | 4.3 |
| cis-1,2-Dichloroethene | 0.797 | 0.801 | 0.794 | 0.829 | 0.747 | 0.744 | 0.785 | 4.2 |
| 1,1,1-Trichloroethane | 1.247 | 1.219 | 1.192 | 1.158 | 1.166 | 1.104 | 1.181 | 4.3 |
| Benzene | 1.658 | 1.555 | 1.609 | 1.559 | 1.559 | 1.477 | 1.570 | 3.9 |
| 1,2-Dichloroethane | 0.583 | 0.614 | 0.596 | 0.615 | 0.597 | 0.587 | 0.599 | 2.3 |
| Trichloroethene | 0.382 | 0.385 | 0.383 | 0.357 | 0.371 | 0.348 | 0.371 | 4.1 |
| 1,1,2-Trichloroethane | 0.350 | 0.359 | 0.364 | 0.353 | 0.341 | 0.336 | 0.351 | 3 |
| Tetrachloroethene | 0.426 | 0.388 | 0.413 | 0.377 | 0.407 | 0.367 | 0.396 | 5.7 |
| 1,2-Dichloroethane-d4 | | 0.954 | 0.916 | 0.999 | 0.882 | 0.960 | 0.942 | 4.7 |
| Dibromofluoromethane | | 0.361 | 0.350 | 0.350 | 0.334 | 0.337 | 0.346 | 3.2 |
| Toluene-d8 | | 1.249 | 1.292 | 1.285 | 1.308 | 1.313 | 1.289 | 2 |
| 4-Bromofluorobenzene | | 0.402 | 0.413 | 0.448 | 0.466 | 0.482 | 0.442 | 7.7 |

* 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.

# Response Factor Report MSVOA_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N112425W.M
Title : SW846 8260
Last Update : Tue Nov 25 01:34:52 2025
Response Via : Initial Calibration

Calibration Files
1 =VN088344.D 5 =VN088345.D 20 =VN088346.D 50 =VN088347.D 100 =VN088348.D 150 =VN088349.D

| | | Compound | 1 | 5 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.719 | 0.676 | 0.796 | 0.741 | 0.838 | 0.736 | 0.751 | 7.67 |
| 3) | P | Chloromethane | 0.911 | 0.800 | 0.805 | 0.801 | 0.759 | 0.764 | 0.807 | 6.79 |
| 4) | C | Vinyl Chloride | 0.804 | 0.844 | 0.856 | 0.812 | 0.837 | 0.772 | 0.821 | 3.78# |
| 5) | T | Bromomethane | | 0.407 | 0.392 | 0.396 | 0.387 | 0.392 | 0.395 | 1.85 |
| 6) | T | Chloroethane | 0.555 | 0.503 | 0.496 | 0.505 | 0.502 | 0.485 | 0.508 | 4.82 |
| 7) | T | Trichlorofluor... | 1.234 | 1.170 | 1.168 | 1.092 | 1.201 | 1.055 | 1.153 | 5.84 |
| 8) | T | Diethyl Ether | 0.495 | 0.451 | 0.395 | 0.444 | 0.401 | 0.411 | 0.433 | 8.73 |
| 9) | T | 1,1,2-Trichlor... | 0.660 | 0.635 | 0.639 | 0.564 | 0.633 | 0.553 | 0.614 | 7.17 |
| 10) | T | Methyl Iodide | | 0.498 | 0.584 | 0.662 | 0.660 | 0.636 | 0.608 | 11.40 |
| 11) | T | Tert butyl alc... | | 0.151 | 0.149 | 0.161 | 0.142 | 0.148 | 0.150 | 4.64 |
| 12) | CM | 1,1-Dichloroet... | 0.722 | 0.620 | 0.601 | 0.568 | 0.595 | 0.554 | 0.610 | 9.83# |
| 13) | T | Acrolein | | 0.146 | 0.132 | 0.151 | 0.143 | 0.147 | 0.144 | 5.00 |
| 14) | T | Allyl chloride | 1.107 | 1.143 | 1.117 | 1.149 | 1.132 | 1.135 | 1.131 | 1.38 |
| 15) | T | Acrylonitrile | 0.435 | 0.435 | 0.432 | 0.466 | 0.416 | 0.418 | 0.434 | 4.14 |
| 16) | T | Acetone | 0.412 | 0.355 | 0.322 | 0.335 | 0.305 | 0.314 | 0.341 | 11.49 |
| 17) | T | Carbon Disulfide | 2.061 | 2.043 | 2.043 | 1.983 | 1.996 | 1.833 | 1.993 | 4.22 |
| 18) | T | Methyl Acetate | 1.072 | 1.048 | 0.957 | 1.049 | 0.972 | 0.985 | 1.014 | 4.74 |
| 19) | T | Methyl tert-bu... | 2.126 | 2.239 | 2.245 | 2.504 | 2.265 | 2.333 | 2.285 | 5.53 |
| 20) | T | Methylene Chlo... | 0.797 | 0.752 | 0.704 | 0.756 | 0.686 | 0.678 | 0.729 | 6.44 |
| 21) | T | trans-1,2-Dich... | 0.752 | 0.668 | 0.676 | 0.686 | 0.647 | 0.626 | 0.676 | 6.39 |
| 22) | T | Diisopropyl ether | 2.267 | 2.415 | 2.439 | 2.580 | 2.359 | 2.424 | 2.414 | 4.26 |
| 23) | T | Vinyl Acetate | 1.711 | 1.879 | 1.997 | 2.137 | 1.943 | 2.002 | 1.945 | 7.35 |
| 24) | P | 1,1-Dichloroet... | 1.389 | 1.431 | 1.348 | 1.427 | 1.321 | 1.286 | 1.367 | 4.27 |
| 25) | T | 2-Butanone | 0.509 | 0.538 | 0.548 | 0.596 | 0.540 | 0.556 | 0.548 | 5.17 |
| 26) | T | 2,2-Dichloropr... | 1.245 | 1.133 | 1.185 | 1.204 | 1.176 | 1.137 | 1.180 | 3.56 |
| 27) | T | cis-1,2-Dichlo... | 0.797 | 0.801 | 0.794 | 0.829 | 0.747 | 0.744 | 0.785 | 4.22 |
| 28) | T | Bromochloromet... | 0.724 | 0.722 | 0.684 | 0.735 | 0.624 | 0.597 | 0.681 | 8.47 |
| 29) | T | Tetrahydrofuran | 0.354 | 0.397 | 0.394 | 0.429 | 0.384 | 0.398 | 0.393 | 6.18 |
| 30) | C | Chloroform | 1.377 | 1.362 | 1.351 | 1.392 | 1.291 | 1.285 | 1.343 | 3.33# |
| 31) | T | Cyclohexane | | 1.450 | 1.264 | 1.133 | 1.237 | 1.109 | 1.239 | 10.92 |
| 32) | T | 1,1,1-Trichlor... | 1.247 | 1.219 | 1.192 | 1.158 | 1.166 | 1.104 | 1.181 | 4.27 |
| 33) | S | 1,2-Dichloroet... | | 0.954 | 0.916 | 0.999 | 0.882 | 0.960 | 0.942 | 4.74 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | | 0.361 | 0.350 | 0.350 | 0.334 | 0.337 | 0.346 | 3.17 |
| 36) | T | 1,1-Dichloropr... | 0.607 | 0.542 | 0.531 | 0.491 | 0.547 | 0.490 | 0.535 | 8.09 |
| 37) | T | Ethyl Acetate | 0.735 | 0.678 | 0.724 | 0.720 | 0.681 | 0.681 | 0.703 | 3.69 |
| 38) | T | Carbon Tetrach... | 0.565 | 0.504 | 0.548 | 0.499 | 0.570 | 0.509 | 0.532 | 6.04 |
| 39) | T | Methylcyclohexane | 0.534 | 0.542 | 0.606 | 0.527 | 0.662 | 0.561 | 0.572 | 9.14 |
| 40) | TM | Benzene | 1.658 | 1.555 | 1.609 | 1.559 | 1.559 | 1.477 | 1.570 | 3.86 |
| 41) | T | Methacrylonitrile | 0.360 | 0.323 | 0.351 | 0.357 | 0.349 | 0.350 | 0.348 | 3.74 |
| 42) | TM | 1,2-Dichloroet... | 0.583 | 0.614 | 0.596 | 0.615 | 0.597 | 0.587 | 0.599 | 2.27 |
| 43) | T | Isopropyl Acetate | 1.098 | 1.019 | 1.063 | 1.116 | 1.076 | 1.074 | 1.074 | 3.11 |
| 44) | TM | Trichloroethene | 0.382 | 0.385 | 0.383 | 0.357 | 0.371 | 0.348 | 0.371 | 4.13 |
| 45) | C | 1,2-Dichloropr... | 0.426 | 0.402 | 0.402 | 0.406 | 0.396 | 0.381 | 0.402 | 3.62# |
| 46) | T | Dibromomethane | 0.288 | 0.292 | 0.289 | 0.293 | 0.283 | 0.277 | 0.287 | 2.08 |
| 47) | T | Bromodichlorom... | 0.602 | 0.586 | 0.586 | 0.589 | 0.583 | 0.566 | 0.586 | 1.96 |
| 48) | T | Methyl methacr... | 0.480 | 0.433 | 0.491 | 0.513 | 0.511 | 0.513 | 0.490 | 6.35 |
| 49) | T | 1,4-Dioxane | 0.005 | 0.006 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 8.55 |
| 50) | S | Toluene-d8 | | 1.249 | 1.292 | 1.285 | 1.308 | 1.313 | 1.289 | 1.96 |
| 51) | T | 4-Methyl-2-Pen... | 0.540 | 0.616 | 0.661 | 0.673 | 0.658 | 0.651 | 0.633 | 7.79 |
| 52) | CM | Toluene | 0.829 | 0.885 | 0.940 | 0.913 | 0.960 | 0.911 | 0.906 | 5.05# |
| 53) | T | t-1,3-Dichloro... | 0.567 | 0.553 | 0.598 | 0.631 | 0.631 | 0.625 | 0.601 | 5.72 |
| 54) | T | cis-1,3-Dichlo... | 0.590 | 0.618 | 0.628 | 0.662 | 0.654 | 0.640 | 0.632 | 4.16 |
| 55) | T | 1,1,2-Trichlor... | 0.350 | 0.359 | 0.364 | 0.353 | 0.341 | 0.336 | 0.351 | 2.98 |
| 56) | T | Ethyl methacry... | 0.417 | 0.482 | 0.558 | 0.616 | 0.624 | 0.626 | 0.554 | 15.71 |

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N112425W.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.607 | 0.638 | 0.647 | 0.644 | 0.638 | 0.622 | 0.633 | 2.42 |
| 58) | T | 2-Chloroethyl ... | 0.258 | 0.323 | 0.333 | 0.364 | 0.337 | 0.301 | 0.319 | 11.41 |
| 59) | T | 2-Hexanone | 0.359 | 0.301 | 0.406 | 0.436 | 0.442 | 0.450 | 0.399 | 14.66 |
| 60) | T | Dibromochlorom... | 0.384 | 0.386 | 0.406 | 0.409 | 0.410 | 0.404 | 0.400 | 2.87 |
| 61) | T | 1,2-Dibromoethane | 0.304 | 0.367 | 0.364 | 0.369 | 0.367 | 0.359 | 0.355 | 7.16 |
| 62) | S | 4-Bromofluorob... | | 0.402 | 0.413 | 0.448 | 0.466 | 0.482 | 0.442 | 7.67 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.426 | 0.388 | 0.413 | 0.377 | 0.407 | 0.367 | 0.396 | 5.73 |
| 65) | PM | Chlorobenzene | 1.114 | 1.142 | 1.161 | 1.106 | 1.145 | 1.070 | 1.123 | 2.96 |
| 66) | T | 1,1,1,2-Tetrac... | 0.378 | 0.372 | 0.394 | 0.383 | 0.386 | 0.361 | 0.379 | 3.04 |
| 67) | C | Ethyl Benzene | 1.881 | 1.860 | 2.014 | 1.938 | 2.133 | 1.952 | 1.963 | 5.06# |
| 68) | T | m/p-Xylenes | 0.658 | 0.690 | 0.769 | 0.733 | 0.788 | 0.728 | 0.728 | 6.64 |
| 69) | T | o-Xylene | 0.670 | 0.619 | 0.722 | 0.696 | 0.749 | 0.708 | 0.694 | 6.51 |
| 70) | T | Styrene | 0.884 | 1.025 | 1.163 | 1.193 | 1.284 | 1.210 | 1.127 | 12.94 |
| 71) | P | Bromoform | 0.224 | 0.273 | 0.285 | 0.285 | 0.302 | 0.295 | 0.277 | 10.12 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 3.339 | 3.528 | 3.944 | 3.624 | 4.040 | 3.706 | 3.697 | 7.07 |
| 74) | T | N-amyl acetate | | | 1.173 | 1.045 | 1.338 | 1.480 | 1.259 | 15.09 |
| 75) | P | 1,1,2,2-Tetrac... | 1.377 | 1.218 | 1.231 | 1.127 | 1.135 | 1.082 | 1.195 | 8.87 |
| 76) | T | 1,2,3-Trichlor... | 1.036 | 1.199 | 1.268 | 1.202 | 1.177 | 1.145 | 1.171 | 6.63 |
| 77) | T | Bromobenzene | 0.781 | 0.885 | 0.866 | 0.863 | 0.865 | 0.816 | 0.846 | 4.66 |
| 78) | T | n-propylbenzene | 4.076 | 4.270 | 4.925 | 4.439 | 4.931 | 4.496 | 4.523 | 7.66 |
| 79) | T | 2-Chlorotoluene | 2.707 | 2.799 | 2.851 | 2.699 | 2.835 | 2.681 | 2.762 | 2.72 |
| 80) | T | 1,3,5-Trimethy... | 2.650 | 2.988 | 3.315 | 3.051 | 3.307 | 3.069 | 3.063 | 7.99 |
| 81) | T | trans-1,4-Dich... | | 0.355 | 0.364 | 0.430 | 0.452 | 0.462 | 0.413 | 12.09 |
| 82) | T | 4-Chlorotoluene | 2.093 | 2.830 | 2.935 | 2.854 | 2.944 | 2.803 | 2.743 | 11.80 |
| 83) | T | tert-Butylbenzene | 2.509 | 2.468 | 2.773 | 2.509 | 2.816 | 2.549 | 2.604 | 5.78 |
| 84) | T | 1,2,4-Trimethy... | 2.572 | 2.827 | 3.310 | 3.112 | 3.344 | 3.105 | 3.045 | 9.74 |
| 85) | T | sec-Butylbenzene | 3.457 | 3.614 | 3.971 | 3.609 | 4.122 | 3.674 | 3.741 | 6.73 |
| 86) | T | p-Isopropyltol... | 2.714 | 2.808 | 3.330 | 3.047 | 3.435 | 3.073 | 3.068 | 9.18 |
| 87) | T | 1,3-Dichlorobe... | 1.730 | 1.573 | 1.720 | 1.606 | 1.676 | 1.574 | 1.647 | 4.34 |
| 88) | T | 1,4-Dichlorobe... | 1.747 | 1.825 | 1.786 | 1.681 | 1.702 | 1.608 | 1.725 | 4.52 |
| 89) | T | n-Butylbenzene | 2.827 | 2.664 | 3.155 | 2.873 | 3.373 | 2.979 | 2.979 | 8.49 |
| 90) | T | Hexachloroethane | 0.549 | 0.550 | 0.571 | 0.535 | 0.604 | 0.553 | 0.560 | 4.36 |
| 91) | T | 1,2-Dichlorobe... | 1.518 | 1.574 | 1.583 | 1.521 | 1.595 | 1.505 | 1.550 | 2.52 |
| 92) | T | 1,2-Dibromo-3-... | 0.284 | 0.284 | 0.284 | 0.288 | 0.300 | 0.300 | 0.290 | 2.80 |
| 93) | T | 1,2,4-Trichlor... | 0.998 | 0.864 | 0.901 | 0.889 | 0.955 | 0.917 | 0.921 | 5.26 |
| 94) | T | Hexachlorobuta... | 0.362 | 0.316 | 0.349 | 0.297 | 0.354 | 0.307 | 0.331 | 8.32 |
| 95) | T | Naphthalene | 2.946 | 2.864 | 3.163 | 3.292 | 3.483 | 3.395 | 3.190 | 7.74 |
| 96) | T | 1,2,3-Trichlor... | 0.942 | 0.850 | 0.888 | 0.875 | 0.930 | 0.891 | 0.896 | 3.83 |

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088344.D
Acq On : 24 Nov 2025 12:38
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 01:09:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :John Carlone
11/25/2025
Supervised By :Mahesh Dadoda
11/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 286338 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.082 | 114 | 535294 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.841 | 117 | 458943 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 203454 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 0.000 | 65 | 0d | 0.000 | ug/l | |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 0.000%# | | |
| 35) Dibromofluoromethane | 0.000 | 113 | 0d | 0.000 | ug/l | |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 0.000%# | | |
| 50) Toluene-d8 | 0.000 | 98 | 0d | 0.000 | ug/l | |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 0.000%# | | |
| 62) 4-Bromofluorobenzene | 0.000 | 95 | 0d | 0.000 | ug/l | |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 0.000%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.142 | 85 | 4116 | 1.176 | ug/l | 88 |
| 3) Chloromethane | 2.383 | 50 | 5215 | 1.282 | ug/l | 92 |
| 4) Vinyl Chloride | 2.536 | 62 | 4602 | 1.055 | ug/l | 98 |
| 6) Chloroethane | 3.148 | 64 | 3181 | 1.036 | ug/l # | 78 |
| 7) Trichlorofluoromethane | 3.512 | 101 | 7064 | 1.049 | ug/l # | 82 |
| 8) Diethyl Ether | 3.953 | 74 | 2832 | 1.101 | ug/l | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 4.359 | 101 | 3781 | 1.083 | ug/l | 91 |
| 12) 1,1-Dichloroethene | 4.336 | 96 | 4136m | 1.118 | ug/l | |
| 14) Allyl chloride | 5.012 | 41 | 6342 | 0.957 | ug/l | 95 |
| 15) Acrylonitrile | 5.712 | 53 | 12465 | 5.068 | ug/l | 98 |
| 16) Acetone | 4.424 | 43 | 11802 | 4.716 | ug/l | 98 |
| 17) Carbon Disulfide | 4.694 | 76 | 11805 | 1.034 | ug/l # | 85 |
| 18) Methyl Acetate | 5.006 | 43 | 6138 | 1.129 | ug/l | 95 |
| 19) Methyl tert-butyl Ether | 5.783 | 73 | 12174 | 0.876 | ug/l | 96 |
| 20) Methylene Chloride | 5.265 | 84 | 4566 | 1.042 | ug/l # | 70 |
| 21) trans-1,2-Dichloroethene | 5.783 | 96 | 4308 | 1.053 | ug/l # | 94 |
| 22) Diisopropyl ether | 6.665 | 45 | 12982m | 0.932 | ug/l | |
| 23) Vinyl Acetate | 6.594 | 43 | 48988 | 3.972 | ug/l | 96 |
| 24) 1,1-Dichloroethane | 6.547 | 63 | 7954 | 1.029 | ug/l # | 95 |
| 25) 2-Butanone | 7.471 | 43 | 14574 | 4.283 | ug/l # | 82 |
| 26) 2,2-Dichloropropane | 7.465 | 77 | 7127 | 1.026 | ug/l # | 77 |
| 27) cis-1,2-Dichloroethene | 7.465 | 96 | 4562m | 0.962 | ug/l | |
| 28) Bromochloromethane | 7.788 | 49 | 4148 | 1.149 | ug/l # | 92 |
| 29) Tetrahydrofuran | 7.835 | 42 | 10143 | 4.482 | ug/l | 96 |
| 30) Chloroform | 7.947 | 83 | 7885 | 1.027 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 8.153 | 97 | 7143 | 1.055 | ug/l # | 46 |
| 36) 1,1-Dichloropropene | 8.341 | 75 | 6499 | 1.203 | ug/l # | 80 |
| 37) Ethyl Acetate | 7.553 | 43 | 7870 | 1.095 | ug/l # | 94 |
| 38) Carbon Tetrachloride | 8.347 | 117 | 6045 | 1.085 | ug/l | 84 |
| 39) Methylcyclohexane | 9.582 | 83 | 5715 | 0.846 | ug/l | 87 |
| 40) Benzene | 8.582 | 78 | 17750 | 1.069 | ug/l # | 88 |
| 41) Methacrylonitrile | 7.759 | 41 | 3857 | 1.037 | ug/l # | 83 |
| 42) 1,2-Dichloroethane | 8.659 | 62 | 6237 | 1.039 | ug/l | 99 |
| 43) Isopropyl Acetate | 8.677 | 43 | 11759 | 1.073 | ug/l # | 94 |
| 44) Trichloroethene | 9.335 | 130 | 4088 | 1.057 | ug/l | 73 |
| 45) 1,2-Dichloropropane | 9.600 | 63 | 4559 | 1.082 | ug/l # | 78 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088344.D
Acq On : 24 Nov 2025 12:38
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 01:09:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :John Carlone
11/25/2025
Supervised By :Mahesh Dadoda
11/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) Dibromomethane | 9.694 | 93 | 3080 | 1.022 | ug/l | | 88 |
| 47) Bromodichloromethane | 9.865 | 83 | 6445 | 1.068 | ug/l | # | 89 |
| 48) Methyl methacrylate | 9.665 | 41 | 5144 | 1.017 | ug/l | # | 86 |
| 49) 1,4-Dioxane | 9.688 | 88 | 1133 | 17.773 | ug/l | # | 72 |
| 51) 4-Methyl-2-Pentanone | 10.429 | 43 | 28924 | 4.454 | ug/l | | 97 |
| 52) Toluene | 10.612 | 92 | 8872 | 0.875 | ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 10.812 | 75 | 6068 | 0.947 | ug/l | | 89 |
| 54) cis-1,3-Dichloropropene | 10.294 | 75 | 6312 | 0.928 | ug/l | | 94 |
| 55) 1,1,2-Trichloroethane | 11.000 | 97 | 3748 | 0.969 | ug/l | # | 72 |
| 56) Ethyl methacrylate | 10.859 | 69 | 4463 | 0.723 | ug/l | # | 72 |
| 57) 1,3-Dichloropropane | 11.147 | 76 | 6496 | 0.952 | ug/l | | 95 |
| 58) 2-Chloroethyl Vinyl ether | 10.141 | 63 | 13790 | 4.190 | ug/l | | 92 |
| 59) 2-Hexanone | 11.188 | 43 | 19197m | 4.495 | ug/l | | |
| 60) Dibromochloromethane | 11.335 | 129 | 4116 | 0.936 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.447 | 107 | 3251 | 0.814 | ug/l | | 96 |
| 64) Tetrachloroethene | 11.076 | 164 | 3914 | 1.220 | ug/l | # | 86 |
| 65) Chlorobenzene | 11.871 | 112 | 10226 | 0.958 | ug/l | # | 84 |
| 66) 1,1,1,2-Tetrachloroethane | 11.941 | 131 | 3473 | 0.985 | ug/l | # | 57 |
| 67) Ethyl Benzene | 11.941 | 91 | 17267 | 0.922 | ug/l | | 92 |
| 68) m/p-Xylenes | 12.047 | 106 | 12077 | 1.724 | ug/l | | 99 |
| 69) o-Xylene | 12.382 | 106 | 6153 | 0.927 | ug/l | | 91 |
| 70) Styrene | 12.394 | 104 | 8118 | 0.747 | ug/l | | 100 |
| 71) Bromoform | 12.559 | 173 | 2054 | 0.782 | ug/l | # | 82 |
| 73) Isopropylbenzene | 12.676 | 105 | 13585 | 0.849 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.918 | 83 | 5605 | 1.121 | ug/l | # | 83 |
| 76) 1,2,3-Trichloropropane | 12.982 | 75 | 4214m | 0.871 | ug/l | | |
| 77) Bromobenzene | 12.965 | 156 | 3176 | 0.907 | ug/l | | 100 |
| 78) n-propylbenzene | 13.017 | 91 | 16584 | 0.851 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 13.106 | 91 | 11013 | 0.981 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 13.153 | 105 | 10783 | 0.811 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 13.212 | 91 | 8516 | 0.700 | ug/l | | 84 |
| 83) tert-Butylbenzene | 13.417 | 119 | 10210 | 0.869 | ug/l | | 95 |
| 84) 1,2,4-Trimethylbenzene | 13.465 | 105 | 10464 | 0.786 | ug/l | | 89 |
| 85) sec-Butylbenzene | 13.594 | 105 | 14068 | 0.819 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.706 | 119 | 11043 | 0.798 | ug/l | | 97 |
| 87) 1,3-Dichlorobenzene | 13.712 | 146 | 7040 | 1.019 | ug/l | | 95 |
| 88) 1,4-Dichlorobenzene | 13.782 | 146 | 7109m | 0.955 | ug/l | | |
| 89) n-Butylbenzene | 14.035 | 91 | 11505 | 0.845 | ug/l | | 93 |
| 90) Hexachloroethane | 14.312 | 117 | 2233 | 0.841 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 14.082 | 146 | 6178 | 0.927 | ug/l | | 97 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.694 | 75 | 1155 | 0.973 | ug/l | | 93 |
| 93) 1,2,4-Trichlorobenzene | 15.376 | 180 | 4059 | 1.011 | ug/l | | 91 |
| 94) Hexachlorobutadiene | 15.476 | 225 | 1474 | 1.002 | ug/l | | 93 |
| 95) Naphthalene | 15.623 | 128 | 11988 | 0.863 | ug/l | # | 93 |
| 96) 1,2,3-Trichlorobenzene | 15.823 | 180 | 3833 | 0.989 | ug/l | | 100 |

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

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088344.D
Acq On : 24 Nov 2025 12:38
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 01:09:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC001

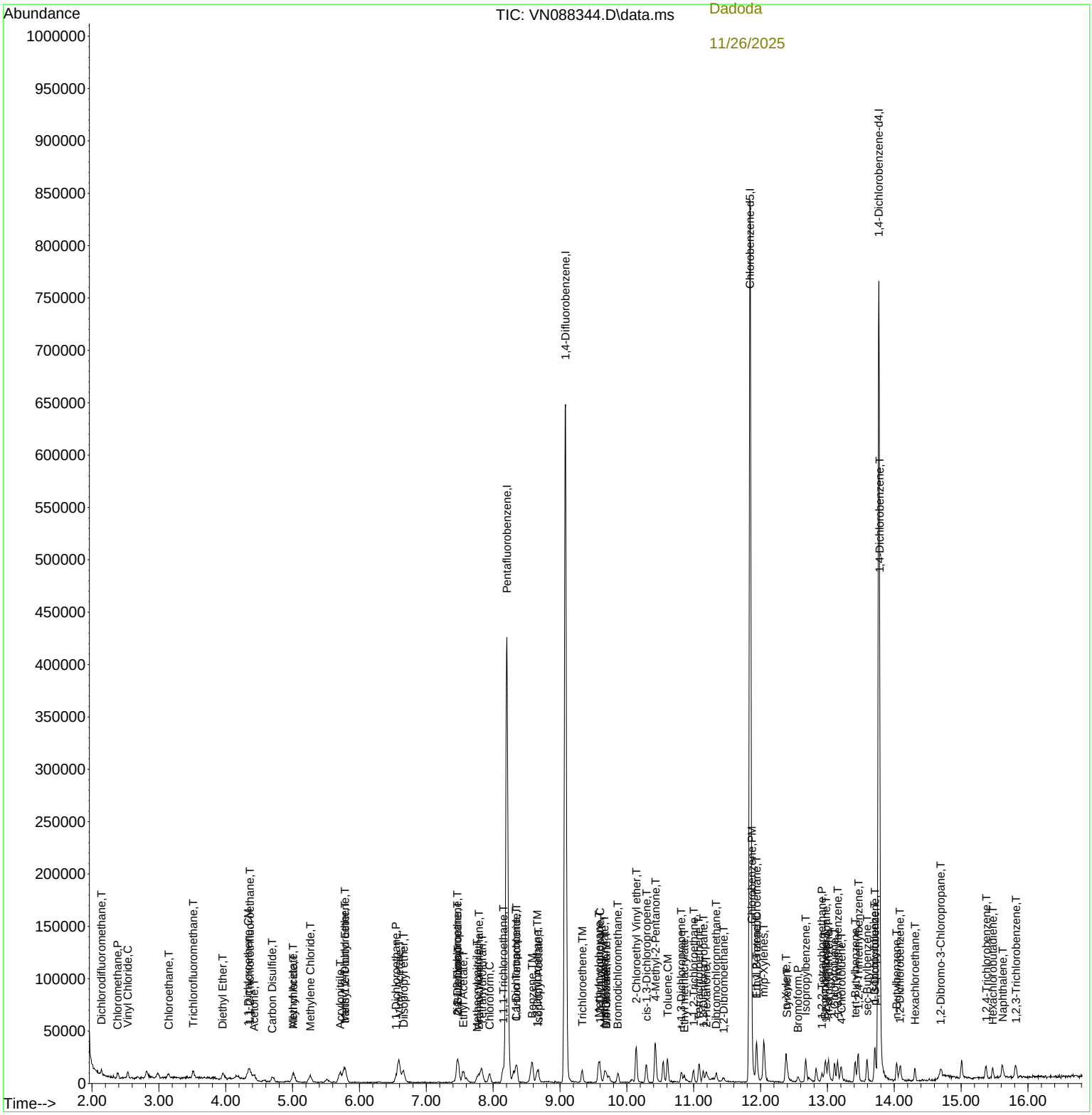
**Manual Integrations APPROVED**

Reviewed By :John Carlone

11/25/2025

Supervised By :Mahesh Dadoda

11/26/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088345.D
Acq On : 24 Nov 2025 13:11
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 25 01:10:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 277017 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.083 | 114 | 520222 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.841 | 117 | 454370 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.771 | 152 | 210682 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.553 | 65 | 26416 | 5.272 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 10.540%# | | | |
| 35) Dibromofluoromethane | 8.153 | 113 | 18802 | 5.271 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 10.540%# | | | |
| 50) Toluene-d8 | 10.547 | 98 | 64962 | 4.778 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 9.560%# | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 20929 | 4.383 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 8.760%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.142 | 85 | 18728 | 5.530 | ug/l | 78 |
| 3) Chloromethane | 2.383 | 50 | 22161 | 5.630 | ug/l | 96 |
| 4) Vinyl Chloride | 2.536 | 62 | 23377 | 5.542 | ug/l | 95 |
| 5) Bromomethane | 2.971 | 94 | 11265 | 4.586 | ug/l | 89 |
| 6) Chloroethane | 3.142 | 64 | 13946 | 4.694 | ug/l | 90 |
| 7) Trichlorofluoromethane | 3.512 | 101 | 32404 | 4.974 | ug/l | 99 |
| 8) Diethyl Ether | 3.959 | 74 | 12500 | 5.022 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 4.365 | 101 | 17577 | 5.203 | ug/l | 97 |
| 10) Methyl Iodide | 4.577 | 142 | 13782 | 4.252 | ug/l # | 86 |
| 11) Tert butyl alcohol | 5.524 | 59 | 20975 | 23.946 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 17186 | 4.802 | ug/l # | 75 |
| 13) Acrolein | 4.171 | 56 | 20281 | 21.167 | ug/l | 95 |
| 14) Allyl chloride | 5.006 | 41 | 31674 | 4.939 | ug/l | 98 |
| 15) Acrylonitrile | 5.706 | 53 | 60208 | 25.303 | ug/l | 99 |
| 16) Acetone | 4.424 | 43 | 49209 | 20.327 | ug/l | 97 |
| 17) Carbon Disulfide | 4.695 | 76 | 56594 | 5.124 | ug/l | 98 |
| 18) Methyl Acetate | 5.012 | 43 | 29034 | 5.519 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.783 | 73 | 62035 | 4.613 | ug/l | 96 |
| 20) Methylene Chloride | 5.271 | 84 | 20834 | 4.915 | ug/l # | 80 |
| 21) trans-1,2-Dichloroethene | 5.777 | 96 | 18495 | 4.671 | ug/l | 96 |
| 22) Diisopropyl ether | 6.653 | 45 | 66886 | 4.963 | ug/l | 94 |
| 23) Vinyl Acetate | 6.589 | 43 | 260201m | 21.808 | ug/l | |
| 24) 1,1-Dichloroethane | 6.547 | 63 | 39629 | 5.298 | ug/l | 98 |
| 25) 2-Butanone | 7.465 | 43 | 74555 | 22.648 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 7.465 | 77 | 31387 | 4.669 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.471 | 96 | 22190 | 4.838 | ug/l | 96 |
| 28) Bromochloromethane | 7.794 | 49 | 19995 | 5.723 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.824 | 42 | 54983 | 25.113 | ug/l | 100 |
| 30) Chloroform | 7.953 | 83 | 37740 | 5.081 | ug/l | 99 |
| 31) Cyclohexane | 8.241 | 56 | 40171 | 5.829 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 8.147 | 97 | 33772 | 5.154 | ug/l # | 85 |
| 36) 1,1-Dichloropropene | 8.347 | 75 | 28193 | 5.368 | ug/l | 96 |
| 37) Ethyl Acetate | 7.547 | 43 | 35286 | 5.054 | ug/l | 98 |
| 38) Carbon Tetrachloride | 8.341 | 117 | 26194 | 4.839 | ug/l | 89 |
| 39) Methylcyclohexane | 9.583 | 83 | 28179 | 4.292 | ug/l | 95 |
| 40) Benzene | 8.588 | 78 | 80904 | 5.014 | ug/l | 91 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088345.D
Acq On : 24 Nov 2025 13:11
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 25 01:10:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.765 | 41 | 16819 | 4.652 | ug/l | | 95 |
| 42) 1,2-Dichloroethane | 8.653 | 62 | 31962 | 5.480 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.677 | 43 | 52990 | 4.976 | ug/l | | 99 |
| 44) Trichloroethene | 9.335 | 130 | 20005 | 5.321 | ug/l | | 89 |
| 45) 1,2-Dichloropropane | 9.600 | 63 | 20897 | 5.101 | ug/l | | 96 |
| 46) Dibromomethane | 9.688 | 93 | 15209 | 5.195 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.865 | 83 | 30479 | 5.198 | ug/l | # | 91 |
| 48) Methyl methacrylate | 9.665 | 41 | 22513 | 4.579 | ug/l | | 95 |
| 49) 1,4-Dioxane | 9.688 | 88 | 6435 | 103.870 | ug/l | # | 96 |
| 51) 4-Methyl-2-Pentanone | 10.424 | 43 | 160328 | 25.401 | ug/l | | 100 |
| 52) Toluene | 10.606 | 92 | 46057 | 4.673 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.812 | 75 | 28774 | 4.621 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 10.288 | 75 | 32170 | 4.869 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.994 | 97 | 18669 | 4.965 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.859 | 69 | 25089 | 4.184 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 11.141 | 76 | 33183 | 5.006 | ug/l | | 96 |
| 58) 2-Chloroethyl Vinyl ether | 10.141 | 63 | 83959 | 26.251 | ug/l | | 98 |
| 59) 2-Hexanone | 11.182 | 43 | 78248 | 18.852 | ug/l | | 96 |
| 60) Dibromochloromethane | 11.335 | 129 | 20078 | 4.697 | ug/l | | 96 |
| 61) 1,2-Dibromoethane | 11.447 | 107 | 19090 | 4.919 | ug/l | | 95 |
| 64) Tetrachloroethene | 11.077 | 164 | 17642 | 5.552 | ug/l | | 92 |
| 65) Chlorobenzene | 11.871 | 112 | 51903 | 4.912 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.935 | 131 | 16899 | 4.842 | ug/l | | 95 |
| 67) Ethyl Benzene | 11.941 | 91 | 84509 | 4.556 | ug/l | | 97 |
| 68) m/p-Xylenes | 12.047 | 106 | 62717 | 9.044 | ug/l | | 96 |
| 69) o-Xylene | 12.382 | 106 | 28111 | 4.278 | ug/l | | 94 |
| 70) Styrene | 12.394 | 104 | 46583 | 4.327 | ug/l | | 99 |
| 71) Bromoform | 12.565 | 173 | 12418 | 4.774 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.676 | 105 | 74324 | 4.486 | ug/l | | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 12.918 | 83 | 25666 | 4.956 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.971 | 75 | 25268m | 5.045 | ug/l | | |
| 77) Bromobenzene | 12.959 | 156 | 18654 | 5.143 | ug/l | | 93 |
| 78) n-propylbenzene | 13.018 | 91 | 89952 | 4.455 | ug/l | | 97 |
| 79) 2-Chlorotoluene | 13.106 | 91 | 58975 | 5.072 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 13.153 | 105 | 62949 | 4.574 | ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.729 | 75 | 7483 | 4.106 | ug/l | # | 78 |
| 82) 4-Chlorotoluene | 13.200 | 91 | 59617 | 4.734 | ug/l | | 97 |
| 83) tert-Butylbenzene | 13.418 | 119 | 51988 | 4.275 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.465 | 105 | 59560 | 4.319 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.594 | 105 | 76137 | 4.278 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.706 | 119 | 59155 | 4.127 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.712 | 146 | 33144 | 4.633 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.788 | 146 | 38453 | 4.987 | ug/l | | 93 |
| 89) n-Butylbenzene | 14.035 | 91 | 56132 | 3.979 | ug/l | | 99 |
| 90) Hexachloroethane | 14.312 | 117 | 11594 | 4.214 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 14.088 | 146 | 33169 | 4.804 | ug/l | | 97 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.700 | 75 | 5979 | 4.862 | ug/l | | 93 |
| 93) 1,2,4-Trichlorobenzene | 15.370 | 180 | 18203 | 4.379 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.476 | 225 | 6667 | 4.376 | ug/l | | 95 |
| 95) Naphthalene | 15.617 | 128 | 60329 | 4.195 | ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.817 | 180 | 17918 | 4.465 | ug/l | | 96 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088345.D
Acq On : 24 Nov 2025 13:11
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Quant Time: Nov 25 01:10:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

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

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

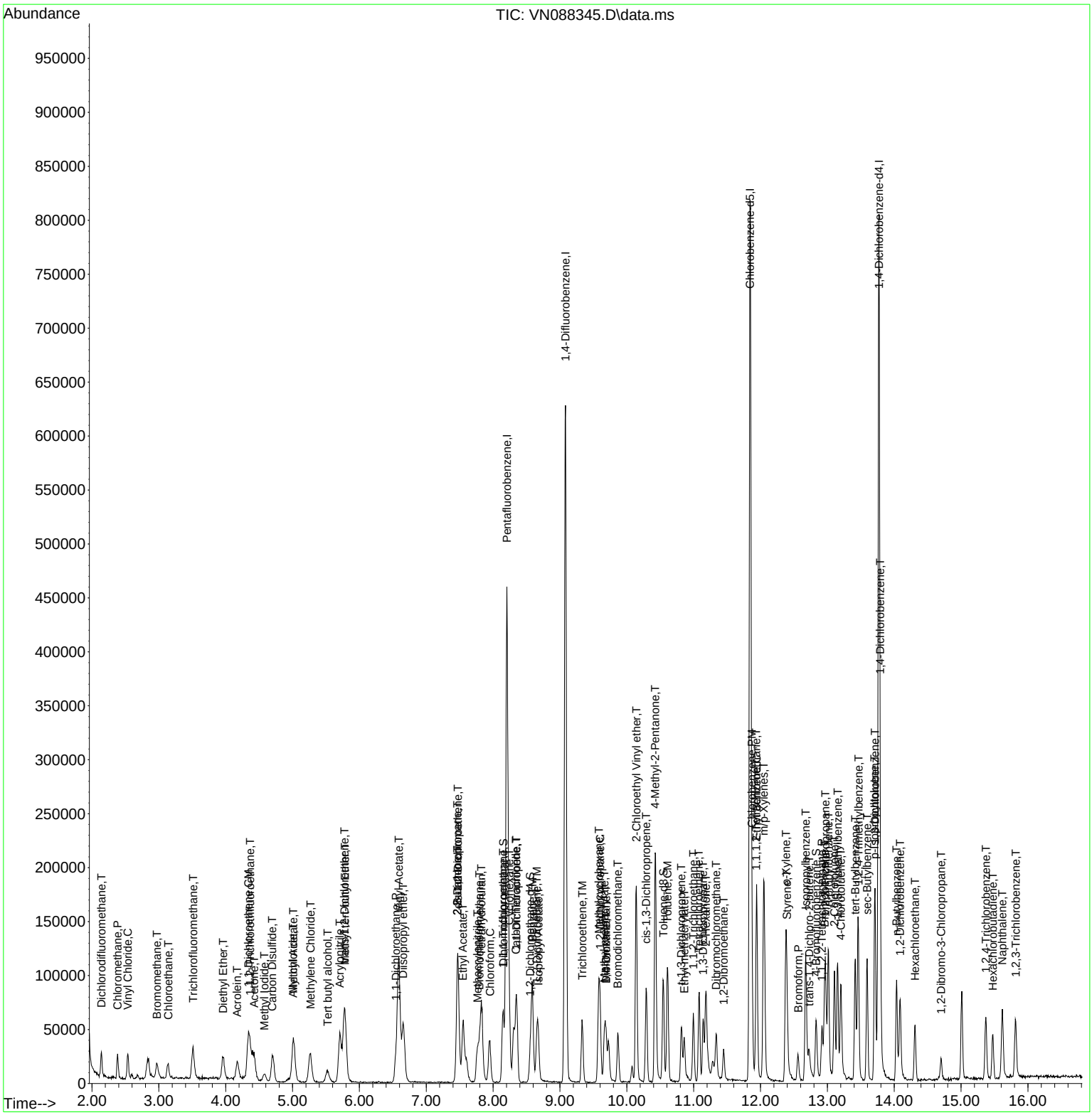
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088345.D
Acq On : 24 Nov 2025 13:11
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 25 01:10:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088346.D
Acq On : 24 Nov 2025 13:32
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 01:10:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 289343 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.082 | 114 | 521967 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.847 | 117 | 446626 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 210470 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.565 | 65 | 106028 | 20.258 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 40.520%# | | | |
| 35) Dibromofluoromethane | 8.147 | 113 | 73055 | 20.412 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 40.820%# | | | |
| 50) Toluene-d8 | 10.547 | 98 | 269703 | 19.772 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 39.540%# | | | |
| 62) 4-Bromofluorobenzene | 12.823 | 95 | 86319 | 18.015 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 36.020%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.142 | 85 | 92076 | 26.032 | ug/l | 100 |
| 3) Chloromethane | 2.383 | 50 | 93182 | 22.664 | ug/l | 98 |
| 4) Vinyl Chloride | 2.542 | 62 | 99078 | 22.487 | ug/l | 96 |
| 5) Bromomethane | 2.983 | 94 | 45414 | 17.699 | ug/l | 100 |
| 6) Chloroethane | 3.142 | 64 | 57451 | 18.515 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.518 | 101 | 135233 | 19.875 | ug/l | 92 |
| 8) Diethyl Ether | 3.965 | 74 | 45755 | 17.600 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.377 | 101 | 73956 | 20.959 | ug/l | 98 |
| 10) Methyl Iodide | 4.583 | 142 | 67559 | 19.958 | ug/l | 92 |
| 11) Tert butyl alcohol | 5.518 | 59 | 86464 | 94.506 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 4.341 | 96 | 69587 | 18.614 | ug/l | 85 |
| 13) Acrolein | 4.177 | 56 | 76430 | 76.371 | ug/l | 97 |
| 14) Allyl chloride | 5.012 | 41 | 129326 | 19.307 | ug/l | 97 |
| 15) Acrylonitrile | 5.712 | 53 | 250269 | 100.698 | ug/l | 99 |
| 16) Acetone | 4.424 | 43 | 186448 | 73.735 | ug/l | 96 |
| 17) Carbon Disulfide | 4.706 | 76 | 236468 | 20.496 | ug/l | 96 |
| 18) Methyl Acetate | 5.018 | 43 | 110778 | 20.161 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.788 | 73 | 259864 | 18.502 | ug/l | 94 |
| 20) Methylene Chloride | 5.265 | 84 | 81446 | 18.395 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.777 | 96 | 78223 | 18.913 | ug/l | 98 |
| 22) Diisopropyl ether | 6.659 | 45 | 282262 | 20.050 | ug/l | 96 |
| 23) Vinyl Acetate | 6.588 | 43 | 1155611m | 92.730 | ug/l | |
| 24) 1,1-Dichloroethane | 6.553 | 63 | 156012 | 19.969 | ug/l | 100 |
| 25) 2-Butanone | 7.471 | 43 | 316859 | 92.154 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.471 | 77 | 137140 | 19.531 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.471 | 96 | 91877 | 19.178 | ug/l | 97 |
| 28) Bromochloromethane | 7.794 | 49 | 79117 | 21.681 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.829 | 42 | 228189 | 99.785 | ug/l | 99 |
| 30) Chloroform | 7.953 | 83 | 156345 | 20.153 | ug/l | 99 |
| 31) Cyclohexane | 8.235 | 56 | 146307 | 20.327 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 8.153 | 97 | 137952 | 20.154 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.353 | 75 | 110824 | 21.032 | ug/l | 98 |
| 37) Ethyl Acetate | 7.547 | 43 | 151153 | 21.576 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.347 | 117 | 114374 | 21.060 | ug/l | 95 |
| 39) Methylcyclohexane | 9.582 | 83 | 126502 | 19.203 | ug/l | 96 |
| 40) Benzene | 8.588 | 78 | 335961 | 20.753 | ug/l | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088346.D
Acq On : 24 Nov 2025 13:32
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 01:10:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.759 | 41 | 73287 | 20.203 | ug/l | | 96 |
| 42) 1,2-Dichloroethane | 8.653 | 62 | 124453 | 21.266 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.671 | 43 | 221861 | 20.765 | ug/l | | 98 |
| 44) Trichloroethene | 9.329 | 130 | 79876 | 21.175 | ug/l | | 91 |
| 45) 1,2-Dichloropropane | 9.600 | 63 | 83979 | 20.433 | ug/l | # | 87 |
| 46) Dibromomethane | 9.688 | 93 | 60253 | 20.513 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.865 | 83 | 122415 | 20.808 | ug/l | | 93 |
| 48) Methyl methacrylate | 9.659 | 41 | 102560 | 20.792 | ug/l | | 97 |
| 49) 1,4-Dioxane | 9.676 | 88 | 28593 | 459.989 | ug/l | # | 98 |
| 51) 4-Methyl-2-Pentanone | 10.423 | 43 | 689576 | 108.887 | ug/l | | 99 |
| 52) Toluene | 10.612 | 92 | 196223 | 19.843 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.818 | 75 | 124926 | 19.996 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 10.288 | 75 | 131162 | 19.787 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.994 | 97 | 75992 | 20.142 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.853 | 69 | 116597 | 19.380 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 11.141 | 76 | 135028 | 20.301 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 10.141 | 63 | 347449 | 108.270 | ug/l | | 98 |
| 59) 2-Hexanone | 11.176 | 43 | 424244 | 101.867 | ug/l | | 98 |
| 60) Dibromochloromethane | 11.335 | 129 | 84716 | 19.753 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.447 | 107 | 76002 | 19.518 | ug/l | | 99 |
| 64) Tetrachloroethene | 11.076 | 164 | 73746 | 23.611 | ug/l | | 96 |
| 65) Chlorobenzene | 11.870 | 112 | 207406 | 19.968 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.935 | 131 | 70330 | 20.500 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.941 | 91 | 359781 | 19.735 | ug/l | | 96 |
| 68) m/p-Xylenes | 12.047 | 106 | 274942 | 40.335 | ug/l | | 99 |
| 69) o-Xylene | 12.376 | 106 | 128919 | 19.957 | ug/l | | 96 |
| 70) Styrene | 12.388 | 104 | 207850 | 19.642 | ug/l | | 99 |
| 71) Bromoform | 12.559 | 173 | 50951 | 19.929 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.670 | 105 | 332053 | 20.064 | ug/l | | 100 |
| 74) N-amyl acetate | 12.682 | 43 | 98732m | 20.946 | ug/l | | |
| 75) 1,1,2,2-Tetrachloroethane | 12.917 | 83 | 103664 | 20.037 | ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 12.970 | 75 | 106718m | 21.331 | ug/l | | |
| 77) Bromobenzene | 12.959 | 156 | 72921 | 20.125 | ug/l | | 98 |
| 78) n-propylbenzene | 13.011 | 91 | 414648 | 20.557 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 13.100 | 91 | 240017 | 20.663 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 13.147 | 105 | 279116 | 20.300 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.717 | 75 | 30676 | 16.850 | ug/l | # | 72 |
| 82) 4-Chlorotoluene | 13.200 | 91 | 247131 | 19.645 | ug/l | | 97 |
| 83) tert-Butylbenzene | 13.417 | 119 | 233493 | 19.219 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.459 | 105 | 278702 | 20.229 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.594 | 105 | 334307 | 18.805 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.706 | 119 | 280364 | 19.577 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.711 | 146 | 144838 | 20.267 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.788 | 146 | 150329 | 19.514 | ug/l | | 99 |
| 89) n-Butylbenzene | 14.035 | 91 | 265582 | 18.845 | ug/l | | 99 |
| 90) Hexachloroethane | 14.311 | 117 | 48067 | 17.489 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 14.088 | 146 | 133291 | 19.325 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.694 | 75 | 23868 | 19.429 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 15.370 | 180 | 75854 | 18.265 | ug/l | | 95 |
| 94) Hexachlorobutadiene | 15.470 | 225 | 29359 | 19.288 | ug/l | | 98 |
| 95) Naphthalene | 15.611 | 128 | 266281 | 18.533 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.817 | 180 | 74795 | 18.658 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088346.D
Acq On : 24 Nov 2025 13:32
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Quant Time: Nov 25 01:10:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 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

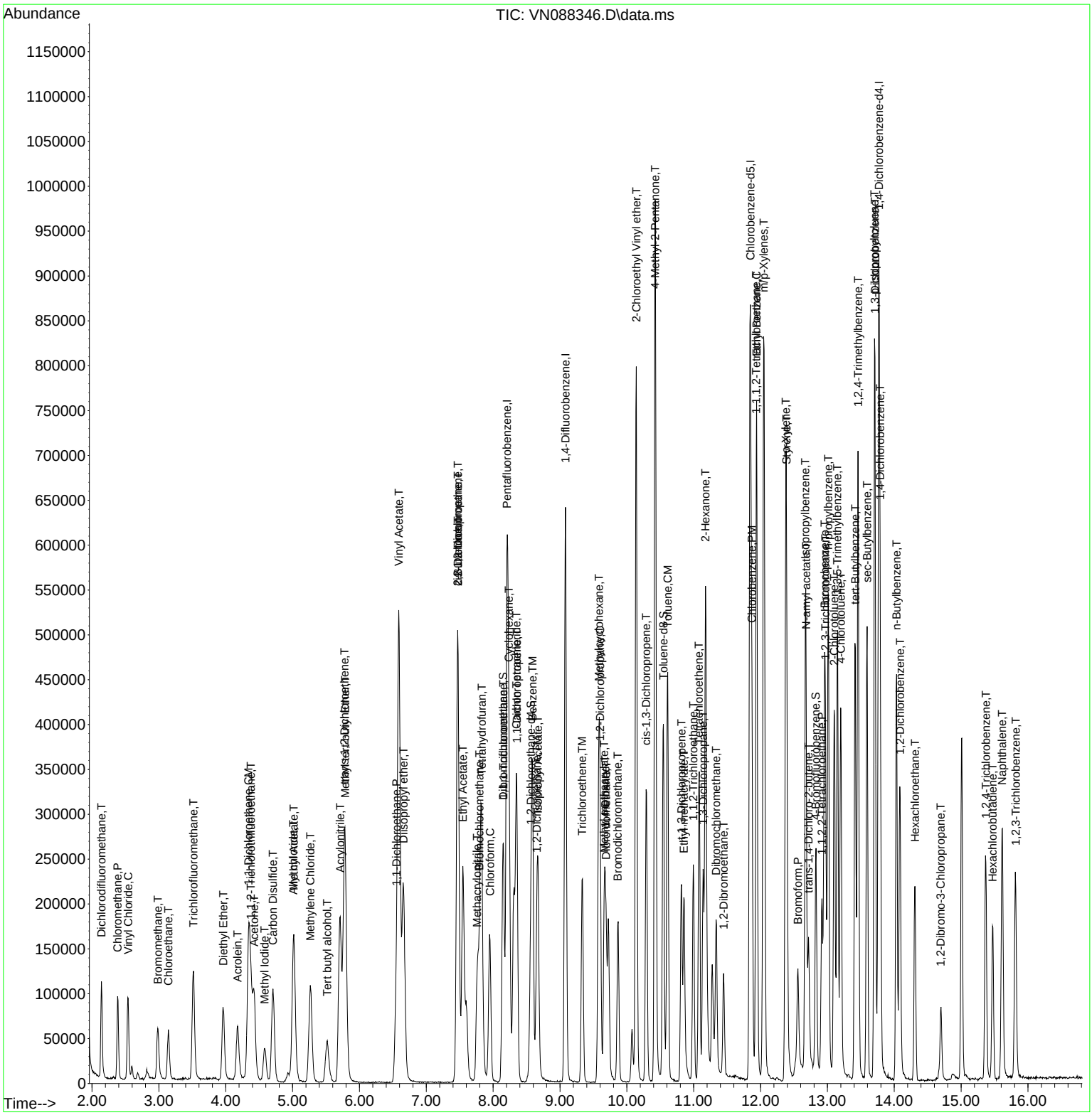
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088346.D
Acq On : 24 Nov 2025 13:32
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 01:10:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088347.D
Acq On : 24 Nov 2025 13:53
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Quant Time: Nov 25 01:11:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 254412 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.082 | 114 | 480905 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.847 | 117 | 425874 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 208615 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.559 | 65 | 254050 | 55.205 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 110.400% | | | |
| 35) Dibromofluoromethane | 8.153 | 113 | 168216 | 51.013 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 102.020% | | | |
| 50) Toluene-d8 | 10.547 | 98 | 618062 | 49.180 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 98.360% | | | |
| 62) 4-Bromofluorobenzene | 12.823 | 95 | 215443 | 48.802 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 97.600% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.142 | 85 | 188518 | 60.616 | ug/l | 100 |
| 3) Chloromethane | 2.383 | 50 | 203776 | 56.367 | ug/l | 100 |
| 4) Vinyl Chloride | 2.536 | 62 | 206493 | 53.300 | ug/l | 100 |
| 5) Bromomethane | 2.977 | 94 | 100800 | 44.679 | ug/l | 100 |
| 6) Chloroethane | 3.142 | 64 | 128383 | 47.055 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.512 | 101 | 277710 | 46.418 | ug/l | 100 |
| 8) Diethyl Ether | 3.959 | 74 | 112943 | 49.408 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 4.365 | 101 | 143560 | 46.270 | ug/l | 100 |
| 10) Methyl Iodide | 4.589 | 142 | 168409 | 56.580 | ug/l | 100 |
| 11) Tert butyl alcohol | 5.512 | 59 | 205132 | 254.997 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.336 | 96 | 144499 | 43.959 | ug/l | 100 |
| 13) Acrolein | 4.177 | 56 | 191880 | 218.057 | ug/l | 100 |
| 14) Allyl chloride | 5.012 | 41 | 292223 | 49.615 | ug/l | 100 |
| 15) Acrylonitrile | 5.706 | 53 | 593191 | 271.445 | ug/l | 100 |
| 16) Acetone | 4.418 | 43 | 425884 | 191.549 | ug/l | 100 |
| 17) Carbon Disulfide | 4.706 | 76 | 504570 | 49.738 | ug/l | 100 |
| 18) Methyl Acetate | 5.018 | 43 | 266978 | 55.261 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.783 | 73 | 637167 | 51.594 | ug/l | 100 |
| 20) Methylene Chloride | 5.265 | 84 | 192304 | 49.396 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.771 | 96 | 174454 | 47.971 | ug/l | 100 |
| 22) Diisopropyl ether | 6.659 | 45 | 656293 | 53.019 | ug/l | 100 |
| 23) Vinyl Acetate | 6.588 | 43 | 2718764m | 248.116 | ug/l | |
| 24) 1,1-Dichloroethane | 6.559 | 63 | 362987 | 52.841 | ug/l | 100 |
| 25) 2-Butanone | 7.465 | 43 | 757688 | 250.619 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.471 | 77 | 306308 | 49.612 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.471 | 96 | 210902 | 50.066 | ug/l | 100 |
| 28) Bromochloromethane | 7.794 | 49 | 186871 | 58.241 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.824 | 42 | 545947 | 271.517 | ug/l | 100 |
| 30) Chloroform | 7.947 | 83 | 354218 | 51.927 | ug/l | 100 |
| 31) Cyclohexane | 8.235 | 56 | 288267 | 45.549 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 8.153 | 97 | 294555 | 48.942 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 8.353 | 75 | 236320 | 48.678 | ug/l | 100 |
| 37) Ethyl Acetate | 7.547 | 43 | 346328 | 53.657 | ug/l | 100 |
| 38) Carbon Tetrachloride | 8.347 | 117 | 240067 | 47.979 | ug/l | 100 |
| 39) Methylcyclohexane | 9.582 | 83 | 253638 | 41.789 | ug/l | 100 |
| 40) Benzene | 8.588 | 78 | 749637 | 50.260 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088347.D
Acq On : 24 Nov 2025 13:53
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 25 01:11:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.759 | 41 | 171571 | 51.334 ug/l | 100 |
| 42) 1,2-Dichloroethane | 8.653 | 62 | 295993 | 54.896 ug/l | 100 |
| 43) Isopropyl Acetate | 8.671 | 43 | 536716 | 54.522 ug/l | 100 |
| 44) Trichloroethene | 9.329 | 130 | 171828 | 49.440 ug/l | 100 |
| 45) 1,2-Dichloropropane | 9.600 | 63 | 195340 | 51.585 ug/l | 100 |
| 46) Dibromomethane | 9.688 | 93 | 140875 | 52.056 ug/l | 100 |
| 47) Bromodichloromethane | 9.871 | 83 | 283447 | 52.293 ug/l | 100 |
| 48) Methyl methacrylate | 9.659 | 41 | 246767 | 54.300 ug/l | 100 |
| 49) 1,4-Dioxane | 9.676 | 88 | 63666 | 1111.677 ug/l # | 100 |
| 51) 4-Methyl-2-Pentanone | 10.423 | 43 | 1618000 | 277.304 ug/l | 100 |
| 52) Toluene | 10.606 | 92 | 439167 | 48.202 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.812 | 75 | 303537 | 52.732 ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 10.294 | 75 | 318360 | 52.127 ug/l | 100 |
| 55) 1,1,2-Trichloroethane | 10.994 | 97 | 169966 | 48.898 ug/l | 100 |
| 56) Ethyl methacrylate | 10.853 | 69 | 296224 | 53.440 ug/l | 100 |
| 57) 1,3-Dichloropropane | 11.141 | 76 | 309692 | 50.536 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 10.141 | 63 | 875006 | 295.946 ug/l | 100 |
| 59) 2-Hexanone | 11.176 | 43 | 1048582 | 273.278 ug/l | 100 |
| 60) Dibromochloromethane | 11.335 | 129 | 196756 | 49.794 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.447 | 107 | 177630 | 49.512 ug/l | 100 |
| 64) Tetrachloroethene | 11.082 | 164 | 160566 | 53.914 ug/l | 100 |
| 65) Chlorobenzene | 11.870 | 112 | 471088 | 47.564 ug/l | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.941 | 131 | 162993 | 49.826 ug/l | 100 |
| 67) Ethyl Benzene | 11.941 | 91 | 825262 | 47.473 ug/l | 100 |
| 68) m/p-Xylenes | 12.047 | 106 | 624414 | 96.067 ug/l | 100 |
| 69) o-Xylene | 12.376 | 106 | 296307 | 48.105 ug/l | 100 |
| 70) Styrene | 12.388 | 104 | 508032 | 50.349 ug/l | 100 |
| 71) Bromoform | 12.559 | 173 | 121394 | 49.795 ug/l # | 100 |
| 73) Isopropylbenzene | 12.670 | 105 | 756073 | 46.091 ug/l | 100 |
| 74) N-amyl acetate | 12.500 | 43 | 218031 | 46.667 ug/l | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.917 | 83 | 235147 | 45.856 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.970 | 75 | 250728m | 50.561 ug/l | |
| 77) Bromobenzene | 12.959 | 156 | 179949 | 50.105 ug/l | 100 |
| 78) n-propylbenzene | 13.012 | 91 | 926041 | 46.319 ug/l | 100 |
| 79) 2-Chlorotoluene | 13.100 | 91 | 563004 | 48.901 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 13.153 | 105 | 636506 | 46.704 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.717 | 75 | 89717 | 49.717 ug/l # | 100 |
| 82) 4-Chlorotoluene | 13.200 | 91 | 595484 | 47.756 ug/l | 100 |
| 83) tert-Butylbenzene | 13.412 | 119 | 523419 | 43.467 ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.459 | 105 | 649135 | 47.534 ug/l | 100 |
| 85) sec-Butylbenzene | 13.594 | 105 | 752927 | 42.729 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.706 | 119 | 635661 | 44.782 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.711 | 146 | 334974 | 47.290 ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 13.788 | 146 | 350784 | 45.940 ug/l | 100 |
| 89) n-Butylbenzene | 14.035 | 91 | 599399 | 42.911 ug/l | 100 |
| 90) Hexachloroethane | 14.306 | 117 | 111560 | 40.952 ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 14.082 | 146 | 317314 | 46.414 ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.694 | 75 | 60137 | 49.387 ug/l | 100 |
| 93) 1,2,4-Trichlorobenzene | 15.364 | 180 | 185506 | 45.066 ug/l | 100 |
| 94) Hexachlorobutadiene | 15.470 | 225 | 61955 | 41.064 ug/l | 100 |
| 95) Naphthalene | 15.611 | 128 | 686671 | 48.217 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.811 | 180 | 182475 | 45.925 ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088347.D
Acq On : 24 Nov 2025 13:53
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Quant Time: Nov 25 01:11:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 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

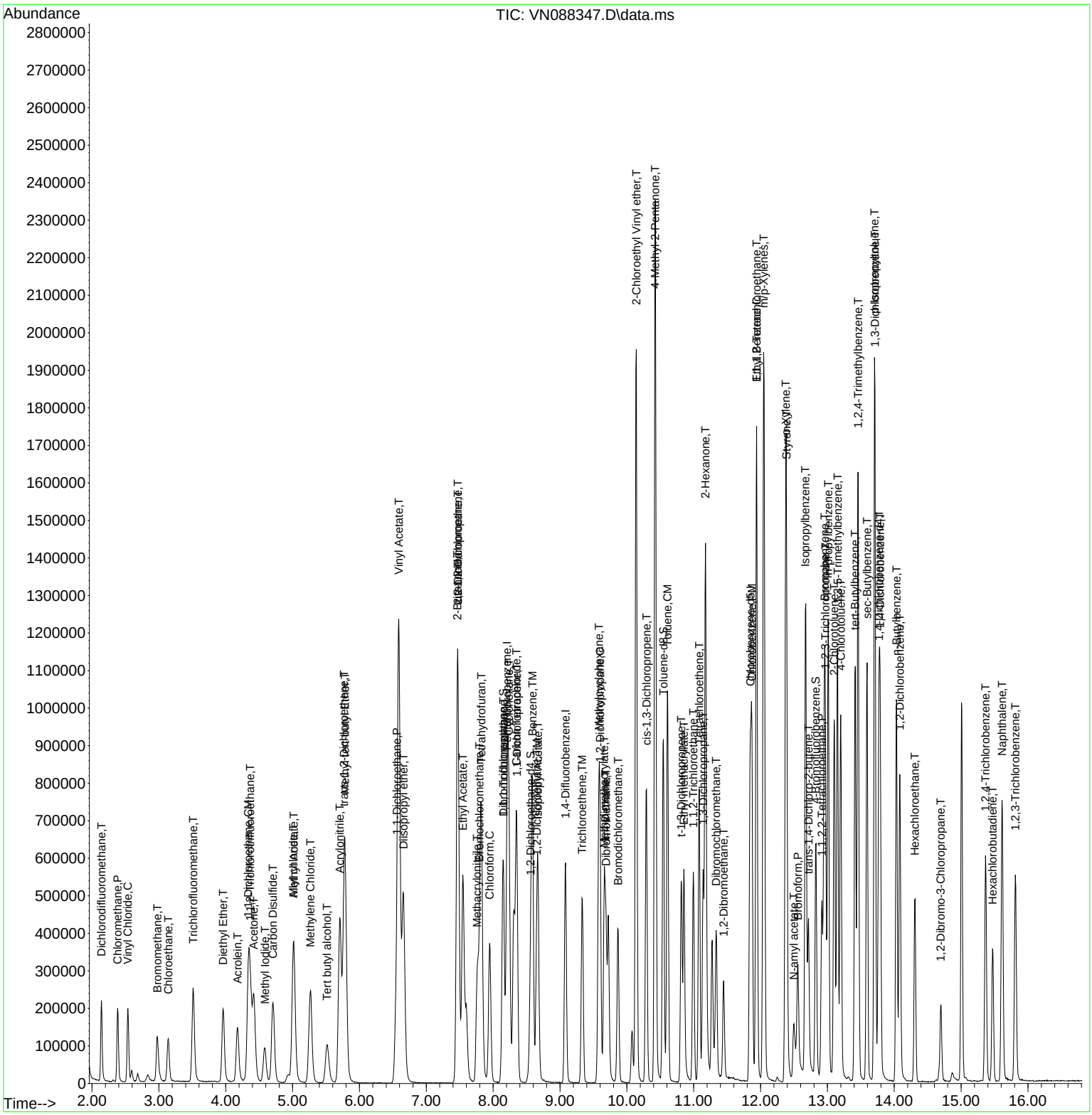
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088347.D
Acq On : 24 Nov 2025 13:53
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 25 01:11:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088348.D
Acq On : 24 Nov 2025 14:14
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 25 01:12:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 285895 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.083 | 114 | 501695 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.847 | 117 | 439316 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 219473 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.559 | 65 | 504045 | 97.467 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 194.940%# | | | |
| 35) Dibromofluoromethane | 8.147 | 113 | 335348 | 97.484 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 194.960%# | | | |
| 50) Toluene-d8 | 10.547 | 98 | 1312124 | 100.081 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 200.160%# | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 467895 | 101.595 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 203.200%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.142 | 85 | 479358 | 137.160 | ug/l | 100 |
| 3) Chloromethane | 2.383 | 50 | 434116 | 106.858 | ug/l | 98 |
| 4) Vinyl Chloride | 2.536 | 62 | 478320 | 109.869 | ug/l | 98 |
| 5) Bromomethane | 2.965 | 94 | 221311 | 87.292 | ug/l | 99 |
| 6) Chloroethane | 3.130 | 64 | 287091 | 93.637 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.506 | 101 | 686944 | 102.176 | ug/l | 99 |
| 8) Diethyl Ether | 3.959 | 74 | 229525 | 89.352 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.365 | 101 | 361718 | 103.745 | ug/l | 100 |
| 10) Methyl Iodide | 4.577 | 142 | 377533 | 112.872 | ug/l | 97 |
| 11) Tert butyl alcohol | 5.524 | 59 | 406566 | 449.741 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.336 | 96 | 340010 | 92.046 | ug/l | 96 |
| 13) Acrolein | 4.177 | 56 | 409205 | 413.820 | ug/l | 99 |
| 14) Allyl chloride | 5.012 | 41 | 647046m | 97.762 | ug/l | |
| 15) Acrylonitrile | 5.706 | 53 | 1189524 | 484.386 | ug/l | 99 |
| 16) Acetone | 4.418 | 43 | 872591 | 349.245 | ug/l | 98 |
| 17) Carbon Disulfide | 4.706 | 76 | 1141513 | 100.133 | ug/l | 99 |
| 18) Methyl Acetate | 5.018 | 43 | 555796 | 102.374 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.783 | 73 | 1295144 | 93.325 | ug/l | 100 |
| 20) Methylene Chloride | 5.265 | 84 | 392179 | 89.644 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.777 | 96 | 369984 | 90.533 | ug/l | 98 |
| 22) Diisopropyl ether | 6.659 | 45 | 1349029 | 96.981 | ug/l | 97 |
| 23) Vinyl Acetate | 6.589 | 43 | 5554188m | 451.061 | ug/l | |
| 24) 1,1-Dichloroethane | 6.553 | 63 | 755476 | 97.866 | ug/l | 98 |
| 25) 2-Butanone | 7.471 | 43 | 1542855 | 454.129 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 7.477 | 77 | 672523 | 96.933 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.471 | 96 | 427126 | 90.230 | ug/l | 98 |
| 28) Bromochloromethane | 7.800 | 49 | 356867 | 98.975 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.824 | 42 | 1096740 | 485.379 | ug/l | 99 |
| 30) Chloroform | 7.947 | 83 | 738399 | 96.326 | ug/l | 100 |
| 31) Cyclohexane | 8.241 | 56 | 707339 | 99.459 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 8.147 | 97 | 666887 | 98.605 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.353 | 75 | 549319 | 108.461 | ug/l | 99 |
| 37) Ethyl Acetate | 7.547 | 43 | 682857 | 101.412 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.341 | 117 | 571861 | 109.553 | ug/l | 97 |
| 39) Methylcyclohexane | 9.577 | 83 | 663987 | 104.863 | ug/l | 96 |
| 40) Benzene | 8.588 | 78 | 1564367 | 100.538 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088348.D
Acq On : 24 Nov 2025 14:14
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 25 01:12:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.759 | 41 | 349832 | 100.333 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.653 | 62 | 599011 | 106.490 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.671 | 43 | 1079559 | 105.122 | ug/l | | 99 |
| 44) Trichloroethene | 9.335 | 130 | 372568 | 102.756 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.600 | 63 | 396928 | 100.477 | ug/l | | 96 |
| 46) Dibromomethane | 9.688 | 93 | 284059 | 100.615 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.871 | 83 | 585372 | 103.520 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.659 | 41 | 512503 | 108.100 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.682 | 88 | 124110 | 2077.291 | ug/l | # | 98 |
| 51) 4-Methyl-2-Pentanone | 10.424 | 43 | 3302590 | 542.564 | ug/l | | 100 |
| 52) Toluene | 10.606 | 92 | 962754 | 101.291 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.818 | 75 | 633621 | 105.515 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 10.294 | 75 | 656506 | 103.040 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.994 | 97 | 342175 | 94.361 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.853 | 69 | 625749 | 108.210 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 11.141 | 76 | 640348 | 100.162 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 10.141 | 63 | 1692209 | 548.624 | ug/l | | 100 |
| 59) 2-Hexanone | 11.177 | 43 | 2217550 | 553.982 | ug/l | | 99 |
| 60) Dibromochloromethane | 11.335 | 129 | 410889 | 99.677 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.447 | 107 | 368152 | 98.366 | ug/l | | 100 |
| 64) Tetrachloroethene | 11.082 | 164 | 357404 | 116.335 | ug/l | | 95 |
| 65) Chlorobenzene | 11.871 | 112 | 1006420 | 98.505 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.941 | 131 | 338748 | 100.385 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.941 | 91 | 1873691 | 104.486 | ug/l | | 99 |
| 68) m/p-Xylenes | 12.047 | 106 | 1384206 | 206.446 | ug/l | | 97 |
| 69) o-Xylene | 12.376 | 106 | 657970 | 103.552 | ug/l | | 99 |
| 70) Styrene | 12.388 | 104 | 1127962 | 108.366 | ug/l | | 99 |
| 71) Bromoform | 12.559 | 173 | 265738 | 105.669 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.671 | 105 | 1773457 | 102.764 | ug/l | | 100 |
| 74) N-amyl acetate | 12.488 | 43 | 587472 | 119.520 | ug/l | | 95 |
| 75) 1,1,2,2-Tetrachloroethane | 12.918 | 83 | 498007 | 92.311 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.971 | 75 | 516579m | 99.018 | ug/l | | |
| 77) Bromobenzene | 12.959 | 156 | 379553 | 100.455 | ug/l | | 99 |
| 78) n-propylbenzene | 13.012 | 91 | 2164268 | 102.898 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 13.106 | 91 | 1244218 | 102.723 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 13.153 | 105 | 1451677 | 101.248 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.718 | 75 | 198381 | 104.496 | ug/l | # | 88 |
| 82) 4-Chlorotoluene | 13.200 | 91 | 1292288 | 98.511 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.418 | 119 | 1236180 | 97.579 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.459 | 105 | 1467849 | 102.168 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.594 | 105 | 1809286 | 97.599 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.706 | 119 | 1507703 | 100.961 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.712 | 146 | 735647 | 98.718 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.788 | 146 | 746880 | 92.975 | ug/l | | 99 |
| 89) n-Butylbenzene | 14.035 | 91 | 1480732 | 100.761 | ug/l | | 99 |
| 90) Hexachloroethane | 14.312 | 117 | 265251 | 92.554 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 14.082 | 146 | 700211 | 97.354 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.700 | 75 | 131734 | 102.833 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 15.364 | 180 | 419347 | 96.834 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.476 | 225 | 155408 | 97.909 | ug/l | | 97 |
| 95) Naphthalene | 15.612 | 128 | 1528952 | 102.050 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.812 | 180 | 408194 | 97.651 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088348.D
Acq On : 24 Nov 2025 14:14
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Quant Time: Nov 25 01:12:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 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

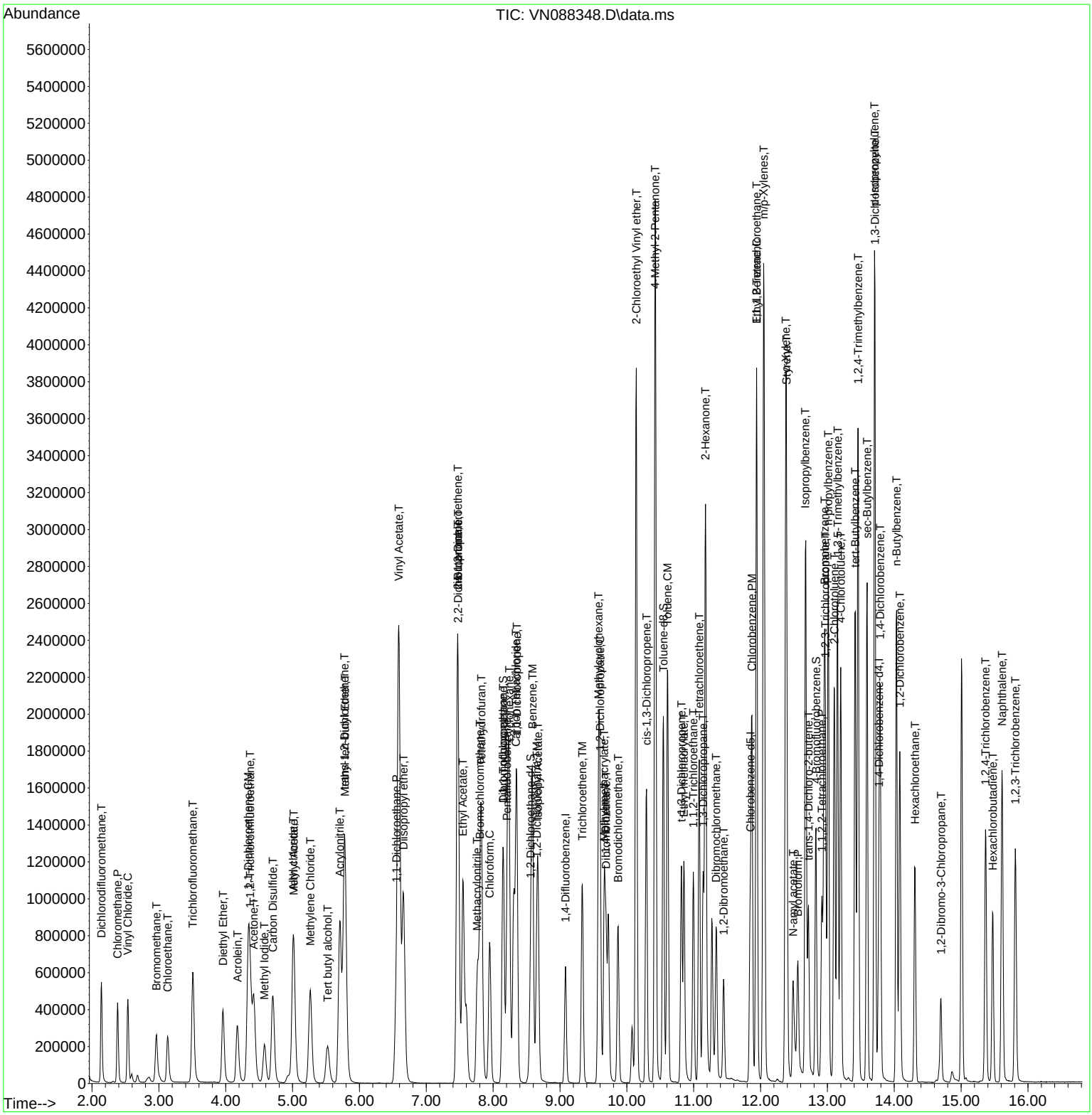
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088348.D
Acq On : 24 Nov 2025 14:14
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 25 01:12:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088349.D
Acq On : 24 Nov 2025 14:35
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 25 01:13:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 278091 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.083 | 114 | 508326 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.847 | 117 | 457447 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 226673 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.559 | 65 | 800654 | 159.167 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 318.340%# | | | |
| 35) Dibromofluoromethane | 8.147 | 113 | 514160 | 147.513 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 295.020%# | | | |
| 50) Toluene-d8 | 10.547 | 98 | 2002008 | 150.709 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 301.420%# | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 734676 | 157.441 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 314.880%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.142 | 85 | 614298 | 180.703 | ug/l | 97 |
| 3) Chloromethane | 2.383 | 50 | 637070 | 161.216 | ug/l | 98 |
| 4) Vinyl Chloride | 2.536 | 62 | 643786 | 152.025 | ug/l | 99 |
| 5) Bromomethane | 2.948 | 94 | 327351 | 132.741 | ug/l | 99 |
| 6) Chloroethane | 3.124 | 64 | 404469 | 135.623 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.506 | 101 | 880178 | 134.591 | ug/l | 97 |
| 8) Diethyl Ether | 3.959 | 74 | 342692 | 137.150 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 4.365 | 101 | 461517 | 136.083 | ug/l | 99 |
| 10) Methyl Iodide | 4.583 | 142 | 530186 | 162.959 | ug/l | 96 |
| 11) Tert butyl alcohol | 5.524 | 59 | 615624 | 700.111 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.336 | 96 | 461833 | 128.534 | ug/l | 95 |
| 13) Acrolein | 4.177 | 56 | 614784 | 639.165 | ug/l | 98 |
| 14) Allyl chloride | 5.012 | 41 | 947252m | 147.136 | ug/l | |
| 15) Acrylonitrile | 5.706 | 53 | 1745154 | 730.587 | ug/l | 100 |
| 16) Acetone | 4.418 | 43 | 1310595 | 539.272 | ug/l | 100 |
| 17) Carbon Disulfide | 4.700 | 76 | 1529256 | 137.911 | ug/l | 99 |
| 18) Methyl Acetate | 5.018 | 43 | 822075 | 155.669 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.783 | 73 | 1946194 | 144.173 | ug/l | 97 |
| 20) Methylene Chloride | 5.259 | 84 | 565609 | 132.915 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.771 | 96 | 522186 | 131.362 | ug/l | 100 |
| 22) Diisopropyl ether | 6.659 | 45 | 2022262 | 149.459 | ug/l | 98 |
| 23) Vinyl Acetate | 6.589 | 43 | 8352858m | 697.381 | ug/l | |
| 24) 1,1-Dichloroethane | 6.553 | 63 | 1073175 | 142.923 | ug/l | 98 |
| 25) 2-Butanone | 7.471 | 43 | 2317712 | 701.347 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 7.477 | 77 | 948461 | 140.541 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.471 | 96 | 621100 | 134.889 | ug/l | 99 |
| 28) Bromochloromethane | 7.794 | 49 | 498418 | 142.113 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.824 | 42 | 1661991 | 756.181 | ug/l | 99 |
| 30) Chloroform | 7.947 | 83 | 1072381 | 143.821 | ug/l | 95 |
| 31) Cyclohexane | 8.236 | 56 | 925517 | 133.789 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 8.153 | 97 | 920717 | 139.956 | ug/l | 96 |
| 36) 1,1-Dichloropropene | 8.353 | 75 | 747080 | 145.584 | ug/l | 100 |
| 37) Ethyl Acetate | 7.547 | 43 | 1038194 | 152.172 | ug/l | 100 |
| 38) Carbon Tetrachloride | 8.341 | 117 | 776182 | 146.756 | ug/l | 96 |
| 39) Methylcyclohexane | 9.583 | 83 | 856176 | 133.452 | ug/l | 96 |
| 40) Benzene | 8.588 | 78 | 2252306 | 142.862 | ug/l | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088349.D
Acq On : 24 Nov 2025 14:35
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 25 01:13:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.759 | 41 | 533051 | 150.887 ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.653 | 62 | 895667 | 157.152 ug/l | | 99 |
| 43) Isopropyl Acetate | 8.671 | 43 | 1638317 | 157.450 ug/l | | 99 |
| 44) Trichloroethene | 9.335 | 130 | 529981 | 144.265 ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.600 | 63 | 581336 | 145.238 ug/l | | 95 |
| 46) Dibromomethane | 9.688 | 93 | 422737 | 147.782 ug/l | | 100 |
| 47) Bromodichloromethane | 9.871 | 83 | 863631 | 150.736 ug/l | | 100 |
| 48) Methyl methacrylate | 9.665 | 41 | 781838 | 162.758 ug/l | | 99 |
| 49) 1,4-Dioxane | 9.683 | 88 | 191377 | 3161.388 ug/l | # | 97 |
| 51) 4-Methyl-2-Pentanone | 10.424 | 43 | 4963362 | 804.767 ug/l | | 99 |
| 52) Toluene | 10.612 | 92 | 1389323 | 144.264 ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.818 | 75 | 953623 | 156.732 ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 10.294 | 75 | 975877 | 151.168 ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.994 | 97 | 513073 | 139.644 ug/l | | 99 |
| 56) Ethyl methacrylate | 10.853 | 69 | 954630 | 162.929 ug/l | | 99 |
| 57) 1,3-Dichloropropane | 11.141 | 76 | 948252 | 146.389 ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 10.141 | 63 | 2298552 | 735.483 ug/l | | 100 |
| 59) 2-Hexanone | 11.177 | 43 | 3427514 | 845.082 ug/l | | 99 |
| 60) Dibromochloromethane | 11.335 | 129 | 615359 | 147.332 ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.447 | 107 | 548222 | 144.568 ug/l | | 99 |
| 64) Tetrachloroethene | 11.082 | 164 | 503663 | 157.444 ug/l | | 98 |
| 65) Chlorobenzene | 11.871 | 112 | 1467895 | 137.978 ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.941 | 131 | 494738 | 140.800 ug/l | | 98 |
| 67) Ethyl Benzene | 11.941 | 91 | 2679329 | 143.490 ug/l | | 99 |
| 68) m/p-Xylenes | 12.047 | 106 | 1999338 | 286.370 ug/l | | 98 |
| 69) o-Xylene | 12.376 | 106 | 971419 | 146.823 ug/l | | 99 |
| 70) Styrene | 12.388 | 104 | 1660474 | 153.203 ug/l | | 99 |
| 71) Bromoform | 12.559 | 173 | 404703 | 154.550 ug/l | # | 99 |
| 73) Isopropylbenzene | 12.671 | 105 | 2520465 | 141.411 ug/l | | 99 |
| 74) N-amyl acetate | 12.482 | 43 | 1006304 | 198.228 ug/l | # | 95 |
| 75) 1,1,2,2-Tetrachloroethane | 12.918 | 83 | 735899 | 132.074 ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.971 | 75 | 778772m | 144.533 ug/l | | |
| 77) Bromobenzene | 12.959 | 156 | 554789 | 142.170 ug/l | | 97 |
| 78) n-propylbenzene | 13.012 | 91 | 3057578 | 140.752 ug/l | | 100 |
| 79) 2-Chlorotoluene | 13.100 | 91 | 1823307 | 145.751 ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 13.153 | 105 | 2086957 | 140.933 ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.718 | 75 | 314465 | 160.381 ug/l | # | 91 |
| 82) 4-Chlorotoluene | 13.200 | 91 | 1905793 | 140.664 ug/l | | 99 |
| 83) tert-Butylbenzene | 13.418 | 119 | 1733611 | 132.498 ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.459 | 105 | 2111285 | 142.286 ug/l | | 99 |
| 85) sec-Butylbenzene | 13.594 | 105 | 2498053 | 130.473 ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.706 | 119 | 2089505 | 135.476 ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.712 | 146 | 1070574 | 139.099 ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.788 | 146 | 1093471 | 131.796 ug/l | | 99 |
| 89) n-Butylbenzene | 14.035 | 91 | 2025634 | 133.462 ug/l | | 99 |
| 90) Hexachloroethane | 14.306 | 117 | 376335 | 127.143 ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 14.082 | 146 | 1023417 | 137.771 ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.700 | 75 | 204222 | 154.355 ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 15.365 | 180 | 623560 | 139.416 ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.470 | 225 | 208495 | 127.182 ug/l | | 97 |
| 95) Naphthalene | 15.612 | 128 | 2308447 | 149.183 ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.812 | 180 | 605584 | 140.271 ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088349.D
Acq On : 24 Nov 2025 14:35
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Quant Time: Nov 25 01:13:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

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

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

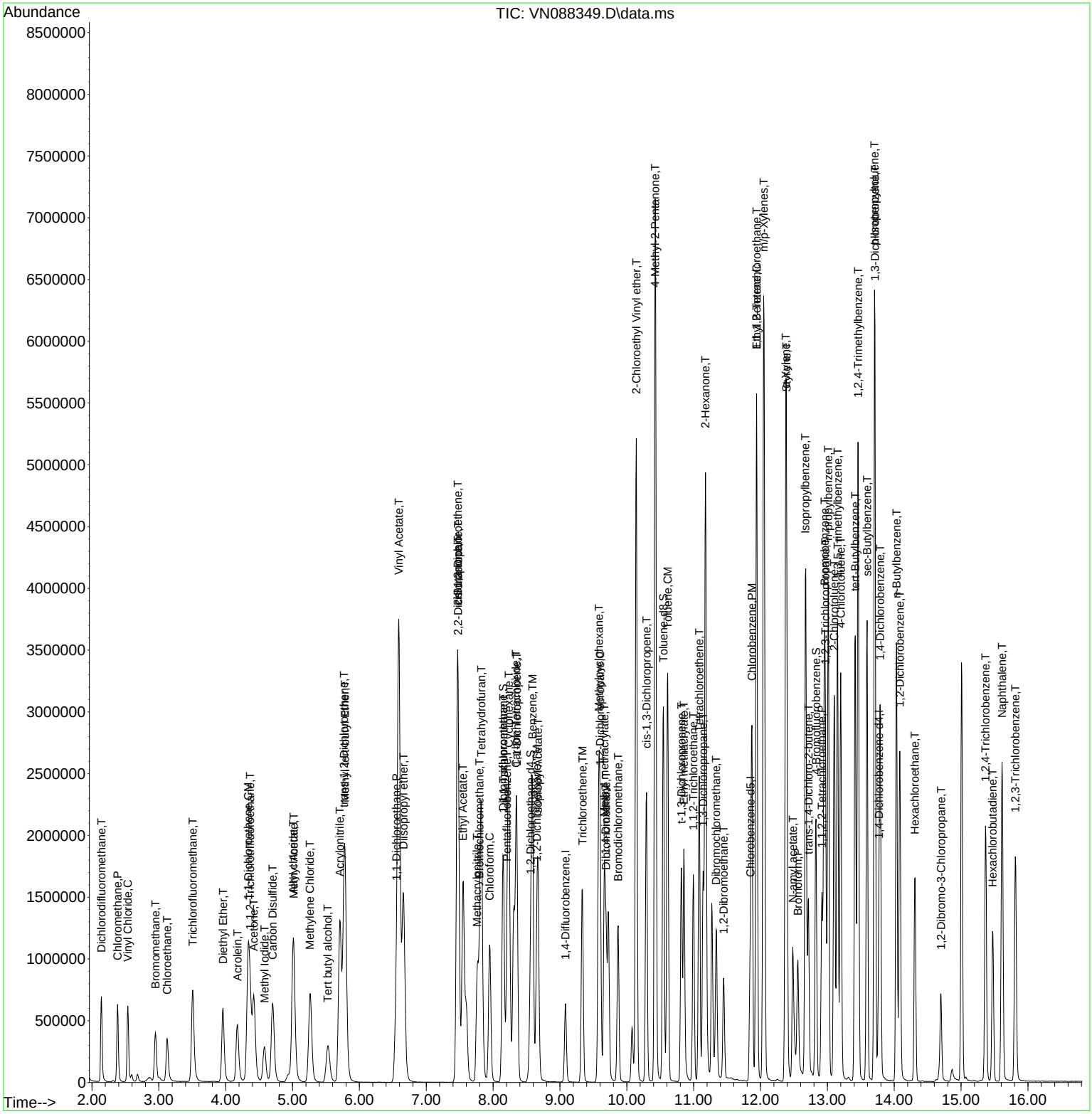
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088349.D
Acq On : 24 Nov 2025 14:35
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 25 01:13:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN112425

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 264693 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.082 | 114 | 504031 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.841 | 117 | 443578 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 211823 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.559 | 65 | 234844 | 47.098 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 94.200% | | | |
| 35) Dibromofluoromethane | 8.153 | 113 | 152840 | 43.757 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 87.520% | | | |
| 50) Toluene-d8 | 10.547 | 98 | 574351 | 44.193 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 88.380% | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 199878 | 44.823 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 89.640% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.142 | 85 | 204306 | 51.389 | ug/l | 96 |
| 3) Chloromethane | 2.383 | 50 | 224506 | 52.578 | ug/l | 98 |
| 4) Vinyl Chloride | 2.536 | 62 | 216512 | 49.842 | ug/l | 99 |
| 5) Bromomethane | 2.977 | 94 | 113722 | 54.393 | ug/l | 95 |
| 6) Chloroethane | 3.142 | 64 | 138310 | 51.450 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.512 | 101 | 304206 | 49.826 | ug/l | 96 |
| 8) Diethyl Ether | 3.965 | 74 | 122332 | 53.384 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.365 | 101 | 153067 | 47.094 | ug/l | 96 |
| 10) Methyl Iodide | 4.589 | 142 | 173671 | 53.976 | ug/l | 95 |
| 11) Tert butyl alcohol | 5.518 | 59 | 213569 | 268.272 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 158096 | 48.957 | ug/l | 94 |
| 13) Acrolein | 4.177 | 56 | 203235 | 266.656 | ug/l | 99 |
| 14) Allyl chloride | 5.018 | 41 | 321979 | 53.793 | ug/l | 99 |
| 15) Acrylonitrile | 5.706 | 53 | 637644 | 277.614 | ug/l | 99 |
| 16) Acetone | 4.418 | 43 | 450459 | 249.797 | ug/l | 100 |
| 17) Carbon Disulfide | 4.706 | 76 | 544067 | 51.558 | ug/l | 100 |
| 18) Methyl Acetate | 5.018 | 43 | 290918 | 54.196 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.783 | 73 | 694497 | 57.401 | ug/l | 95 |
| 20) Methylene Chloride | 5.265 | 84 | 208952 | 54.158 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.777 | 96 | 191102 | 53.421 | ug/l | 99 |
| 22) Diisopropyl ether | 6.653 | 45 | 719883 | 56.335 | ug/l | 97 |
| 23) Vinyl Acetate | 6.588 | 43 | 2915087m | 283.141 | ug/l | |
| 24) 1,1-Dichloroethane | 6.559 | 63 | 394512 | 54.516 | ug/l | 99 |
| 25) 2-Butanone | 7.471 | 43 | 807706 | 278.613 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 7.471 | 77 | 337031 | 53.957 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.471 | 96 | 223944 | 53.866 | ug/l | 99 |
| 28) Bromochloromethane | 7.794 | 49 | 167723 | 46.526 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.824 | 42 | 581218 | 279.515 | ug/l | 99 |
| 30) Chloroform | 7.947 | 83 | 383675 | 53.957 | ug/l | 95 |
| 31) Cyclohexane | 8.241 | 56 | 316159 | 48.211 | ug/l | 94 |
| 32) 1,1,1-Trichloroethane | 8.147 | 97 | 319795 | 51.150 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 8.353 | 75 | 253183 | 46.967 | ug/l | 98 |
| 37) Ethyl Acetate | 7.547 | 43 | 364546 | 51.431 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.341 | 117 | 262078 | 48.837 | ug/l | 98 |
| 39) Methylcyclohexane | 9.577 | 83 | 276272 | 47.913 | ug/l | 98 |
| 40) Benzene | 8.588 | 78 | 803742 | 50.800 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN112425

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.765 | 41 | 189164 | 53.883 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.653 | 62 | 318757 | 52.806 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.671 | 43 | 575762 | 53.165 | ug/l | | 100 |
| 44) Trichloroethene | 9.335 | 130 | 184844 | 49.444 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 9.600 | 63 | 211177 | 52.095 | ug/l | | 96 |
| 46) Dibromomethane | 9.688 | 93 | 152417 | 52.686 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.871 | 83 | 307856 | 52.155 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.665 | 41 | 269474 | 54.535 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.682 | 88 | 64188 | 1021.452 | ug/l | # | 99 |
| 51) 4-Methyl-2-Pentanone | 10.424 | 43 | 1745522 | 273.447 | ug/l | | 100 |
| 52) Toluene | 10.612 | 92 | 475044 | 51.998 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.812 | 75 | 323712 | 53.428 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 10.294 | 75 | 344582 | 54.081 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.994 | 97 | 182138 | 51.530 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.853 | 69 | 323702 | 57.977 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 11.141 | 76 | 338609 | 53.102 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 10.141 | 63 | 851755 | 264.613 | ug/l | | 100 |
| 59) 2-Hexanone | 11.176 | 43 | 1118254 | 278.086 | ug/l | | 99 |
| 60) Dibromochloromethane | 11.341 | 129 | 212150 | 52.650 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.447 | 107 | 191658 | 53.546 | ug/l | | 99 |
| 64) Tetrachloroethene | 11.082 | 164 | 164101 | 46.666 | ug/l | | 96 |
| 65) Chlorobenzene | 11.871 | 112 | 512644 | 51.452 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.941 | 131 | 174200 | 51.838 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.941 | 91 | 899198 | 51.635 | ug/l | | 100 |
| 68) m/p-Xylenes | 12.047 | 106 | 679183 | 105.191 | ug/l | | 99 |
| 69) o-Xylene | 12.376 | 106 | 322403 | 52.376 | ug/l | | 100 |
| 70) Styrene | 12.388 | 104 | 550033 | 55.031 | ug/l | | 100 |
| 71) Bromoform | 12.559 | 173 | 132448 | 53.811 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.670 | 105 | 827973 | 52.866 | ug/l | | 100 |
| 74) N-amyl acetate | 12.500 | 43 | 221082m | 41.449 | ug/l | | |
| 75) 1,1,2,2-Tetrachloroethane | 12.917 | 83 | 253948 | 50.155 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.970 | 75 | 269266m | 54.274 | ug/l | | |
| 77) Bromobenzene | 12.959 | 156 | 191381 | 53.406 | ug/l | | 98 |
| 78) n-propylbenzene | 13.012 | 91 | 1004887 | 52.446 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 13.106 | 91 | 599091 | 51.202 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 13.153 | 105 | 687007 | 52.936 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.717 | 75 | 96389 | 55.117 | ug/l | # | 95 |
| 82) 4-Chlorotoluene | 13.200 | 91 | 628637 | 54.093 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.417 | 119 | 569932 | 51.660 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.459 | 105 | 703272 | 54.519 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.594 | 105 | 812817 | 51.285 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.706 | 119 | 678617 | 52.216 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.712 | 146 | 357734 | 51.282 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.788 | 146 | 372290 | 50.949 | ug/l | | 98 |
| 89) n-Butylbenzene | 14.035 | 91 | 644062 | 51.040 | ug/l | | 99 |
| 90) Hexachloroethane | 14.306 | 117 | 118158 | 49.768 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 14.082 | 146 | 344212 | 52.435 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.700 | 75 | 62186 | 50.621 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.370 | 180 | 200095 | 51.301 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.476 | 225 | 64430 | 45.969 | ug/l | | 97 |
| 95) Naphthalene | 15.611 | 128 | 719827 | 53.258 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.811 | 180 | 188353 | 49.620 | ug/l | | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN112425

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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

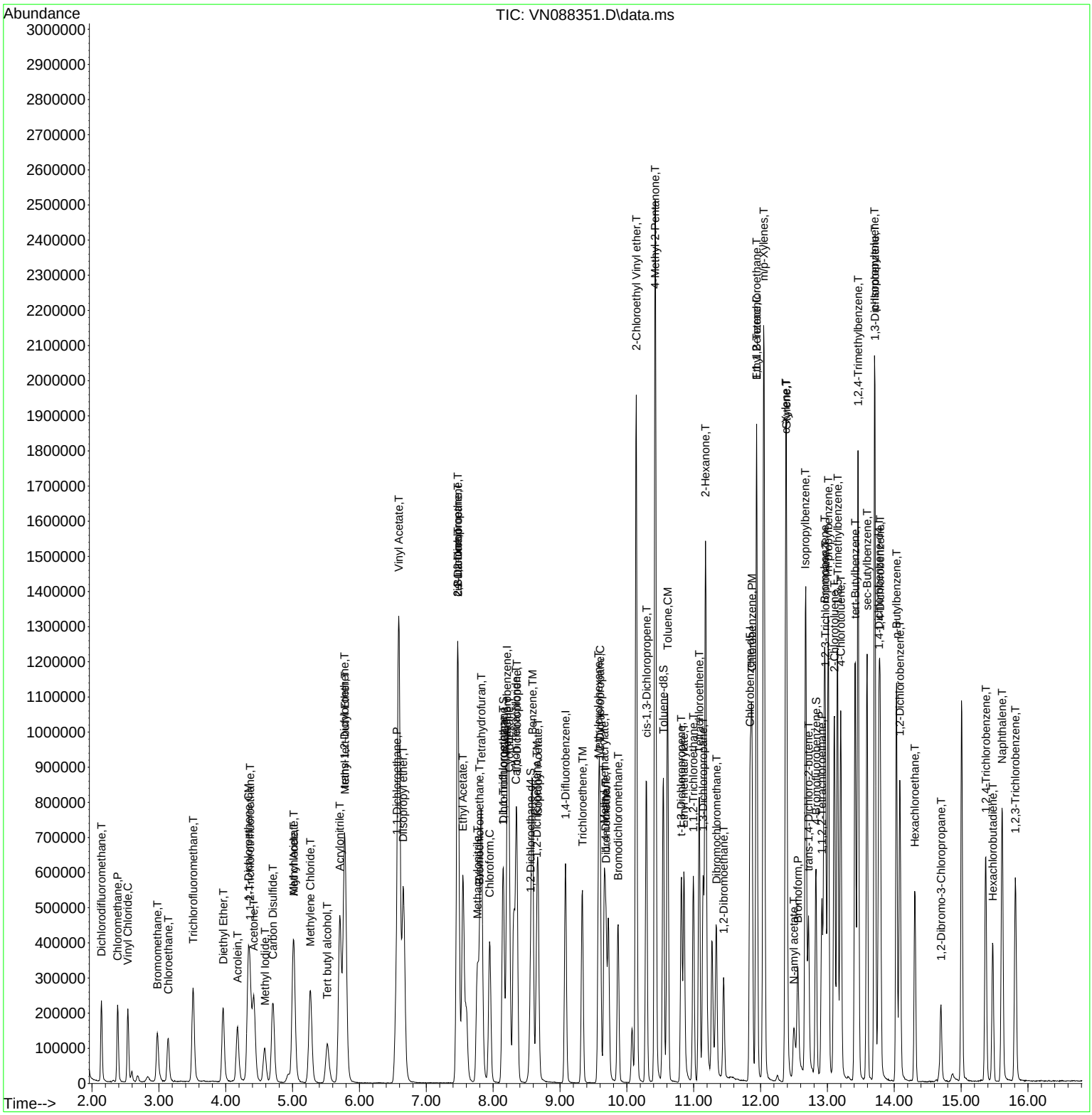
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN112425

**Manual Integrations APPROVED**

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025



# Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN112425

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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 | 104 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.751 | 0.772 | -2.8 | 108 | 0.00 |
| 3 | P | Chloromethane | 0.807 | 0.848 | -5.1 | 110 | 0.00 |
| 4 | C | Vinyl Chloride | 0.821 | 0.818 | 0.4# | 105 | 0.00 |
| 5 | T | Bromomethane | 0.395 | 0.430 | -8.9 | 113 | 0.00 |
| 6 | T | Chloroethane | 0.508 | 0.523 | -3.0 | 108 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.153 | 1.149 | 0.3 | 110 | 0.00 |
| 8 | T | Diethyl Ether | 0.433 | 0.462 | -6.7 | 108 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.614 | 0.578 | 5.9 | 107 | 0.00 |
| 10 | T | Methyl Iodide | 0.608 | 0.656 | -7.9 | 103 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.150 | 0.161 | -7.3 | 104 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.610 | 0.597 | 2.1# | 109 | 0.00 |
| 13 | T | Acrolein | 0.144 | 0.154 | -6.9 | 106 | 0.00 |
| 14 | T | Allyl chloride | 1.131 | 1.216 | -7.5 | 110 | 0.00 |
| 15 | T | Acrylonitrile | 0.434 | 0.482 | -11.1 | 107 | 0.00 |
| 16 | T | Acetone | 0.341 | 0.340 | 0.3 | 106 | 0.00 |
| 17 | T | Carbon Disulfide | 1.993 | 2.055 | -3.1 | 108 | 0.00 |
| 18 | T | Methyl Acetate | 1.014 | 1.099 | -8.4 | 109 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.285 | 2.624 | -14.8 | 109 | 0.00 |
| 20 | T | Methylene Chloride | 0.729 | 0.789 | -8.2 | 109 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.676 | 0.722 | -6.8 | 110 | 0.00 |
| 22 | T | Diisopropyl ether | 2.414 | 2.720 | -12.7 | 110 | 0.00 |
| 23 | T | Vinyl Acetate | 1.945 | 2.203 | -13.3 | 107 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.367 | 1.490 | -9.0 | 109 | 0.00 |
| 25 | T | 2-Butanone | 0.548 | 0.610 | -11.3 | 107 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.180 | 1.273 | -7.9 | 110 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.785 | 0.846 | -7.8 | 106 | 0.00 |
| 28 | T | Bromochloromethane | 0.681 | 0.634 | 6.9 | 90 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.393 | 0.439 | -11.7 | 106 | 0.00 |
| 30 | C | Chloroform | 1.343 | 1.450 | -8.0# | 108 | 0.00 |
| 31 | T | Cyclohexane | 1.239 | 1.194 | 3.6 | 110 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.181 | 1.208 | -2.3 | 109 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.942 | 0.887 | 5.8 | 92 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 105 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.346 | 0.303 | 12.4 | 91 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.535 | 0.502 | 6.2 | 107 | 0.00 |
| 37 | T | Ethyl Acetate | 0.703 | 0.723 | -2.8 | 105 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.532 | 0.520 | 2.3 | 109 | 0.00 |
| 39 | T | Methylcyclohexane | 0.572 | 0.548 | 4.2 | 109 | 0.00 |
| 40 | TM | Benzene | 1.570 | 1.595 | -1.6 | 107 | 0.00 |
| 41 | T | Methacrylonitrile | 0.348 | 0.375 | -7.8 | 110 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.599 | 0.632 | -5.5 | 108 | 0.00 |
| 43 | T | Isopropyl Acetate | 1.074 | 1.142 | -6.3 | 107 | 0.00 |
| 44 | TM | Trichloroethene | 0.371 | 0.367 | 1.1 | 108 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.402 | 0.419 | -4.2# | 108 | 0.00 |
| 46 | T | Dibromomethane | 0.287 | 0.302 | -5.2 | 108 | 0.00 |
| 47 | T | Bromodichloromethane | 0.586 | 0.611 | -4.3 | 109 | 0.00 |
| 48 | T | Methyl methacrylate | 0.490 | 0.535 | -9.2 | 109 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN112425

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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 | 0.006 | 0.006 | 0.0 | 101 | 0.00 |
| 50 | S | Toluene-d8 | 1.289 | 1.140 | 11.6 | 93 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.633 | 0.693 | -9.5 | 108 | 0.00 |
| 52 | CM | Toluene | 0.906 | 0.942 | -4.0# | 108 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.601 | 0.642 | -6.8 | 107 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.632 | 0.684 | -8.2 | 108 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.351 | 0.361 | -2.8 | 107 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.554 | 0.642 | -15.9 | 109 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.633 | 0.672 | -6.2 | 109 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.319 | 0.338 | -6.0 | 97 | 0.00 |
| 59 | T | 2-Hexanone | 0.399 | 0.444 | -11.3 | 107 | 0.00 |
| 60 | T | Dibromochloromethane | 0.400 | 0.421 | -5.2 | 108 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.355 | 0.380 | -7.0 | 108 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.442 | 0.397 | 10.2 | 93 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 64 | T | Tetrachloroethene | 0.396 | 0.370 | 6.6 | 102 | 0.00 |
| 65 | PM | Chlorobenzene | 1.123 | 1.156 | -2.9 | 109 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.379 | 0.393 | -3.7 | 107 | 0.00 |
| 67 | C | Ethyl Benzene | 1.963 | 2.027 | -3.3# | 109 | 0.00 |
| 68 | T | m/p-Xylenes | 0.728 | 0.766 | -5.2 | 109 | 0.00 |
| 69 | T | o-Xylene | 0.694 | 0.727 | -4.8 | 109 | 0.00 |
| 70 | T | Styrene | 1.127 | 1.240 | -10.0 | 108 | 0.00 |
| 71 | P | Bromoform | 0.277 | 0.299 | -7.9 | 109 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 73 | T | Isopropylbenzene | 3.697 | 3.909 | -5.7 | 110 | 0.00 |
| 74 | T | N-amyl acetate | 1.259 | 1.044 | 17.1 | 101 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.195 | 1.199 | -0.3 | 108 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.171 | 1.271 | -8.5 | 107 | 0.00 |
| 77 | T | Bromobenzene | 0.846 | 0.903 | -6.7 | 106 | 0.00 |
| 78 | T | n-propylbenzene | 4.523 | 4.744 | -4.9 | 109 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.762 | 2.828 | -2.4 | 106 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.063 | 3.243 | -5.9 | 108 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.413 | 0.455 | -10.2 | 107 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.743 | 2.968 | -8.2 | 106 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.604 | 2.691 | -3.3 | 109 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.045 | 3.320 | -9.0 | 108 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.741 | 3.837 | -2.6 | 108 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.068 | 3.204 | -4.4 | 107 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.647 | 1.689 | -2.6 | 107 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.725 | 1.758 | -1.9 | 106 | 0.00 |
| 89 | T | n-Butylbenzene | 2.979 | 3.041 | -2.1 | 107 | 0.00 |
| 90 | T | Hexachloroethane | 0.560 | 0.558 | 0.4 | 106 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.550 | 1.625 | -4.8 | 108 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.290 | 0.294 | -1.4 | 103 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.921 | 0.945 | -2.6 | 108 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.331 | 0.304 | 8.2 | 104 | 0.00 |
| 95 | T | Naphthalene | 3.190 | 3.398 | -6.5 | 105 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN112425

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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 | 0.896 | 0.889 | 0.8 | 103 | 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_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN112425

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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 | 104 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 51.389 | -2.8 | 108 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 52.578 | -5.2 | 110 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 49.842 | 0.3# | 105 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 54.393 | -8.8 | 113 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 51.450 | -2.9 | 108 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 49.826 | 0.3 | 110 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 53.384 | -6.8 | 108 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 47.094 | 5.8 | 107 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 53.976 | -8.0 | 103 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 268.272 | -7.3 | 104 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 48.957 | 2.1# | 109 | 0.00 |
| 13 | T | Acrolein | 250.000 | 266.656 | -6.7 | 106 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 53.793 | -7.6 | 110 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 277.614 | -11.0 | 107 | 0.00 |
| 16 | T | Acetone | 250.000 | 249.797 | 0.1 | 106 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 51.558 | -3.1 | 108 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 54.196 | -8.4 | 109 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 57.401 | -14.8 | 109 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 54.158 | -8.3 | 109 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 53.421 | -6.8 | 110 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 56.335 | -12.7 | 110 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 283.141 | -13.3 | 107 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 54.516 | -9.0 | 109 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 278.613 | -11.4 | 107 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 53.957 | -7.9 | 110 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 53.866 | -7.7 | 106 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 46.526 | 6.9 | 90 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 279.515 | -11.8 | 106 | 0.00 |
| 30 | C | Chloroform | 50.000 | 53.957 | -7.9# | 108 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 48.211 | 3.6 | 110 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 51.150 | -2.3 | 109 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 47.098 | 5.8 | 92 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 105 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 43.757 | 12.5 | 91 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 46.967 | 6.1 | 107 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 51.431 | -2.9 | 105 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 48.837 | 2.3 | 109 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 47.913 | 4.2 | 109 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.800 | -1.6 | 107 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 53.883 | -7.8 | 110 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 52.806 | -5.6 | 108 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 53.165 | -6.3 | 107 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 49.444 | 1.1 | 108 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 52.095 | -4.2# | 108 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 52.686 | -5.4 | 108 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 52.155 | -4.3 | 109 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 54.535 | -9.1 | 109 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN112425

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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 | 1021.452 | -2.1 | 101 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 44.193 | 11.6 | 93 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 273.447 | -9.4 | 108 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.998 | -4.0# | 108 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 53.428 | -6.9 | 107 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 54.081 | -8.2 | 108 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 51.530 | -3.1 | 107 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 57.977 | -16.0 | 109 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 53.102 | -6.2 | 109 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 264.613 | -5.8 | 97 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 278.086 | -11.2 | 107 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 52.650 | -5.3 | 108 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 53.546 | -7.1 | 108 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 44.823 | 10.4 | 93 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 46.666 | 6.7 | 102 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 51.452 | -2.9 | 109 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.838 | -3.7 | 107 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 51.635 | -3.3# | 109 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 105.191 | -5.2 | 109 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 52.376 | -4.8 | 109 | 0.00 |
| 70 | T | Styrene | 50.000 | 55.031 | -10.1 | 108 | 0.00 |
| 71 | P | Bromoform | 50.000 | 53.811 | -7.6 | 109 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 52.866 | -5.7 | 110 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 41.449 | 17.1 | 101 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 50.155 | -0.3 | 108 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 54.274 | -8.5 | 107 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 53.406 | -6.8 | 106 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 52.446 | -4.9 | 109 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 51.202 | -2.4 | 106 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 52.936 | -5.9 | 108 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 55.117 | -10.2 | 107 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 54.093 | -8.2 | 106 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 51.660 | -3.3 | 109 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 54.519 | -9.0 | 108 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.285 | -2.6 | 108 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 52.216 | -4.4 | 107 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 51.282 | -2.6 | 107 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.949 | -1.9 | 106 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 51.040 | -2.1 | 107 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 49.768 | 0.5 | 106 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 52.435 | -4.9 | 108 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.621 | -1.2 | 103 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 51.301 | -2.6 | 108 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 45.969 | 8.1 | 104 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 53.258 | -6.5 | 105 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
ICVVN112425

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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 | 49.620 | 0.8 | 103 | 0.00 |

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

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: JACO05

Lab Code: ACE SDG No.: Q3757

Instrument ID: MSVOA_X Calibration Date(s): 12/04/2025 12/04/2025

Heated Purge: (Y/N) N Calibration Time(s): 08:47 10:38

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

LAB FILE ID: RRF001 = VX048714.D RRF005 = VX048715.D RRF020 = VX048716.D
RRF050 = VX048717.D RRF100 = VX048718.D RRF150 = VX048719.D

| COMPOUND | RRF001 | RRF005 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.704 | 0.624 | 0.667 | 0.709 | 0.700 | 0.704 | 0.685 | 4.9 |
| 1,1-Dichloroethene | 0.607 | 0.533 | 0.560 | 0.601 | 0.584 | 0.598 | 0.581 | 4.9 |
| 1,1-Dichloroethane | 1.208 | 0.803 | 1.038 | 0.910 | 1.223 | 0.914 | 1.016 | 16.9 |
| cis-1,2-Dichloroethene | 0.776 | 0.559 | 0.634 | 0.629 | 0.785 | 0.630 | 0.669 | 13.6 |
| 1,1,1-Trichloroethane | 1.091 | 0.859 | 0.955 | 0.912 | 1.013 | 1.023 | 0.975 | 8.6 |
| Benzene | 1.508 | 1.396 | 1.314 | 1.323 | 1.402 | 1.444 | 1.398 | 5.2 |
| 1,2-Dichloroethane | 0.554 | 0.497 | 0.439 | 0.452 | 0.525 | 0.502 | 0.495 | 8.7 |
| Trichloroethene | 0.387 | 0.340 | 0.363 | 0.367 | 0.345 | 0.387 | 0.365 | 5.4 |
| 1,1,2-Trichloroethane | 0.359 | 0.316 | 0.325 | 0.378 | 0.310 | 0.347 | 0.339 | 7.9 |
| Tetrachloroethene | 0.383 | 0.367 | 0.358 | 0.353 | 0.315 | 0.410 | 0.364 | 8.8 |
| 1,2-Dichloroethane-d4 | | 0.677 | 0.618 | 0.578 | 0.787 | 0.695 | 0.671 | 11.9 |
| Dibromofluoromethane | | 0.316 | 0.359 | 0.334 | 0.355 | 0.357 | 0.344 | 5.4 |
| Toluene-d8 | | 1.281 | 1.161 | 1.312 | 1.051 | 1.228 | 1.207 | 8.6 |
| 4-Bromofluorobenzene | | 0.416 | 0.418 | 0.459 | 0.397 | 0.391 | 0.416 | 6.4 |

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

# Response Factor Report MSVOA_X2

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X120425W.M
Title : SW846 8260
Last Update : Fri Dec 05 03:27:34 2025
Response Via : Initial Calibration

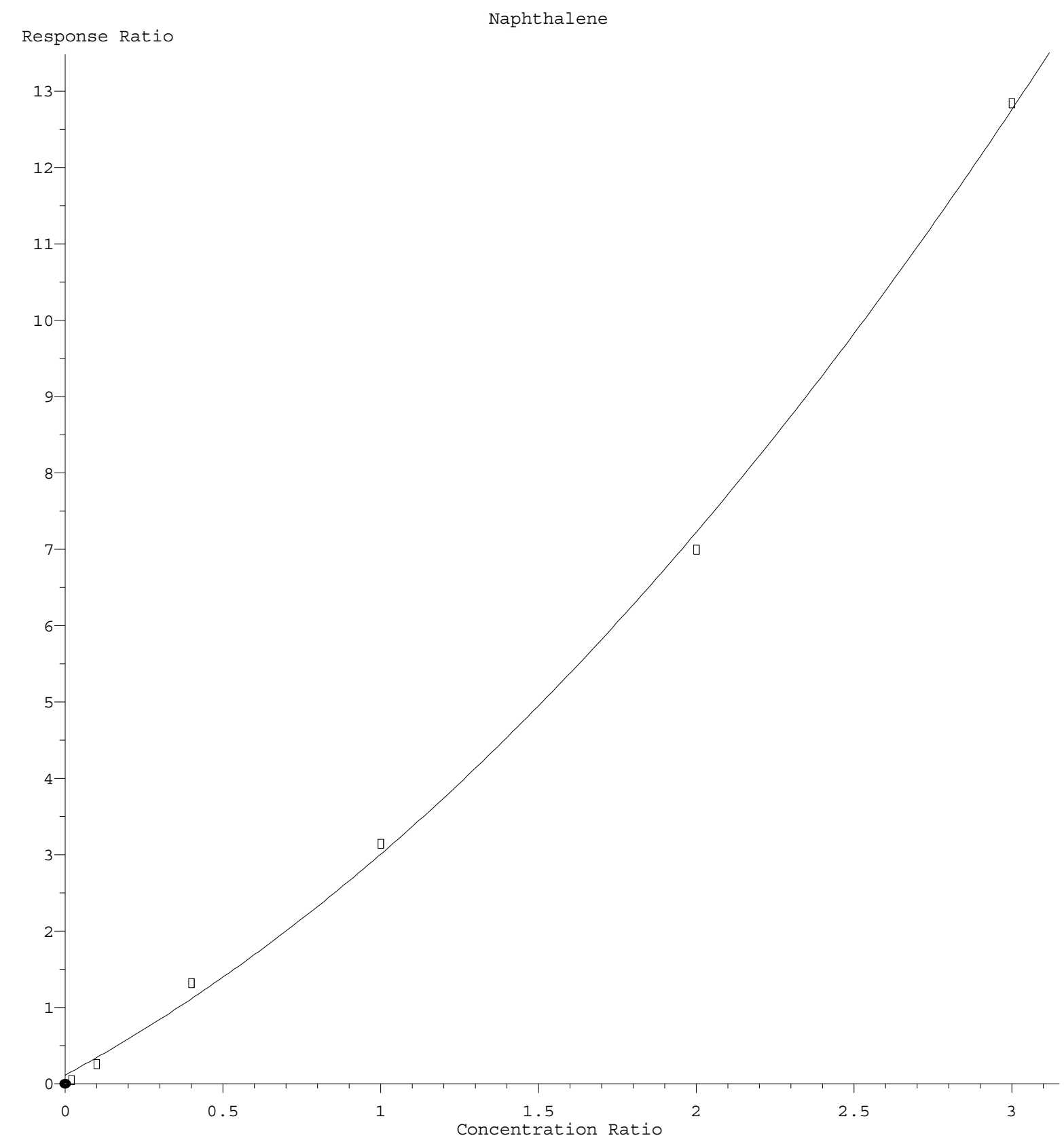
Calibration Files
1 =VX048714.D 5 =VX048715.D 20 =VX048716.D 50 =VX048717.D 100 =VX048718.D 150 =VX048719.D

| | | Compound | 1 | 5 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.478 | 0.435 | 0.536 | 0.572 | 0.496 | 0.540 | 0.509 | 9.72 |
| 3) | P | Chloromethane | 0.725 | 0.555 | 0.597 | 0.645 | 0.671 | 0.664 | 0.643 | 9.29 |
| 4) | C | Vinyl Chloride | 0.704 | 0.624 | 0.667 | 0.709 | 0.700 | 0.704 | 0.685 | 4.87# |
| 5) | T | Bromomethane | | 0.439 | 0.431 | 0.467 | 0.441 | 0.338 | 0.423 | 11.68 |
| 6) | T | Chloroethane | 0.516 | 0.366 | 0.394 | 0.426 | 0.434 | 0.420 | 0.426 | 11.88 |
| 7) | T | Trichlorofluor... | 0.999 | 0.934 | 0.972 | 1.032 | 0.940 | 1.011 | 0.981 | 4.01 |
| 8) | T | Diethyl Ether | 0.445 | 0.357 | 0.341 | 0.380 | 0.435 | 0.392 | 0.392 | 10.58 |
| 9) | T | 1,1,2-Trichlor... | 0.591 | 0.565 | 0.555 | 0.596 | 0.522 | 0.585 | 0.569 | 4.90 |
| 10) | T | Methyl Iodide | | 0.589 | 0.745 | 0.865 | 0.957 | 0.893 | 0.810 | 17.96 |
| 11) | T | Tert butyl alc... | | 0.086 | 0.106 | 0.115 | 0.137 | 0.098 | 0.108 | 17.56 |
| 12) | CM | 1,1-Dichloroet... | 0.607 | 0.533 | 0.560 | 0.601 | 0.584 | 0.598 | 0.581 | 4.95# |
| 13) | T | Acrolein | | 0.065 | 0.067 | 0.086 | 0.117 | 0.119 | 0.091 | 28.91 |
| 14) | T | Allyl chloride | 1.104 | 0.725 | 0.973 | 1.075 | 1.172 | 0.799 | 0.975 | 18.29 |
| 15) | T | Acrylonitrile | 0.366 | 0.256 | 0.326 | 0.367 | 0.423 | 0.288 | 0.338 | 17.97 |
| 16) | T | Acetone | 0.319 | 0.213 | 0.221 | 0.247 | 0.286 | 0.255 | 0.257 | 15.61 |
| 17) | T | Carbon Disulfide | 1.975 | 1.314 | 1.640 | 1.773 | 1.732 | 1.683 | 1.686 | 12.83 |
| 18) | T | Methyl Acetate | 0.831 | 0.525 | 0.697 | 0.777 | 0.907 | 0.600 | 0.723 | 19.86 |
| 19) | T | Methyl tert-bu... | 2.162 | 1.452 | 1.778 | 1.996 | 2.253 | 1.697 | 1.890 | 16.03 |
| 20) | T | Methylene Chlo... | 0.841 | 0.524 | 0.586 | 0.650 | 0.718 | 0.534 | 0.642 | 18.95 |
| 21) | T | trans-1,2-Dich... | 0.705 | 0.487 | 0.571 | 0.626 | 0.642 | 0.524 | 0.593 | 13.63 |
| 22) | T | Diisopropyl ether | 2.158 | 1.457 | 1.895 | 1.567 | 2.280 | 1.573 | 1.822 | 18.81 |
| 23) | T | Vinyl Acetate | 1.537 | 1.176 | 1.611 | 1.382 | 2.071 | 1.407 | 1.531 | 19.86 |
| 24) | P | 1,1-Dichloroet... | 1.208 | 0.803 | 1.038 | 0.910 | 1.223 | 0.914 | 1.016 | 16.91 |
| 25) | T | 2-Butanone | 0.399 | 0.286 | 0.402 | 0.337 | 0.507 | 0.344 | 0.379 | 20.00 |
| 26) | T | 2,2-Dichloropr... | 1.068 | 0.780 | 0.883 | 0.831 | 0.994 | 0.839 | 0.899 | 12.22 |
| 27) | T | cis-1,2-Dichlo... | 0.776 | 0.559 | 0.634 | 0.629 | 0.785 | 0.630 | 0.669 | 13.63 |
| 28) | T | Bromochloromet... | 0.565 | 0.416 | 0.496 | 0.417 | 0.611 | 0.483 | 0.498 | 15.73 |
| 29) | T | Tetrahydrofuran | 0.318 | 0.214 | 0.287 | 0.248 | 0.363 | 0.306 | 0.290 | 18.22 |
| 30) | C | Chloroform | 1.260 | 0.905 | 1.053 | 0.981 | 1.212 | 1.121 | 1.089 | 12.46# |
| 31) | T | Cyclohexane | | 0.969 | 0.963 | 0.797 | 0.861 | 0.946 | 0.907 | 8.33 |
| 32) | T | 1,1,1-Trichlor... | 1.091 | 0.859 | 0.955 | 0.912 | 1.013 | 1.023 | 0.975 | 8.59 |
| 33) | S | 1,2-Dichloroet... | | 0.677 | 0.618 | 0.578 | 0.787 | 0.695 | 0.671 | 11.91 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | | 0.316 | 0.359 | 0.334 | 0.355 | 0.357 | 0.344 | 5.37 |
| 36) | T | 1,1-Dichloropr... | 0.522 | 0.461 | 0.516 | 0.439 | 0.422 | 0.469 | 0.472 | 8.63 |
| 37) | T | Ethyl Acetate | 0.555 | 0.474 | 0.655 | 0.540 | 0.688 | 0.469 | 0.563 | 16.19 |
| 38) | T | Carbon Tetrach... | 0.501 | 0.572 | 0.590 | 0.528 | 0.476 | 0.538 | 0.534 | 8.00 |
| 39) | T | Methylcyclohexane | 0.539 | 0.540 | 0.550 | 0.642 | 0.478 | 0.596 | 0.558 | 10.06 |
| 40) | TM | Benzene | 1.508 | 1.396 | 1.314 | 1.323 | 1.402 | 1.444 | 1.398 | 5.24 |
| 41) | T | Methacrylonitrile | 0.217 | 0.205 | 0.302 | 0.242 | 0.307 | 0.264 | 0.256 | 16.65 |
| 42) | TM | 1,2-Dichloroet... | 0.554 | 0.497 | 0.439 | 0.452 | 0.525 | 0.502 | 0.495 | 8.74 |
| 43) | T | Isopropyl Acetate | 0.878 | 0.867 | 0.738 | 0.756 | 0.969 | 0.910 | 0.853 | 10.49 |
| 44) | TM | Trichloroethene | 0.387 | 0.340 | 0.363 | 0.367 | 0.345 | 0.387 | 0.365 | 5.42 |
| 45) | C | 1,2-Dichloropr... | 0.339 | 0.341 | 0.314 | 0.383 | 0.360 | 0.360 | 0.349 | 6.75# |
| 46) | T | Dibromomethane | 0.256 | 0.257 | 0.242 | 0.289 | 0.273 | 0.271 | 0.265 | 6.18 |
| 47) | T | Bromodichlorom... | 0.595 | 0.538 | 0.488 | 0.587 | 0.555 | 0.551 | 0.552 | 6.98 |
| 48) | T | Methyl methacr... | 0.427 | 0.395 | 0.355 | 0.465 | 0.480 | 0.453 | 0.429 | 10.99 |
| 49) | T | 1,4-Dioxane | 0.006 | 0.005 | 0.005 | 0.006 | 0.007 | 0.006 | 0.006 | 10.25 |
| 50) | S | Toluene-d8 | | 1.281 | 1.161 | 1.312 | 1.051 | 1.228 | 1.207 | 8.63 |
| 51) | T | 4-Methyl-2-Pen... | 0.547 | 0.544 | 0.470 | 0.605 | 0.460 | 0.552 | 0.530 | 10.40 |
| 52) | CM | Toluene | 0.838 | 0.786 | 0.831 | 0.964 | 0.751 | 0.888 | 0.843 | 8.96# |
| 53) | T | t-1,3-Dichloro... | 0.543 | 0.445 | 0.490 | 0.600 | 0.495 | 0.581 | 0.526 | 11.30 |
| 54) | T | cis-1,3-Dichlo... | 0.540 | 0.537 | 0.531 | 0.644 | 0.524 | 0.613 | 0.565 | 8.94 |
| 55) | T | 1,1,2-Trichlor... | 0.359 | 0.316 | 0.325 | 0.378 | 0.310 | 0.347 | 0.339 | 7.85 |
| 56) | T | Ethyl methacry... | 0.492 | 0.440 | 0.502 | 0.627 | 0.520 | 0.603 | 0.531 | 13.33 |

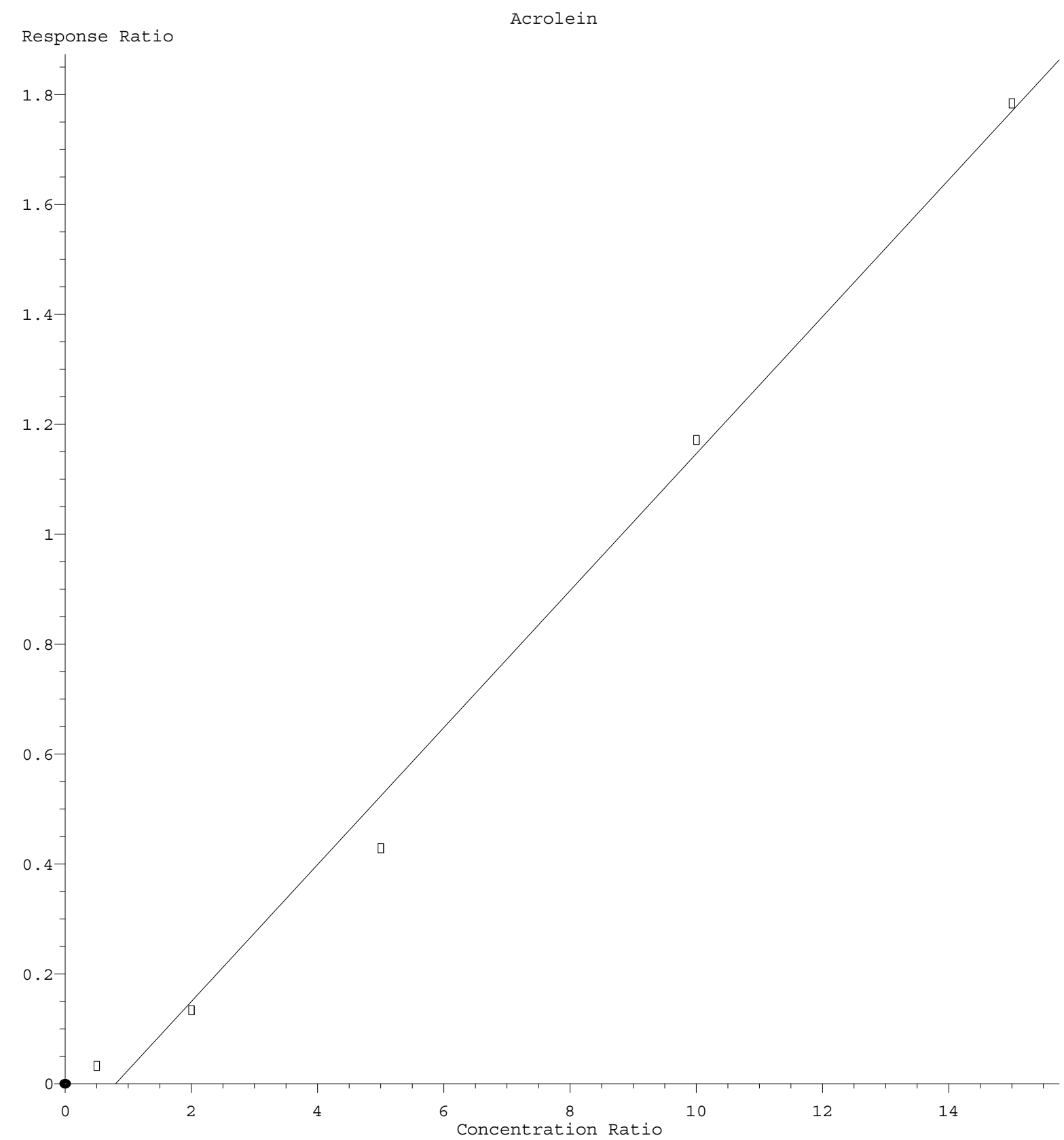
Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X120425W.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.620 | 0.509 | 0.535 | 0.628 | 0.513 | 0.579 | 0.564 | 9.39 |
| 58) | T | 2-Chloroethyl ... | 0.227 | 0.295 | 0.268 | 0.344 | 0.256 | 0.332 | 0.287 | 15.76 |
| 59) | T | 2-Hexanone | 0.383 | 0.311 | 0.345 | 0.442 | 0.342 | 0.408 | 0.372 | 13.02 |
| 60) | T | Dibromochlorom... | 0.415 | 0.390 | 0.412 | 0.467 | 0.401 | 0.431 | 0.419 | 6.54 |
| 61) | T | 1,2-Dibromoethane | 0.388 | 0.334 | 0.356 | 0.411 | 0.343 | 0.372 | 0.367 | 7.85 |
| 62) | S | 4-Bromofluorob... | | 0.416 | 0.418 | 0.459 | 0.397 | 0.391 | 0.416 | 6.39 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.383 | 0.367 | 0.358 | 0.353 | 0.315 | 0.410 | 0.364 | 8.76 |
| 65) | PM | Chlorobenzene | 1.181 | 1.082 | 1.060 | 1.087 | 1.044 | 1.113 | 1.094 | 4.45 |
| 66) | T | 1,1,1,2-Tetrac... | 0.434 | 0.376 | 0.367 | 0.380 | 0.382 | 0.410 | 0.391 | 6.47 |
| 67) | C | Ethyl Benzene | 1.741 | 1.720 | 1.759 | 1.893 | 1.702 | 1.900 | 1.786 | 4.93# |
| 68) | T | m/p-Xylenes | 0.699 | 0.675 | 0.684 | 0.717 | 0.664 | 0.736 | 0.696 | 3.89 |
| 69) | T | o-Xylene | 0.577 | 0.634 | 0.658 | 0.678 | 0.653 | 0.712 | 0.652 | 6.98 |
| 70) | T | Styrene | 0.989 | 1.068 | 1.129 | 1.170 | 1.134 | 1.223 | 1.119 | 7.28 |
| 71) | P | Bromoform | 0.334 | 0.331 | 0.335 | 0.328 | 0.372 | 0.395 | 0.349 | 7.94 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 3.175 | 3.265 | 3.404 | 3.633 | 3.155 | 3.586 | 3.369 | 6.12 |
| 74) | T | N-amyl acetate | 1.397 | 1.236 | 1.349 | 1.738 | 1.491 | 1.572 | 1.464 | 12.11 |
| 75) | P | 1,1,2,2-Tetrac... | 1.297 | 1.035 | 1.035 | 1.179 | 1.108 | 1.168 | 1.137 | 8.78 |
| 76) | T | 1,2,3-Trichlor... | 1.093 | 0.906 | 0.839 | 0.958 | 0.885 | 0.906 | 0.931 | 9.43 |
| 77) | T | Bromobenzene | 0.906 | 0.870 | 0.864 | 0.886 | 0.905 | 0.965 | 0.899 | 4.06 |
| 78) | T | n-propylbenzene | 3.763 | 3.672 | 3.959 | 4.306 | 3.582 | 4.133 | 3.902 | 7.19 |
| 79) | T | 2-Chlorotoluene | 2.399 | 2.263 | 2.342 | 2.521 | 2.260 | 2.493 | 2.380 | 4.70 |
| 80) | T | 1,3,5-Trimethy... | 2.581 | 2.644 | 2.831 | 2.948 | 2.635 | 2.978 | 2.770 | 6.22 |
| 81) | T | trans-1,4-Dich... | | 0.318 | 0.364 | 0.416 | 0.416 | 0.447 | 0.392 | 12.98 |
| 82) | T | 4-Chlorotoluene | 2.746 | 2.550 | 2.779 | 2.984 | 2.667 | 2.936 | 2.777 | 5.87 |
| 83) | T | tert-Butylbenzene | 2.630 | 2.796 | 2.928 | 3.026 | 2.744 | 3.143 | 2.878 | 6.61 |
| 84) | T | 1,2,4-Trimethy... | 2.583 | 2.631 | 2.811 | 2.983 | 2.715 | 3.039 | 2.794 | 6.66 |
| 85) | T | sec-Butylbenzene | 3.257 | 3.441 | 3.572 | 3.766 | 3.161 | 3.728 | 3.488 | 7.08 |
| 86) | T | p-Isopropyltol... | 2.719 | 2.915 | 3.051 | 3.180 | 2.786 | 3.236 | 2.981 | 7.05 |
| 87) | T | 1,3-Dichlorobe... | 1.691 | 1.611 | 1.630 | 1.647 | 1.612 | 1.756 | 1.658 | 3.41 |
| 88) | T | 1,4-Dichlorobe... | 1.952 | 1.640 | 1.612 | 1.662 | 1.639 | 1.775 | 1.713 | 7.60 |
| 89) | T | n-Butylbenzene | 2.735 | 2.610 | 3.077 | 2.959 | 2.457 | 2.909 | 2.791 | 8.34 |
| 90) | T | Hexachloroethane | 0.618 | 0.555 | 0.627 | 0.594 | 0.538 | 0.718 | 0.608 | 10.50 |
| 91) | T | 1,2-Dichlorobe... | 1.632 | 1.491 | 1.702 | 1.582 | 1.557 | 1.680 | 1.607 | 4.95 |
| 92) | T | 1,2-Dibromo-3-... | 0.293 | 0.230 | 0.273 | 0.268 | 0.264 | 0.332 | 0.277 | 12.28 |
| 93) | T | 1,2,4-Trichlor... | 1.053 | 0.919 | 1.043 | 0.997 | 1.062 | 1.295 | 1.062 | 11.87 |
| 94) | T | Hexachlorobuta... | 0.500 | 0.437 | 0.452 | 0.395 | 0.390 | 0.460 | 0.439 | 9.52 |
| 95) | T | Naphthalene | 2.336 | 2.578 | 3.292 | 3.142 | 3.497 | 4.280 | 3.187 | 21.73 |
| 96) | T | 1,2,3-Trichlor... | 0.912 | 0.836 | 0.989 | 0.930 | 1.005 | 1.203 | 0.979 | 12.77 |

(#) = Out of Range




R = 6.609e-001 A*A + 2.232e+000 A + 1.131e-001
Coef of Det (r^2) = 0.998889  Curve Fit: Quadratic
Method Name:  Z:\voasrv\HPCHEM1\MSVOA X\Method\82X120425W.M
Calibration Table Last Updated: Fri Dec 05 03:27:34 2025




Response = 1.246e-001 * Amt - 1.002e-001
Coef of Det (r^2) = 0.993311  Curve Fit: Linear
Method Name:  Z:\voasrv\HPCHEM1\MSVOA X\Method\82X120425W.M
Calibration Table Last Updated: Fri Dec 05 03:27:34 2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048714.D
Acq On : 04 Dec 2025 08:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 03:18:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:18:21 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.531 | 168 | 206937 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.739 | 114 | 356626 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 323968 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152 | 158289 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 0.000 | 65 | 0d | 0.000 | ug/l | |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = | 0.000%# | | |
| 35) Dibromofluoromethane | 0.000 | 113 | 0d | 0.000 | ug/l | |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 0.000%# | | |
| 50) Toluene-d8 | 0.000 | 98 | 0d | 0.000 | ug/l | |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = | 0.000%# | | |
| 62) 4-Bromofluorobenzene | 0.000 | 95 | 0d | 0.000 | ug/l | |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = | 0.000%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.172 | 85 | 1978 | 0.938 | ug/l # | 66 |
| 3) Chloromethane | 1.300 | 50 | 3002 | 1.128 | ug/l | 92 |
| 4) Vinyl Chloride | 1.380 | 62 | 2913 | 1.028 | ug/l | 99 |
| 6) Chloroethane | 1.697 | 64 | 2136 | 1.211 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.898 | 101 | 4135 | 1.018 | ug/l | 93 |
| 8) Diethyl Ether | 2.130 | 74 | 1841 | 1.136 | ug/l | 91 |
| 9) 1,1,2-Trichlorotrifluo... | 2.343 | 101 | 2444 | 1.038 | ug/l | 95 |
| 12) 1,1-Dichloroethene | 2.325 | 96 | 2514 | 1.046 | ug/l | 93 |
| 14) Allyl chloride | 2.660 | 41 | 4571 | 1.133 | ug/l | 94 |
| 15) Acrylonitrile | 3.056 | 53 | 7576 | 5.422 | ug/l | 95 |
| 16) Acetone | 2.373 | 43 | 6606 | 6.213 | ug/l | 94 |
| 17) Carbon Disulfide | 2.514 | 76 | 8174 | 1.171 | ug/l | 96 |
| 18) Methyl Acetate | 2.703 | 43 | 3438 | 1.149 | ug/l | 95 |
| 19) Methyl tert-butyl Ether | 3.105 | 73 | 8947 | 1.144 | ug/l # | 90 |
| 20) Methylene Chloride | 2.788 | 84 | 3480 | 1.309 | ug/l | 88 |
| 21) trans-1,2-Dichloroethene | 3.093 | 96 | 2919 | 1.190 | ug/l | 82 |
| 22) Diisopropyl ether | 3.745 | 45 | 8931 | 1.184 | ug/l # | 88 |
| 23) Vinyl Acetate | 3.721 | 43 | 31813 | 5.021 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 5001 | 1.189 | ug/l | 97 |
| 25) 2-Butanone | 4.544 | 43 | 8255 | 5.260 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 4.458 | 77 | 4420 | 1.188 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 4.477 | 96 | 3211 | 1.160 | ug/l | 88 |
| 28) Bromochloromethane | 4.879 | 49 | 2337 | 1.134 | ug/l # | 83 |
| 29) Tetrahydrofuran | 4.989 | 42 | 6590 | 5.500 | ug/l # | 89 |
| 30) Chloroform | 5.074 | 83 | 5213 | 1.157 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 5.361 | 97 | 4515 | 1.118 | ug/l # | 48 |
| 36) 1,1-Dichloropropene | 5.678 | 75 | 3726 | 1.108 | ug/l | 91 |
| 37) Ethyl Acetate | 4.714 | 43 | 3958m | 0.985 | ug/l | |
| 38) Carbon Tetrachloride | 5.659 | 117 | 3570 | 0.937 | ug/l # | 83 |
| 39) Methylcyclohexane | 7.354 | 83 | 3845 | 0.967 | ug/l # | 87 |
| 40) Benzene | 6.019 | 78 | 10753 | 1.079 | ug/l | 96 |
| 41) Methacrylonitrile | 4.903 | 41 | 1547 | 0.846 | ug/l # | 62 |
| 42) 1,2-Dichloroethane | 6.074 | 62 | 3949 | 1.119 | ug/l | 87 |
| 43) Isopropyl Acetate | 6.318 | 43 | 6262 | 1.029 | ug/l # | 94 |
| 44) Trichloroethene | 7.104 | 130 | 2758 | 1.060 | ug/l | 99 |
| 45) 1,2-Dichloropropane | 7.409 | 63 | 2415 | 0.969 | ug/l # | 77 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048714.D
Acq On : 04 Dec 2025 08:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 03:18:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:18:21 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 46) Dibromomethane | 7.568 | 93 | 1828 | 0.967 ug/l | 95 |
| 47) Bromodichloromethane | 7.799 | 83 | 4244 | 1.077 ug/l # | 85 |
| 48) Methyl methacrylate | 7.677 | 41 | 3046 | 0.995 ug/l | 93 |
| 49) 1,4-Dioxane | 7.671 | 88 | 794 | 18.860 ug/l # | 86 |
| 51) 4-Methyl-2-Pentanone | 8.555 | 43 | 19490 | 5.160 ug/l | 97 |
| 52) Toluene | 8.702 | 92 | 5975 | 0.994 ug/l | 95 |
| 53) t-1,3-Dichloropropene | 8.970 | 75 | 3870 | 1.032 ug/l | 99 |
| 54) cis-1,3-Dichloropropene | 8.354 | 75 | 3853 | 0.956 ug/l # | 93 |
| 55) 1,1,2-Trichloroethane | 9.134 | 97 | 2561 | 1.059 ug/l # | 90 |
| 56) Ethyl methacrylate | 9.098 | 69 | 3510 | 0.927 ug/l | 91 |
| 57) 1,3-Dichloropropane | 9.293 | 76 | 4423 | 1.100 ug/l | 97 |
| 58) 2-Chloroethyl Vinyl ether | 8.232 | 63 | 8078 | 3.947 ug/l | 97 |
| 59) 2-Hexanone | 9.415 | 43 | 13642 | 5.145 ug/l | 92 |
| 60) Dibromochloromethane | 9.506 | 129 | 2961 | 0.990 ug/l | 93 |
| 61) 1,2-Dibromoethane | 9.592 | 107 | 2765 | 1.056 ug/l | 97 |
| 64) Tetrachloroethene | 9.256 | 164 | 2484 | 1.052 ug/l # | 80 |
| 65) Chlorobenzene | 10.061 | 112 | 7654 | 1.079 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.140 | 131 | 2813 | 1.109 ug/l # | 61 |
| 67) Ethyl Benzene | 10.177 | 91 | 11281 | 0.975 ug/l | 95 |
| 68) m/p-Xylenes | 10.281 | 106 | 9059 | 2.010 ug/l | 99 |
| 69) o-Xylene | 10.622 | 106 | 3736 | 0.885 ug/l | 84 |
| 70) Styrene | 10.640 | 104 | 6411 | 0.884 ug/l | 96 |
| 71) Bromoform | 10.787 | 173 | 2166 | 0.957 ug/l # | 97 |
| 73) Isopropylbenzene | 10.945 | 105 | 10050 | 0.942 ug/l | 100 |
| 74) N-amyl acetate | 10.829 | 43 | 4424 | 0.955 ug/l | 95 |
| 75) 1,1,2,2-Tetrachloroethane | 11.195 | 83 | 4105 | 1.141 ug/l | 98 |
| 76) 1,2,3-Trichloropropane | 11.219 | 75 | 3459m | 1.139 ug/l | |
| 77) Bromobenzene | 11.183 | 156 | 2868 | 1.007 ug/l | 95 |
| 78) n-propylbenzene | 11.286 | 91 | 11914 | 0.964 ug/l | 99 |
| 79) 2-Chlorotoluene | 11.347 | 91 | 7596 | 1.008 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.433 | 105 | 8172 | 0.932 ug/l | 96 |
| 82) 4-Chlorotoluene | 11.439 | 91 | 8694 | 0.989 ug/l | 99 |
| 83) tert-Butylbenzene | 11.695 | 119 | 8327 | 0.914 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.732 | 105 | 8178 | 0.925 ug/l | 99 |
| 85) sec-Butylbenzene | 11.872 | 105 | 10311 | 0.934 ug/l | 98 |
| 86) p-Isopropyltoluene | 11.988 | 119 | 8607 | 0.912 ug/l | 87 |
| 87) 1,3-Dichlorobenzene | 11.951 | 146 | 5352 | 1.020 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 12.024 | 146 | 6180m | 1.139 ug/l | |
| 89) n-Butylbenzene | 12.317 | 91 | 8657 | 0.980 ug/l | 97 |
| 90) Hexachloroethane | 12.524 | 117 | 1957 | 1.016 ug/l | 90 |
| 91) 1,2-Dichlorobenzene | 12.317 | 146 | 5165 | 1.015 ug/l | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.926 | 75 | 929 | 1.061 ug/l | 74 |
| 93) 1,2,4-Trichlorobenzene | 13.573 | 180 | 3332 | 0.991 ug/l | 92 |
| 94) Hexachlorobutadiene | 13.707 | 225 | 1584 | 1.139 ug/l | 93 |
| 95) Naphthalene | 13.762 | 128 | 7395 | 0.733 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.945 | 180 | 2886 | 0.931 ug/l | 90 |

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

ICAL Form

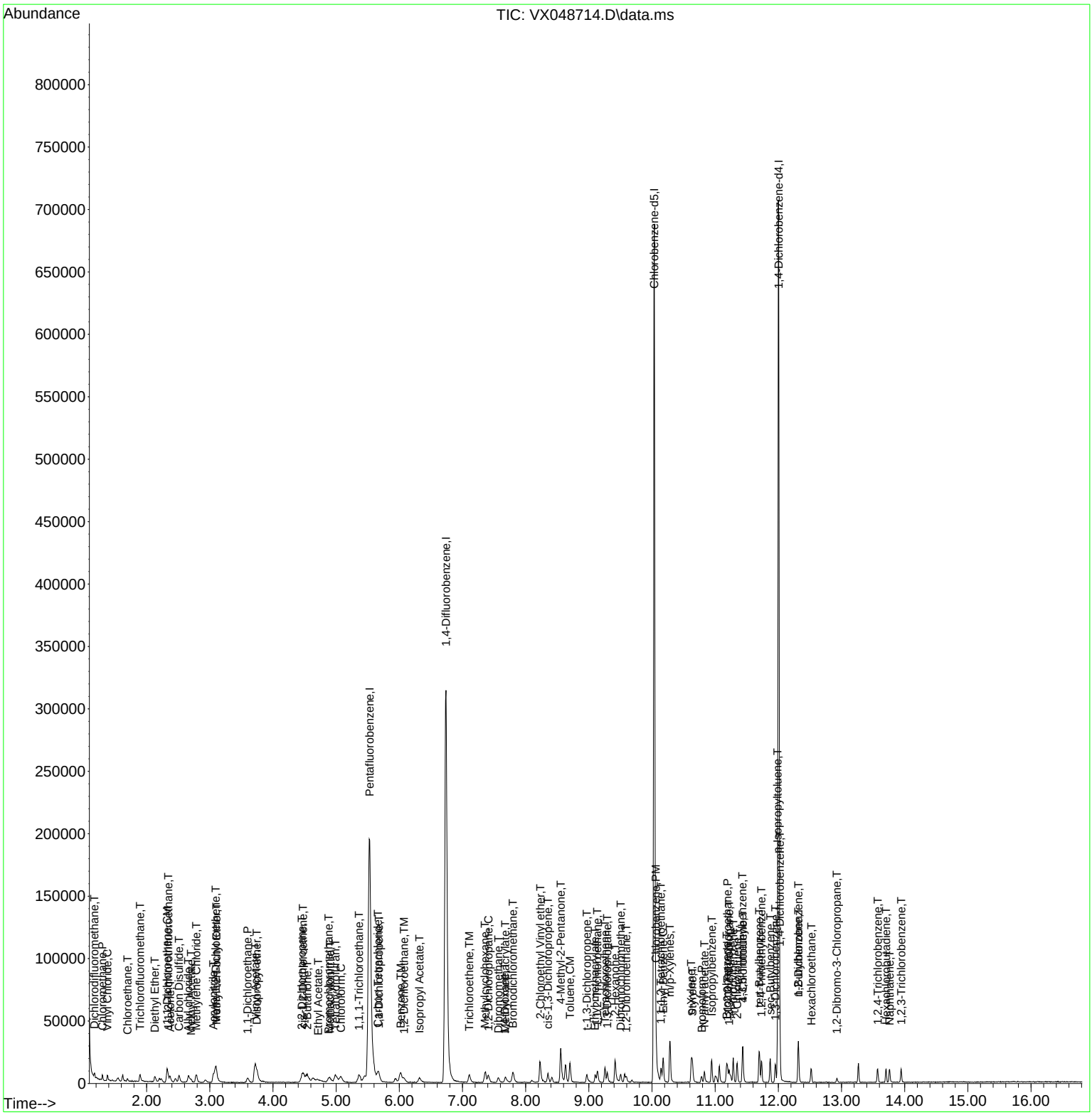
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048714.D
Acq On : 04 Dec 2025 08:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 05 03:18:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:18:21 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048715.D
Acq On : 04 Dec 2025 09:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:07:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.532 | 168 | 228640 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.739 | 114 | 358720 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 300438 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152 | 155633 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.934 | 65 | 15478 | 5.044 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = | 10.080%# | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 11348 | 4.594 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 9.180%# | | |
| 50) Toluene-d8 | 8.629 | 98 | 45948 | 5.307 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = | 10.620%# | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 14926 | 4.999 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = | 10.000%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.173 | 85 | 9943 | 4.268 | ug/l | 99 |
| 3) Chloromethane | 1.301 | 50 | 12695 | 4.318 | ug/l | 98 |
| 4) Vinyl Chloride | 1.380 | 62 | 14273 | 4.559 | ug/l | 93 |
| 5) Bromomethane | 1.611 | 94 | 10033 | 5.186 | ug/l | 99 |
| 6) Chloroethane | 1.691 | 64 | 8374 | 4.298 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.892 | 101 | 21348 | 4.758 | ug/l | 99 |
| 8) Diethyl Ether | 2.130 | 74 | 8173 | 4.563 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.337 | 101 | 12909 | 4.963 | ug/l | 97 |
| 10) Methyl Iodide | 2.453 | 142 | 13462 | 3.635 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.941 | 59 | 9869 | 19.919 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.319 | 96 | 12191 | 4.592 | ug/l | 96 |
| 13) Acrolein | 2.233 | 56 | 7426 | 53.206 | ug/l | 98 |
| 14) Allyl chloride | 2.660 | 41 | 16575 | 3.718 | ug/l | 97 |
| 15) Acrylonitrile | 3.056 | 53 | 29219 | 18.927 | ug/l | 91 |
| 16) Acetone | 2.374 | 43 | 24360 | 20.736 | ug/l | 98 |
| 17) Carbon Disulfide | 2.514 | 76 | 30036 | 3.896 | ug/l | 100 |
| 18) Methyl Acetate | 2.697 | 43 | 12011m | 3.634 | ug/l | |
| 19) Methyl tert-butyl Ether | 3.099 | 73 | 33202 | 3.843 | ug/l | 95 |
| 20) Methylene Chloride | 2.782 | 84 | 11979 | 4.079 | ug/l | 84 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 11131 | 4.108 | ug/l | 96 |
| 22) Diisopropyl ether | 3.745 | 45 | 33324 | 4.000 | ug/l | 97 |
| 23) Vinyl Acetate | 3.709 | 43 | 134450 | 19.207 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 18354 | 3.951 | ug/l | 100 |
| 25) 2-Butanone | 4.532 | 43 | 32730 | 18.877 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 4.459 | 77 | 17823 | 4.336 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 4.471 | 96 | 12772 | 4.177 | ug/l | 97 |
| 28) Bromochloromethane | 4.867 | 49 | 9519 | 4.181 | ug/l | 91 |
| 29) Tetrahydrofuran | 4.977 | 42 | 24477 | 18.488 | ug/l | 94 |
| 30) Chloroform | 5.080 | 83 | 20698 | 4.158 | ug/l | 93 |
| 31) Cyclohexane | 5.446 | 56 | 22164 | 5.344 | ug/l | 93 |
| 32) 1,1,1-Trichloroethane | 5.361 | 97 | 19635 | 4.402 | ug/l | 93 |
| 36) 1,1-Dichloropropene | 5.672 | 75 | 16539 | 4.889 | ug/l | 99 |
| 37) Ethyl Acetate | 4.696 | 43 | 16990m | 4.203 | ug/l | |
| 38) Carbon Tetrachloride | 5.653 | 117 | 20529 | 5.357 | ug/l | 92 |
| 39) Methylcyclohexane | 7.360 | 83 | 19359 | 4.840 | ug/l | 94 |
| 40) Benzene | 6.019 | 78 | 50087 | 4.994 | ug/l | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048715.D
Acq On : 04 Dec 2025 09:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:07:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.904 | 41 | 7366 | 4.005 ug/l | | 97 |
| 42) 1,2-Dichloroethane | 6.068 | 62 | 17832 | 5.024 ug/l | | 97 |
| 43) Isopropyl Acetate | 6.312 | 43 | 31107 | 5.082 ug/l | | 95 |
| 44) Trichloroethene | 7.104 | 130 | 12207 | 4.665 ug/l | | 96 |
| 45) 1,2-Dichloropropane | 7.409 | 63 | 12229 | 4.879 ug/l | | 97 |
| 46) Dibromomethane | 7.568 | 93 | 9236 | 4.859 ug/l | | 95 |
| 47) Bromodichloromethane | 7.799 | 83 | 19311 | 4.873 ug/l | | 98 |
| 48) Methyl methacrylate | 7.671 | 41 | 14173 | 4.603 ug/l | | 95 |
| 49) 1,4-Dioxane | 7.641 | 88 | 3770 | 89.028 ug/l | # | 91 |
| 51) 4-Methyl-2-Pentanone | 8.555 | 43 | 97596 | 25.688 ug/l | | 97 |
| 52) Toluene | 8.702 | 92 | 28194 | 4.662 ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.964 | 75 | 15951 | 4.231 ug/l | | 95 |
| 54) cis-1,3-Dichloropropene | 8.348 | 75 | 19250 | 4.751 ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 9.134 | 97 | 11325 | 4.654 ug/l | | 96 |
| 56) Ethyl methacrylate | 9.098 | 69 | 15799 | 4.148 ug/l | | 96 |
| 57) 1,3-Dichloropropane | 9.293 | 76 | 18244 | 4.509 ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.226 | 63 | 52878 | 25.688 ug/l | | 95 |
| 59) 2-Hexanone | 9.415 | 43 | 55721 | 20.893 ug/l | | 97 |
| 60) Dibromochloromethane | 9.506 | 129 | 13990 | 4.650 ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.592 | 107 | 11968 | 4.545 ug/l | | 100 |
| 64) Tetrachloroethene | 9.256 | 164 | 11027 | 5.035 ug/l | | 93 |
| 65) Chlorobenzene | 10.061 | 112 | 32494 | 4.941 ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 10.140 | 131 | 11291 | 4.800 ug/l | | 95 |
| 67) Ethyl Benzene | 10.177 | 91 | 51672 | 4.815 ug/l | | 99 |
| 68) m/p-Xylenes | 10.281 | 106 | 40552 | 9.701 ug/l | | 99 |
| 69) o-Xylene | 10.622 | 106 | 19035 | 4.860 ug/l | | 98 |
| 70) Styrene | 10.640 | 104 | 32097 | 4.773 ug/l | | 98 |
| 71) Bromoform | 10.781 | 173 | 9949 | 4.738 ug/l | # | 99 |
| 73) Isopropylbenzene | 10.945 | 105 | 50807 | 4.844 ug/l | | 99 |
| 74) N-amyl acetate | 10.829 | 43 | 19243 | 4.223 ug/l | | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 11.195 | 83 | 16109 | 4.552 ug/l | | 96 |
| 76) 1,2,3-Trichloropropane | 11.226 | 75 | 14100m | 4.722 ug/l | | |
| 77) Bromobenzene | 11.183 | 156 | 13538 | 4.836 ug/l | | 91 |
| 78) n-propylbenzene | 11.287 | 91 | 57143 | 4.704 ug/l | | 97 |
| 79) 2-Chlorotoluene | 11.348 | 91 | 35216 | 4.754 ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 11.433 | 105 | 41155 | 4.774 ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 11.000 | 75 | 4948 | 4.055 ug/l | # | 87 |
| 82) 4-Chlorotoluene | 11.439 | 91 | 39681 | 4.591 ug/l | | 94 |
| 83) tert-Butylbenzene | 11.695 | 119 | 43520 | 4.858 ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.732 | 105 | 40951 | 4.709 ug/l | | 97 |
| 85) sec-Butylbenzene | 11.872 | 105 | 53557 | 4.933 ug/l | | 98 |
| 86) p-Isopropyltoluene | 11.988 | 119 | 45373 | 4.890 ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.951 | 146 | 25073 | 4.859 ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.024 | 146 | 25523 | 4.786 ug/l | | 92 |
| 89) n-Butylbenzene | 12.317 | 91 | 40625 | 4.676 ug/l | | 100 |
| 90) Hexachloroethane | 12.518 | 117 | 8642 | 4.563 ug/l | | 95 |
| 91) 1,2-Dichlorobenzene | 12.317 | 146 | 23201 | 4.637 ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.927 | 75 | 3579 | 4.156 ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 13.573 | 180 | 14300 | 4.328 ug/l | | 97 |
| 94) Hexachlorobutadiene | 13.707 | 225 | 6803 | 4.977 ug/l | | 96 |
| 95) Naphthalene | 13.756 | 128 | 40122 | 3.182 ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 13.945 | 180 | 13011 | 4.270 ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048715.D
Acq On : 04 Dec 2025 09:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:07:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 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

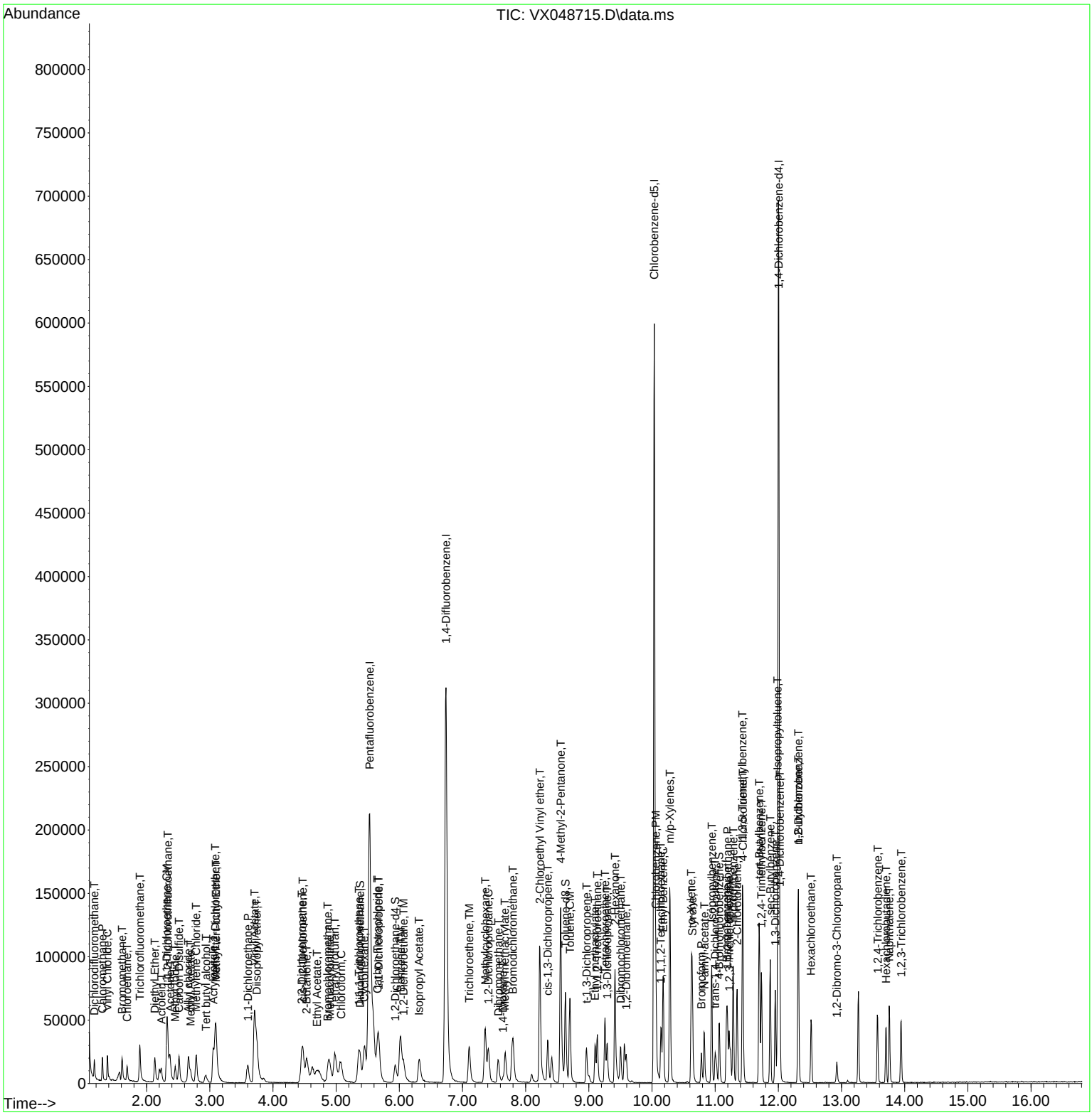
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048715.D
Acq On : 04 Dec 2025 09:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 05 02:07:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048716.D
Acq On : 04 Dec 2025 09:36
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:08:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.538 | 168 | 219464 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.745 | 114 | 318746 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 280368 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152 | 141102 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.934 | 65 | 54232 | 18.411 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = | 36.820%# | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 45770 | 20.855 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 41.700%# | | |
| 50) Toluene-d8 | 8.635 | 98 | 148035 | 19.243 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = | 38.480%# | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 53305 | 20.094 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = | 40.180%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.172 | 85 | 47089 | 21.059 | ug/l | 97 |
| 3) Chloromethane | 1.301 | 50 | 52390 | 18.567 | ug/l | 96 |
| 4) Vinyl Chloride | 1.380 | 62 | 58519 | 19.473 | ug/l | 98 |
| 5) Bromomethane | 1.618 | 94 | 37813 | 20.361 | ug/l | 99 |
| 6) Chloroethane | 1.697 | 64 | 34583 | 18.490 | ug/l | 96 |
| 7) Trichlorofluoromethane | 1.898 | 101 | 85315 | 19.808 | ug/l | 99 |
| 8) Diethyl Ether | 2.136 | 74 | 29915 | 17.401 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 2.337 | 101 | 48761 | 19.529 | ug/l | 99 |
| 10) Methyl Iodide | 2.459 | 142 | 65436 | 18.408 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.934 | 59 | 46577 | 97.940 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.325 | 96 | 49149 | 19.286 | ug/l | 97 |
| 13) Acrolein | 2.233 | 56 | 29353 | 93.831 | ug/l | 99 |
| 14) Allyl chloride | 2.666 | 41 | 85429 | 19.967 | ug/l | 97 |
| 15) Acrylonitrile | 3.056 | 53 | 142975 | 96.485 | ug/l | 99 |
| 16) Acetone | 2.373 | 43 | 97117 | 86.124 | ug/l | 98 |
| 17) Carbon Disulfide | 2.514 | 76 | 143976 | 19.454 | ug/l | 97 |
| 18) Methyl Acetate | 2.697 | 43 | 61156 | 19.276 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 3.105 | 73 | 156080 | 18.819 | ug/l | 100 |
| 20) Methylene Chloride | 2.788 | 84 | 51424 | 18.245 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 3.093 | 96 | 50138 | 19.276 | ug/l | 98 |
| 22) Diisopropyl ether | 3.751 | 45 | 166346 | 20.803 | ug/l | 97 |
| 23) Vinyl Acetate | 3.715 | 43 | 707279 | 105.266 | ug/l | 97 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 91130 | 20.437 | ug/l | 99 |
| 25) 2-Butanone | 4.532 | 43 | 176425 | 106.006 | ug/l | 91 |
| 26) 2,2-Dichloropropane | 4.465 | 77 | 77488 | 19.639 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 55622 | 18.951 | ug/l | 92 |
| 28) Bromochloromethane | 4.885 | 49 | 43554 | 19.928 | ug/l | 85 |
| 29) Tetrahydrofuran | 4.989 | 42 | 126095 | 99.224 | ug/l | 94 |
| 30) Chloroform | 5.080 | 83 | 92401 | 19.339 | ug/l | 97 |
| 31) Cyclohexane | 5.458 | 56 | 84544 | 21.236 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 83804 | 19.575 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 5.678 | 75 | 65812 | 21.894 | ug/l | 97 |
| 37) Ethyl Acetate | 4.696 | 43 | 83566 | 23.266 | ug/l | 97 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 75238 | 22.097 | ug/l | 92 |
| 39) Methylcyclohexane | 7.366 | 83 | 70160 | 19.739 | ug/l | 99 |
| 40) Benzene | 6.025 | 78 | 167542 | 18.802 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048716.D
Acq On : 04 Dec 2025 09:36
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 05 02:08:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.904 | 41 | 38557 | 23.593 | ug/l | | 95 |
| 42) 1,2-Dichloroethane | 6.068 | 62 | 55989 | 17.752 | ug/l | | 99 |
| 43) Isopropyl Acetate | 6.324 | 43 | 94137 | 17.308 | ug/l | | 99 |
| 44) Trichloroethene | 7.110 | 130 | 46220 | 19.879 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 7.415 | 63 | 40049 | 17.982 | ug/l | | 93 |
| 46) Dibromomethane | 7.568 | 93 | 30901 | 18.296 | ug/l | | 96 |
| 47) Bromodichloromethane | 7.805 | 83 | 62163 | 17.653 | ug/l | | 96 |
| 48) Methyl methacrylate | 7.677 | 41 | 45239 | 16.535 | ug/l | | 96 |
| 49) 1,4-Dioxane | 7.647 | 88 | 13475 | 358.118 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 8.555 | 43 | 299548 | 88.733 | ug/l | | 100 |
| 52) Toluene | 8.702 | 92 | 105894 | 19.707 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.964 | 75 | 62519 | 18.662 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 8.348 | 75 | 67666 | 18.794 | ug/l | | 93 |
| 55) 1,1,2-Trichloroethane | 9.134 | 97 | 41452 | 19.173 | ug/l | | 98 |
| 56) Ethyl methacrylate | 9.098 | 69 | 64049 | 18.926 | ug/l | | 94 |
| 57) 1,3-Dichloropropane | 9.293 | 76 | 68153 | 18.957 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.226 | 63 | 170980 | 93.480 | ug/l | | 97 |
| 59) 2-Hexanone | 9.415 | 43 | 220146 | 92.897 | ug/l | | 98 |
| 60) Dibromochloromethane | 9.506 | 129 | 52484 | 19.632 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 9.592 | 107 | 45333 | 19.373 | ug/l | | 99 |
| 64) Tetrachloroethene | 9.256 | 164 | 40200 | 19.671 | ug/l | | 98 |
| 65) Chlorobenzene | 10.061 | 112 | 118824 | 19.362 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.146 | 131 | 41197 | 18.768 | ug/l | | 98 |
| 67) Ethyl Benzene | 10.177 | 91 | 197228 | 19.695 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.281 | 106 | 153388 | 39.322 | ug/l | | 99 |
| 69) o-Xylene | 10.622 | 106 | 73749 | 20.176 | ug/l | | 98 |
| 70) Styrene | 10.640 | 104 | 126646 | 20.182 | ug/l | | 98 |
| 71) Bromoform | 10.781 | 173 | 37588 | 19.181 | ug/l | # | 97 |
| 73) Isopropylbenzene | 10.945 | 105 | 192126 | 20.205 | ug/l | | 99 |
| 74) N-amyl acetate | 10.823 | 43 | 76117 | 18.423 | ug/l | | 94 |
| 75) 1,1,2,2-Tetrachloroethane | 11.195 | 83 | 58417 | 18.208 | ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 11.219 | 75 | 47375m | 17.500 | ug/l | | |
| 77) Bromobenzene | 11.177 | 156 | 48752 | 19.209 | ug/l | | 96 |
| 78) n-propylbenzene | 11.287 | 91 | 223424 | 20.288 | ug/l | | 97 |
| 79) 2-Chlorotoluene | 11.347 | 91 | 132195 | 19.685 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 11.433 | 105 | 159778 | 20.443 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.000 | 75 | 20567 | 18.590 | ug/l | # | 78 |
| 82) 4-Chlorotoluene | 11.433 | 91 | 156834 | 20.013 | ug/l | | 98 |
| 83) tert-Butylbenzene | 11.695 | 119 | 165236 | 20.346 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.732 | 105 | 158676 | 20.126 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.872 | 105 | 201582 | 20.481 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 11.988 | 119 | 172223 | 20.471 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 11.951 | 146 | 92004 | 19.665 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 12.024 | 146 | 90959 | 18.813 | ug/l | | 98 |
| 89) n-Butylbenzene | 12.317 | 91 | 173673 | 22.048 | ug/l | | 100 |
| 90) Hexachloroethane | 12.518 | 117 | 35390 | 20.611 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 12.317 | 146 | 96083 | 21.183 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.926 | 75 | 15398 | 19.720 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 13.567 | 180 | 58891 | 19.658 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 13.707 | 225 | 25503 | 20.581 | ug/l | | 97 |
| 95) Naphthalene | 13.756 | 128 | 185802 | 23.652 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.938 | 180 | 55848 | 20.215 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048716.D
Acq On : 04 Dec 2025 09:36
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:08:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 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

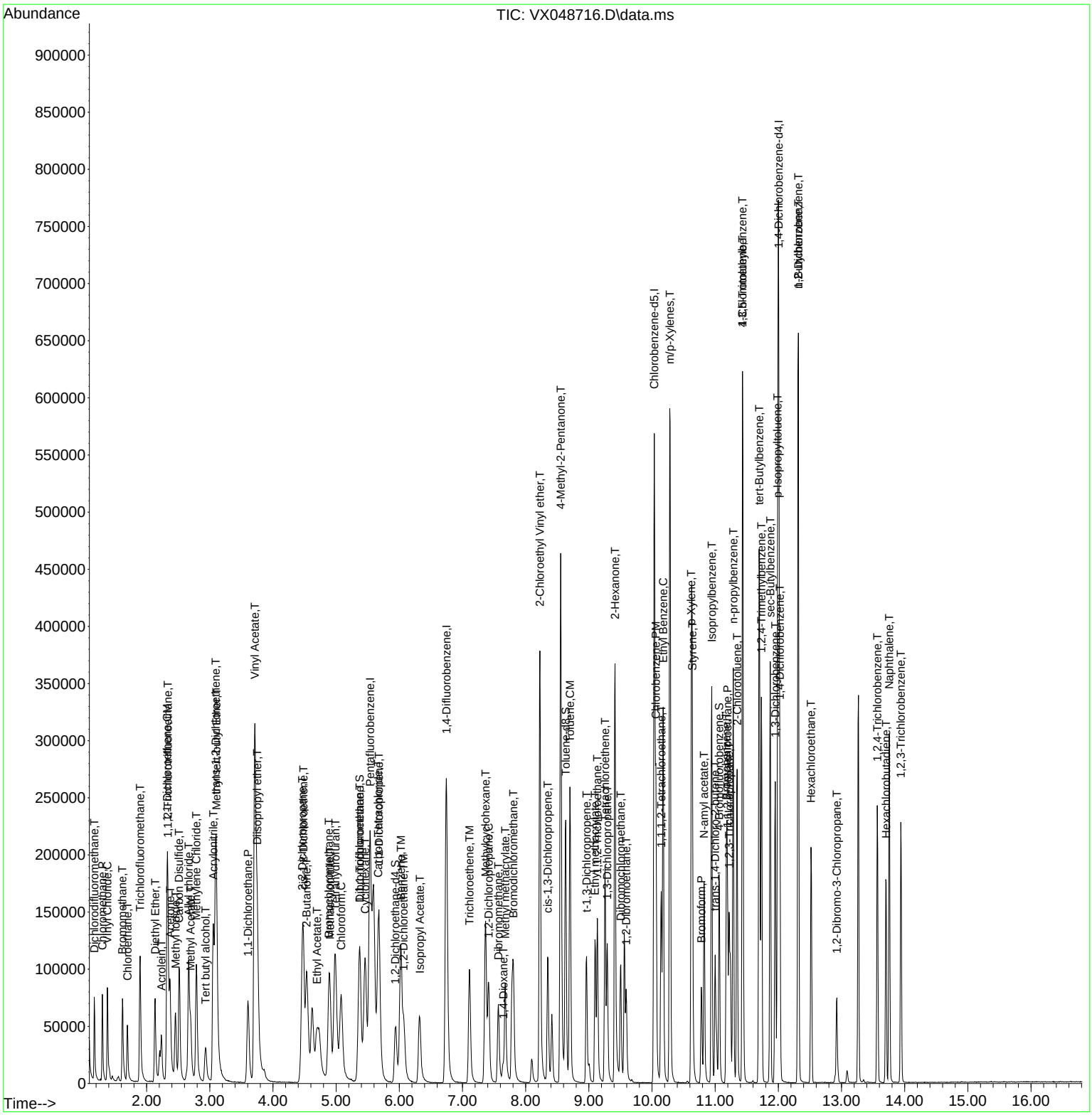
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048716.D
Acq On : 04 Dec 2025 09:36
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 05 02:08:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048717.D
Acq On : 04 Dec 2025 09:57
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:09:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.538 | 168 | 186557 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.745 | 114 | 289095 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 279030 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152 | 136461 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.940 | 65 | 107907 | 43.095 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = 86.180% | | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 96652 | 48.556 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 97.120% | | | |
| 50) Toluene-d8 | 8.635 | 98 | 379431 | 54.380 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = 108.760% | | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 132614 | 55.117 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = 110.240% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.173 | 85 | 106688 | 56.128 | ug/l | 100 |
| 3) Chloromethane | 1.301 | 50 | 120299 | 50.154 | ug/l | 100 |
| 4) Vinyl Chloride | 1.380 | 62 | 132300 | 51.790 | ug/l | 100 |
| 5) Bromomethane | 1.618 | 94 | 87152 | 55.207 | ug/l | 100 |
| 6) Chloroethane | 1.697 | 64 | 79501 | 50.005 | ug/l | 100 |
| 7) Trichlorofluoromethane | 1.898 | 101 | 192516 | 52.582 | ug/l | 100 |
| 8) Diethyl Ether | 2.136 | 74 | 70921 | 48.532 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.337 | 101 | 111195 | 52.388 | ug/l | 100 |
| 10) Methyl Iodide | 2.459 | 142 | 161441 | 53.427 | ug/l | 100 |
| 11) Tert butyl alcohol | 2.934 | 59 | 107184 | 265.136 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.325 | 96 | 112110 | 51.751 | ug/l | 100 |
| 13) Acrolein | 2.233 | 56 | 79940 | 212.073 | ug/l | 100 |
| 14) Allyl chloride | 2.666 | 41 | 200567 | 55.145 | ug/l | 100 |
| 15) Acrylonitrile | 3.056 | 53 | 342616 | 271.992 | ug/l | 100 |
| 16) Acetone | 2.374 | 43 | 229958 | 239.900 | ug/l | 100 |
| 17) Carbon Disulfide | 2.520 | 76 | 330819 | 52.586 | ug/l | 100 |
| 18) Methyl Acetate | 2.697 | 43 | 145030 | 53.775 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 3.105 | 73 | 372341 | 52.813 | ug/l | 100 |
| 20) Methylene Chloride | 2.788 | 84 | 121277 | 50.618 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 3.093 | 96 | 116779 | 52.817 | ug/l | 100 |
| 22) Diisopropyl ether | 3.751 | 45 | 292407 | 43.018 | ug/l | 100 |
| 23) Vinyl Acetate | 3.715 | 43 | 1289003 | 225.685 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 169753 | 44.783 | ug/l | 100 |
| 25) 2-Butanone | 4.538 | 43 | 314742 | 222.473 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 155016 | 46.219 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 117259 | 46.998 | ug/l | 100 |
| 28) Bromochloromethane | 4.885 | 49 | 77742 | 41.844 | ug/l | 100 |
| 29) Tetrahydrofuran | 4.983 | 42 | 231381 | 214.189 | ug/l | 100 |
| 30) Chloroform | 5.080 | 83 | 182965 | 45.048 | ug/l | 100 |
| 31) Cyclohexane | 5.464 | 56 | 148617 | 43.914 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 5.367 | 97 | 170109 | 46.744 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 126774 | 46.500 | ug/l | 100 |
| 37) Ethyl Acetate | 4.696 | 43 | 156032 | 47.897 | ug/l | 100 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 152584 | 49.410 | ug/l | 100 |
| 39) Methylcyclohexane | 7.367 | 83 | 185682 | 57.597 | ug/l | 100 |
| 40) Benzene | 6.025 | 78 | 382480 | 47.325 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048717.D
Acq On : 04 Dec 2025 09:57
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:09:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.904 | 41 | 70025 | 47.244 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 6.074 | 62 | 130710 | 45.694 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.324 | 43 | 218619 | 44.319 | ug/l | | 100 |
| 44) Trichloroethene | 7.111 | 130 | 106003 | 50.267 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 7.415 | 63 | 110713 | 54.808 | ug/l | | 100 |
| 46) Dibromomethane | 7.568 | 93 | 83655 | 54.610 | ug/l | | 100 |
| 47) Bromodichloromethane | 7.806 | 83 | 169698 | 53.133 | ug/l | | 100 |
| 48) Methyl methacrylate | 7.677 | 41 | 134523 | 54.212 | ug/l | | 100 |
| 49) 1,4-Dioxane | 7.641 | 88 | 36323 | 1064.346 | ug/l | | 100 |
| 51) 4-Methyl-2-Pentanone | 8.555 | 43 | 874869 | 285.735 | ug/l | | 100 |
| 52) Toluene | 8.702 | 92 | 278645 | 57.175 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.964 | 75 | 173511 | 57.105 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 8.348 | 75 | 186114 | 56.995 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 9.135 | 97 | 109166 | 55.671 | ug/l | | 100 |
| 56) Ethyl methacrylate | 9.098 | 69 | 181275 | 59.060 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 9.293 | 76 | 181544 | 55.677 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.226 | 63 | 496729 | 299.430 | ug/l | | 100 |
| 59) 2-Hexanone | 9.415 | 43 | 639088 | 297.342 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.506 | 129 | 135150 | 55.738 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 9.592 | 107 | 118684 | 55.922 | ug/l | | 100 |
| 64) Tetrachloroethene | 9.256 | 164 | 98419 | 48.390 | ug/l | | 100 |
| 65) Chlorobenzene | 10.061 | 112 | 303422 | 49.679 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.147 | 131 | 105994 | 48.520 | ug/l | | 100 |
| 67) Ethyl Benzene | 10.177 | 91 | 528248 | 53.003 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.281 | 106 | 399998 | 103.033 | ug/l | | 100 |
| 69) o-Xylene | 10.622 | 106 | 189164 | 51.999 | ug/l | | 100 |
| 70) Styrene | 10.640 | 104 | 326481 | 52.277 | ug/l | | 100 |
| 71) Bromoform | 10.781 | 173 | 91650 | 46.993 | ug/l | # | 100 |
| 73) Isopropylbenzene | 10.945 | 105 | 495714 | 53.906 | ug/l | | 100 |
| 74) N-amyl acetate | 10.823 | 43 | 237184 | 59.361 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 11.195 | 83 | 160851 | 51.840 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 11.220 | 75 | 130756m | 49.942 | ug/l | | |
| 77) Bromobenzene | 11.177 | 156 | 120915 | 49.264 | ug/l | | 100 |
| 78) n-propylbenzene | 11.287 | 91 | 587537 | 55.165 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.348 | 91 | 343958 | 52.961 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.433 | 105 | 402294 | 53.222 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.000 | 75 | 56706 | 52.997 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 11.433 | 91 | 407164 | 53.724 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.695 | 119 | 412891 | 52.570 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 11.732 | 105 | 407120 | 53.394 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.872 | 105 | 513956 | 53.995 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 11.988 | 119 | 433944 | 53.334 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 11.951 | 146 | 224775 | 49.677 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 12.024 | 146 | 226733 | 48.491 | ug/l | | 100 |
| 89) n-Butylbenzene | 12.311 | 91 | 403752 | 53.000 | ug/l | | 100 |
| 90) Hexachloroethane | 12.518 | 117 | 81034 | 48.798 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 12.317 | 146 | 215818 | 49.198 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.920 | 75 | 36555 | 48.408 | ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 13.567 | 180 | 136083 | 46.970 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 13.707 | 225 | 53860 | 44.943 | ug/l | | 100 |
| 95) Naphthalene | 13.756 | 128 | 428755 | 51.898 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.939 | 180 | 126875 | 47.485 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048717.D
Acq On : 04 Dec 2025 09:57
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:09:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 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

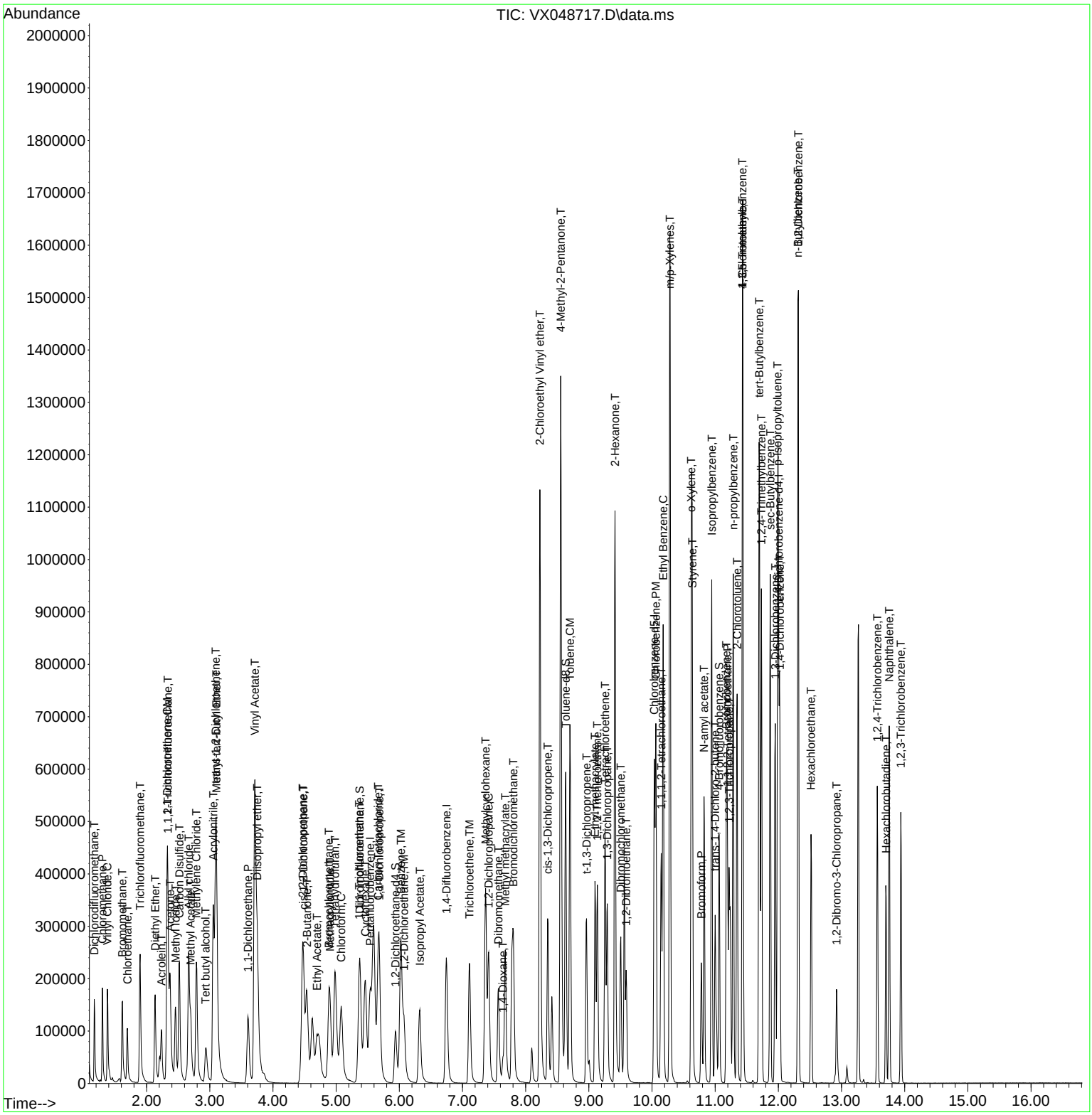
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048717.D
Acq On : 04 Dec 2025 09:57
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 05 02:09:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048718.D
Acq On : 04 Dec 2025 10:17
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:09:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.537 | 168 | 149943 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.745 | 114 | 269490 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 222177 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152 | 112983 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.940 | 65 | 236091 | 117.312 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = 234.620%# | | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 191311 | 103.102 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 206.200%# | | | |
| 50) Toluene-d8 | 8.634 | 98 | 566679 | 87.124 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = 174.240%# | | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 213976 | 95.403 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = 190.800%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.172 | 85 | 148747 | 97.363 | ug/l | 98 |
| 3) Chloromethane | 1.300 | 50 | 201139 | 104.333 | ug/l | 99 |
| 4) Vinyl Chloride | 1.380 | 62 | 209791 | 102.178 | ug/l | 100 |
| 5) Bromomethane | 1.611 | 94 | 132130 | 104.136 | ug/l | 100 |
| 6) Chloroethane | 1.691 | 64 | 130144 | 101.847 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.892 | 101 | 282037 | 95.844 | ug/l | 97 |
| 8) Diethyl Ether | 2.136 | 74 | 130414 | 111.035 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.337 | 101 | 156439 | 91.702 | ug/l | 98 |
| 10) Methyl Iodide | 2.459 | 142 | 286982 | 118.165 | ug/l | 100 |
| 11) Tert butyl alcohol | 2.959 | 59 | 204928 | 630.705 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.325 | 96 | 175195 | 100.620 | ug/l | 96 |
| 13) Acrolein | 2.233 | 56 | 175644 | 510.093 | ug/l | 99 |
| 14) Allyl chloride | 2.666 | 41 | 351406 | 120.211 | ug/l | 99 |
| 15) Acrylonitrile | 3.056 | 53 | 634692 | 626.899 | ug/l | 99 |
| 16) Acetone | 2.373 | 43 | 428956 | 556.775 | ug/l | 98 |
| 17) Carbon Disulfide | 2.514 | 76 | 519336 | 102.710 | ug/l | 99 |
| 18) Methyl Acetate | 2.696 | 43 | 271853 | 125.412 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 3.105 | 73 | 675620 | 119.231 | ug/l | 99 |
| 20) Methylene Chloride | 2.788 | 84 | 215266 | 111.785 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 3.093 | 96 | 192558 | 108.358 | ug/l | 98 |
| 22) Diisopropyl ether | 3.751 | 45 | 683700 | 125.144 | ug/l | 98 |
| 23) Vinyl Acetate | 3.715 | 43 | 3105693 | 676.537 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 366722 | 120.371 | ug/l | 98 |
| 25) 2-Butanone | 4.538 | 43 | 759593 | 668.021 | ug/l | 94 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 298026 | 110.556 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 235515 | 117.446 | ug/l | 95 |
| 28) Bromochloromethane | 4.885 | 49 | 183158 | 122.656 | ug/l | 86 |
| 29) Tetrahydrofuran | 4.983 | 42 | 544146 | 626.716 | ug/l | 94 |
| 30) Chloroform | 5.080 | 83 | 363457 | 111.339 | ug/l | 99 |
| 31) Cyclohexane | 5.464 | 56 | 258069 | 94.876 | ug/l | 94 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 303648 | 103.814 | ug/l | 96 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 227212 | 89.403 | ug/l | 99 |
| 37) Ethyl Acetate | 4.696 | 43 | 370775 | 122.096 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.665 | 117 | 256702 | 89.173 | ug/l | 97 |
| 39) Methylcyclohexane | 7.366 | 83 | 257594 | 85.717 | ug/l | 97 |
| 40) Benzene | 6.025 | 78 | 755535 | 100.284 | ug/l | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048718.D
Acq On : 04 Dec 2025 10:17
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:09:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.897 | 41 | 165473 | 119.761 ug/l | 95 |
| 42) 1,2-Dichloroethane | 6.074 | 62 | 282907 | 106.094 ug/l | 97 |
| 43) Isopropyl Acetate | 6.324 | 43 | 522170 | 113.557 ug/l | 96 |
| 44) Trichloroethene | 7.110 | 130 | 186139 | 94.688 ug/l | 94 |
| 45) 1,2-Dichloropropane | 7.415 | 63 | 193808 | 102.923 ug/l | 99 |
| 46) Dibromomethane | 7.568 | 93 | 147078 | 102.996 ug/l | 98 |
| 47) Bromodichloromethane | 7.805 | 83 | 299209 | 100.499 ug/l | 98 |
| 48) Methyl methacrylate | 7.677 | 41 | 258497 | 111.752 ug/l | 97 |
| 49) 1,4-Dioxane | 7.647 | 88 | 71374 | 2243.567 ug/l | 97 |
| 51) 4-Methyl-2-Pentanone | 8.555 | 43 | 1239027 | 434.110 ug/l | 97 |
| 52) Toluene | 8.701 | 92 | 404813 | 89.105 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 8.964 | 75 | 266630 | 94.136 ug/l | 98 |
| 54) cis-1,3-Dichloropropene | 8.348 | 75 | 282606 | 92.840 ug/l | 96 |
| 55) 1,1,2-Trichloroethane | 9.134 | 97 | 167036 | 91.380 ug/l | 99 |
| 56) Ethyl methacrylate | 9.098 | 69 | 280412 | 98.006 ug/l | 95 |
| 57) 1,3-Dichloropropane | 9.293 | 76 | 276473 | 90.960 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.226 | 63 | 691132 | 446.925 ug/l | 97 |
| 59) 2-Hexanone | 9.415 | 43 | 920873 | 459.615 ug/l | 96 |
| 60) Dibromochloromethane | 9.506 | 129 | 215867 | 95.503 ug/l | 100 |
| 61) 1,2-Dibromoethane | 9.592 | 107 | 185040 | 93.531 ug/l | 99 |
| 64) Tetrachloroethene | 9.256 | 164 | 139923 | 86.401 ug/l | 97 |
| 65) Chlorobenzene | 10.061 | 112 | 463830 | 95.375 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.146 | 131 | 169651 | 97.532 ug/l | 100 |
| 67) Ethyl Benzene | 10.177 | 91 | 756382 | 95.314 ug/l | 100 |
| 68) m/p-Xylenes | 10.287 | 106 | 589829 | 190.807 ug/l | 96 |
| 69) o-Xylene | 10.622 | 106 | 290379 | 100.247 ug/l | 97 |
| 70) Styrene | 10.640 | 104 | 503937 | 101.341 ug/l | 99 |
| 71) Bromoform | 10.780 | 173 | 165495 | 106.570 ug/l | 100 |
| 73) Isopropylbenzene | 10.945 | 105 | 712828 | 93.624 ug/l | 100 |
| 74) N-amyl acetate | 10.829 | 43 | 336967 | 101.859 ug/l | 95 |
| 75) 1,1,2,2-Tetrachloroethane | 11.195 | 83 | 250299 | 97.430 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 11.219 | 75 | 200074m | 92.297 ug/l | |
| 77) Bromobenzene | 11.183 | 156 | 204596 | 100.679 ug/l | 92 |
| 78) n-propylbenzene | 11.286 | 91 | 809506 | 91.800 ug/l | 98 |
| 79) 2-Chlorotoluene | 11.347 | 91 | 510695 | 94.975 ug/l | 98 |
| 80) 1,3,5-Trimethylbenzene | 11.433 | 105 | 595416 | 95.139 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.000 | 75 | 93932 | 106.031 ug/l | 90 |
| 82) 4-Chlorotoluene | 11.433 | 91 | 602673 | 96.045 ug/l | 98 |
| 83) tert-Butylbenzene | 11.695 | 119 | 619946 | 95.335 ug/l | 96 |
| 84) 1,2,4-Trimethylbenzene | 11.731 | 105 | 613436 | 97.170 ug/l | 99 |
| 85) sec-Butylbenzene | 11.872 | 105 | 714356 | 90.644 ug/l | 98 |
| 86) p-Isopropyltoluene | 11.987 | 119 | 629447 | 93.439 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 11.951 | 146 | 364260 | 97.233 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 12.024 | 146 | 370371 | 95.671 ug/l | 99 |
| 89) n-Butylbenzene | 12.311 | 91 | 555297 | 88.041 ug/l | 99 |
| 90) Hexachloroethane | 12.518 | 117 | 121649 | 88.478 ug/l | 94 |
| 91) 1,2-Dichlorobenzene | 12.317 | 146 | 351927 | 96.897 ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.920 | 75 | 59671 | 95.439 ug/l | 90 |
| 93) 1,2,4-Trichlorobenzene | 13.566 | 180 | 240057 | 100.075 ug/l | 99 |
| 94) Hexachlorobutadiene | 13.707 | 225 | 88160 | 88.851 ug/l | 96 |
| 95) Naphthalene | 13.755 | 128 | 790203 | 97.658 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.938 | 180 | 226988 | 102.608 ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048718.D
Acq On : 04 Dec 2025 10:17
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:09:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 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

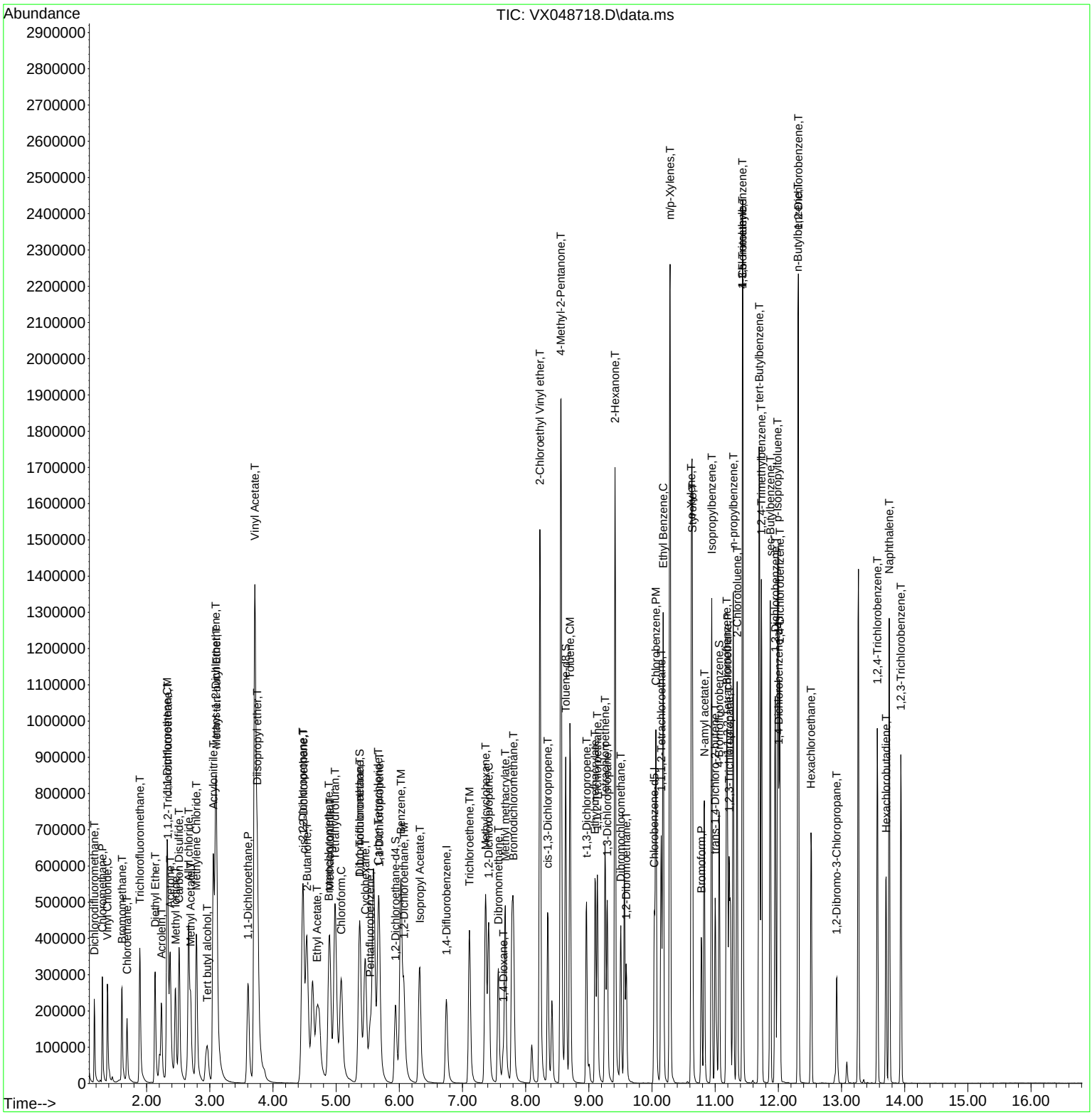
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048718.D
Acq On : 04 Dec 2025 10:17
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 05 02:09:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048719.D
Acq On : 04 Dec 2025 10:38
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 161225 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.745 | 114 | 266084 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 202872 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152 | 103615 | 50.000 | ug/l | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.940 | 65 | 336173 | 155.353 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = 310.700%# | | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 284768 | 155.433 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 310.860%# | | | |
| 50) Toluene-d8 | 8.635 | 98 | 980276 | 152.642 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = 305.280%# | | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 311931 | 140.857 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = 281.720%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.173 | 85 | 260977 | 158.870 | ug/l | 99 |
| 3) Chloromethane | 1.301 | 50 | 321280 | 154.990 | ug/l | 99 |
| 4) Vinyl Chloride | 1.380 | 62 | 340742 | 154.345 | ug/l | 99 |
| 5) Bromomethane | 1.605 | 94 | 163576 | 119.898 | ug/l | 100 |
| 6) Chloroethane | 1.685 | 64 | 203254 | 147.930 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.892 | 101 | 488765 | 154.472 | ug/l | 97 |
| 8) Diethyl Ether | 2.136 | 74 | 189537 | 150.080 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 2.337 | 101 | 282907 | 154.231 | ug/l | 99 |
| 10) Methyl Iodide | 2.453 | 142 | 431805 | 165.355 | ug/l | 100 |
| 11) Tert butyl alcohol | 2.977 | 59 | 236315 | 676.410 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.325 | 96 | 289225 | 154.488 | ug/l | 97 |
| 13) Acrolein | 2.233 | 56 | 287608 | 755.796 | ug/l | 99 |
| 14) Allyl chloride | 2.666 | 41 | 386590 | 122.993 | ug/l | 96 |
| 15) Acrylonitrile | 3.056 | 53 | 695550 | 638.935 | ug/l | 99 |
| 16) Acetone | 2.373 | 43 | 617325 | 745.203 | ug/l | 99 |
| 17) Carbon Disulfide | 2.514 | 76 | 813894 | 149.701 | ug/l | 99 |
| 18) Methyl Acetate | 2.697 | 43 | 290410 | 124.598 | ug/l | 96 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 820601 | 134.683 | ug/l | 97 |
| 20) Methylene Chloride | 2.788 | 84 | 258488 | 124.837 | ug/l | 93 |
| 21) trans-1,2-Dichloroethene | 3.093 | 96 | 253511 | 132.675 | ug/l | 93 |
| 22) Diisopropyl ether | 3.751 | 45 | 760942 | 129.535 | ug/l | 98 |
| 23) Vinyl Acetate | 3.715 | 43 | 3401948 | 689.215 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 441859 | 134.884 | ug/l | 99 |
| 25) 2-Butanone | 4.544 | 43 | 831570 | 680.145 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 405592 | 139.930 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 4.477 | 96 | 304797 | 141.360 | ug/l | 100 |
| 28) Bromochloromethane | 4.891 | 49 | 233635 | 145.511 | ug/l | 95 |
| 29) Tetrahydrofuran | 4.983 | 42 | 740891 | 793.604 | ug/l | 96 |
| 30) Chloroform | 5.080 | 83 | 542284 | 154.495 | ug/l | 99 |
| 31) Cyclohexane | 5.464 | 56 | 457324 | 156.365 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 494982 | 157.387 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 374749 | 149.343 | ug/l | 99 |
| 37) Ethyl Acetate | 4.696 | 43 | 374331 | 124.844 | ug/l | 97 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 429152 | 150.987 | ug/l | 97 |
| 39) Methylcyclohexane | 7.367 | 83 | 475877 | 160.380 | ug/l | 99 |
| 40) Benzene | 6.025 | 78 | 1152810 | 154.974 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048719.D
Acq On : 04 Dec 2025 10:38
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 05 02:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.910 | 41 | 210934 | 154.617 ug/l | 99 |
| 42) 1,2-Dichloroethane | 6.074 | 62 | 400347 | 152.058 ug/l | 98 |
| 43) Isopropyl Acetate | 6.324 | 43 | 726750 | 160.070 ug/l | 99 |
| 44) Trichloroethene | 7.110 | 130 | 308803 | 159.098 ug/l | 99 |
| 45) 1,2-Dichloropropane | 7.415 | 63 | 287426 | 154.593 ug/l | 99 |
| 46) Dibromomethane | 7.568 | 93 | 216552 | 153.589 ug/l | 98 |
| 47) Bromodichloromethane | 7.805 | 83 | 440047 | 149.695 ug/l | 97 |
| 48) Methyl methacrylate | 7.677 | 41 | 361697 | 158.368 ug/l | 99 |
| 49) 1,4-Dioxane | 7.653 | 88 | 102268 | 3255.837 ug/l | 96 |
| 51) 4-Methyl-2-Pentanone | 8.561 | 43 | 2202246 | 781.463 ug/l | 99 |
| 52) Toluene | 8.702 | 92 | 709062 | 158.073 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 8.964 | 75 | 463456 | 165.721 ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 8.354 | 75 | 489309 | 162.802 ug/l | 96 |
| 55) 1,1,2-Trichloroethane | 9.134 | 97 | 277366 | 153.680 ug/l | 98 |
| 56) Ethyl methacrylate | 9.104 | 69 | 481264 | 170.358 ug/l | 97 |
| 57) 1,3-Dichloropropane | 9.293 | 76 | 462553 | 154.128 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.232 | 63 | 1324521 | 867.473 ug/l | 99 |
| 59) 2-Hexanone | 9.415 | 43 | 1628603 | 823.253 ug/l | 99 |
| 60) Dibromochloromethane | 9.506 | 129 | 344385 | 154.312 ug/l | 99 |
| 61) 1,2-Dibromoethane | 9.592 | 107 | 296681 | 151.881 ug/l | 99 |
| 64) Tetrachloroethene | 9.256 | 164 | 249690 | 168.852 ug/l | 99 |
| 65) Chlorobenzene | 10.061 | 112 | 677420 | 152.550 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 10.147 | 131 | 249387 | 157.014 ug/l | 99 |
| 67) Ethyl Benzene | 10.177 | 91 | 1156627 | 159.619 ug/l | 99 |
| 68) m/p-Xylenes | 10.287 | 106 | 895563 | 317.279 ug/l | 97 |
| 69) o-Xylene | 10.622 | 106 | 433369 | 163.848 ug/l | 97 |
| 70) Styrene | 10.640 | 104 | 744510 | 163.967 ug/l | 99 |
| 71) Bromoform | 10.781 | 173 | 240629 | 169.697 ug/l | 100 |
| 73) Isopropylbenzene | 10.945 | 105 | 1114762 | 159.651 ug/l | 100 |
| 74) N-amyl acetate | 10.829 | 43 | 488735 | 161.092 ug/l | 95 |
| 75) 1,1,2,2-Tetrachloroethane | 11.195 | 83 | 363135 | 154.132 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 11.226 | 75 | 281629m | 141.666 ug/l | |
| 77) Bromobenzene | 11.183 | 156 | 299915 | 160.928 ug/l | 95 |
| 78) n-propylbenzene | 11.287 | 91 | 1284705 | 158.861 ug/l | 98 |
| 79) 2-Chlorotoluene | 11.348 | 91 | 774892 | 157.137 ug/l | 98 |
| 80) 1,3,5-Trimethylbenzene | 11.433 | 105 | 925692 | 161.286 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.000 | 75 | 138844 | 170.898 ug/l | 86 |
| 82) 4-Chlorotoluene | 11.439 | 91 | 912659 | 158.596 ug/l | 98 |
| 83) tert-Butylbenzene | 11.695 | 119 | 977059 | 163.836 ug/l | 97 |
| 84) 1,2,4-Trimethylbenzene | 11.732 | 105 | 944577 | 163.151 ug/l | 99 |
| 85) sec-Butylbenzene | 11.872 | 105 | 1158976 | 160.357 ug/l | 98 |
| 86) p-Isopropyltoluene | 11.994 | 119 | 1005907 | 162.823 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 11.951 | 146 | 545971 | 158.914 ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 12.024 | 146 | 551782 | 155.418 ug/l | 98 |
| 89) n-Butylbenzene | 12.317 | 91 | 904369 | 156.349 ug/l | 99 |
| 90) Hexachloroethane | 12.518 | 117 | 223207 | 177.022 ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 12.317 | 146 | 522301 | 156.808 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.920 | 75 | 103188 | 179.963 ug/l | 96 |
| 93) 1,2,4-Trichlorobenzene | 13.567 | 180 | 402548 | 182.988 ug/l | 98 |
| 94) Hexachlorobutadiene | 13.707 | 225 | 143127 | 157.291 ug/l | 98 |
| 95) Naphthalene | 13.756 | 128 | 1330400 | 150.662 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.938 | 180 | 373809 | 184.254 ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048719.D
Acq On : 04 Dec 2025 10:38
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 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

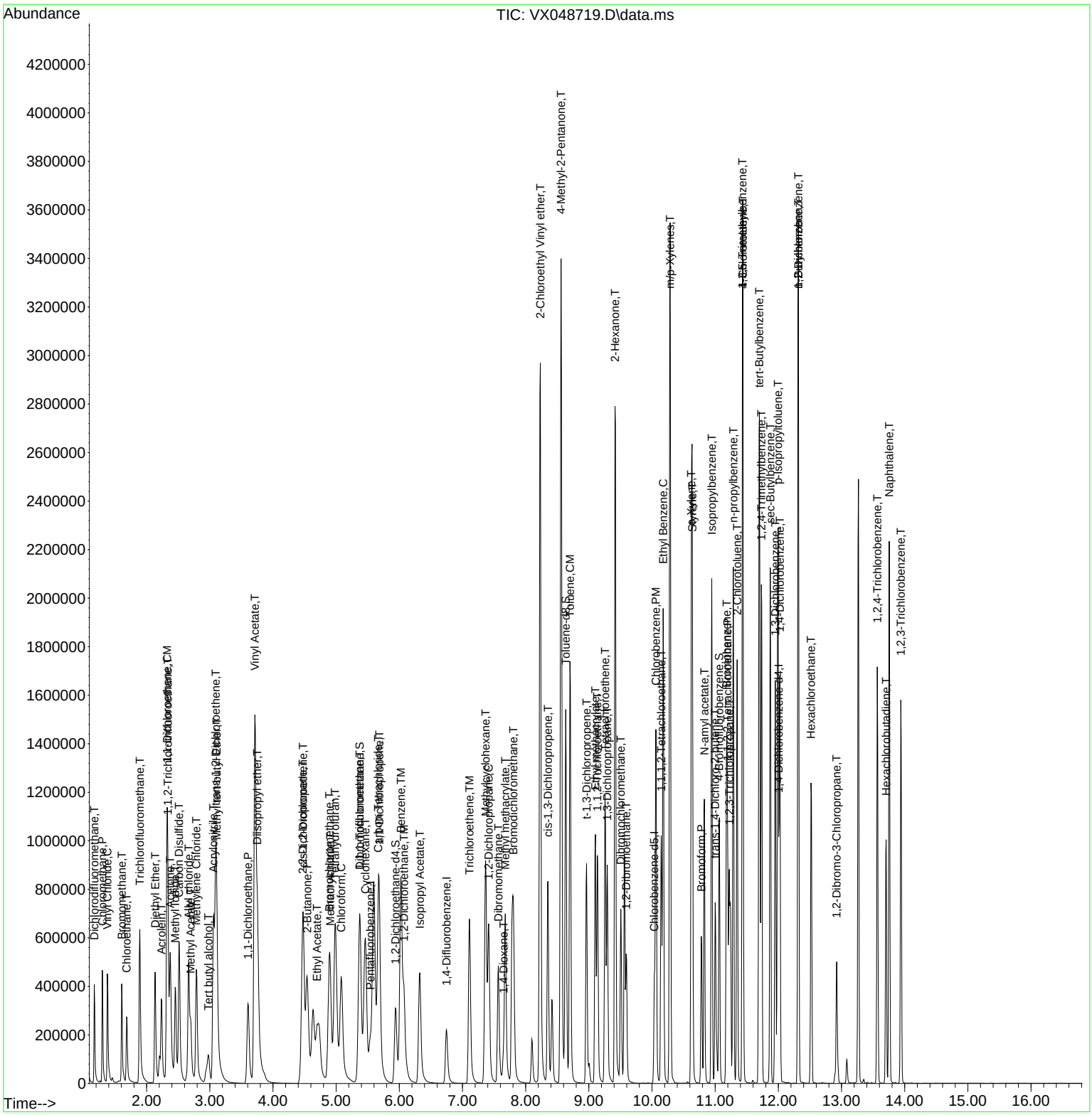
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048719.D
Acq On : 04 Dec 2025 10:38
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 05 02:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048721.D
Acq On : 04 Dec 2025 14:04
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX120425

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 03:31:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.537 | 168 | 184967 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.745 | 114 | 310263 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 253965 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.000 | 152 | 132465 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 134442 | 54.154 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = 108.300% | | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 106728 | 49.960 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 99.920% | | | |
| 50) Toluene-d8 | 8.634 | 98 | 333564 | 44.544 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = 89.080%# | | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 128866 | 49.905 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = 99.820% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.172 | 85 | 110698 | 58.738 | ug/l | 98 |
| 3) Chloromethane | 1.300 | 50 | 116116 | 48.826 | ug/l | 99 |
| 4) Vinyl Chloride | 1.380 | 62 | 122990 | 48.559 | ug/l | 99 |
| 5) Bromomethane | 1.611 | 94 | 85918 | 54.893 | ug/l | 100 |
| 6) Chloroethane | 1.697 | 64 | 76727 | 48.675 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.898 | 101 | 177151 | 48.801 | ug/l | 96 |
| 8) Diethyl Ether | 2.136 | 74 | 69765 | 48.151 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.337 | 101 | 96207 | 45.717 | ug/l | 96 |
| 10) Methyl Iodide | 2.459 | 142 | 150980 | 50.395 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.940 | 59 | 100301 | 250.243 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.325 | 96 | 100196 | 46.649 | ug/l | 93 |
| 13) Acrolein | 2.233 | 56 | 88451 | 232.010 | ug/l | 99 |
| 14) Allyl chloride | 2.666 | 41 | 153518 | 42.572 | ug/l | 98 |
| 15) Acrylonitrile | 3.056 | 53 | 283115 | 226.688 | ug/l | 98 |
| 16) Acetone | 2.373 | 43 | 194390 | 204.537 | ug/l | 98 |
| 17) Carbon Disulfide | 2.520 | 76 | 256217 | 41.077 | ug/l | 100 |
| 18) Methyl Acetate | 2.696 | 43 | 118728 | 44.401 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.105 | 73 | 318949 | 45.629 | ug/l | 98 |
| 20) Methylene Chloride | 2.788 | 84 | 113128 | 47.622 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 3.093 | 96 | 97130 | 44.308 | ug/l | 95 |
| 22) Diisopropyl ether | 3.751 | 45 | 340522 | 50.527 | ug/l | 99 |
| 23) Vinyl Acetate | 3.715 | 43 | 1563197 | 276.044 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 198478 | 52.811 | ug/l | 99 |
| 25) 2-Butanone | 4.538 | 43 | 342340 | 244.061 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 152491 | 45.857 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 4.477 | 96 | 118820 | 48.033 | ug/l | 99 |
| 28) Bromochloromethane | 4.885 | 49 | 82967 | 45.040 | ug/l | 97 |
| 29) Tetrahydrofuran | 4.983 | 42 | 297621 | 277.876 | ug/l | 95 |
| 30) Chloroform | 5.086 | 83 | 209644 | 52.061 | ug/l | 99 |
| 31) Cyclohexane | 5.464 | 56 | 164989 | 49.171 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 180664 | 50.071 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 138860 | 47.458 | ug/l | 99 |
| 37) Ethyl Acetate | 4.696 | 43 | 161815 | 46.283 | ug/l | 98 |
| 38) Carbon Tetrachloride | 5.665 | 117 | 156330 | 47.169 | ug/l | 98 |
| 39) Methylcyclohexane | 7.366 | 83 | 146837 | 42.440 | ug/l | 99 |
| 40) Benzene | 6.025 | 78 | 436935 | 50.374 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048721.D
Acq On : 04 Dec 2025 14:04
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX120425

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 03:31:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.903 | 41 | 77315 | 48.603 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.074 | 62 | 156709 | 51.045 | ug/l | | 97 |
| 43) Isopropyl Acetate | 6.324 | 43 | 284443 | 53.729 | ug/l | | 97 |
| 44) Trichloroethene | 7.110 | 130 | 102412 | 45.250 | ug/l | | 94 |
| 45) 1,2-Dichloropropane | 7.415 | 63 | 93080 | 42.935 | ug/l | | 99 |
| 46) Dibromomethane | 7.568 | 93 | 71939 | 43.757 | ug/l | | 95 |
| 47) Bromodichloromethane | 7.805 | 83 | 147055 | 42.902 | ug/l | | 99 |
| 48) Methyl methacrylate | 7.677 | 41 | 112824 | 42.366 | ug/l | | 96 |
| 49) 1,4-Dioxane | 7.647 | 88 | 36105 | 985.778 | ug/l | | 93 |
| 51) 4-Methyl-2-Pentanone | 8.555 | 43 | 724550 | 220.496 | ug/l | | 97 |
| 52) Toluene | 8.702 | 92 | 241004 | 46.077 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.964 | 75 | 151680 | 46.514 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.354 | 75 | 160155 | 45.699 | ug/l | | 93 |
| 55) 1,1,2-Trichloroethane | 9.134 | 97 | 96409 | 45.811 | ug/l | | 99 |
| 56) Ethyl methacrylate | 9.098 | 69 | 158928 | 48.247 | ug/l | | 94 |
| 57) 1,3-Dichloropropane | 9.293 | 76 | 158926 | 45.415 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.226 | 63 | 431918 | 242.598 | ug/l | | 98 |
| 59) 2-Hexanone | 9.415 | 43 | 548159 | 237.637 | ug/l | | 97 |
| 60) Dibromochloromethane | 9.506 | 129 | 123372 | 47.409 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 9.592 | 107 | 104948 | 46.076 | ug/l | | 99 |
| 64) Tetrachloroethene | 9.256 | 164 | 84359 | 45.571 | ug/l | | 98 |
| 65) Chlorobenzene | 10.061 | 112 | 268428 | 48.287 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 10.146 | 131 | 98651 | 49.615 | ug/l | | 97 |
| 67) Ethyl Benzene | 10.177 | 91 | 454183 | 50.069 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.287 | 106 | 364130 | 103.051 | ug/l | | 98 |
| 69) o-Xylene | 10.622 | 106 | 170785 | 51.580 | ug/l | | 97 |
| 70) Styrene | 10.640 | 104 | 292377 | 51.437 | ug/l | | 99 |
| 71) Bromoform | 10.780 | 173 | 91220 | 51.388 | ug/l | # | 99 |
| 73) Isopropylbenzene | 10.945 | 105 | 477424 | 53.483 | ug/l | | 99 |
| 74) N-amyl acetate | 10.823 | 43 | 228431 | 58.895 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 11.195 | 83 | 160485 | 53.282 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 11.219 | 75 | 131988m | 53.497 | ug/l | | |
| 77) Bromobenzene | 11.177 | 156 | 119980 | 50.357 | ug/l | | 98 |
| 78) n-propylbenzene | 11.286 | 91 | 542000 | 52.425 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.347 | 91 | 324683 | 51.501 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.433 | 105 | 380771 | 51.894 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 11.000 | 75 | 55921 | 53.840 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 11.433 | 91 | 386271 | 52.505 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.695 | 119 | 382261 | 50.138 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.731 | 105 | 381863 | 51.592 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.872 | 105 | 467593 | 50.606 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 11.988 | 119 | 397475 | 50.326 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.951 | 146 | 215432 | 49.048 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.024 | 146 | 216879 | 47.783 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.311 | 91 | 375250 | 50.745 | ug/l | | 99 |
| 90) Hexachloroethane | 12.518 | 117 | 75643 | 46.926 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 12.317 | 146 | 204807 | 48.097 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.920 | 75 | 37176 | 50.715 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 13.567 | 180 | 132170 | 46.996 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.707 | 225 | 52466 | 45.101 | ug/l | | 95 |
| 95) Naphthalene | 13.755 | 128 | 452299 | 55.628 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.938 | 180 | 128090 | 49.386 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048721.D
Acq On : 04 Dec 2025 14:04
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX120425

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 03:31:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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

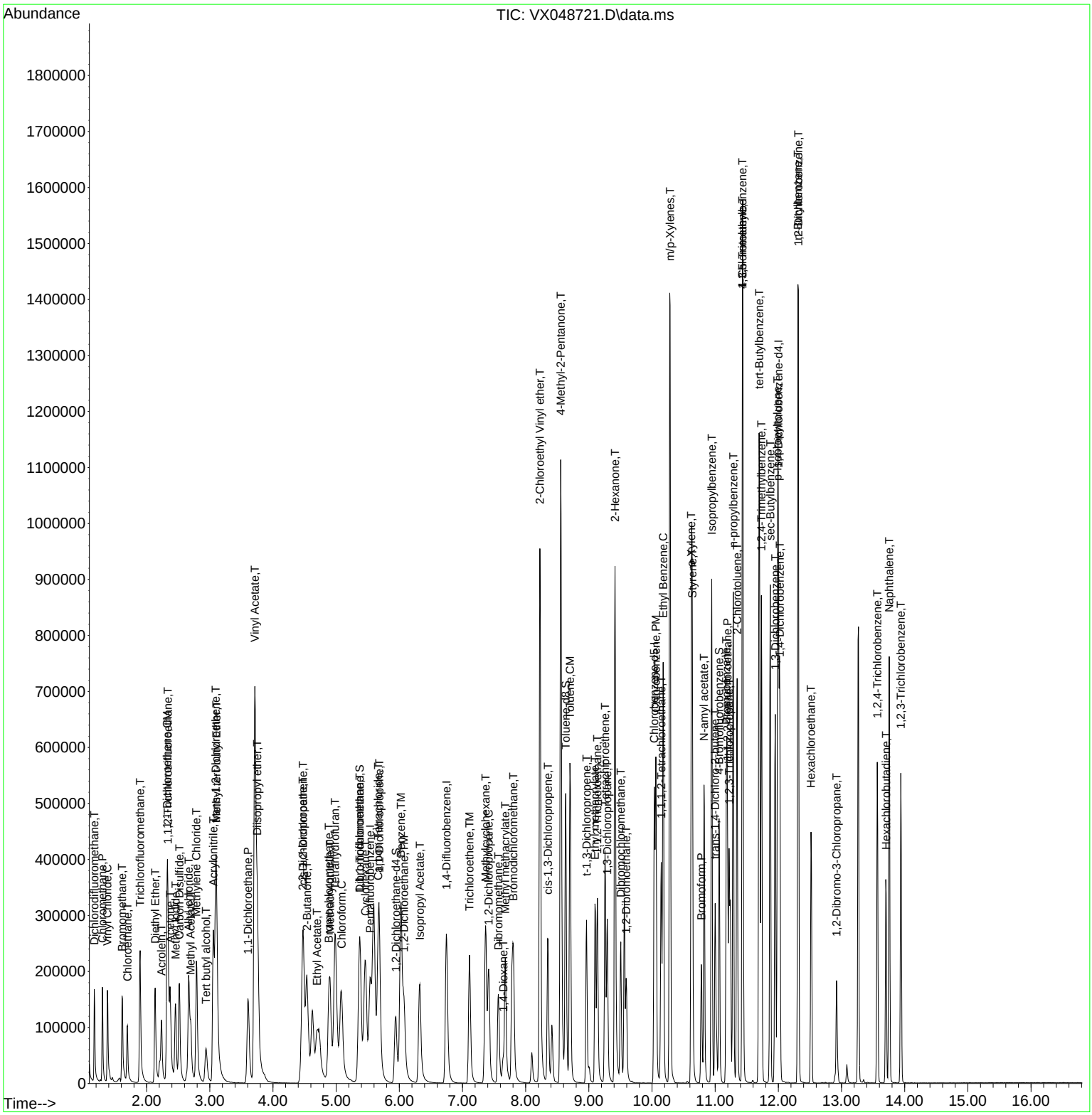
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048721.D
Acq On : 04 Dec 2025 14:04
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 05 03:31:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX120425

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025



# Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048721.D
Acq On : 04 Dec 2025 14:04
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX120425

Quant Time: Dec 05 03:31:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 99 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.509 | 0.598 | -17.5 | 104 | 0.00 |
| 3 | P | Chloromethane | 0.643 | 0.628 | 2.3 | 97 | 0.00 |
| 4 | C | Vinyl Chloride | 0.685 | 0.665 | 2.9# | 93 | 0.00 |
| 5 | T | Bromomethane | 0.423 | 0.465 | -9.9 | 99 | 0.00 |
| 6 | T | Chloroethane | 0.426 | 0.415 | 2.6 | 97 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.981 | 0.958 | 2.3 | 92 | 0.00 |
| 8 | T | Diethyl Ether | 0.392 | 0.377 | 3.8 | 98 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.569 | 0.520 | 8.6 | 87 | 0.00 |
| 10 | T | Methyl Iodide | 0.810 | 0.816 | -0.7 | 94 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.108 | 0.108 | 0.0 | 94 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.581 | 0.542 | 6.7# | 89 | 0.00 |
| 13 | T | Acrolein | 0.091 | 0.096 | -5.5 | 111 | 0.00 |
| 14 | T | Allyl chloride | 0.975 | 0.830 | 14.9 | 77 | 0.00 |
| 15 | T | Acrylonitrile | 0.338 | 0.306 | 9.5 | 83 | 0.00 |
| 16 | T | Acetone | 0.257 | 0.210 | 18.3 | 85 | 0.00 |
| 17 | T | Carbon Disulfide | 1.686 | 1.385 | 17.9 | 77 | 0.00 |
| 18 | T | Methyl Acetate | 0.723 | 0.642 | 11.2 | 82 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.890 | 1.724 | 8.8 | 86 | 0.00 |
| 20 | T | Methylene Chloride | 0.642 | 0.612 | 4.7 | 93 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.593 | 0.525 | 11.5 | 83 | 0.00 |
| 22 | T | Diisopropyl ether | 1.822 | 1.841 | -1.0 | 116 | 0.00 |
| 23 | T | Vinyl Acetate | 1.531 | 1.690 | -10.4 | 121 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.016 | 1.073 | -5.6 | 117 | 0.00 |
| 25 | T | 2-Butanone | 0.379 | 0.370 | 2.4 | 109 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.899 | 0.824 | 8.3 | 98 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.669 | 0.642 | 4.0 | 101 | 0.00 |
| 28 | T | Bromochloromethane | 0.498 | 0.449 | 9.8 | 107 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.290 | 0.322 | -11.0 | 129 | 0.00 |
| 30 | C | Chloroform | 1.089 | 1.133 | -4.0# | 115 | 0.00 |
| 31 | T | Cyclohexane | 0.907 | 0.892 | 1.7 | 111 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.975 | 0.977 | -0.2 | 106 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.671 | 0.727 | -8.3 | 125 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 107 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.344 | 0.344 | 0.0 | 110 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.472 | 0.448 | 5.1 | 110 | 0.00 |
| 37 | T | Ethyl Acetate | 0.563 | 0.522 | 7.3 | 104 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.534 | 0.504 | 5.6 | 102 | 0.00 |
| 39 | T | Methylcyclohexane | 0.558 | 0.473 | 15.2 | 79 | 0.00 |
| 40 | TM | Benzene | 1.398 | 1.408 | -0.7 | 114 | 0.00 |
| 41 | T | Methacrylonitrile | 0.256 | 0.249 | 2.7 | 110 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.495 | 0.505 | -2.0 | 120 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.853 | 0.917 | -7.5 | 130 | 0.00 |
| 44 | TM | Trichloroethene | 0.365 | 0.330 | 9.6 | 97 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.349 | 0.300 | 14.0# | 84 | 0.00 |
| 46 | T | Dibromomethane | 0.265 | 0.232 | 12.5 | 86 | 0.00 |
| 47 | T | Bromodichloromethane | 0.552 | 0.474 | 14.1 | 87 | 0.00 |
| 48 | T | Methyl methacrylate | 0.429 | 0.364 | 15.2 | 84 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048721.D
Acq On : 04 Dec 2025 14:04
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX120425

Quant Time: Dec 05 03:31:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 0.006 | 0.006 | 0.0 | 99 | 0.00 |
| 50 | S | Toluene-d8 | 1.207 | 1.075 | 10.9 | 88 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.530 | 0.467 | 11.9 | 83 | 0.00 |
| 52 | CM | Toluene | 0.843 | 0.777 | 7.8# | 86 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.526 | 0.489 | 7.0 | 87 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.565 | 0.516 | 8.7 | 86 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.339 | 0.311 | 8.3 | 88 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.531 | 0.512 | 3.6 | 88 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.564 | 0.512 | 9.2 | 88 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.287 | 0.278 | 3.1 | 87 | 0.00 |
| 59 | T | 2-Hexanone | 0.372 | 0.353 | 5.1 | 86 | 0.00 |
| 60 | T | Dibromochloromethane | 0.419 | 0.398 | 5.0 | 91 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.367 | 0.338 | 7.9 | 88 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.416 | 0.415 | 0.2 | 97 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 64 | T | Tetrachloroethene | 0.364 | 0.332 | 8.8 | 86 | 0.00 |
| 65 | PM | Chlorobenzene | 1.094 | 1.057 | 3.4 | 88 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.391 | 0.388 | 0.8 | 93 | 0.00 |
| 67 | C | Ethyl Benzene | 1.786 | 1.788 | -0.1# | 86 | 0.00 |
| 68 | T | m/p-Xylenes | 0.696 | 0.717 | -3.0 | 91 | 0.00 |
| 69 | T | o-Xylene | 0.652 | 0.672 | -3.1 | 90 | 0.00 |
| 70 | T | Styrene | 1.119 | 1.151 | -2.9 | 90 | 0.00 |
| 71 | P | Bromoform | 0.349 | 0.359 | -2.9 | 100 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 73 | T | Isopropylbenzene | 3.369 | 3.604 | -7.0 | 96 | 0.00 |
| 74 | T | N-amyl acetate | 1.464 | 1.724 | -17.8 | 96 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.137 | 1.212 | -6.6 | 100 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.931 | 0.996 | -7.0 | 101 | 0.00 |
| 77 | T | Bromobenzene | 0.899 | 0.906 | -0.8 | 99 | 0.00 |
| 78 | T | n-propylbenzene | 3.902 | 4.092 | -4.9 | 92 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.380 | 2.451 | -3.0 | 94 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.770 | 2.875 | -3.8 | 95 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.392 | 0.422 | -7.7 | 99 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.777 | 2.916 | -5.0 | 95 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.878 | 2.886 | -0.3 | 93 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.794 | 2.883 | -3.2 | 94 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.488 | 3.530 | -1.2 | 91 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.981 | 3.001 | -0.7 | 92 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.658 | 1.626 | 1.9 | 96 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.713 | 1.637 | 4.4 | 96 | 0.00 |
| 89 | T | n-Butylbenzene | 2.791 | 2.833 | -1.5 | 93 | 0.00 |
| 90 | T | Hexachloroethane | 0.608 | 0.571 | 6.1 | 93 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.607 | 1.546 | 3.8 | 95 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.277 | 0.281 | -1.4 | 102 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 1.062 | 0.998 | 6.0 | 97 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.439 | 0.396 | 9.8 | 97 | 0.00 |
| 95 | T | Naphthalene | 3.187 | 3.414 | -7.1 | 105 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048721.D
Acq On : 04 Dec 2025 14:04
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX120425

Quant Time: Dec 05 03:31:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 0.979 | 0.967 | 1.2 | 101 | 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_X\Data\VX120425\
Data File : VX048721.D
Acq On : 04 Dec 2025 14:04
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX120425

Quant Time: Dec 05 03:31:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 99 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 58.738 | -17.5 | 104 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 48.826 | 2.3 | 97 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 48.559 | 2.9# | 93 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 54.893 | -9.8 | 99 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 48.675 | 2.7 | 97 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 48.801 | 2.4 | 92 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 48.151 | 3.7 | 98 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 45.717 | 8.6 | 87 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 50.395 | -0.8 | 94 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 250.243 | -0.1 | 94 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 46.649 | 6.7# | 89 | 0.00 |
| 13 | T | Acrolein | 250.000 | 232.010 | 7.2 | 111 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 42.572 | 14.9 | 77 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 226.688 | 9.3 | 83 | 0.00 |
| 16 | T | Acetone | 250.000 | 204.537 | 18.2 | 85 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 41.077 | 17.8 | 77 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 44.401 | 11.2 | 82 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 45.629 | 8.7 | 86 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 47.622 | 4.8 | 93 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 44.308 | 11.4 | 83 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 50.527 | -1.1 | 116 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 276.044 | -10.4 | 121 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 52.811 | -5.6 | 117 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 244.061 | 2.4 | 109 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 45.857 | 8.3 | 98 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 48.033 | 3.9 | 101 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 45.040 | 9.9 | 107 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 277.876 | -11.2 | 129 | 0.00 |
| 30 | C | Chloroform | 50.000 | 52.061 | -4.1# | 115 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 49.171 | 1.7 | 111 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 50.071 | -0.1 | 106 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 54.154 | -8.3 | 125 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 107 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.960 | 0.1 | 110 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 47.458 | 5.1 | 110 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 46.283 | 7.4 | 104 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 47.169 | 5.7 | 102 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 42.440 | 15.1 | 79 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.374 | -0.7 | 114 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 48.603 | 2.8 | 110 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 51.045 | -2.1 | 120 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 53.729 | -7.5 | 130 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 45.250 | 9.5 | 97 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 42.935 | 14.1# | 84 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 43.757 | 12.5 | 86 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 42.902 | 14.2 | 87 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 42.366 | 15.3 | 84 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048721.D
Acq On : 04 Dec 2025 14:04
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX120425

Quant Time: Dec 05 03:31:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 985.778 | 1.4 | 99 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 44.544 | 10.9 | 88 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 220.496 | 11.8 | 83 | 0.00 |
| 52 | CM | Toluene | 50.000 | 46.077 | 7.8# | 86 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 46.514 | 7.0 | 87 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 45.699 | 8.6 | 86 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 45.811 | 8.4 | 88 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 48.247 | 3.5 | 88 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 45.415 | 9.2 | 88 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 242.598 | 3.0 | 87 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 237.637 | 4.9 | 86 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 47.409 | 5.2 | 91 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 46.076 | 7.8 | 88 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 49.905 | 0.2 | 97 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 91 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 45.571 | 8.9 | 86 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 48.287 | 3.4 | 88 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 49.615 | 0.8 | 93 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 50.069 | -0.1# | 86 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 103.051 | -3.1 | 91 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 51.580 | -3.2 | 90 | 0.00 |
| 70 | T | Styrene | 50.000 | 51.437 | -2.9 | 90 | 0.00 |
| 71 | P | Bromoform | 50.000 | 51.388 | -2.8 | 100 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 97 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 53.483 | -7.0 | 96 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 58.895 | -17.8 | 96 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 53.282 | -6.6 | 100 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 53.497 | -7.0 | 101 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.357 | -0.7 | 99 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 52.425 | -4.8 | 92 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 51.501 | -3.0 | 94 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.894 | -3.8 | 95 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 53.840 | -7.7 | 99 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 52.505 | -5.0 | 95 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 50.138 | -0.3 | 93 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.592 | -3.2 | 94 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 50.606 | -1.2 | 91 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.326 | -0.7 | 92 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 49.048 | 1.9 | 96 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 47.783 | 4.4 | 96 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 50.745 | -1.5 | 93 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 46.926 | 6.1 | 93 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 48.097 | 3.8 | 95 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.715 | -1.4 | 102 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 46.996 | 6.0 | 97 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 45.101 | 9.8 | 97 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 55.628 | -11.3 | 105 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048721.D
Acq On : 04 Dec 2025 14:04
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX120425

Quant Time: Dec 05 03:31:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 49.386 | 1.2 | 101 | 0.00 |

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

Raw Data: **VN088437.D**

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

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | JACO05 |
| Lab Code: | ACE | SDG No.: | Q3757 |
| Instrument ID: | MSVOA_N | Calibration Date/Time: | 12/04/2025 11:44 |
| Lab File ID: | VN088437.D | Init. Calib. Date(s): | 11/24/2025 11/24/2025 |
| Heated Purge: (Y/N) | N | Init. Calib. Time(s): | 12:38 14:35 |

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Vinyl Chloride | 0.821 | 0.817 | | -0.49 | 20 |
| 1,1-Dichloroethene | 0.610 | 0.619 | | 1.48 | 20 |
| 1,1-Dichloroethane | 1.367 | 1.487 | 0.1 | 8.78 | 20 |
| cis-1,2-Dichloroethene | 0.785 | 0.832 | | 5.99 | 20 |
| 1,1,1-Trichloroethane | 1.181 | 1.277 | | 8.13 | 20 |
| Benzene | 1.570 | 1.743 | | 11.02 | 20 |
| 1,2-Dichloroethane | 0.599 | 0.729 | | 21.7 | 20 |
| Trichloroethene | 0.371 | 0.385 | | 3.77 | 20 |
| 1,1,2-Trichloroethane | 0.351 | 0.402 | | 14.53 | 20 |
| Tetrachloroethene | 0.396 | 0.360 | | -9.09 | 20 |
| 1,2-Dichloroethane-d4 | 0.942 | 1.041 | | 10.51 | 20 |
| Dibromofluoromethane | 0.346 | 0.396 | | 14.45 | 20 |
| Toluene-d8 | 1.289 | 1.429 | | 10.86 | 20 |
| 4-Bromofluorobenzene | 0.442 | 0.507 | | 14.71 | 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_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 259230 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.077 | 114 | 454552 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.841 | 117 | 431157 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.765 | 152 | 210277 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.559 | 65 | 269836 | 55.256 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 110.520% | | | |
| 35) Dibromofluoromethane | 8.147 | 113 | 180201 | 57.206 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 114.420% | | | |
| 50) Toluene-d8 | 10.541 | 98 | 649537 | 55.419 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 110.840% | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 230283 | 57.262 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 114.520% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.142 | 85 | 201478 | 51.745 | ug/l | 99 |
| 3) Chloromethane | 2.383 | 50 | 206193 | 49.307 | ug/l | 96 |
| 4) Vinyl Chloride | 2.536 | 62 | 211796 | 49.784 | ug/l | 100 |
| 5) Bromomethane | 2.977 | 94 | 100901 | 49.278 | ug/l | 93 |
| 6) Chloroethane | 3.142 | 64 | 138625 | 52.654 | ug/l | 95 |
| 7) Trichlorofluoromethane | 3.512 | 101 | 324899 | 54.337 | ug/l | 99 |
| 8) Diethyl Ether | 3.959 | 74 | 117687 | 52.439 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.365 | 101 | 164403 | 51.647 | ug/l | 99 |
| 10) Methyl Iodide | 4.583 | 142 | 141417 | 44.878 | ug/l | 92 |
| 11) Tert butyl alcohol | 5.524 | 59 | 174143 | 223.357 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 4.336 | 96 | 160467 | 50.738 | ug/l | 93 |
| 13) Acrolein | 4.171 | 56 | 216629 | 290.220 | ug/l | 98 |
| 14) Allyl chloride | 5.018 | 41 | 291153 | 49.668 | ug/l | 96 |
| 15) Acrylonitrile | 5.706 | 53 | 590127 | 262.341 | ug/l | 99 |
| 16) Acetone | 4.418 | 43 | 408907 | 231.533 | ug/l | 100 |
| 17) Carbon Disulfide | 4.706 | 76 | 513890 | 49.724 | ug/l | 99 |
| 18) Methyl Acetate | 5.012 | 43 | 289409 | 55.051 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.789 | 73 | 650434 | 54.892 | ug/l | 95 |
| 20) Methylene Chloride | 5.265 | 84 | 193652 | 51.250 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.771 | 96 | 182717 | 52.153 | ug/l | 99 |
| 22) Diisopropyl ether | 6.659 | 45 | 700009 | 55.934 | ug/l | 98 |
| 23) Vinyl Acetate | 6.589 | 43 | 3136556 | 311.072 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.553 | 63 | 385388 | 54.378 | ug/l | 99 |
| 25) 2-Butanone | 7.465 | 43 | 739812 | 260.572 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 7.471 | 77 | 326583 | 53.386 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.465 | 96 | 215724 | 52.983 | ug/l | 99 |
| 28) Bromochloromethane | 7.794 | 49 | 199532 | 56.516 | ug/l | 97 |
| 29) Tetrahydrofuran | 7.818 | 42 | 562734 | 276.329 | ug/l | 99 |
| 30) Chloroform | 7.947 | 83 | 392592 | 56.375 | ug/l | 99 |
| 31) Cyclohexane | 8.241 | 56 | 322585 | 50.228 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 8.147 | 97 | 331052 | 54.066 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 8.347 | 75 | 262020 | 53.897 | ug/l | 99 |
| 37) Ethyl Acetate | 7.542 | 43 | 348681 | 54.547 | ug/l | 100 |
| 38) Carbon Tetrachloride | 8.341 | 117 | 280878 | 58.038 | ug/l | 96 |
| 39) Methylcyclohexane | 9.577 | 83 | 272178 | 52.341 | ug/l | 94 |
| 40) Benzene | 8.583 | 78 | 792340 | 55.531 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.759 | 41 | 184821 | 58.376 | ug/l | | 96 |
| 42) 1,2-Dichloroethane | 8.647 | 62 | 331550 | 60.904 | ug/l | | 97 |
| 43) Isopropyl Acetate | 8.671 | 43 | 542837 | 55.581 | ug/l | | 100 |
| 44) Trichloroethene | 9.330 | 130 | 174795 | 51.846 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.594 | 63 | 210122 | 57.477 | ug/l | | 96 |
| 46) Dibromomethane | 9.688 | 93 | 150122 | 57.541 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.865 | 83 | 307416 | 57.749 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.659 | 41 | 262024 | 58.800 | ug/l | | 97 |
| 49) 1,4-Dioxane | 9.677 | 88 | 58650 | 1034.918 | ug/l | # | 97 |
| 51) 4-Methyl-2-Pentanone | 10.424 | 43 | 1723595 | 299.404 | ug/l | | 100 |
| 52) Toluene | 10.606 | 92 | 480292 | 58.295 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.812 | 75 | 312027 | 57.105 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 10.288 | 75 | 330756 | 57.561 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.994 | 97 | 182938 | 57.390 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.853 | 69 | 311735 | 61.911 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 11.141 | 76 | 332821 | 57.876 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 10.135 | 63 | 883178 | 304.242 | ug/l | | 100 |
| 59) 2-Hexanone | 11.177 | 43 | 1099155 | 303.090 | ug/l | | 100 |
| 60) Dibromochloromethane | 11.335 | 129 | 214567 | 59.046 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.447 | 107 | 184522 | 57.164 | ug/l | | 99 |
| 64) Tetrachloroethene | 11.077 | 164 | 155230 | 45.415 | ug/l | | 97 |
| 65) Chlorobenzene | 11.871 | 112 | 504973 | 52.142 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.935 | 131 | 177636 | 54.384 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.941 | 91 | 910559 | 53.794 | ug/l | | 100 |
| 68) m/p-Xylenes | 12.047 | 106 | 690769 | 110.067 | ug/l | | 100 |
| 69) o-Xylene | 12.376 | 106 | 319328 | 53.371 | ug/l | | 97 |
| 70) Styrene | 12.388 | 104 | 558388 | 57.477 | ug/l | | 99 |
| 71) Bromoform | 12.559 | 173 | 134945 | 56.405 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.671 | 105 | 846156 | 54.424 | ug/l | | 100 |
| 74) N-amyl acetate | 12.500 | 43 | 212974m | 40.223 | ug/l | | |
| 75) 1,1,2,2-Tetrachloroethane | 12.918 | 83 | 276796 | 55.070 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.971 | 75 | 264559m | 53.717 | ug/l | | |
| 77) Bromobenzene | 12.959 | 156 | 197041 | 55.390 | ug/l | | 98 |
| 78) n-propylbenzene | 13.012 | 91 | 1046093 | 54.998 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 13.100 | 91 | 615186 | 52.964 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 13.147 | 105 | 720007 | 55.887 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.712 | 75 | 100456 | 57.865 | ug/l | # | 89 |
| 82) 4-Chlorotoluene | 13.200 | 91 | 656816 | 56.933 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.412 | 119 | 588225 | 53.710 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.459 | 105 | 730000 | 57.007 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.588 | 105 | 847596 | 53.872 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.706 | 119 | 706011 | 54.723 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.712 | 146 | 376351 | 54.348 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.788 | 146 | 380675 | 52.479 | ug/l | | 97 |
| 89) n-Butylbenzene | 14.029 | 91 | 671306 | 53.590 | ug/l | | 100 |
| 90) Hexachloroethane | 14.306 | 117 | 127576 | 54.130 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 14.082 | 146 | 349875 | 53.690 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.694 | 75 | 63936 | 52.428 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 15.365 | 180 | 194146 | 50.142 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.470 | 225 | 72189 | 51.883 | ug/l | | 97 |
| 95) Naphthalene | 15.612 | 128 | 712709 | 53.119 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.812 | 180 | 192507 | 51.087 | ug/l | | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

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

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

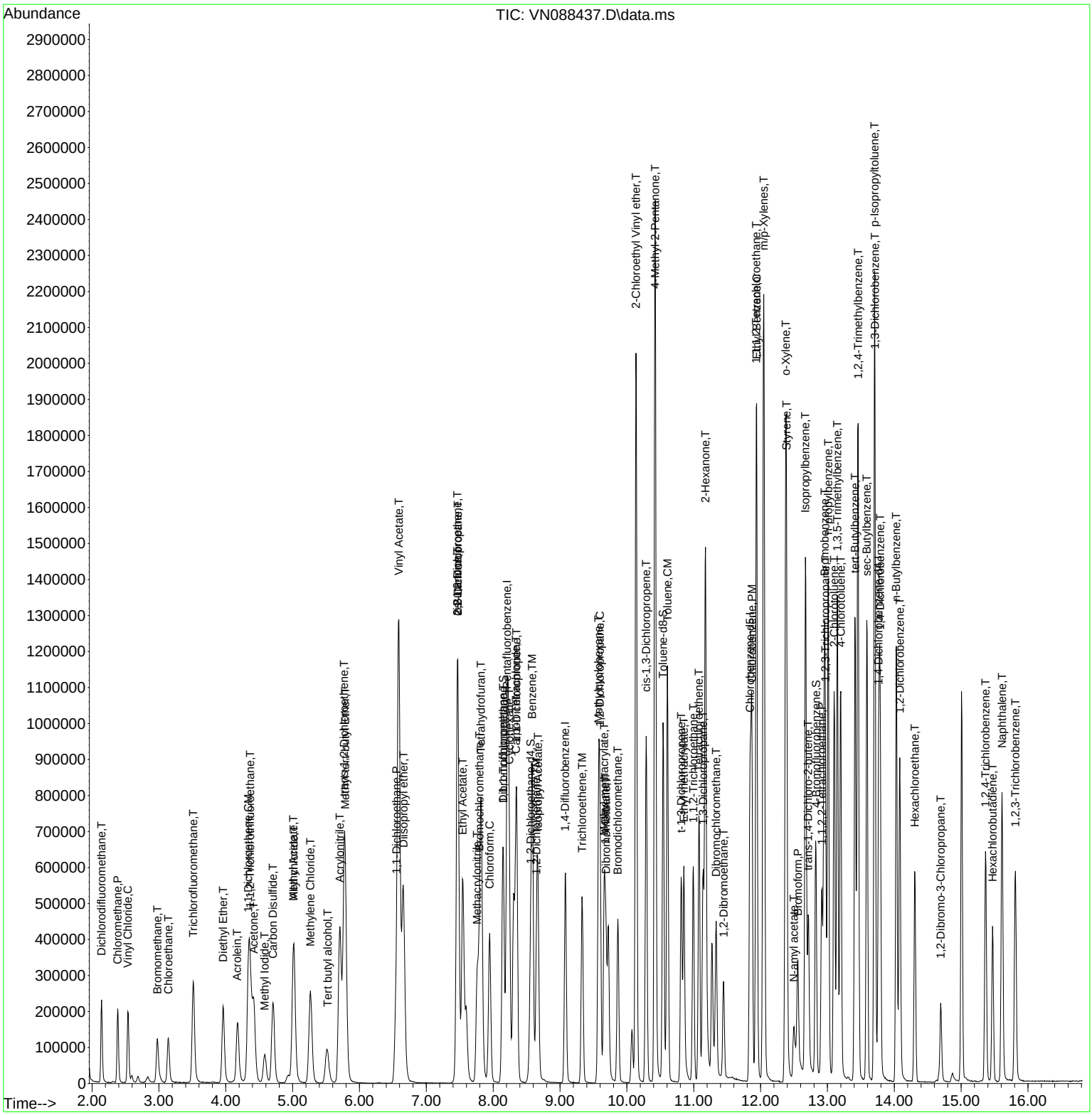
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025



Sample Results: **VN088437.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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 | 102 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.751 | 0.777 | -3.5 | 107 | 0.00 |
| 3 | P | Chloromethane | 0.807 | 0.795 | 1.5 | 101 | 0.00 |
| 4 | C | Vinyl Chloride | 0.821 | 0.817 | 0.5# | 103 | 0.00 |
| 5 | T | Bromomethane | 0.395 | 0.389 | 1.5 | 100 | 0.00 |
| 6 | T | Chloroethane | 0.508 | 0.535 | -5.3 | 108 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.153 | 1.253 | -8.7 | 117 | 0.00 |
| 8 | T | Diethyl Ether | 0.433 | 0.454 | -4.8 | 104 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.614 | 0.634 | -3.3 | 115 | 0.00 |
| 10 | T | Methyl Iodide | 0.608 | 0.546 | 10.2 | 84 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.150 | 0.134 | 10.7 | 85 | 0.01 |
| 12 | CM | 1,1-Dichloroethene | 0.610 | 0.619 | -1.5# | 111 | 0.00 |
| 13 | T | Acrolein | 0.144 | 0.167 | -16.0 | 113 | 0.00 |
| 14 | T | Allyl chloride | 1.131 | 1.123 | 0.7 | 100 | 0.00 |
| 15 | T | Acrylonitrile | 0.434 | 0.455 | -4.8 | 99 | 0.00 |
| 16 | T | Acetone | 0.341 | 0.315 | 7.6 | 96 | 0.00 |
| 17 | T | Carbon Disulfide | 1.993 | 1.982 | 0.6 | 102 | 0.00 |
| 18 | T | Methyl Acetate | 1.014 | 1.116 | -10.1 | 108 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.285 | 2.509 | -9.8 | 102 | 0.00 |
| 20 | T | Methylene Chloride | 0.729 | 0.747 | -2.5 | 101 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.676 | 0.705 | -4.3 | 105 | 0.00 |
| 22 | T | Diisopropyl ether | 2.414 | 2.700 | -11.8 | 107 | 0.00 |
| 23 | T | Vinyl Acetate | 1.945 | 2.420 | -24.4 | 115 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.367 | 1.487 | -8.8 | 106 | 0.00 |
| 25 | T | 2-Butanone | 0.548 | 0.571 | -4.2 | 98 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.180 | 1.260 | -6.8 | 107 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.785 | 0.832 | -6.0 | 102 | 0.00 |
| 28 | T | Bromochloromethane | 0.681 | 0.770 | -13.1 | 107 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.393 | 0.434 | -10.4 | 103 | 0.00 |
| 30 | C | Chloroform | 1.343 | 1.514 | -12.7# | 111 | 0.00 |
| 31 | T | Cyclohexane | 1.239 | 1.244 | -0.4 | 112 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.181 | 1.277 | -8.1 | 112 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.942 | 1.041 | -10.5 | 106 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.346 | 0.396 | -14.5 | 107 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.535 | 0.576 | -7.7 | 111 | 0.00 |
| 37 | T | Ethyl Acetate | 0.703 | 0.767 | -9.1 | 101 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.532 | 0.618 | -16.2 | 117 | 0.00 |
| 39 | T | Methylcyclohexane | 0.572 | 0.599 | -4.7 | 107 | 0.00 |
| 40 | TM | Benzene | 1.570 | 1.743 | -11.0 | 106 | 0.00 |
| 41 | T | Methacrylonitrile | 0.348 | 0.407 | -17.0 | 108 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.599 | 0.729 | -21.7 | 112 | 0.00 |
| 43 | T | Isopropyl Acetate | 1.074 | 1.194 | -11.2 | 101 | 0.00 |
| 44 | TM | Trichloroethene | 0.371 | 0.385 | -3.8 | 102 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.402 | 0.462 | -14.9# | 108 | 0.00 |
| 46 | T | Dibromomethane | 0.287 | 0.330 | -15.0 | 107 | 0.00 |
| 47 | T | Bromodichloromethane | 0.586 | 0.676 | -15.4 | 108 | 0.00 |
| 48 | T | Methyl methacrylate | 0.490 | 0.576 | -17.6 | 106 | 0.00 |

Sample Results: **VN088437.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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 | 0.006 | 0.006 | 0.0 | 92 | 0.00 |
| 50 | S | Toluene-d8 | 1.289 | 1.429 | -10.9 | 105 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.633 | 0.758 | -19.7 | 107 | 0.00 |
| 52 | CM | Toluene | 0.906 | 1.057 | -16.7# | 109 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.601 | 0.686 | -14.1 | 103 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.632 | 0.728 | -15.2 | 104 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.351 | 0.402 | -14.5 | 108 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.554 | 0.686 | -23.8 | 105 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.633 | 0.732 | -15.6 | 107 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.319 | 0.389 | -21.9 | 101 | 0.00 |
| 59 | T | 2-Hexanone | 0.399 | 0.484 | -21.3 | 105 | 0.00 |
| 60 | T | Dibromochloromethane | 0.400 | 0.472 | -18.0 | 109 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.355 | 0.406 | -14.4 | 104 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.442 | 0.507 | -14.7 | 107 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 64 | T | Tetrachloroethene | 0.396 | 0.360 | 9.1 | 97 | 0.00 |
| 65 | PM | Chlorobenzene | 1.123 | 1.171 | -4.3 | 107 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.379 | 0.412 | -8.7 | 109 | 0.00 |
| 67 | C | Ethyl Benzene | 1.963 | 2.112 | -7.6# | 110 | 0.00 |
| 68 | T | m/p-Xylenes | 0.728 | 0.801 | -10.0 | 111 | 0.00 |
| 69 | T | o-Xylene | 0.694 | 0.741 | -6.8 | 108 | 0.00 |
| 70 | T | Styrene | 1.127 | 1.295 | -14.9 | 110 | 0.00 |
| 71 | P | Bromoform | 0.277 | 0.313 | -13.0 | 111 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 73 | T | Isopropylbenzene | 3.697 | 4.024 | -8.8 | 112 | 0.00 |
| 74 | T | N-amyl acetate | 1.259 | 1.013 | 19.5 | 98 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.195 | 1.316 | -10.1 | 118 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.171 | 1.258 | -7.4 | 106 | 0.00 |
| 77 | T | Bromobenzene | 0.846 | 0.937 | -10.8 | 109 | 0.00 |
| 78 | T | n-propylbenzene | 4.523 | 4.975 | -10.0 | 113 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.762 | 2.926 | -5.9 | 109 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.063 | 3.424 | -11.8 | 113 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.413 | 0.478 | -15.7 | 112 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.743 | 3.124 | -13.9 | 110 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.604 | 2.797 | -7.4 | 112 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.045 | 3.472 | -14.0 | 112 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.741 | 4.031 | -7.8 | 113 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.068 | 3.358 | -9.5 | 111 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.647 | 1.790 | -8.7 | 112 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.725 | 1.810 | -4.9 | 109 | 0.00 |
| 89 | T | n-Butylbenzene | 2.979 | 3.192 | -7.2 | 112 | 0.00 |
| 90 | T | Hexachloroethane | 0.560 | 0.607 | -8.4 | 114 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.550 | 1.664 | -7.4 | 110 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.290 | 0.304 | -4.8 | 106 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.921 | 0.923 | -0.2 | 105 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.331 | 0.343 | -3.6 | 117 | 0.00 |
| 95 | T | Naphthalene | 3.190 | 3.389 | -6.2 | 104 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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 | 0.896 | 0.915 | -2.1 | 105 | 0.00 |

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

Sample Results: **VN088437.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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 | 102 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 51.745 | -3.5 | 107 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 49.307 | 1.4 | 101 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 49.784 | 0.4# | 103 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 49.278 | 1.4 | 100 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 52.654 | -5.3 | 108 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 54.337 | -8.7 | 117 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 52.439 | -4.9 | 104 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 51.647 | -3.3 | 115 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 44.878 | 10.2 | 84 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 223.357 | 10.7 | 85 | 0.01 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 50.738 | -1.5# | 111 | 0.00 |
| 13 | T | Acrolein | 250.000 | 290.220 | -16.1 | 113 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 49.668 | 0.7 | 100 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 262.341 | -4.9 | 99 | 0.00 |
| 16 | T | Acetone | 250.000 | 231.533 | 7.4 | 96 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 49.724 | 0.6 | 102 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 55.051 | -10.1 | 108 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 54.892 | -9.8 | 102 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 51.250 | -2.5 | 101 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 52.153 | -4.3 | 105 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 55.934 | -11.9 | 107 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 311.072 | -24.4 | 115 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 54.378 | -8.8 | 106 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 260.572 | -4.2 | 98 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 53.386 | -6.8 | 107 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 52.983 | -6.0 | 102 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 56.516 | -13.0 | 107 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 276.329 | -10.5 | 103 | 0.00 |
| 30 | C | Chloroform | 50.000 | 56.375 | -12.8# | 111 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 50.228 | -0.5 | 112 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 54.066 | -8.1 | 112 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 55.256 | -10.5 | 106 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 95 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 57.206 | -14.4 | 107 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 53.897 | -7.8 | 111 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 54.547 | -9.1 | 101 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 58.038 | -16.1 | 117 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 52.341 | -4.7 | 107 | 0.00 |
| 40 | TM | Benzene | 50.000 | 55.531 | -11.1 | 106 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 58.376 | -16.8 | 108 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 60.904 | -21.8 | 112 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 55.581 | -11.2 | 101 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.846 | -3.7 | 102 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 57.477 | -15.0# | 108 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 57.541 | -15.1 | 107 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 57.749 | -15.5 | 108 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 58.800 | -17.6 | 106 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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 | 1034.918 | -3.5 | 92 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 55.419 | -10.8 | 105 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 299.404 | -19.8 | 107 | 0.00 |
| 52 | CM | Toluene | 50.000 | 58.295 | -16.6# | 109 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 57.105 | -14.2 | 103 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 57.561 | -15.1 | 104 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 57.390 | -14.8 | 108 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 61.911 | -23.8 | 105 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 57.876 | -15.8 | 107 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 304.242 | -21.7 | 101 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 303.090 | -21.2 | 105 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 59.046 | -18.1 | 109 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 57.164 | -14.3 | 104 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 57.262 | -14.5 | 107 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 101 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 45.415 | 9.2 | 97 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 52.142 | -4.3 | 107 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 54.384 | -8.8 | 109 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 53.794 | -7.6# | 110 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 110.067 | -10.1 | 111 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 53.371 | -6.7 | 108 | 0.00 |
| 70 | T | Styrene | 50.000 | 57.477 | -15.0 | 110 | 0.00 |
| 71 | P | Bromoform | 50.000 | 56.405 | -12.8 | 111 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 101 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 54.424 | -8.8 | 112 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 40.223 | 19.6 | 98 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 55.070 | -10.1 | 118 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 53.717 | -7.4 | 106 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 55.390 | -10.8 | 109 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 54.998 | -10.0 | 113 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 52.964 | -5.9 | 109 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 55.887 | -11.8 | 113 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 57.865 | -15.7 | 112 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 56.933 | -13.9 | 110 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 53.710 | -7.4 | 112 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 57.007 | -14.0 | 112 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 53.872 | -7.7 | 113 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 54.723 | -9.4 | 111 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 54.348 | -8.7 | 112 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 52.479 | -5.0 | 109 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 53.590 | -7.2 | 112 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 54.130 | -8.3 | 114 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 53.690 | -7.4 | 110 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.428 | -4.9 | 106 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 50.142 | -0.3 | 105 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 51.883 | -3.8 | 117 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 53.119 | -6.2 | 104 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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 | 51.087 | -2.2 | 105 | 0.00 |

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

Raw Data: **VX048723.D**

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

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | JACO05 |
| Lab Code: | ACE | SDG No.: | Q3757 |
| Instrument ID: | MSVOA_X | Calibration Date/Time: | 12/05/2025 08:45 |
| Lab File ID: | VX048723.D | Init. Calib. Date(s): | 12/04/2025 12/04/2025 |
| Heated Purge: (Y/N) | N | Init. Calib. Time(s): | 08:47 10:38 |

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Vinyl Chloride | 0.685 | 0.781 | | 14.02 | 20 |
| 1,1-Dichloroethene | 0.581 | 0.641 | | 10.33 | 20 |
| 1,1-Dichloroethane | 1.016 | 1.170 | 0.1 | 15.16 | 20 |
| cis-1,2-Dichloroethene | 0.669 | 0.724 | | 8.22 | 20 |
| 1,1,1-Trichloroethane | 0.975 | 0.958 | | -1.74 | 20 |
| Benzene | 1.398 | 1.412 | | 1 | 20 |
| 1,2-Dichloroethane | 0.495 | 0.470 | | -5.05 | 20 |
| Trichloroethene | 0.365 | 0.386 | | 5.75 | 20 |
| 1,1,2-Trichloroethane | 0.339 | 0.340 | | 0.29 | 20 |
| Tetrachloroethene | 0.364 | 0.370 | | 1.65 | 20 |
| 1,2-Dichloroethane-d4 | 0.671 | 0.588 | | -12.37 | 20 |
| Dibromofluoromethane | 0.344 | 0.344 | | 0 | 20 |
| Toluene-d8 | 1.207 | 1.162 | | -3.73 | 20 |
| 4-Bromofluorobenzene | 0.416 | 0.430 | | 3.37 | 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_X\Data\VX120525\
Data File : VX048723.D
Acq On : 05 Dec 2025 08:45
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 05 21:57:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/08/2025
Supervised By :Semsettin Yesilyurt 12/08/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.525 | 168 | 218600 | 50.000 | ug/l | -0.01 |
| 34) 1,4-Difluorobenzene | 6.739 | 114 | 333007 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 285113 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.000 | 152 | 141895 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.928 | 65 | 128597 | 43.830 | ug/l | -0.01 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = 87.660% | | | |
| 35) Dibromofluoromethane | 5.361 | 113 | 114548 | 49.958 | ug/l | -0.01 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 99.920% | | | |
| 50) Toluene-d8 | 8.628 | 98 | 387114 | 48.165 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = 96.320% | | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 143327 | 51.715 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = 103.420% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.172 | 85 | 145674 | 65.404 | ug/l | 99 |
| 3) Chloromethane | 1.300 | 50 | 159260 | 56.664 | ug/l | 100 |
| 4) Vinyl Chloride | 1.380 | 62 | 170695 | 57.025 | ug/l | 99 |
| 5) Bromomethane | 1.611 | 94 | 112783 | 60.970 | ug/l | 98 |
| 6) Chloroethane | 1.697 | 64 | 99323 | 53.315 | ug/l | 96 |
| 7) Trichlorofluoromethane | 1.898 | 101 | 247779 | 57.756 | ug/l | 94 |
| 8) Diethyl Ether | 2.130 | 74 | 90045 | 52.586 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 2.337 | 101 | 143083 | 57.531 | ug/l | 99 |
| 10) Methyl Iodide | 2.453 | 142 | 192766 | 54.443 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.934 | 59 | 128210 | 270.659 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.325 | 96 | 140210 | 55.236 | ug/l | 98 |
| 13) Acrolein | 2.233 | 56 | 115513 | 252.157 | ug/l | 99 |
| 14) Allyl chloride | 2.660 | 41 | 253145 | 59.399 | ug/l | 99 |
| 15) Acrylonitrile | 3.050 | 53 | 420739 | 285.052 | ug/l | 99 |
| 16) Acetone | 2.367 | 43 | 252696 | 224.979 | ug/l | 99 |
| 17) Carbon Disulfide | 2.514 | 76 | 407978 | 55.345 | ug/l | 99 |
| 18) Methyl Acetate | 2.690 | 43 | 180477 | 57.109 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.099 | 73 | 461178 | 55.825 | ug/l | 99 |
| 20) Methylene Chloride | 2.788 | 84 | 147541 | 52.553 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 141112 | 54.468 | ug/l | 97 |
| 22) Diisopropyl ether | 3.739 | 45 | 471234 | 59.164 | ug/l | 89 |
| 23) Vinyl Acetate | 3.702 | 43 | 2070737 | 309.410 | ug/l | 97 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 255858 | 57.605 | ug/l | 99 |
| 25) 2-Butanone | 4.525 | 43 | 438661 | 264.615 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 4.458 | 77 | 221602 | 56.387 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 4.471 | 96 | 158350 | 54.165 | ug/l | 94 |
| 28) Bromochloromethane | 4.873 | 49 | 95984 | 44.090 | ug/l | 99 |
| 29) Tetrahydrofuran | 4.971 | 42 | 279279 | 220.633 | ug/l | 100 |
| 30) Chloroform | 5.068 | 83 | 227566 | 47.817 | ug/l | 96 |
| 31) Cyclohexane | 5.458 | 56 | 193584 | 48.816 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 5.367 | 97 | 209445 | 49.117 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.672 | 75 | 154341 | 49.146 | ug/l | 99 |
| 37) Ethyl Acetate | 4.684 | 43 | 209277 | 55.770 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.653 | 117 | 183592 | 51.612 | ug/l | 95 |
| 39) Methylcyclohexane | 7.360 | 83 | 201583 | 54.284 | ug/l | 98 |
| 40) Benzene | 6.013 | 78 | 470247 | 50.512 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048723.D
Acq On : 05 Dec 2025 08:45
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 05 21:57:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/08/2025
Supervised By :Semsettin Yesilyurt 12/08/2025

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.885 | 41 | 85389 | 50.012 ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.062 | 62 | 156454 | 47.481 ug/l | | 99 |
| 43) Isopropyl Acetate | 6.312 | 43 | 272582 | 47.972 ug/l | | 100 |
| 44) Trichloroethene | 7.104 | 130 | 128510 | 52.904 ug/l | | 98 |
| 45) 1,2-Dichloropropane | 7.409 | 63 | 113587 | 48.816 ug/l | | 98 |
| 46) Dibromomethane | 7.562 | 93 | 90217 | 51.127 ug/l | | 98 |
| 47) Bromodichloromethane | 7.799 | 83 | 174628 | 47.467 ug/l | | 98 |
| 48) Methyl methacrylate | 7.671 | 41 | 132257 | 46.271 ug/l | | 96 |
| 49) 1,4-Dioxane | 7.635 | 88 | 38976 | 991.484 ug/l | | 94 |
| 51) 4-Methyl-2-Pentanone | 8.549 | 43 | 932226 | 264.320 ug/l | | 99 |
| 52) Toluene | 8.695 | 92 | 288281 | 51.352 ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.958 | 75 | 177909 | 50.831 ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.348 | 75 | 214885 | 57.128 ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 9.134 | 97 | 113331 | 50.174 ug/l | | 97 |
| 56) Ethyl methacrylate | 9.098 | 69 | 186000 | 52.609 ug/l | | 95 |
| 57) 1,3-Dichloropropane | 9.287 | 76 | 185763 | 49.459 ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.220 | 63 | 541236 | 283.237 ug/l | | 100 |
| 59) 2-Hexanone | 9.409 | 43 | 597075 | 241.164 ug/l | | 98 |
| 60) Dibromochloromethane | 9.500 | 129 | 142497 | 51.018 ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.592 | 107 | 123509 | 50.522 ug/l | | 99 |
| 64) Tetrachloroethene | 9.256 | 164 | 105510 | 50.770 ug/l | | 97 |
| 65) Chlorobenzene | 10.061 | 112 | 314975 | 50.470 ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 10.146 | 131 | 116117 | 52.020 ug/l | | 99 |
| 67) Ethyl Benzene | 10.177 | 91 | 546930 | 53.707 ug/l | | 100 |
| 68) m/p-Xylenes | 10.281 | 106 | 420696 | 106.052 ug/l | | 98 |
| 69) o-Xylene | 10.622 | 106 | 217816 | 58.597 ug/l | | 98 |
| 70) Styrene | 10.634 | 104 | 372009 | 58.297 ug/l | | 99 |
| 71) Bromoform | 10.780 | 173 | 104690 | 52.533 ug/l | # | 100 |
| 73) Isopropylbenzene | 10.945 | 105 | 557420 | 58.295 ug/l | | 100 |
| 74) N-amyl acetate | 10.823 | 43 | 263606 | 63.447 ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.195 | 83 | 179135 | 55.522 ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.219 | 75 | 149256m | 56.476 ug/l | | |
| 77) Bromobenzene | 11.177 | 156 | 138509 | 54.271 ug/l | | 99 |
| 78) n-propylbenzene | 11.286 | 91 | 664210 | 59.976 ug/l | | 99 |
| 79) 2-Chlorotoluene | 11.347 | 91 | 390949 | 57.891 ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.433 | 105 | 424884 | 54.057 ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 11.000 | 75 | 63823 | 57.364 ug/l | # | 82 |
| 82) 4-Chlorotoluene | 11.433 | 91 | 418818 | 53.145 ug/l | | 98 |
| 83) tert-Butylbenzene | 11.695 | 119 | 442145 | 54.139 ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.732 | 105 | 429499 | 54.171 ug/l | | 99 |
| 85) sec-Butylbenzene | 11.872 | 105 | 543871 | 54.950 ug/l | | 98 |
| 86) p-Isopropyltoluene | 11.988 | 119 | 464335 | 54.884 ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.951 | 146 | 246588 | 52.411 ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.018 | 146 | 246394 | 50.678 ug/l | | 99 |
| 89) n-Butylbenzene | 12.311 | 91 | 421225 | 53.176 ug/l | | 99 |
| 90) Hexachloroethane | 12.518 | 117 | 87435 | 50.636 ug/l | | 94 |
| 91) 1,2-Dichlorobenzene | 12.317 | 146 | 233490 | 51.188 ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.920 | 75 | 36967 | 47.079 ug/l | | 93 |
| 93) 1,2,4-Trichlorobenzene | 13.567 | 180 | 159178 | 52.838 ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.707 | 225 | 66243 | 53.159 ug/l | | 97 |
| 95) Naphthalene | 13.756 | 128 | 491675 | 56.310 ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.938 | 180 | 146739 | 52.816 ug/l | | 99 |

Sample Results: **VX048723.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048723.D
Acq On : 05 Dec 2025 08:45
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/08/2025
Supervised By :Semsettin Yesilyurt 12/08/2025

Quant Time: Dec 05 21:57:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

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

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

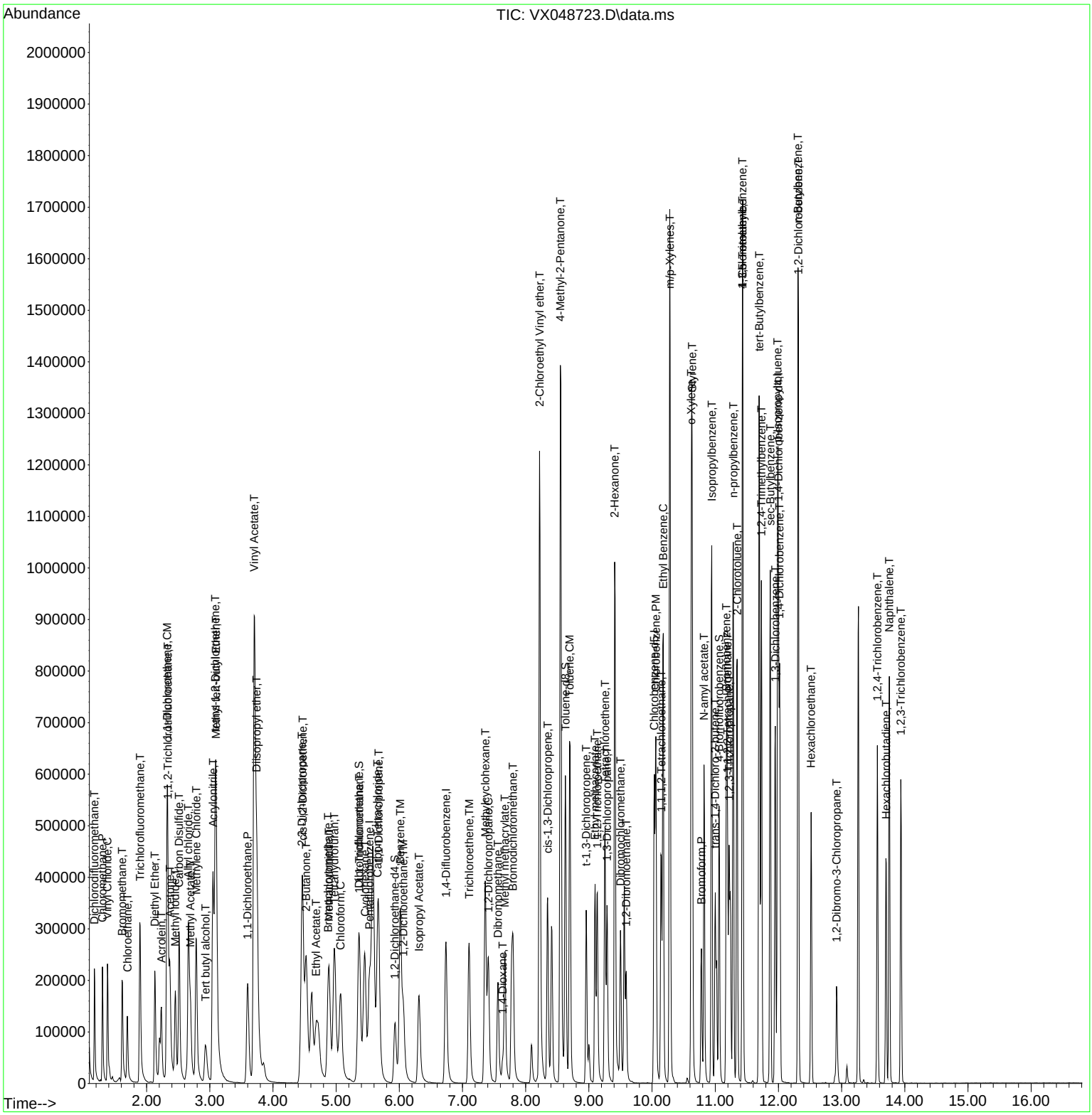
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048723.D
Acq On : 05 Dec 2025 08:45
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 05 21:57:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/08/2025
Supervised By :Semsettin Yesilyurt 12/08/2025



Sample Results: **VX048723.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048723.D
Acq On : 05 Dec 2025 08:45
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 05 21:57:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 117 | -0.01 |
| 2 | T | Dichlorodifluoromethane | 0.509 | 0.666 | -30.8# | 137 | 0.00 |
| 3 | P | Chloromethane | 0.643 | 0.729 | -13.4 | 132 | 0.00 |
| 4 | C | Vinyl Chloride | 0.685 | 0.781 | -14.0# | 129 | 0.00 |
| 5 | T | Bromomethane | 0.423 | 0.516 | -22.0 | 129 | 0.00 |
| 6 | T | Chloroethane | 0.426 | 0.454 | -6.6 | 125 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.981 | 1.133 | -15.5 | 129 | 0.00 |
| 8 | T | Diethyl Ether | 0.392 | 0.412 | -5.1 | 127 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.569 | 0.655 | -15.1 | 129 | 0.00 |
| 10 | T | Methyl Iodide | 0.810 | 0.882 | -8.9 | 119 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.108 | 0.117 | -8.3 | 120 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.581 | 0.641 | -10.3# | 125 | 0.00 |
| 13 | T | Acrolein | 0.091 | 0.106 | -16.5 | 144 | 0.00 |
| 14 | T | Allyl chloride | 0.975 | 1.158 | -18.8 | 126 | 0.00 |
| 15 | T | Acrylonitrile | 0.338 | 0.385 | -13.9 | 123 | 0.00 |
| 16 | T | Acetone | 0.257 | 0.231 | 10.1 | 110 | 0.00 |
| 17 | T | Carbon Disulfide | 1.686 | 1.866 | -10.7 | 123 | 0.00 |
| 18 | T | Methyl Acetate | 0.723 | 0.826 | -14.2 | 124 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.890 | 2.110 | -11.6 | 124 | 0.00 |
| 20 | T | Methylene Chloride | 0.642 | 0.675 | -5.1 | 122 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.593 | 0.646 | -8.9 | 121 | 0.00 |
| 22 | T | Diisopropyl ether | 1.822 | 2.156 | -18.3 | 161# | -0.01 |
| 23 | T | Vinyl Acetate | 1.531 | 1.895 | -23.8 | 161# | -0.01 |
| 24 | P | 1,1-Dichloroethane | 1.016 | 1.170 | -15.2 | 151# | 0.00 |
| 25 | T | 2-Butanone | 0.379 | 0.401 | -5.8 | 139 | -0.01 |
| 26 | T | 2,2-Dichloropropane | 0.899 | 1.014 | -12.8 | 143 | -0.01 |
| 27 | T | cis-1,2-Dichloroethene | 0.669 | 0.724 | -8.2 | 135 | -0.01 |
| 28 | T | Bromochloromethane | 0.498 | 0.439 | 11.8 | 123 | -0.01 |
| 29 | T | Tetrahydrofuran | 0.290 | 0.256 | 11.7 | 121 | -0.01 |
| 30 | C | Chloroform | 1.089 | 1.041 | 4.4# | 124 | -0.01 |
| 31 | T | Cyclohexane | 0.907 | 0.886 | 2.3 | 130 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.975 | 0.958 | 1.7 | 123 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.671 | 0.588 | 12.4 | 119 | -0.01 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 115 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.344 | 0.344 | 0.0 | 119 | -0.01 |
| 36 | T | 1,1-Dichloropropene | 0.472 | 0.463 | 1.9 | 122 | -0.01 |
| 37 | T | Ethyl Acetate | 0.563 | 0.628 | -11.5 | 134 | -0.01 |
| 38 | T | Carbon Tetrachloride | 0.534 | 0.551 | -3.2 | 120 | -0.01 |
| 39 | T | Methylcyclohexane | 0.558 | 0.605 | -8.4 | 109 | 0.00 |
| 40 | TM | Benzene | 1.398 | 1.412 | -1.0 | 123 | -0.01 |
| 41 | T | Methacrylonitrile | 0.256 | 0.256 | 0.0 | 122 | -0.02 |
| 42 | TM | 1,2-Dichloroethane | 0.495 | 0.470 | 5.1 | 120 | -0.01 |
| 43 | T | Isopropyl Acetate | 0.853 | 0.819 | 4.0 | 125 | -0.01 |
| 44 | TM | Trichloroethene | 0.365 | 0.386 | -5.8 | 121 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.349 | 0.341 | 2.3# | 103 | 0.00 |
| 46 | T | Dibromomethane | 0.265 | 0.271 | -2.3 | 108 | 0.00 |
| 47 | T | Bromodichloromethane | 0.552 | 0.524 | 5.1 | 103 | 0.00 |
| 48 | T | Methyl methacrylate | 0.429 | 0.397 | 7.5 | 98 | 0.00 |

Sample Results: **VX048723.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048723.D
Acq On : 05 Dec 2025 08:45
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 05 21:57:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 0.006 | 0.006 | 0.0 | 107 | 0.00 |
| 50 | S | Toluene-d8 | 1.207 | 1.162 | 3.7 | 102 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.530 | 0.560 | -5.7 | 107 | 0.00 |
| 52 | CM | Toluene | 0.843 | 0.866 | -2.7# | 103 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.526 | 0.534 | -1.5 | 103 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.565 | 0.645 | -14.2 | 115 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.339 | 0.340 | -0.3 | 104 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.531 | 0.559 | -5.3 | 103 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.564 | 0.558 | 1.1 | 102 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.287 | 0.325 | -13.2 | 109 | 0.00 |
| 59 | T | 2-Hexanone | 0.372 | 0.359 | 3.5 | 93 | 0.00 |
| 60 | T | Dibromochloromethane | 0.419 | 0.428 | -2.1 | 105 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.367 | 0.371 | -1.1 | 104 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.416 | 0.430 | -3.4 | 108 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 64 | T | Tetrachloroethene | 0.364 | 0.370 | -1.6 | 107 | 0.00 |
| 65 | PM | Chlorobenzene | 1.094 | 1.105 | -1.0 | 104 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.391 | 0.407 | -4.1 | 110 | 0.00 |
| 67 | C | Ethyl Benzene | 1.786 | 1.918 | -7.4# | 104 | 0.00 |
| 68 | T | m/p-Xylenes | 0.696 | 0.738 | -6.0 | 105 | 0.00 |
| 69 | T | o-Xylene | 0.652 | 0.764 | -17.2 | 115 | 0.00 |
| 70 | T | Styrene | 1.119 | 1.305 | -16.6 | 114 | 0.00 |
| 71 | P | Bromoform | 0.349 | 0.367 | -5.2 | 114 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 73 | T | Isopropylbenzene | 3.369 | 3.928 | -16.6 | 112 | 0.00 |
| 74 | T | N-amyl acetate | 1.464 | 1.858 | -26.9# | 111 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.137 | 1.262 | -11.0 | 111 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.931 | 1.052 | -13.0 | 114 | 0.00 |
| 77 | T | Bromobenzene | 0.899 | 0.976 | -8.6 | 115 | 0.00 |
| 78 | T | n-propylbenzene | 3.902 | 4.681 | -20.0 | 113 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.380 | 2.755 | -15.8 | 114 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.770 | 2.994 | -8.1 | 106 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.392 | 0.450 | -14.8 | 113 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.777 | 2.952 | -6.3 | 103 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.878 | 3.116 | -8.3 | 107 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.794 | 3.027 | -8.3 | 105 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.488 | 3.833 | -9.9 | 106 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.981 | 3.272 | -9.8 | 107 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.658 | 1.738 | -4.8 | 110 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.713 | 1.736 | -1.3 | 109 | 0.00 |
| 89 | T | n-Butylbenzene | 2.791 | 2.969 | -6.4 | 104 | 0.00 |
| 90 | T | Hexachloroethane | 0.608 | 0.616 | -1.3 | 108 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.607 | 1.646 | -2.4 | 108 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.277 | 0.261 | 5.8 | 101 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 1.062 | 1.122 | -5.6 | 117 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.439 | 0.467 | -6.4 | 123 | 0.00 |
| 95 | T | Naphthalene | 3.187 | 3.465 | -8.7 | 115 | 0.00 |

Sample Results: **VX048723.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048723.D
Acq On : 05 Dec 2025 08:45
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 05 21:57:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 0.979 | 1.034 | -5.6 | 116 | 0.00 |

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

Sample Results: **VX048723.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048723.D
Acq On : 05 Dec 2025 08:45
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 05 21:57:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 117 | -0.01 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 65.404 | -30.8# | 137 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 56.664 | -13.3 | 132 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 57.025 | -14.0# | 129 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 60.970 | -21.9 | 129 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 53.315 | -6.6 | 125 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 57.756 | -15.5 | 129 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 52.586 | -5.2 | 127 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 57.531 | -15.1 | 129 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 54.443 | -8.9 | 119 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 270.659 | -8.3 | 120 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 55.236 | -10.5# | 125 | 0.00 |
| 13 | T | Acrolein | 250.000 | 252.157 | -0.9 | 144 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 59.399 | -18.8 | 126 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 285.052 | -14.0 | 123 | 0.00 |
| 16 | T | Acetone | 250.000 | 224.979 | 10.0 | 110 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 55.345 | -10.7 | 123 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 57.109 | -14.2 | 124 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 55.825 | -11.7 | 124 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 52.553 | -5.1 | 122 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 54.468 | -8.9 | 121 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 59.164 | -18.3 | 161 | -0.01 |
| 23 | T | Vinyl Acetate | 250.000 | 309.410 | -23.8 | 161 | -0.01 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 57.605 | -15.2 | 151 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 264.615 | -5.8 | 139 | -0.01 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 56.387 | -12.8 | 143 | -0.01 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 54.165 | -8.3 | 135 | -0.01 |
| 28 | T | Bromochloromethane | 50.000 | 44.090 | 11.8 | 123 | -0.01 |
| 29 | T | Tetrahydrofuran | 250.000 | 220.633 | 11.7 | 121 | -0.01 |
| 30 | C | Chloroform | 50.000 | 47.817 | 4.4# | 124 | -0.01 |
| 31 | T | Cyclohexane | 50.000 | 48.816 | 2.4 | 130 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 49.117 | 1.8 | 123 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 43.830 | 12.3 | 119 | -0.01 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 115 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.958 | 0.1 | 119 | -0.01 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 49.146 | 1.7 | 122 | -0.01 |
| 37 | T | Ethyl Acetate | 50.000 | 55.770 | -11.5 | 134 | -0.01 |
| 38 | T | Carbon Tetrachloride | 50.000 | 51.612 | -3.2 | 120 | -0.01 |
| 39 | T | Methylcyclohexane | 50.000 | 54.284 | -8.6 | 109 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.512 | -1.0 | 123 | -0.01 |
| 41 | T | Methacrylonitrile | 50.000 | 50.012 | -0.0 | 122 | -0.02 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 47.481 | 5.0 | 120 | -0.01 |
| 43 | T | Isopropyl Acetate | 50.000 | 47.972 | 4.1 | 125 | -0.01 |
| 44 | TM | Trichloroethene | 50.000 | 52.904 | -5.8 | 121 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 48.816 | 2.4# | 103 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 51.127 | -2.3 | 108 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 47.467 | 5.1 | 103 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 46.271 | 7.5 | 98 | 0.00 |

Sample Results: **VX048723.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048723.D
Acq On : 05 Dec 2025 08:45
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 05 21:57:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 991.484 | 0.9 | 107 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 48.165 | 3.7 | 102 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 264.320 | -5.7 | 107 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.352 | -2.7# | 103 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 50.831 | -1.7 | 103 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 57.128 | -14.3 | 115 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 50.174 | -0.3 | 104 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 52.609 | -5.2 | 103 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 49.459 | 1.1 | 102 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 283.237 | -13.3 | 109 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 241.164 | 3.5 | 93 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 51.018 | -2.0 | 105 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 50.522 | -1.0 | 104 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 51.715 | -3.4 | 108 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 50.770 | -1.5 | 107 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.470 | -0.9 | 104 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 52.020 | -4.0 | 110 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 53.707 | -7.4# | 104 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 106.052 | -6.1 | 105 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 58.597 | -17.2 | 115 | 0.00 |
| 70 | T | Styrene | 50.000 | 58.297 | -16.6 | 114 | 0.00 |
| 71 | P | Bromoform | 50.000 | 52.533 | -5.1 | 114 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 58.295 | -16.6 | 112 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 63.447 | -26.9# | 111 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 55.522 | -11.0 | 111 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 56.476 | -13.0 | 114 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 54.271 | -8.5 | 115 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 59.976 | -20.0 | 113 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 57.891 | -15.8 | 114 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 54.057 | -8.1 | 106 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 57.364 | -14.7 | 113 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 53.145 | -6.3 | 103 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 54.139 | -8.3 | 107 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 54.171 | -8.3 | 105 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 54.950 | -9.9 | 106 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 54.884 | -9.8 | 107 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 52.411 | -4.8 | 110 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.678 | -1.4 | 109 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 53.176 | -6.4 | 104 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 50.636 | -1.3 | 108 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 51.188 | -2.4 | 108 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.079 | 5.8 | 101 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 52.838 | -5.7 | 117 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 53.159 | -6.3 | 123 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 56.310 | -12.6 | 115 | 0.00 |

Sample Results: **VX048723.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048723.D
Acq On : 05 Dec 2025 08:45
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 05 21:57:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 52.816 | -5.6 | 116 | 0.00 |

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

Raw Data: **VX048742.D**

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

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | JACO05 |
| Lab Code: | ACE | SDG No.: | Q3757 |
| Instrument ID: | MSVOA_X | Calibration Date/Time: | 12/08/2025 09:20 |
| Lab File ID: | VX048742.D | Init. Calib. Date(s): | 12/04/2025 12/04/2025 |
| Heated Purge: (Y/N) | N | Init. Calib. Time(s): | 08:47 10:38 |

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Vinyl Chloride | 0.685 | 0.671 | | -2.04 | 20 |
| 1,1-Dichloroethene | 0.581 | 0.547 | | -5.85 | 20 |
| 1,1-Dichloroethane | 1.016 | 1.086 | 0.1 | 6.89 | 20 |
| cis-1,2-Dichloroethene | 0.669 | 0.701 | | 4.78 | 20 |
| 1,1,1-Trichloroethane | 0.975 | 0.976 | | 0.1 | 20 |
| Benzene | 1.398 | 1.441 | | 3.08 | 20 |
| 1,2-Dichloroethane | 0.495 | 0.558 | | 12.73 | 20 |
| Trichloroethene | 0.365 | 0.370 | | 1.37 | 20 |
| 1,1,2-Trichloroethane | 0.339 | 0.389 | | 14.75 | 20 |
| Tetrachloroethene | 0.364 | 0.345 | | -5.22 | 20 |
| 1,2-Dichloroethane-d4 | 0.671 | 0.665 | | -0.89 | 20 |
| Dibromofluoromethane | 0.344 | 0.346 | | 0.58 | 20 |
| Toluene-d8 | 1.207 | 1.218 | | 0.91 | 20 |
| 4-Bromofluorobenzene | 0.416 | 0.450 | | 8.17 | 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_X\Data\VX120825\
Data File : VX048742.D
Acq On : 08 Dec 2025 09:20
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 04:05:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/09/2025
Supervised By :Mahesh Dadoda 12/09/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.531 | 168 | 174813 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.739 | 114 | 271670 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 259893 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.000 | 152 | 132353 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.934 | 65 | 116232 | 49.538 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = 99.080% | | | |
| 35) Dibromofluoromethane | 5.361 | 113 | 93905 | 50.202 | ug/l | -0.01 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 100.400% | | | |
| 50) Toluene-d8 | 8.628 | 98 | 330988 | 50.480 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = 100.960% | | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 122254 | 54.070 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = 108.140% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.172 | 85 | 109463 | 61.456 | ug/l | 98 |
| 3) Chloromethane | 1.300 | 50 | 112158 | 49.901 | ug/l | 99 |
| 4) Vinyl Chloride | 1.380 | 62 | 117239 | 48.978 | ug/l | 97 |
| 5) Bromomethane | 1.611 | 94 | 79697 | 53.876 | ug/l | 97 |
| 6) Chloroethane | 1.691 | 64 | 70486 | 47.313 | ug/l | 96 |
| 7) Trichlorofluoromethane | 1.892 | 101 | 168328 | 49.064 | ug/l | 95 |
| 8) Diethyl Ether | 2.130 | 74 | 68655 | 50.137 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 2.331 | 101 | 96741 | 48.641 | ug/l | 99 |
| 10) Methyl Iodide | 2.453 | 142 | 142606 | 50.365 | ug/l | 98 |
| 11) Tert butyl alcohol | 2.934 | 59 | 104607 | 276.145 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.319 | 96 | 95593 | 47.091 | ug/l | 98 |
| 13) Acrolein | 2.233 | 56 | 122007 | 320.155 | ug/l | 100 |
| 14) Allyl chloride | 2.660 | 41 | 182879 | 53.660 | ug/l | 96 |
| 15) Acrylonitrile | 3.050 | 53 | 323941 | 274.443 | ug/l | 99 |
| 16) Acetone | 2.367 | 43 | 266788 | 297.020 | ug/l | 97 |
| 17) Carbon Disulfide | 2.514 | 76 | 276616 | 46.924 | ug/l | 99 |
| 18) Methyl Acetate | 2.690 | 43 | 147186 | 58.240 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 3.099 | 73 | 346867 | 52.505 | ug/l | 98 |
| 20) Methylene Chloride | 2.782 | 84 | 106567 | 47.466 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 96842 | 46.743 | ug/l | 97 |
| 22) Diisopropyl ether | 3.745 | 45 | 361202 | 56.708 | ug/l | 97 |
| 23) Vinyl Acetate | 3.702 | 43 | 1644500 | 307.270 | ug/l | 97 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 189815 | 53.440 | ug/l | 99 |
| 25) 2-Butanone | 4.525 | 43 | 409699 | 309.048 | ug/l | 95 |
| 26) 2,2-Dichloropropane | 4.452 | 77 | 163755 | 52.104 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 4.471 | 96 | 122467 | 52.383 | ug/l | 94 |
| 28) Bromochloromethane | 4.879 | 49 | 84093 | 48.303 | ug/l | 89 |
| 29) Tetrahydrofuran | 4.971 | 42 | 292738 | 289.193 | ug/l | 96 |
| 30) Chloroform | 5.068 | 83 | 201485 | 52.941 | ug/l | 100 |
| 31) Cyclohexane | 5.452 | 56 | 152479 | 48.082 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 5.361 | 97 | 170606 | 50.030 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 5.672 | 75 | 129381 | 50.500 | ug/l | 99 |
| 37) Ethyl Acetate | 4.684 | 43 | 200103 | 65.365 | ug/l | 97 |
| 38) Carbon Tetrachloride | 5.659 | 117 | 151224 | 52.111 | ug/l | 93 |
| 39) Methylcyclohexane | 7.360 | 83 | 159338 | 52.596 | ug/l | 99 |
| 40) Benzene | 6.013 | 78 | 391521 | 51.550 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048742.D
Acq On : 08 Dec 2025 09:20
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 04:05:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/09/2025
Supervised By :Mahesh Dadoda 12/09/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.891 | 41 | 87479 | 62.805 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 6.062 | 62 | 151479 | 56.351 | ug/l | | 96 |
| 43) Isopropyl Acetate | 6.312 | 43 | 269086 | 58.049 | ug/l | | 96 |
| 44) Trichloroethene | 7.104 | 130 | 100636 | 50.782 | ug/l | | 93 |
| 45) 1,2-Dichloropropane | 7.409 | 63 | 103675 | 54.615 | ug/l | | 97 |
| 46) Dibromomethane | 7.562 | 93 | 81979 | 56.948 | ug/l | | 100 |
| 47) Bromodichloromethane | 7.799 | 83 | 161338 | 53.756 | ug/l | | 100 |
| 48) Methyl methacrylate | 7.671 | 41 | 129988 | 55.745 | ug/l | | 98 |
| 49) 1,4-Dioxane | 7.641 | 88 | 41910 | 1306.826 | ug/l | | 93 |
| 51) 4-Methyl-2-Pentanone | 8.549 | 43 | 839339 | 291.714 | ug/l | | 99 |
| 52) Toluene | 8.702 | 92 | 259442 | 56.649 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.958 | 75 | 166878 | 58.445 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.348 | 75 | 176260 | 57.439 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 9.134 | 97 | 105645 | 57.331 | ug/l | | 100 |
| 56) Ethyl methacrylate | 9.098 | 69 | 176042 | 61.034 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 9.287 | 76 | 173763 | 56.709 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.220 | 63 | 502570 | 322.382 | ug/l | | 99 |
| 59) 2-Hexanone | 9.409 | 43 | 605996 | 300.030 | ug/l | | 99 |
| 60) Dibromochloromethane | 9.500 | 129 | 132496 | 58.148 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.592 | 107 | 115535 | 57.930 | ug/l | | 100 |
| 64) Tetrachloroethene | 9.256 | 164 | 89617 | 47.307 | ug/l | | 97 |
| 65) Chlorobenzene | 10.061 | 112 | 287596 | 50.555 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.140 | 131 | 103746 | 50.988 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.177 | 91 | 476354 | 51.315 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.281 | 106 | 368936 | 102.029 | ug/l | | 98 |
| 69) o-Xylene | 10.622 | 106 | 180357 | 53.228 | ug/l | | 98 |
| 70) Styrene | 10.634 | 104 | 312915 | 53.795 | ug/l | | 99 |
| 71) Bromoform | 10.780 | 173 | 97762 | 53.817 | ug/l | | 99 |
| 73) Isopropylbenzene | 10.945 | 105 | 456673 | 51.202 | ug/l | | 99 |
| 74) N-amyl acetate | 10.823 | 43 | 218050 | 56.266 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 11.195 | 83 | 161398 | 53.631 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.219 | 75 | 132368m | 53.696 | ug/l | | |
| 77) Bromobenzene | 11.177 | 156 | 122590 | 51.496 | ug/l | | 96 |
| 78) n-propylbenzene | 11.286 | 91 | 530512 | 51.357 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 11.347 | 91 | 320717 | 50.915 | ug/l | | 97 |
| 80) 1,3,5-Trimethylbenzene | 11.433 | 105 | 379802 | 51.805 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.000 | 75 | 58364 | 56.240 | ug/l | # | 54 |
| 82) 4-Chlorotoluene | 11.433 | 91 | 380068 | 51.705 | ug/l | | 98 |
| 83) tert-Butylbenzene | 11.695 | 119 | 387442 | 50.861 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.732 | 105 | 386338 | 52.241 | ug/l | | 98 |
| 85) sec-Butylbenzene | 11.872 | 105 | 471593 | 51.082 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 11.988 | 119 | 409455 | 51.886 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.951 | 146 | 224294 | 51.109 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 12.018 | 146 | 227243 | 50.109 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.311 | 91 | 368851 | 49.922 | ug/l | | 99 |
| 90) Hexachloroethane | 12.518 | 117 | 77355 | 48.028 | ug/l | | 96 |
| 91) 1,2-Dichlorobenzene | 12.317 | 146 | 216556 | 50.899 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.920 | 75 | 37796 | 51.605 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.567 | 180 | 144749 | 51.512 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.707 | 225 | 55748 | 47.962 | ug/l | | 96 |
| 95) Naphthalene | 13.756 | 128 | 458027 | 56.250 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.938 | 180 | 140730 | 54.305 | ug/l | | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048742.D
Acq On : 08 Dec 2025 09:20
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 04:05:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/09/2025
Supervised By :Mahesh Dadoda 12/09/2025

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

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

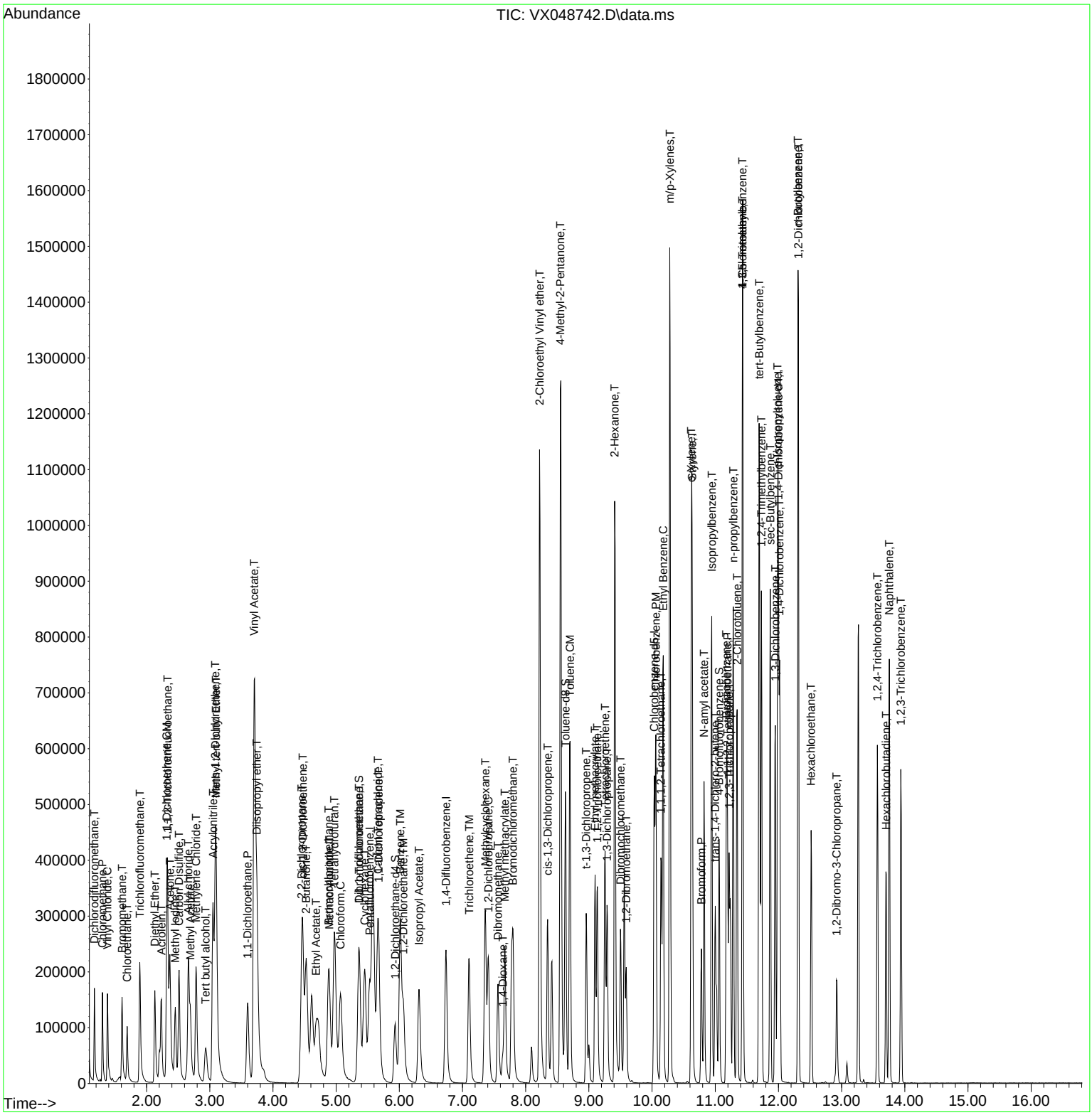
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048742.D
Acq On : 08 Dec 2025 09:20
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 04:05:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/09/2025
Supervised By :Mahesh Dadoda 12/09/2025



Evaluate Continuing Calibration Report

Sample Results: **VX048742.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048742.D
Acq On : 08 Dec 2025 09:20
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 09 04:05:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 94 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.509 | 0.626 | -23.0 | 103 | 0.00 |
| 3 | P | Chloromethane | 0.643 | 0.642 | 0.2 | 93 | 0.00 |
| 4 | C | Vinyl Chloride | 0.685 | 0.671 | 2.0# | 89 | 0.00 |
| 5 | T | Bromomethane | 0.423 | 0.456 | -7.8 | 91 | 0.00 |
| 6 | T | Chloroethane | 0.426 | 0.403 | 5.4 | 89 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.981 | 0.963 | 1.8 | 87 | 0.00 |
| 8 | T | Diethyl Ether | 0.392 | 0.393 | -0.3 | 97 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.569 | 0.553 | 2.8 | 87 | 0.00 |
| 10 | T | Methyl Iodide | 0.810 | 0.816 | -0.7 | 88 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.108 | 0.120 | -11.1 | 98 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.581 | 0.547 | 5.9# | 85 | 0.00 |
| 13 | T | Acrolein | 0.091 | 0.140 | -53.8# | 153# | 0.00 |
| 14 | T | Allyl chloride | 0.975 | 1.046 | -7.3 | 91 | 0.00 |
| 15 | T | Acrylonitrile | 0.338 | 0.371 | -9.8 | 95 | 0.00 |
| 16 | T | Acetone | 0.257 | 0.305 | -18.7 | 116 | 0.00 |
| 17 | T | Carbon Disulfide | 1.686 | 1.582 | 6.2 | 84 | 0.00 |
| 18 | T | Methyl Acetate | 0.723 | 0.842 | -16.5 | 101 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.890 | 1.984 | -5.0 | 93 | 0.00 |
| 20 | T | Methylene Chloride | 0.642 | 0.610 | 5.0 | 88 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.593 | 0.554 | 6.6 | 83 | 0.00 |
| 22 | T | Diisopropyl ether | 1.822 | 2.066 | -13.4 | 124 | 0.00 |
| 23 | T | Vinyl Acetate | 1.531 | 1.881 | -22.9 | 128 | -0.01 |
| 24 | P | 1,1-Dichloroethane | 1.016 | 1.086 | -6.9 | 112 | 0.00 |
| 25 | T | 2-Butanone | 0.379 | 0.469 | -23.7 | 130 | -0.01 |
| 26 | T | 2,2-Dichloropropane | 0.899 | 0.937 | -4.2 | 106 | -0.02 |
| 27 | T | cis-1,2-Dichloroethene | 0.669 | 0.701 | -4.8 | 104 | -0.01 |
| 28 | T | Bromochloromethane | 0.498 | 0.481 | 3.4 | 108 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.290 | 0.335 | -15.5 | 127 | -0.01 |
| 30 | C | Chloroform | 1.089 | 1.153 | -5.9# | 110 | -0.01 |
| 31 | T | Cyclohexane | 0.907 | 0.872 | 3.9 | 103 | -0.01 |
| 32 | T | 1,1,1-Trichloroethane | 0.975 | 0.976 | -0.1 | 100 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.671 | 0.665 | 0.9 | 108 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.344 | 0.346 | -0.6 | 97 | -0.01 |
| 36 | T | 1,1-Dichloropropene | 0.472 | 0.476 | -0.8 | 102 | -0.01 |
| 37 | T | Ethyl Acetate | 0.563 | 0.737 | -30.9# | 128 | -0.01 |
| 38 | T | Carbon Tetrachloride | 0.534 | 0.557 | -4.3 | 99 | 0.00 |
| 39 | T | Methylcyclohexane | 0.558 | 0.587 | -5.2 | 86 | 0.00 |
| 40 | TM | Benzene | 1.398 | 1.441 | -3.1 | 102 | -0.01 |
| 41 | T | Methacrylonitrile | 0.256 | 0.322 | -25.8# | 125 | -0.01 |
| 42 | TM | 1,2-Dichloroethane | 0.495 | 0.558 | -12.7 | 116 | -0.01 |
| 43 | T | Isopropyl Acetate | 0.853 | 0.990 | -16.1 | 123 | -0.01 |
| 44 | TM | Trichloroethene | 0.365 | 0.370 | -1.4 | 95 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.349 | 0.382 | -9.5# | 94 | 0.00 |
| 46 | T | Dibromomethane | 0.265 | 0.302 | -14.0 | 98 | 0.00 |
| 47 | T | Bromodichloromethane | 0.552 | 0.594 | -7.6 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 0.429 | 0.478 | -11.4 | 97 | 0.00 |

Sample Results: **VX048742.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048742.D
Acq On : 08 Dec 2025 09:20
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 09 04:05:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 0.006 | 0.008 | -33.3# | 115 | 0.00 |
| 50 | S | Toluene-d8 | 1.207 | 1.218 | -0.9 | 87 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.530 | 0.618 | -16.6 | 96 | 0.00 |
| 52 | CM | Toluene | 0.843 | 0.955 | -13.3# | 93 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.526 | 0.614 | -16.7 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.565 | 0.649 | -14.9 | 95 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.339 | 0.389 | -14.7 | 97 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.531 | 0.648 | -22.0 | 97 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.564 | 0.640 | -13.5 | 96 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.287 | 0.370 | -28.9# | 101 | 0.00 |
| 59 | T | 2-Hexanone | 0.372 | 0.446 | -19.9 | 95 | 0.00 |
| 60 | T | Dibromochloromethane | 0.419 | 0.488 | -16.5 | 98 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.367 | 0.425 | -15.8 | 97 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.416 | 0.450 | -8.2 | 92 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 64 | T | Tetrachloroethene | 0.364 | 0.345 | 5.2 | 91 | 0.00 |
| 65 | PM | Chlorobenzene | 1.094 | 1.107 | -1.2 | 95 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.391 | 0.399 | -2.0 | 98 | 0.00 |
| 67 | C | Ethyl Benzene | 1.786 | 1.833 | -2.6# | 90 | 0.00 |
| 68 | T | m/p-Xylenes | 0.696 | 0.710 | -2.0 | 92 | 0.00 |
| 69 | T | o-Xylene | 0.652 | 0.694 | -6.4 | 95 | 0.00 |
| 70 | T | Styrene | 1.119 | 1.204 | -7.6 | 96 | 0.00 |
| 71 | P | Bromoform | 0.349 | 0.376 | -7.7 | 107 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 73 | T | Isopropylbenzene | 3.369 | 3.450 | -2.4 | 92 | 0.00 |
| 74 | T | N-amyl acetate | 1.464 | 1.647 | -12.5 | 92 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.137 | 1.219 | -7.2 | 100 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.931 | 1.000 | -7.4 | 101 | 0.00 |
| 77 | T | Bromobenzene | 0.899 | 0.926 | -3.0 | 101 | 0.00 |
| 78 | T | n-propylbenzene | 3.902 | 4.008 | -2.7 | 90 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.380 | 2.423 | -1.8 | 93 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.770 | 2.870 | -3.6 | 94 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.392 | 0.441 | -12.5 | 103 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.777 | 2.872 | -3.4 | 93 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.878 | 2.927 | -1.7 | 94 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.794 | 2.919 | -4.5 | 95 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.488 | 3.563 | -2.2 | 92 | 0.00 |
| 86 | T | p-Isopropyltoluene | 2.981 | 3.094 | -3.8 | 94 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.658 | 1.695 | -2.2 | 100 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.713 | 1.717 | -0.2 | 100 | 0.00 |
| 89 | T | n-Butylbenzene | 2.791 | 2.787 | 0.1 | 91 | 0.00 |
| 90 | T | Hexachloroethane | 0.608 | 0.584 | 3.9 | 95 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.607 | 1.636 | -1.8 | 100 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.277 | 0.286 | -3.2 | 103 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 1.062 | 1.094 | -3.0 | 106 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.439 | 0.421 | 4.1 | 104 | 0.00 |
| 95 | T | Naphthalene | 3.187 | 3.461 | -8.6 | 107 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048742.D
Acq On : 08 Dec 2025 09:20
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 09 04:05:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 0.979 | 1.063 | -8.6 | 111 | 0.00 |

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

Sample Results: **VX048742.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048742.D
Acq On : 08 Dec 2025 09:20
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 09 04:05:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 94 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 61.456 | -22.9 | 103 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 49.901 | 0.2 | 93 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 48.978 | 2.0# | 89 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 53.876 | -7.8 | 91 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 47.313 | 5.4 | 89 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 49.064 | 1.9 | 87 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 50.137 | -0.3 | 97 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 48.641 | 2.7 | 87 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 50.365 | -0.7 | 88 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 276.145 | -10.5 | 98 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 47.091 | 5.8# | 85 | 0.00 |
| 13 | T | Acrolein | 250.000 | 320.155 | -28.1# | 153 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 53.660 | -7.3 | 91 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 274.443 | -9.8 | 95 | 0.00 |
| 16 | T | Acetone | 250.000 | 297.020 | -18.8 | 116 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 46.924 | 6.2 | 84 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 58.240 | -16.5 | 101 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 52.505 | -5.0 | 93 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 47.466 | 5.1 | 88 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 46.743 | 6.5 | 83 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 56.708 | -13.4 | 124 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 307.270 | -22.9 | 128 | -0.01 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 53.440 | -6.9 | 112 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 309.048 | -23.6 | 130 | -0.01 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 52.104 | -4.2 | 106 | -0.02 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 52.383 | -4.8 | 104 | -0.01 |
| 28 | T | Bromochloromethane | 50.000 | 48.303 | 3.4 | 108 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 289.193 | -15.7 | 127 | -0.01 |
| 30 | C | Chloroform | 50.000 | 52.941 | -5.9# | 110 | -0.01 |
| 31 | T | Cyclohexane | 50.000 | 48.082 | 3.8 | 103 | -0.01 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 50.030 | -0.1 | 100 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.538 | 0.9 | 108 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 94 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 50.202 | -0.4 | 97 | -0.01 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 50.500 | -1.0 | 102 | -0.01 |
| 37 | T | Ethyl Acetate | 50.000 | 65.365 | -30.7# | 128 | -0.01 |
| 38 | T | Carbon Tetrachloride | 50.000 | 52.111 | -4.2 | 99 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 52.596 | -5.2 | 86 | 0.00 |
| 40 | TM | Benzene | 50.000 | 51.550 | -3.1 | 102 | -0.01 |
| 41 | T | Methacrylonitrile | 50.000 | 62.805 | -25.6# | 125 | -0.01 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 56.351 | -12.7 | 116 | -0.01 |
| 43 | T | Isopropyl Acetate | 50.000 | 58.049 | -16.1 | 123 | -0.01 |
| 44 | TM | Trichloroethene | 50.000 | 50.782 | -1.6 | 95 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 54.615 | -9.2# | 94 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 56.948 | -13.9 | 98 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 53.756 | -7.5 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 55.745 | -11.5 | 97 | 0.00 |

Sample Results: **VX048742.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048742.D
Acq On : 08 Dec 2025 09:20
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 09 04:05:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 1306.826 | -30.7# | 115 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 50.480 | -1.0 | 87 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 291.714 | -16.7 | 96 | 0.00 |
| 52 | CM | Toluene | 50.000 | 56.649 | -13.3# | 93 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 58.445 | -16.9 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 57.439 | -14.9 | 95 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 57.331 | -14.7 | 97 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 61.034 | -22.1 | 97 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 56.709 | -13.4 | 96 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 322.382 | -29.0# | 101 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 300.030 | -20.0 | 95 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 58.148 | -16.3 | 98 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 57.930 | -15.9 | 97 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 54.070 | -8.1 | 92 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 93 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 47.307 | 5.4 | 91 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.555 | -1.1 | 95 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 50.988 | -2.0 | 98 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 51.315 | -2.6# | 90 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 102.029 | -2.0 | 92 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 53.228 | -6.5 | 95 | 0.00 |
| 70 | T | Styrene | 50.000 | 53.795 | -7.6 | 96 | 0.00 |
| 71 | P | Bromoform | 50.000 | 53.817 | -7.6 | 107 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 97 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 51.202 | -2.4 | 92 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 56.266 | -12.5 | 92 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 53.631 | -7.3 | 100 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 53.696 | -7.4 | 101 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 51.496 | -3.0 | 101 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 51.357 | -2.7 | 90 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 50.915 | -1.8 | 93 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.805 | -3.6 | 94 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 56.240 | -12.5 | 103 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 51.705 | -3.4 | 93 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 50.861 | -1.7 | 94 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 52.241 | -4.5 | 95 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.082 | -2.2 | 92 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 51.886 | -3.8 | 94 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 51.109 | -2.2 | 100 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.109 | -0.2 | 100 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 49.922 | 0.2 | 91 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 48.028 | 3.9 | 95 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 50.899 | -1.8 | 100 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.605 | -3.2 | 103 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 51.512 | -3.0 | 106 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 47.962 | 4.1 | 104 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 56.250 | -12.5 | 107 | 0.00 |

Sample Results: **VX048742.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048742.D
Acq On : 08 Dec 2025 09:20
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 09 04:05:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 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 | 54.305 | -8.6 | 111 | 0.00 |

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

# QC SAMPLE DATA

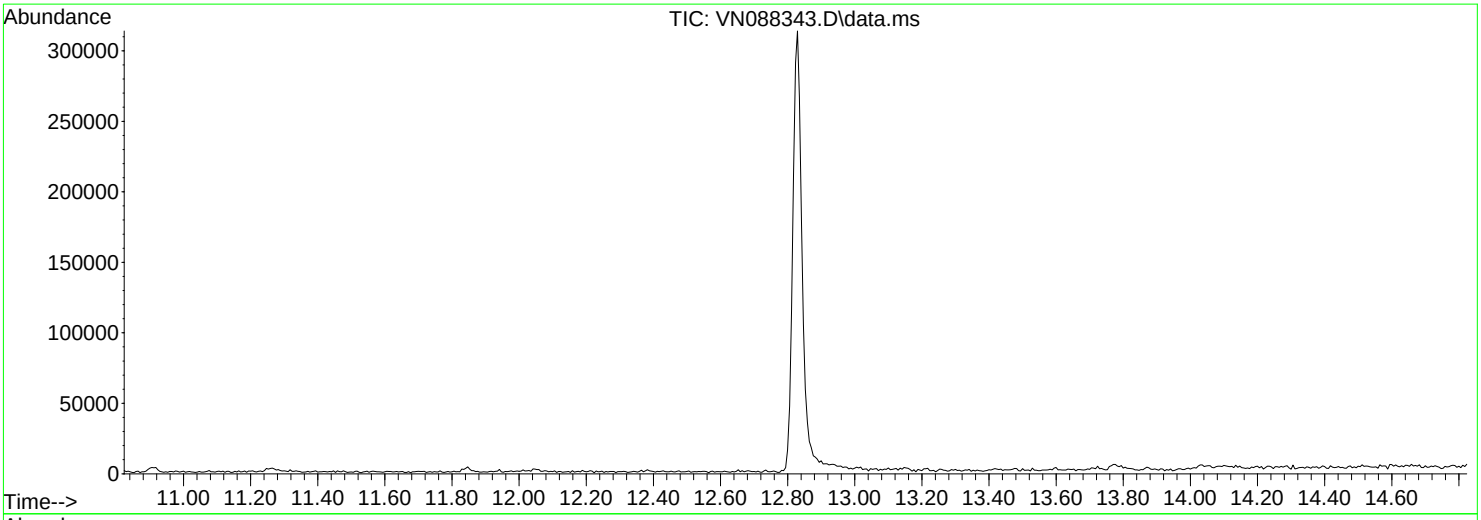
Sample Results: **VN088343.D**

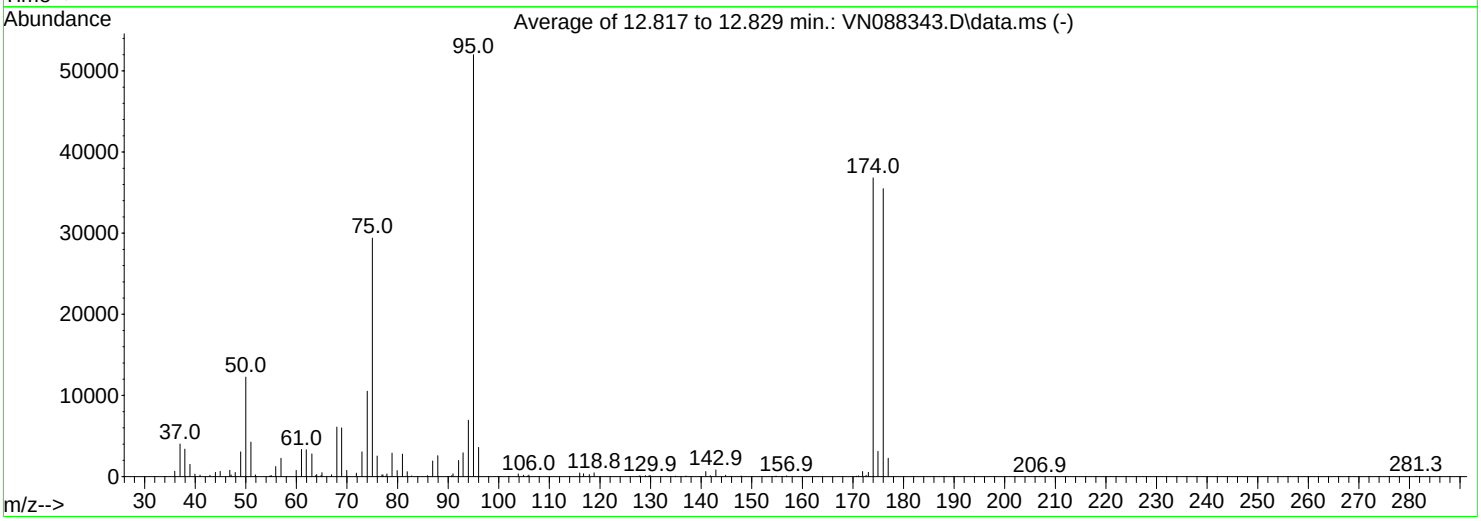
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088343.D
Acq On : 24 Nov 2025 08:17
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Title : SW846 8260
Last Update : Tue Nov 25 01:34:52 2025




AutoFind: Scans 1847, 1848, 1849; Background Corrected with Scan 1839

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 23.6 | 12249 | PASS |
| 75 | 95 | 30 | 60 | 56.6 | 29403 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 51987 | PASS |
| 96 | 95 | 5 | 9 | 6.9 | 3605 | PASS |
| 173 | 174 | 0.00 | 2 | 1.4 | 523 | PASS |
| 174 | 95 | 50 | 100 | 70.8 | 36808 | PASS |
| 175 | 174 | 5 | 9 | 8.4 | 3099 | PASS |
| 176 | 174 | 95 | 101 | 96.4 | 35493 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 2260 | PASS |

Average of 12.817 to 12.829 min.: VN088343.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 35.95 | 660 | 47.90 | 508 | 61.95 | 3309 | 72.95 | 3051 |
| 37.00 | 4014 | 49.00 | 3039 | 63.05 | 2784 | 74.00 | 10530 |
| 37.95 | 3391 | 50.00 | 12249 | 63.80 | 113 | 75.00 | 29405 |
| 38.95 | 1502 | 51.00 | 4245 | 64.00 | 255 | 75.95 | 2535 |
| 39.95 | 311 | 51.90 | 213 | 64.90 | 158 | 76.90 | 202 |
| 40.95 | 180 | 54.80 | 110 | 65.05 | 474 | 77.10 | 198 |
| 42.90 | 161 | 55.10 | 103 | 66.95 | 229 | 77.70 | 63 |
| 44.00 | 531 | 55.90 | 1233 | 68.00 | 6110 | 77.90 | 320 |
| 44.95 | 637 | 56.95 | 2258 | 68.95 | 5997 | 78.90 | 2897 |
| 46.85 | 771 | 59.95 | 755 | 69.95 | 751 | 79.90 | 742 |
| 47.10 | 213 | 61.00 | 3348 | 71.85 | 421 | 80.95 | 2778 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
BFB

Average of 12.817 to 12.829 min.: VN088343.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 81.90 | 605 | 96.00 | 3605 | 129.70 | 84 | 156.90 | 87 |
| 82.80 | 89 | 103.85 | 320 | 129.90 | 147 | 170.70 | 51 |
| 85.90 | 119 | 104.90 | 161 | 134.90 | 52 | 171.10 | 82 |
| 86.95 | 1933 | 105.70 | 75 | 137.00 | 60 | 171.90 | 617 |
| 87.95 | 2571 | 105.95 | 190 | 140.90 | 629 | 172.60 | 144 |
| 90.70 | 103 | 116.00 | 445 | 141.80 | 113 | 173.05 | 523 |
| 90.95 | 348 | 116.75 | 347 | 142.90 | 817 | 174.00 | 36808 |
| 92.05 | 1981 | 117.90 | 250 | 144.85 | 179 | 174.95 | 3099 |
| 92.95 | 2935 | 118.85 | 465 | 145.90 | 56 | 176.00 | 35493 |
| 94.00 | 6957 | 127.90 | 108 | 147.90 | 68 | 176.95 | 2260 |
| 95.00 | 51987 | 129.00 | 114 | 154.80 | 69 | 206.95 | 15 |

Average of 12.817 to 12.829 min.: VN088343.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 281.30 | 53 | | | | | | |

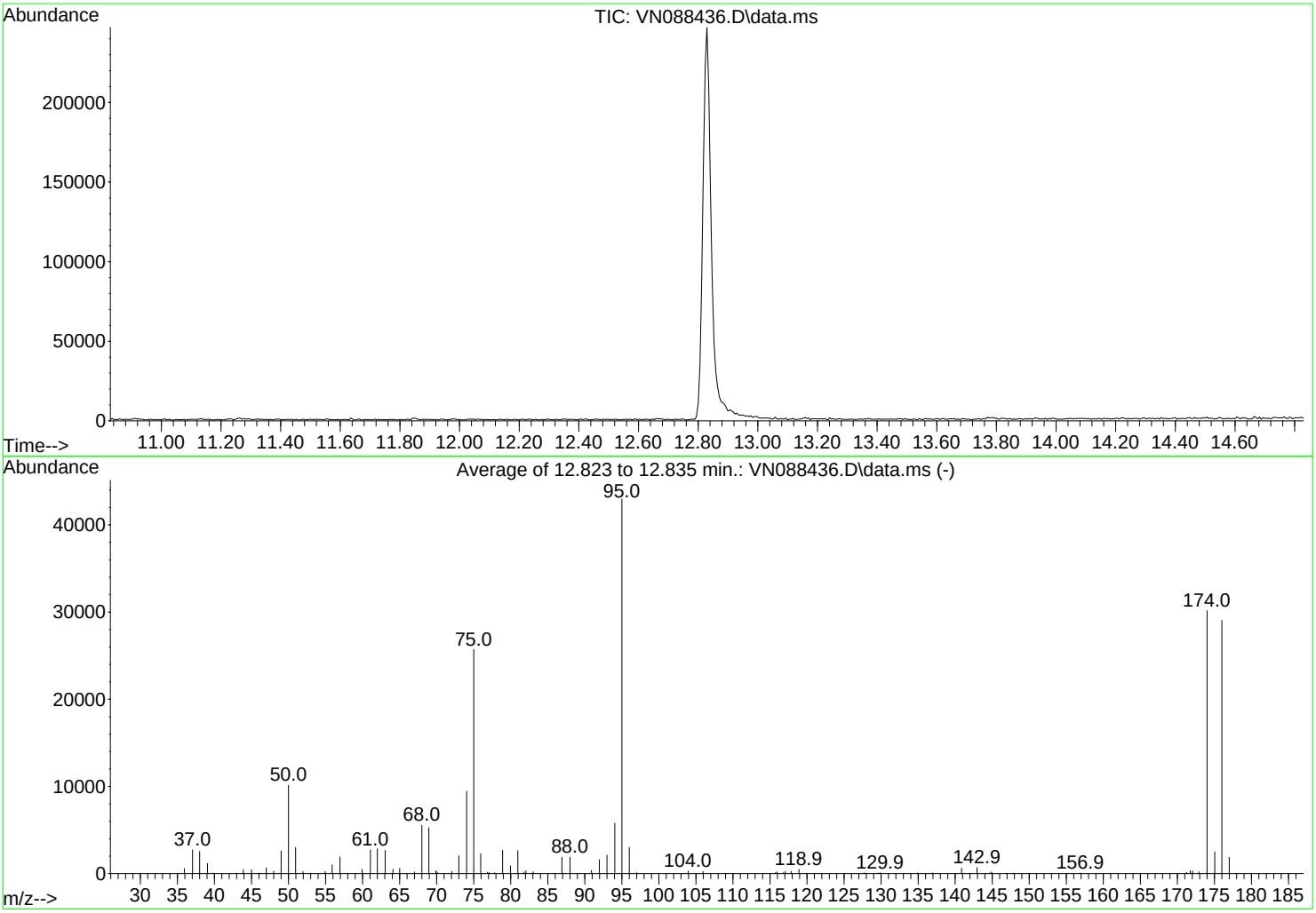
Sample Results: **VN088436.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088436.D
Acq On : 04 Dec 2025 11:03
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Title : SW846 8260
Last Update : Tue Nov 25 01:34:52 2025




AutoFind: Scans 1848, 1849, 1850; Background Corrected with Scan 1839

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 23.6 | 10147 | PASS |
| 75 | 95 | 30 | 60 | 59.8 | 25707 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 42976 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 3020 | PASS |
| 173 | 174 | 0.00 | 2 | 0.7 | 221 | PASS |
| 174 | 95 | 50 | 100 | 70.2 | 30165 | PASS |
| 175 | 174 | 5 | 9 | 8.3 | 2492 | PASS |
| 176 | 174 | 95 | 101 | 96.3 | 29056 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 1867 | PASS |

Average of 12.823 to 12.835 min.: VN088436.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 35.95 | 584 | 48.00 | 287 | 62.00 | 2852 | 74.05 | 943 |
| 37.05 | 2726 | 49.00 | 2602 | 63.05 | 2665 | 75.00 | 2570 |
| 38.00 | 2546 | 50.00 | 10147 | 64.10 | 494 | 75.95 | 228 |
| 39.05 | 1160 | 50.95 | 2998 | 65.00 | 605 | 76.85 | 17 |
| 39.85 | 81 | 51.95 | 228 | 67.00 | 181 | 77.10 | 110 |
| 42.90 | 65 | 53.00 | 65 | 68.00 | 5547 | 77.80 | 94 |
| 43.90 | 456 | 54.95 | 241 | 68.95 | 5266 | 78.90 | 2668 |
| 45.00 | 436 | 55.90 | 989 | 69.90 | 333 | 79.95 | 879 |
| 46.00 | 52 | 56.95 | 1910 | 70.10 | 186 | 80.95 | 2648 |
| 46.20 | 51 | 59.95 | 491 | 72.05 | 264 | 81.80 | 181 |
| 47.00 | 668 | 61.05 | 2720 | 73.00 | 2047 | 82.05 | 329 |

**Instrument :**
MSVOA_N
**ClientSampleId :**
BFB

Average of 12.823 to 12.835 min.: VN088436.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 82.80 | 60 | 97.00 | 99 | 129.60 | 63 | 156.90 | 69 |
| 83.05 | 210 | 103.95 | 288 | 129.90 | 95 | 171.25 | 133 |
| 85.80 | 57 | 105.95 | 255 | 134.90 | 84 | 171.75 | 339 |
| 86.90 | 1861 | 115.70 | 111 | 136.90 | 80 | 172.05 | 316 |
| 88.00 | 1886 | 115.95 | 198 | 140.85 | 619 | 172.90 | 221 |
| 90.90 | 359 | 116.80 | 99 | 141.90 | 54 | 174.00 | 30165 |
| 91.95 | 1605 | 117.05 | 260 | 142.95 | 686 | 175.05 | 2492 |
| 93.00 | 2116 | 117.85 | 283 | 144.70 | 81 | 176.00 | 29056 |
| 94.05 | 5785 | 118.90 | 482 | 144.90 | 199 | 177.00 | 1867 |
| 95.00 | 42976 | 127.70 | 81 | 146.90 | 53 | | |
| 96.00 | 3020 | 128.00 | 53 | 147.90 | 63 | | |

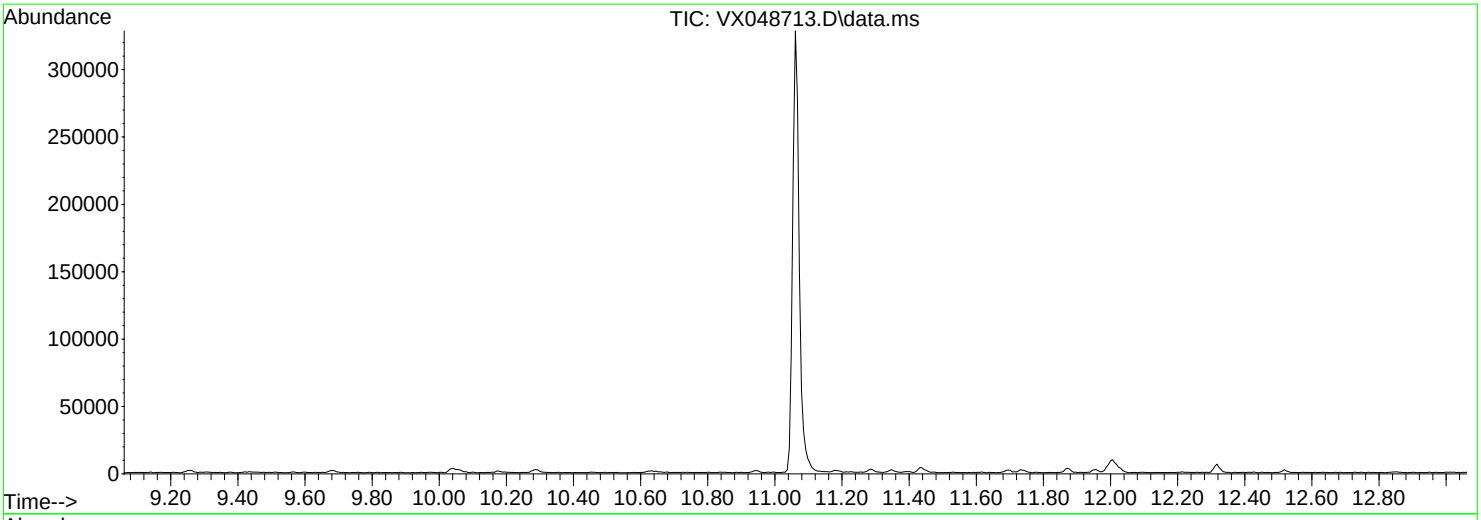
Sample Results: **VX048713.D**

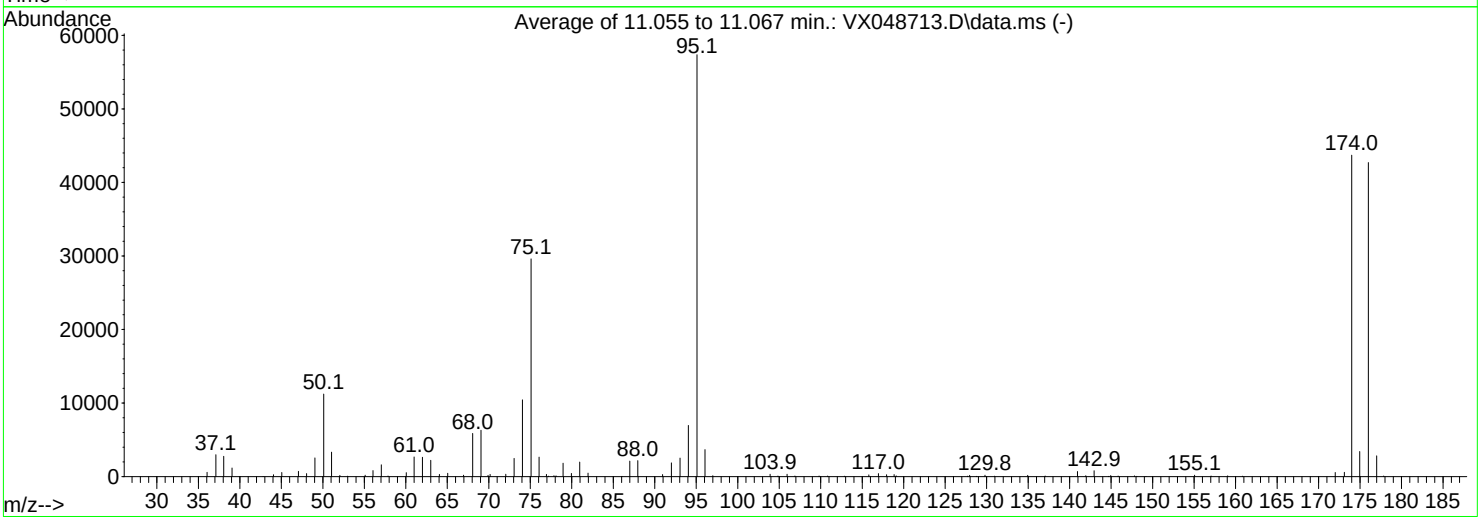
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048713.D
Acq On : 04 Dec 2025 08:15
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Title : SW846 8260
Last Update : Fri Dec 05 03:27:34 2025




AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1628

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 19.6 | 11214 | PASS |
| 75 | 95 | 30 | 60 | 51.6 | 29608 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 57360 | PASS |
| 96 | 95 | 5 | 9 | 6.4 | 3677 | PASS |
| 173 | 174 | 0.00 | 2 | 1.3 | 568 | PASS |
| 174 | 95 | 50 | 100 | 76.2 | 43696 | PASS |
| 175 | 174 | 5 | 9 | 7.8 | 3397 | PASS |
| 176 | 174 | 95 | 101 | 97.7 | 42696 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 2825 | PASS |

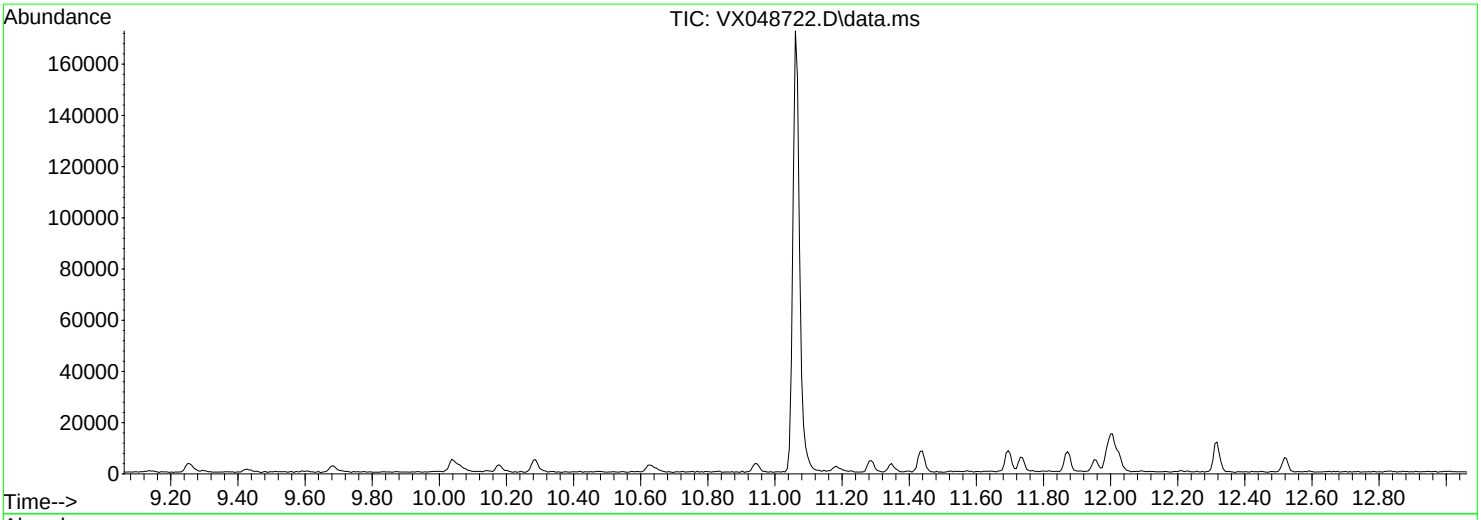
Sample Results: **VX048722.D**

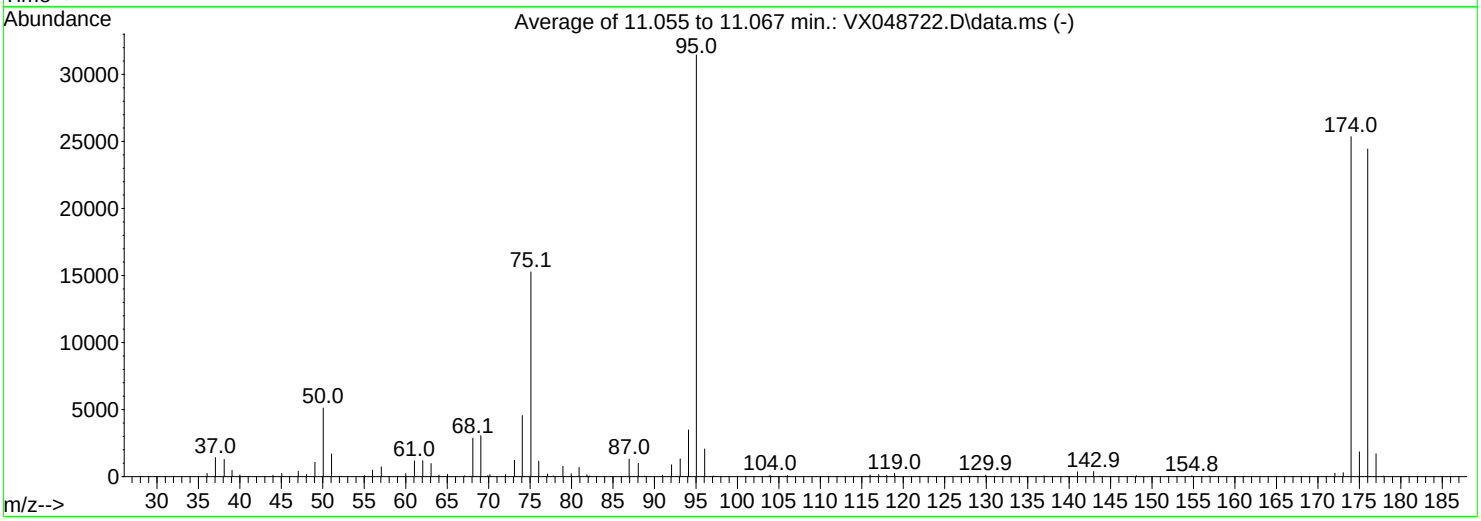
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048722.D
Acq On : 05 Dec 2025 08:14
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Title : SW846 8260
Last Update : Fri Dec 05 03:27:34 2025




AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1629

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 16.3 | 5123 | PASS |
| 75 | 95 | 30 | 60 | 48.5 | 15274 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 31461 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 2062 | PASS |
| 173 | 174 | 0.00 | 2 | 1.2 | 294 | PASS |
| 174 | 95 | 50 | 100 | 80.6 | 25363 | PASS |
| 175 | 174 | 5 | 9 | 7.3 | 1854 | PASS |
| 176 | 174 | 95 | 101 | 96.4 | 24445 | PASS |
| 177 | 176 | 5 | 9 | 7.0 | 1707 | PASS |

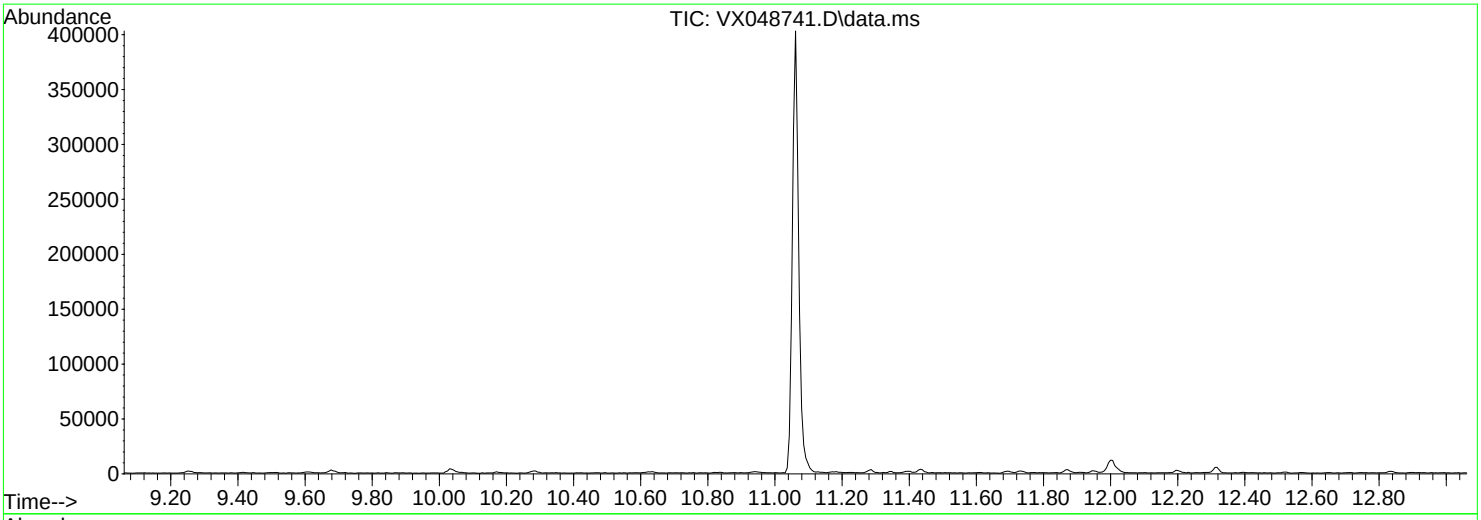
Sample Results: **VX048741.D**

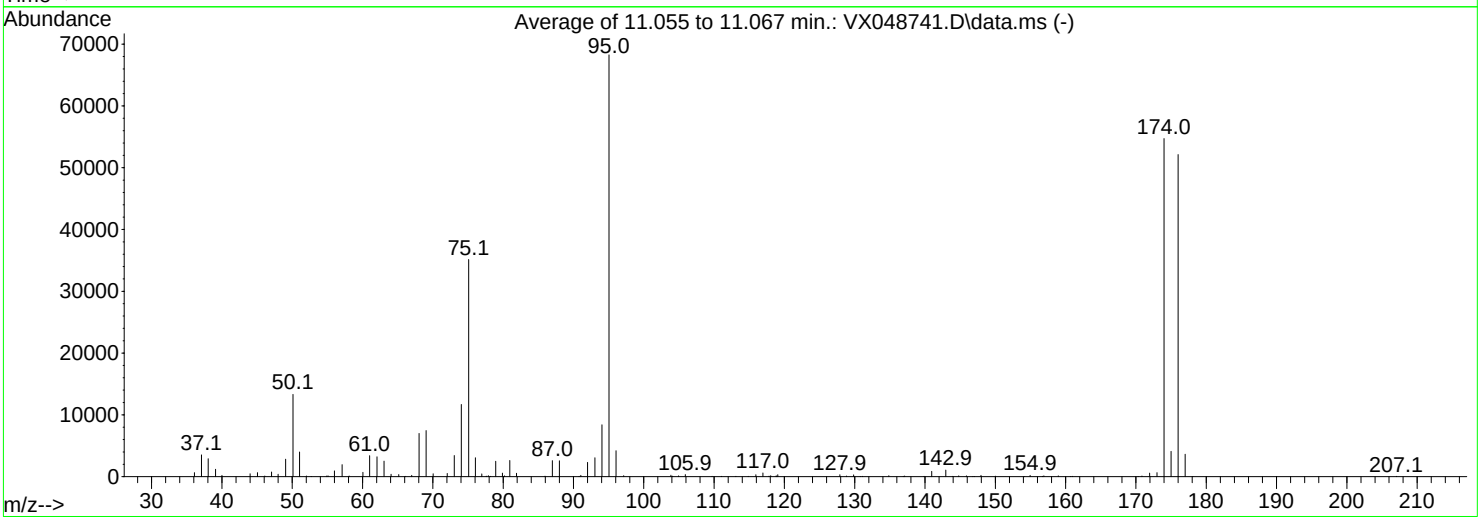
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048741.D
Acq On : 08 Dec 2025 08:17
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Title : SW846 8260
Last Update : Fri Dec 05 03:27:34 2025




AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1629

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 19.5 | 13323 | PASS |
| 75 | 95 | 30 | 60 | 51.5 | 35152 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 68272 | PASS |
| 96 | 95 | 5 | 9 | 6.2 | 4205 | PASS |
| 173 | 174 | 0.00 | 2 | 1.2 | 656 | PASS |
| 174 | 95 | 50 | 100 | 80.1 | 54717 | PASS |
| 175 | 174 | 5 | 9 | 7.5 | 4103 | PASS |
| 176 | 174 | 95 | 101 | 95.3 | 52133 | PASS |
| 177 | 176 | 5 | 9 | 7.0 | 3634 | PASS |

Raw Data: **VN088439.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | |
| Client Sample ID: | VN1204WBL01 | SDG No.: | Q3757 |
| Lab Sample ID: | VN1204WBL01 | Matrix: | Water |
| Analytical Method: | 8260D Level: LOW | % Solid: | 0 |
| Sample Wt/Vol: | 5 mL Final Vol: 5000 uL | Test: | VOCMS Group3 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 1 | 0.26 | 1.00 | ug/L | 12/04/25 12:38 | VN120425 |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/04/25 12:38 | VN120425 |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/04/25 12:38 | VN120425 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 1 | 0.19 | 1.00 | ug/L | 12/04/25 12:38 | VN120425 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1 | 0.20 | 1.00 | ug/L | 12/04/25 12:38 | VN120425 |
| 71-43-2 | Benzene | 0.15 | U | 1 | 0.15 | 1.00 | ug/L | 12/04/25 12:38 | VN120425 |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 1 | 0.22 | 1.00 | ug/L | 12/04/25 12:38 | VN120425 |
| 79-01-6 | Trichloroethene | 0.090 | U | 1 | 0.090 | 1.00 | ug/L | 12/04/25 12:38 | VN120425 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 1 | 0.21 | 1.00 | ug/L | 12/04/25 12:38 | VN120425 |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/04/25 12:38 | VN120425 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 61.7 | | | 70 (74) - 130 (125) | 123% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 50.8 | | | 70 (75) - 130 (124) | 102% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 46.7 | | | 70 (86) - 130 (113) | 93% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 49.9 | | | 70 (77) - 130 (121) | 100% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 237000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 557000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 556000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 258000 | | | | | | | |

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_N\Data\VN120425\
Data File : VN088439.D
Acq On : 04 Dec 2025 12:38
Operator : JC\MD
Sample : VN1204WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1204WBL01

Quant Time: Dec 05 00:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 236600 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.082 | 114 | 556948 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.841 | 117 | 555675 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 258091 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.559 | 65 | 275126 | 61.728 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 123.460% | | | |
| 35) Dibromofluoromethane | 8.147 | 113 | 196090 | 50.805 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 101.620% | | | |
| 50) Toluene-d8 | 10.541 | 98 | 670134 | 46.664 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 93.320% | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 246023 | 49.929 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 99.860% | | | |
| Target Compounds | | | | | | Qvalue |

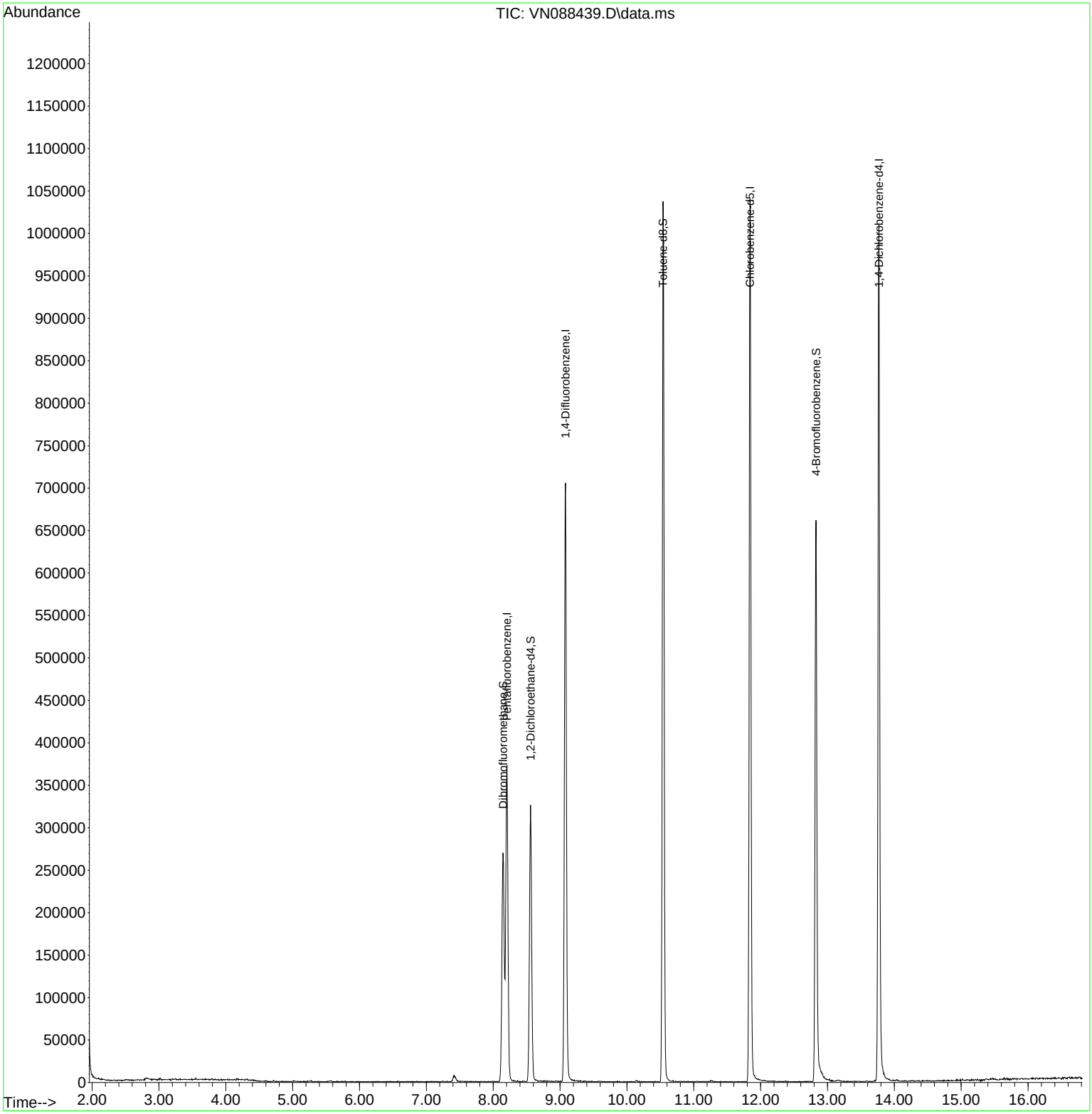
(#) = qualifier out of range (m) = manual integration (+) = signals summed

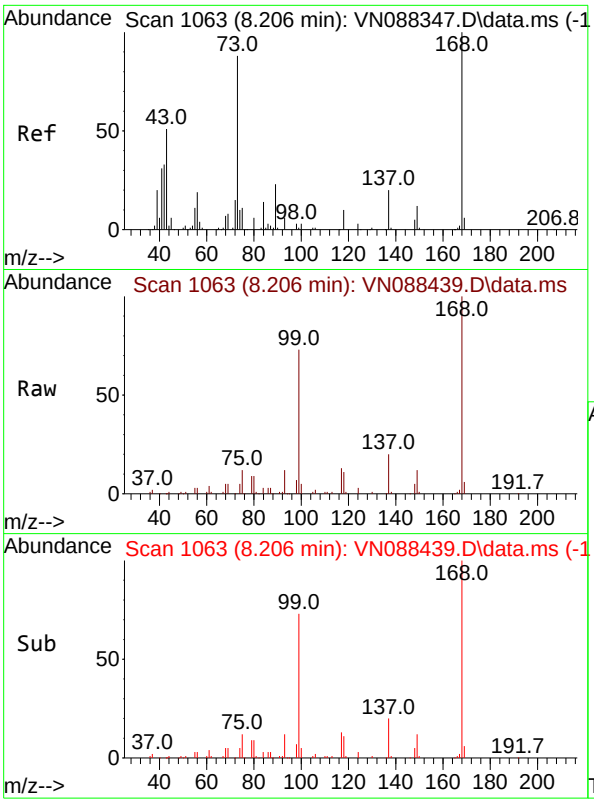
Sample Results: **VN088439.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088439.D
Acq On : 04 Dec 2025 12:38
Operator : JC\MD
Sample : VN1204WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1204WBL01

Quant Time: Dec 05 00:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



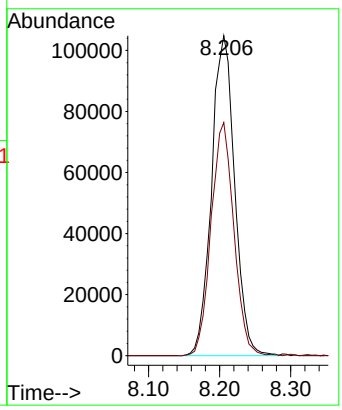


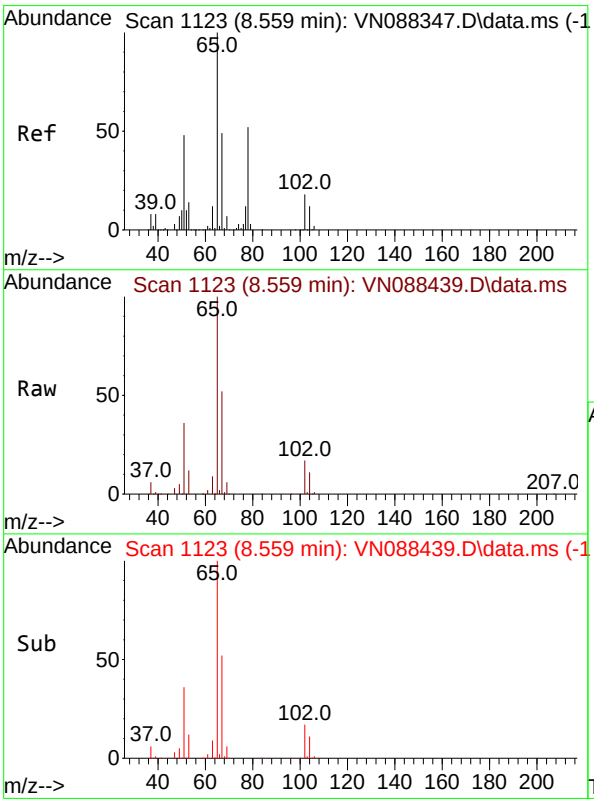

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1204WBL01

Tgt Ion:168 Resp: 236600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 72.9 | 57.1 | 85.7 |

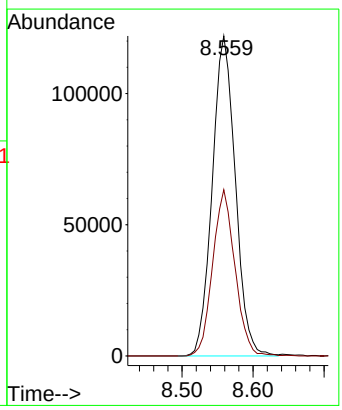


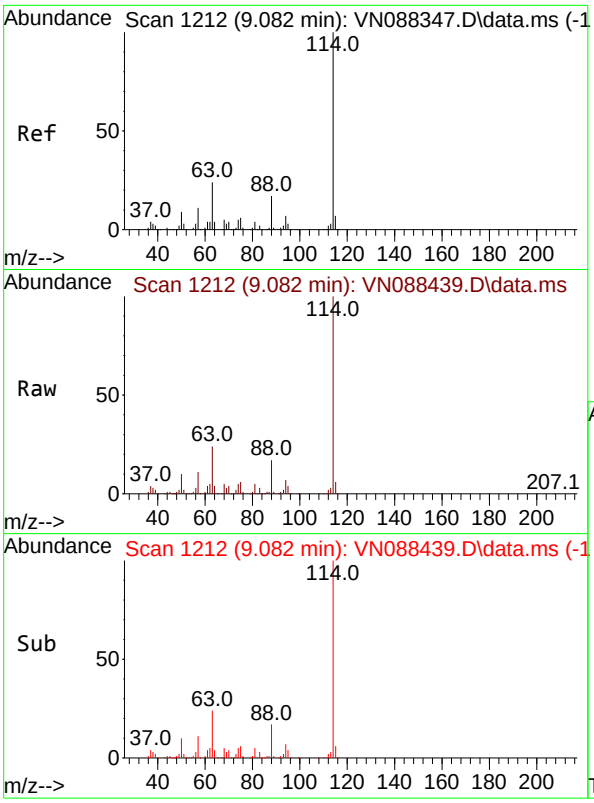




#33
1,2-Dichloroethane-d4
Concen: 61.728 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Tgt Ion: 65 Resp: 275126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.2 | 0.0 | 100.8 |



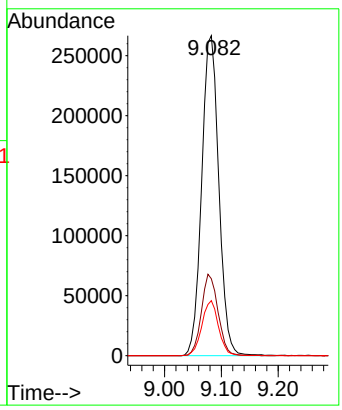


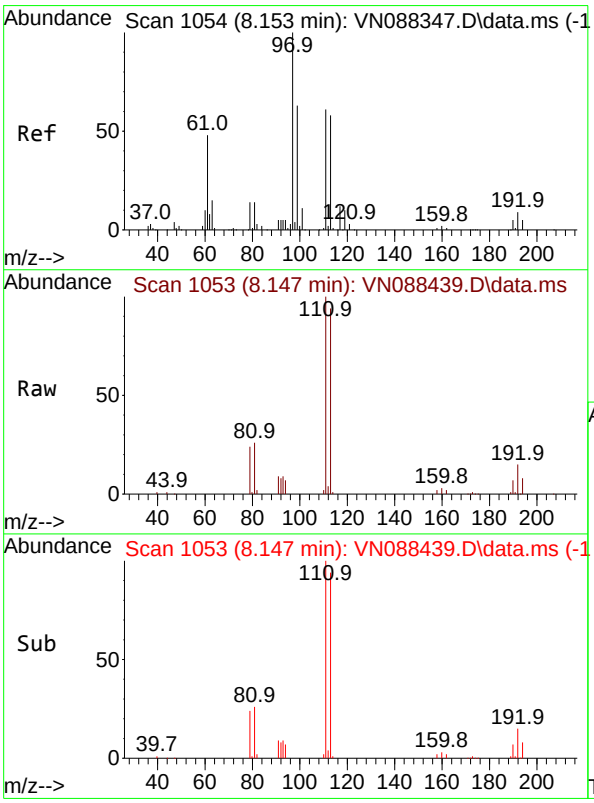

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1204WBL01

Tgt Ion:114 Resp: 556948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 24.1 | 0.0 | 49.0 |
| 88 | 17.2 | 0.0 | 34.0 |

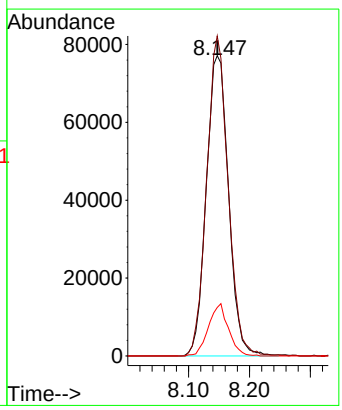


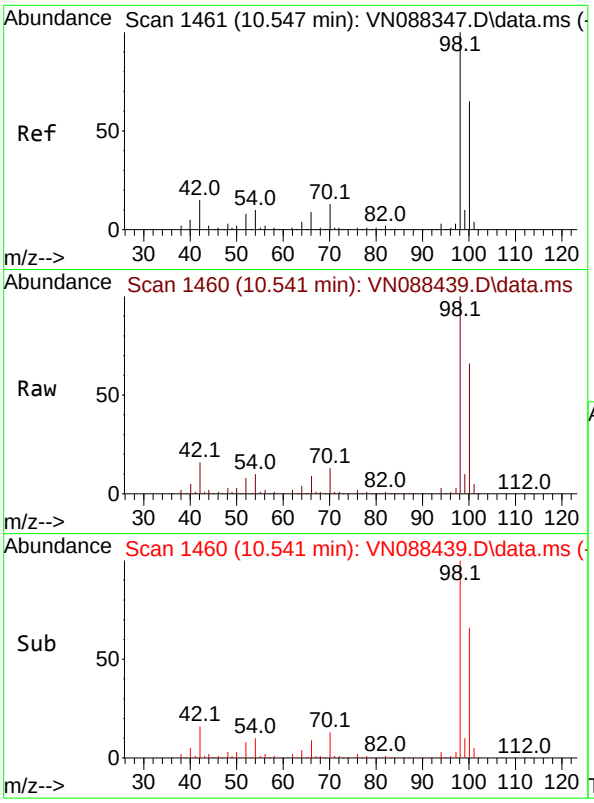




#35
Dibromofluoromethane
Concen: 50.805 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Tgt Ion:113 Resp: 196090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.2 | 82.5 | 123.7 |
| 192 | 15.6 | 12.8 | 19.2 |



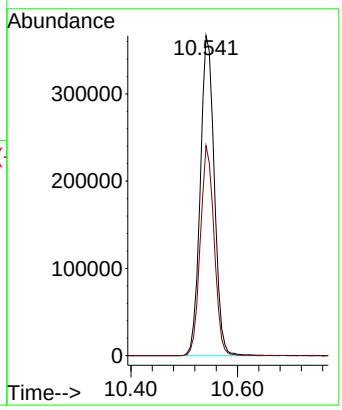


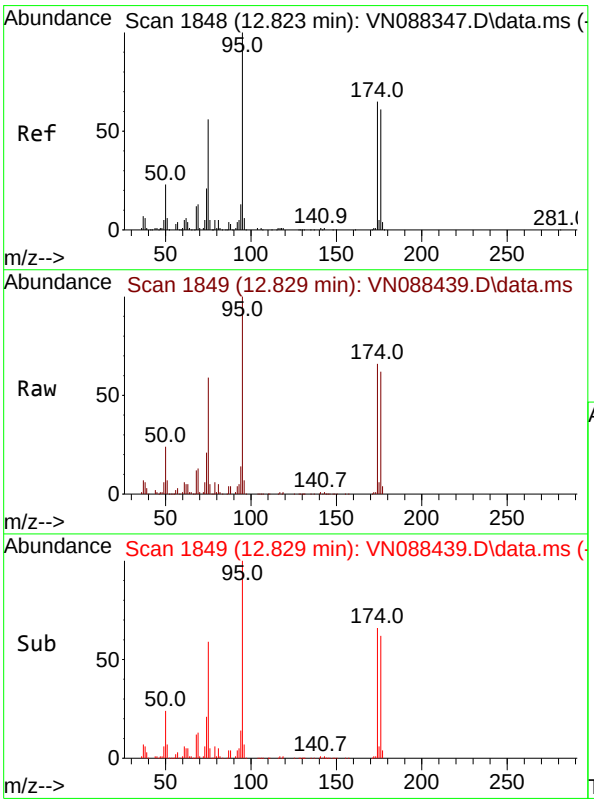

#50
Toluene-d8
Concen: 46.664 ug/l
RT: 10.541 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1204WBL01

Tgt Ion: 98 Resp: 670134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.4 | 52.2 | 78.2 |

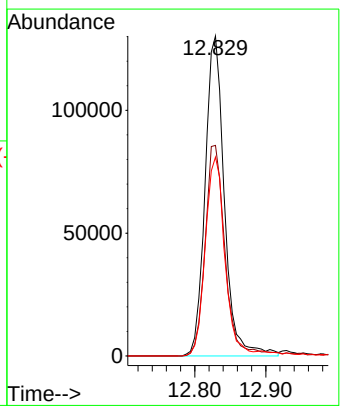


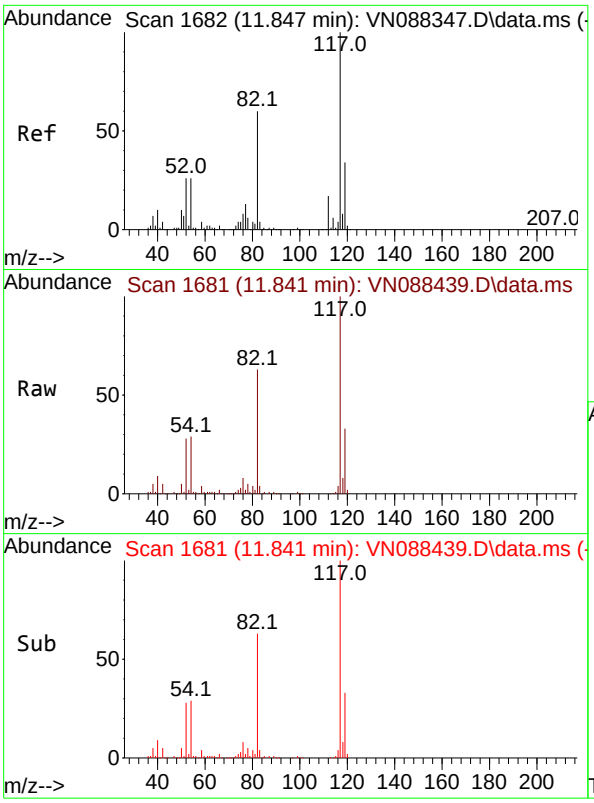




#62
4-Bromofluorobenzene
Concen: 49.929 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Tgt Ion: 95 Resp: 246023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 68.9 | 0.0 | 139.0 |
| 176 | 62.6 | 0.0 | 132.4 |



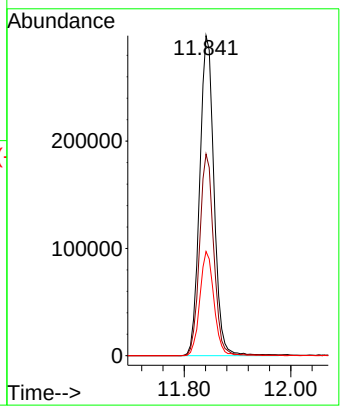


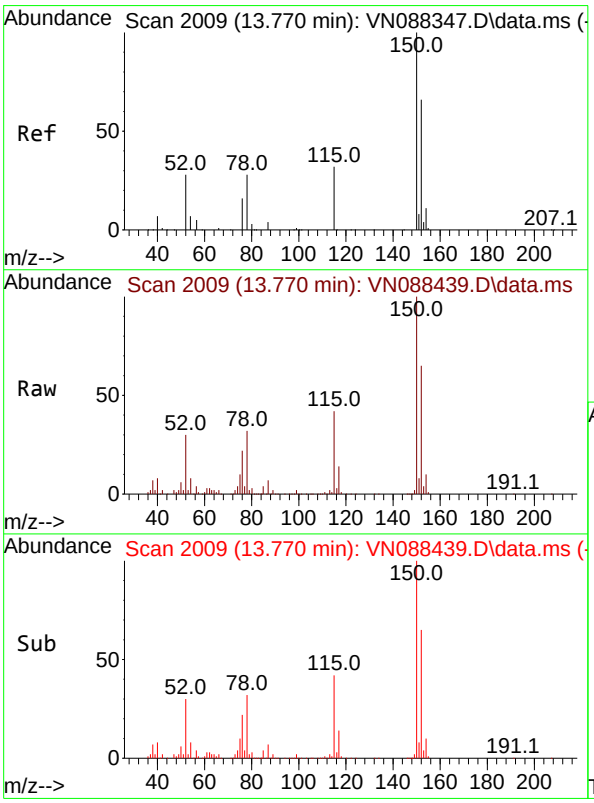

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1204WBL01

Tgt Ion:117 Resp: 555675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 63.0 | 47.8 | 71.8 |
| 119 | 32.6 | 26.9 | 40.3 |

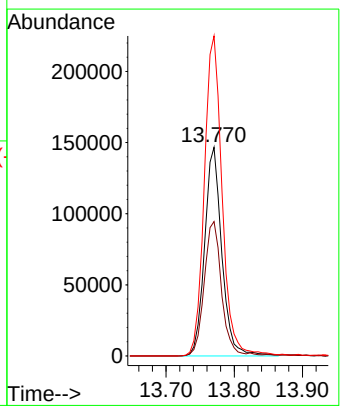



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. -0.000 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Tgt Ion:152 Resp: 258091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.9 | 33.0 | 98.9 |
| 150 | 158.8 | 0.0 | 349.0 |



Raw Data: **VX048725.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | |
| Client Sample ID: | VX1205WBL01 | SDG No.: | Q3757 |
| Lab Sample ID: | VX1205WBL01 | Matrix: | Water |
| Analytical Method: | 8260D Level: LOW | % Solid: | 0 |
| Sample Wt/Vol: | 5 mL Final Vol: 5000 uL | Test: | VOCMS Group3 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 1 | 0.26 | 1.00 | ug/L | 12/05/25 10:34 | VX120525 |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/05/25 10:34 | VX120525 |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/05/25 10:34 | VX120525 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 1 | 0.19 | 1.00 | ug/L | 12/05/25 10:34 | VX120525 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1 | 0.20 | 1.00 | ug/L | 12/05/25 10:34 | VX120525 |
| 71-43-2 | Benzene | 0.15 | U | 1 | 0.15 | 1.00 | ug/L | 12/05/25 10:34 | VX120525 |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 1 | 0.22 | 1.00 | ug/L | 12/05/25 10:34 | VX120525 |
| 79-01-6 | Trichloroethene | 0.090 | U | 1 | 0.090 | 1.00 | ug/L | 12/05/25 10:34 | VX120525 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 1 | 0.21 | 1.00 | ug/L | 12/05/25 10:34 | VX120525 |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/05/25 10:34 | VX120525 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.6 | | | 70 (74) - 130 (125) | 101% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 49.7 | | | 70 (75) - 130 (124) | 99% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 50.8 | | | 70 (86) - 130 (113) | 102% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 60.5 | | | 70 (77) - 130 (121) | 121% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 193000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 291000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 294000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 131000 | | | | | | | |

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_X\Data\VX120525\
Data File : VX048725.D
Acq On : 05 Dec 2025 10:34
Operator : JC/MD
Sample : VX1205WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1205WBL01

Quant Time: Dec 05 21:59:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.532 | 168 | 193187 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.739 | 114 | 291151 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 294164 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152 | 130501 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.928 | 65 | 131204 | 50.601 | ug/l | -0.01 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = 101.200% | | | |
| 35) Dibromofluoromethane | 5.367 | 113 | 99604 | 49.686 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 99.380% | | | |
| 50) Toluene-d8 | 8.629 | 98 | 356802 | 50.775 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = 101.560% | | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 146671 | 60.529 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = 121.060% | | | |

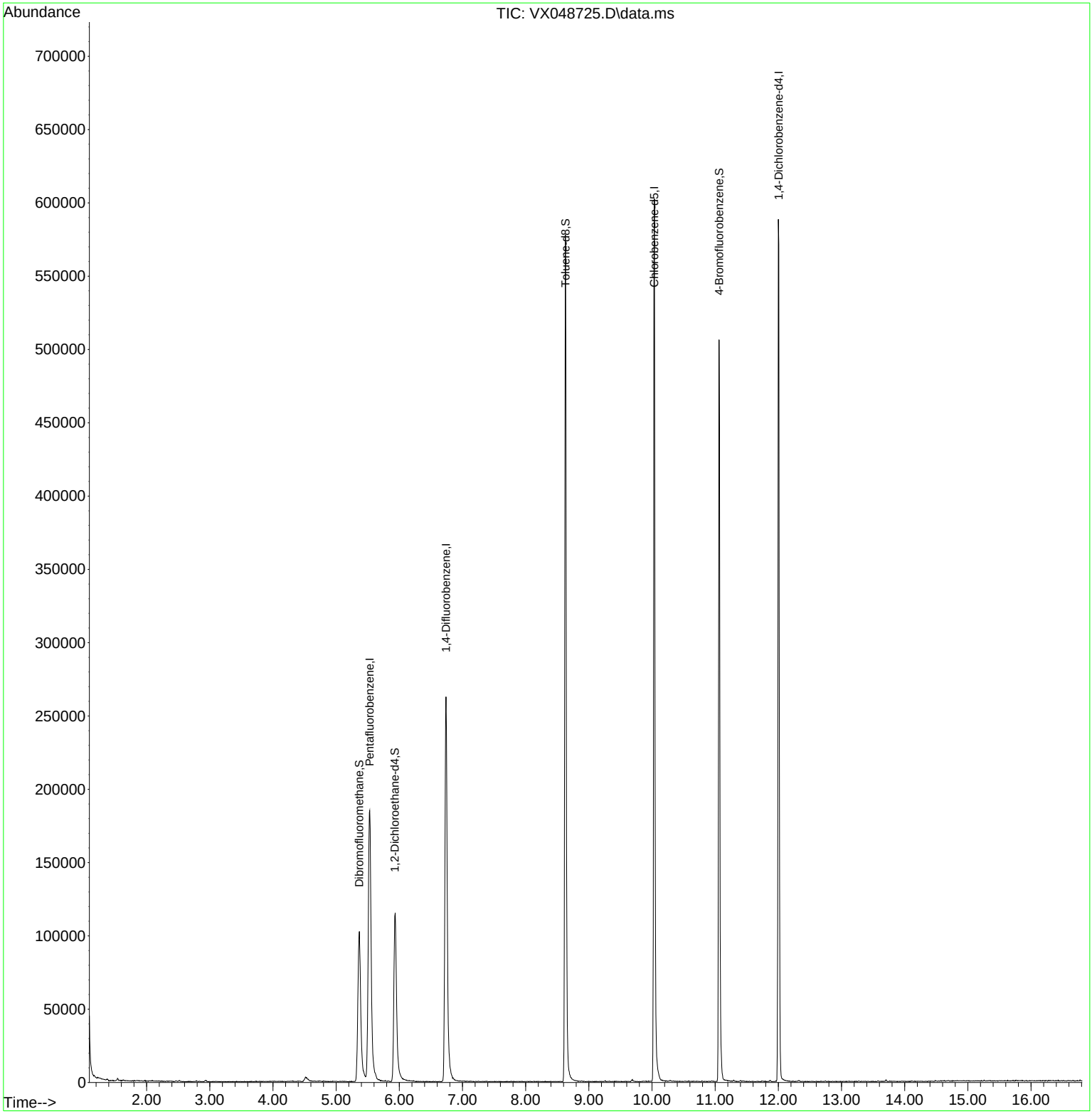
Target Compounds Qvalue

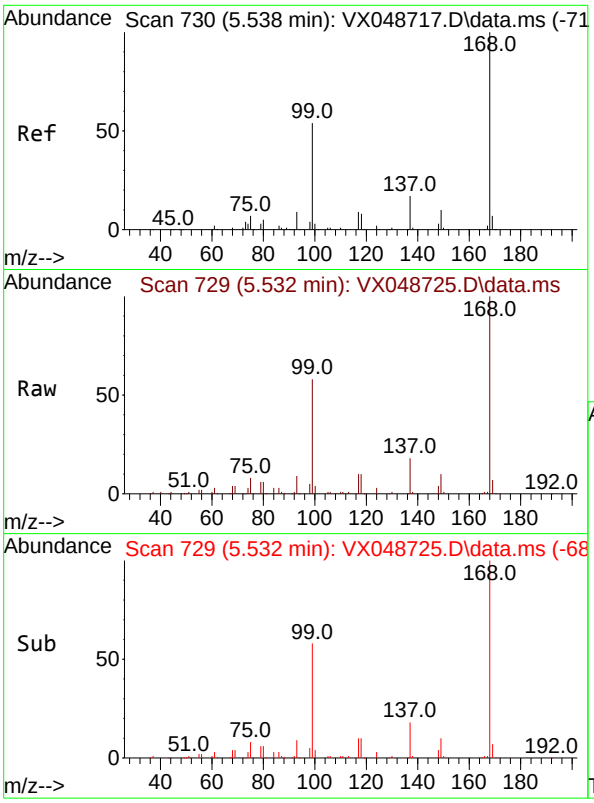
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048725.D
Acq On : 05 Dec 2025 10:34
Operator : JC/MD
Sample : VX1205WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1205WBL01

Quant Time: Dec 05 21:59:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration



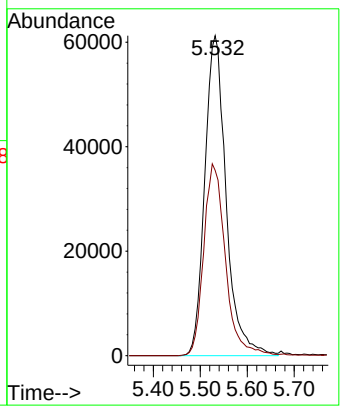


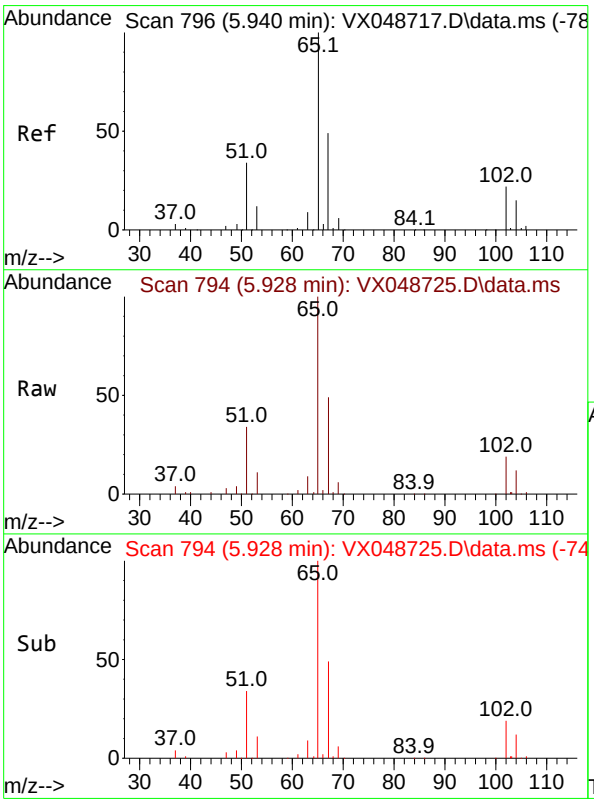

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX048725.D
Acq: 05 Dec 2025 10:34

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1205WBL01

Tgt Ion:168 Resp: 193187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.9 | 44.2 | 66.4 |

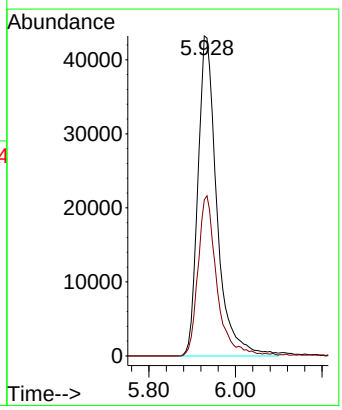


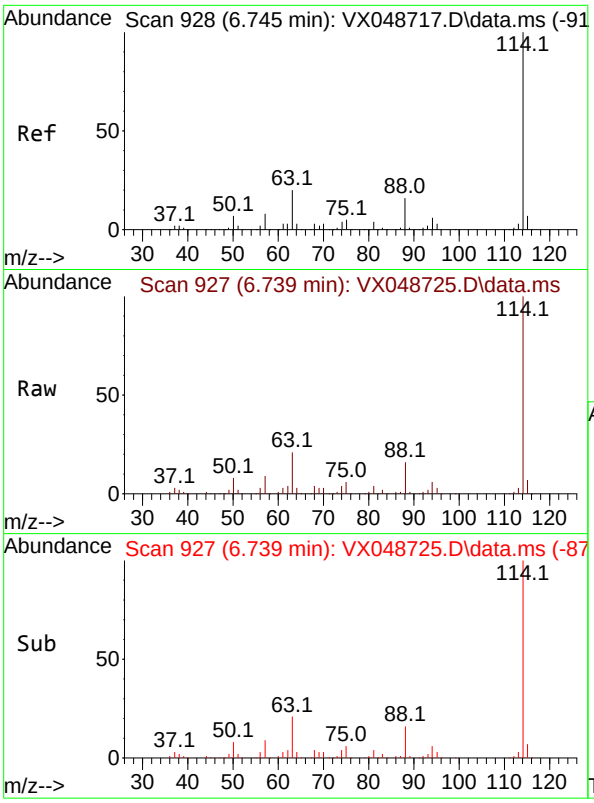




#33
1,2-Dichloroethane-d4
Concen: 50.601 ug/l
RT: 5.928 min Scan# 794
Delta R.T. -0.012 min
Lab File: VX048725.D
Acq: 05 Dec 2025 10:34

Tgt Ion: 65 Resp: 131204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.6 | 0.0 | 107.4 |



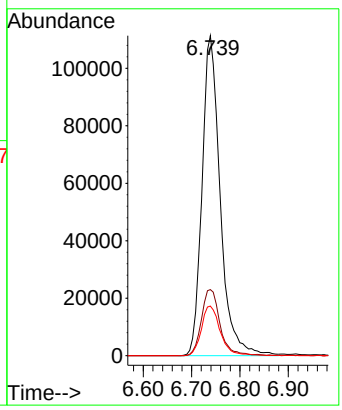


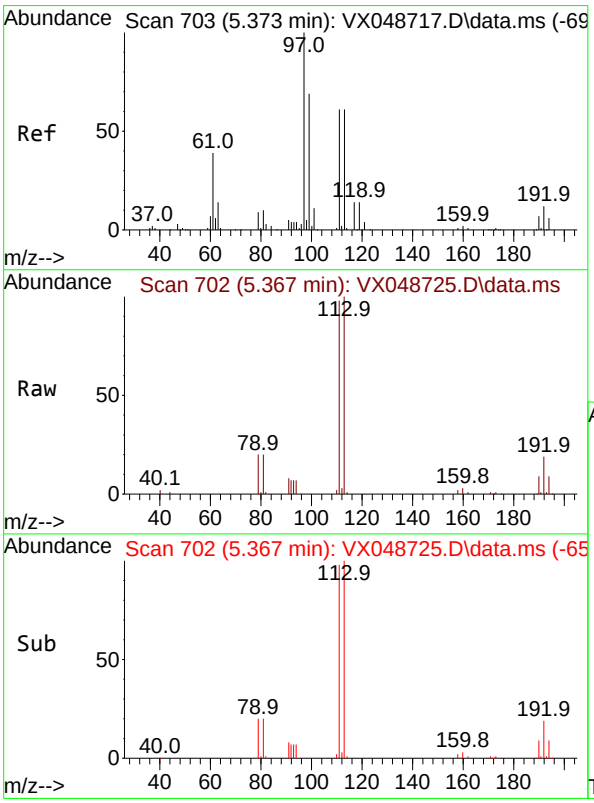

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 9
Delta R.T. -0.006 min
Lab File: VX048725.D
Acq: 05 Dec 2025 10:34

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1205WBL01

Tgt Ion:114 Resp: 291151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.6 | 0.0 | 39.0 |
| 88 | 15.5 | 0.0 | 31.8 |

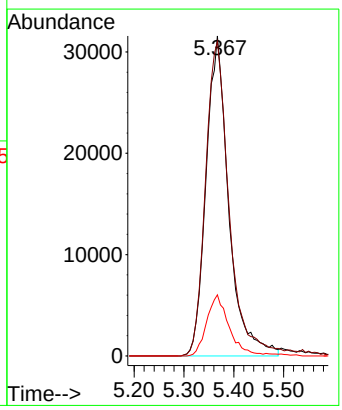


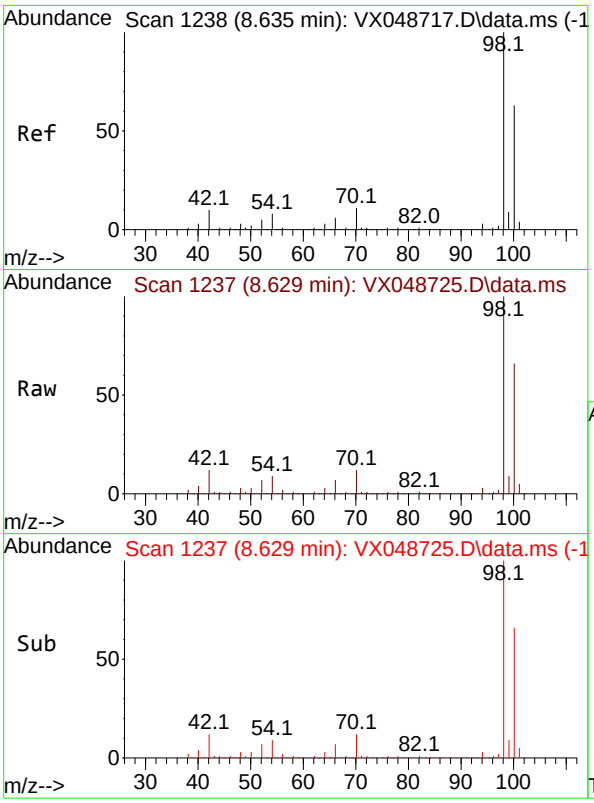




#35
Dibromofluoromethane
Concen: 49.686 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX048725.D
Acq: 05 Dec 2025 10:34

Tgt Ion:113 Resp: 99604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.4 | 79.5 | 119.3 |
| 192 | 18.7 | 16.1 | 24.1 |



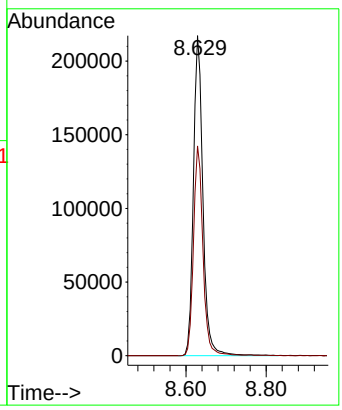


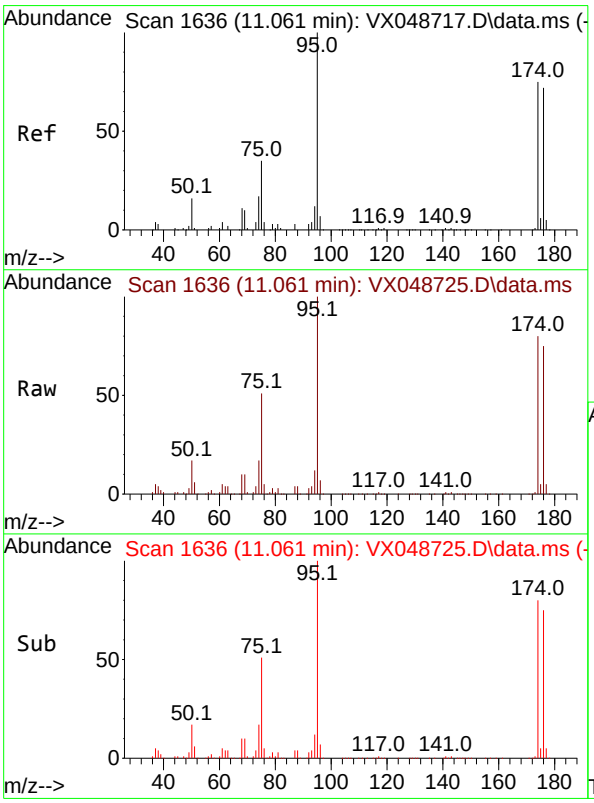

#50
Toluene-d8
Concen: 50.775 ug/l
RT: 8.629 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048725.D
Acq: 05 Dec 2025 10:34

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1205WBL01

Tgt Ion: 98 Resp: 356802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.3 | 53.4 | 80.0 |

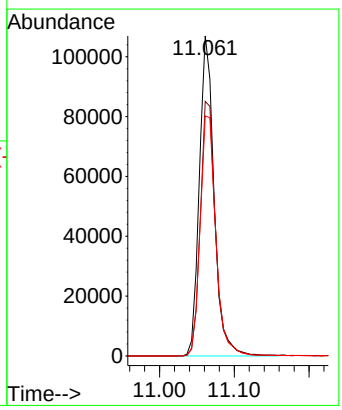


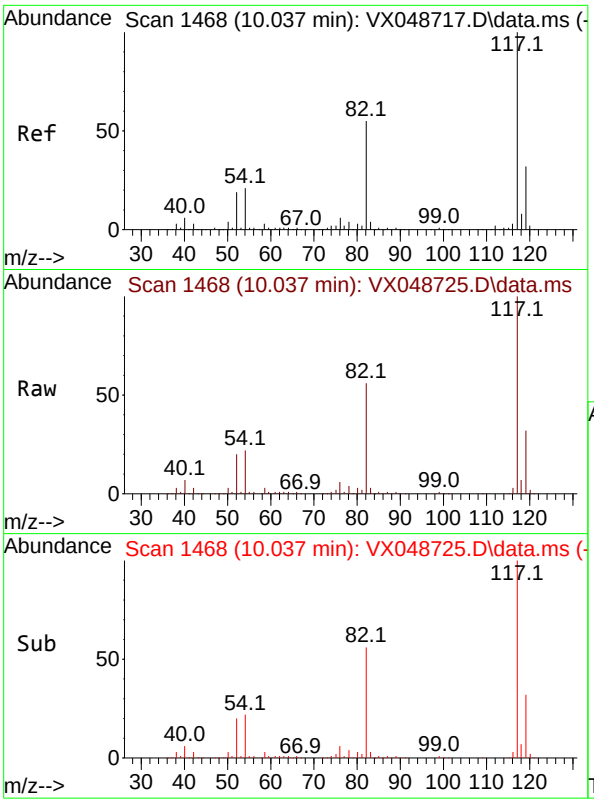




#62
4-Bromofluorobenzene
Concen: 60.529 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX048725.D
Acq: 05 Dec 2025 10:34

Tgt Ion: 95 Resp: 146671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 82.3 | 0.0 | 157.8 |
| 176 | 79.8 | 0.0 | 154.0 |



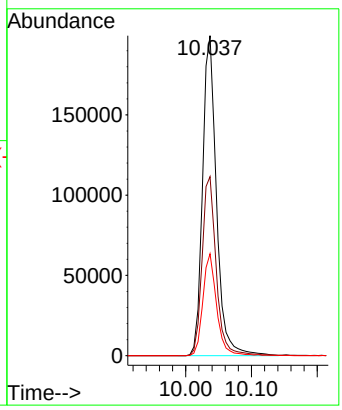


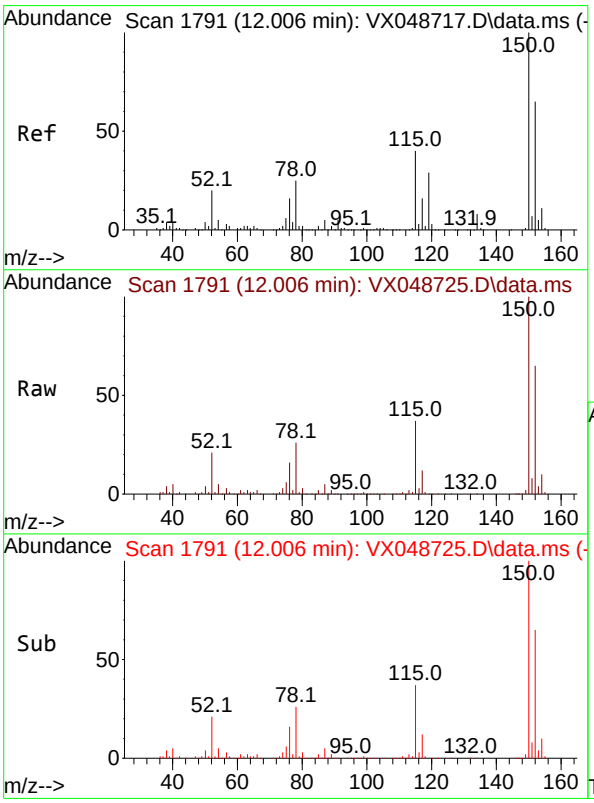

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048725.D
Acq: 05 Dec 2025 10:34

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1205WBL01

Tgt Ion:117 Resp: 294164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.0 | 44.1 | 66.1 |
| 119 | 31.9 | 25.2 | 37.8 |

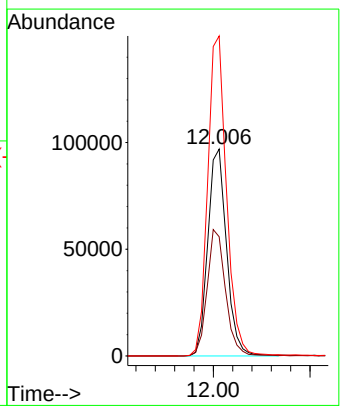



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048725.D
Acq: 05 Dec 2025 10:34

Tgt Ion:152 Resp: 130501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.2 | 42.1 | 126.4 |
| 150 | 155.0 | 0.0 | 347.8 |



Raw Data: **VX048744.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | |
| Client Sample ID: | VX1208WBL01 | SDG No.: | Q3757 |
| Lab Sample ID: | VX1208WBL01 | Matrix: | Water |
| Analytical Method: | 8260D Level: LOW | % Solid: | 0 |
| Sample Wt/Vol: | 5 mL Final Vol: 5000 uL | Test: | VOCMS Group3 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 1 | 0.26 | 1.00 | ug/L | 12/08/25 11:15 | VX120825 |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/08/25 11:15 | VX120825 |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/08/25 11:15 | VX120825 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 1 | 0.19 | 1.00 | ug/L | 12/08/25 11:15 | VX120825 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 1 | 0.20 | 1.00 | ug/L | 12/08/25 11:15 | VX120825 |
| 71-43-2 | Benzene | 0.15 | U | 1 | 0.15 | 1.00 | ug/L | 12/08/25 11:15 | VX120825 |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 1 | 0.22 | 1.00 | ug/L | 12/08/25 11:15 | VX120825 |
| 79-01-6 | Trichloroethene | 0.090 | U | 1 | 0.090 | 1.00 | ug/L | 12/08/25 11:15 | VX120825 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 1 | 0.21 | 1.00 | ug/L | 12/08/25 11:15 | VX120825 |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 1 | 0.23 | 1.00 | ug/L | 12/08/25 11:15 | VX120825 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.5 | | | 70 (74) - 130 (125) | 99% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 46.0 | | | 70 (75) - 130 (124) | 92% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 45.2 | | | 70 (86) - 130 (113) | 90% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 55.8 | | | 70 (77) - 130 (121) | 112% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 173000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 341000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 370000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 180000 | | | | | | | |

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_X\Data\VX120825\
Data File : VX048744.D
Acq On : 08 Dec 2025 11:15
Operator : JC/MD
Sample : VX1208WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1208WBL01

Quant Time: Dec 09 04:06:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

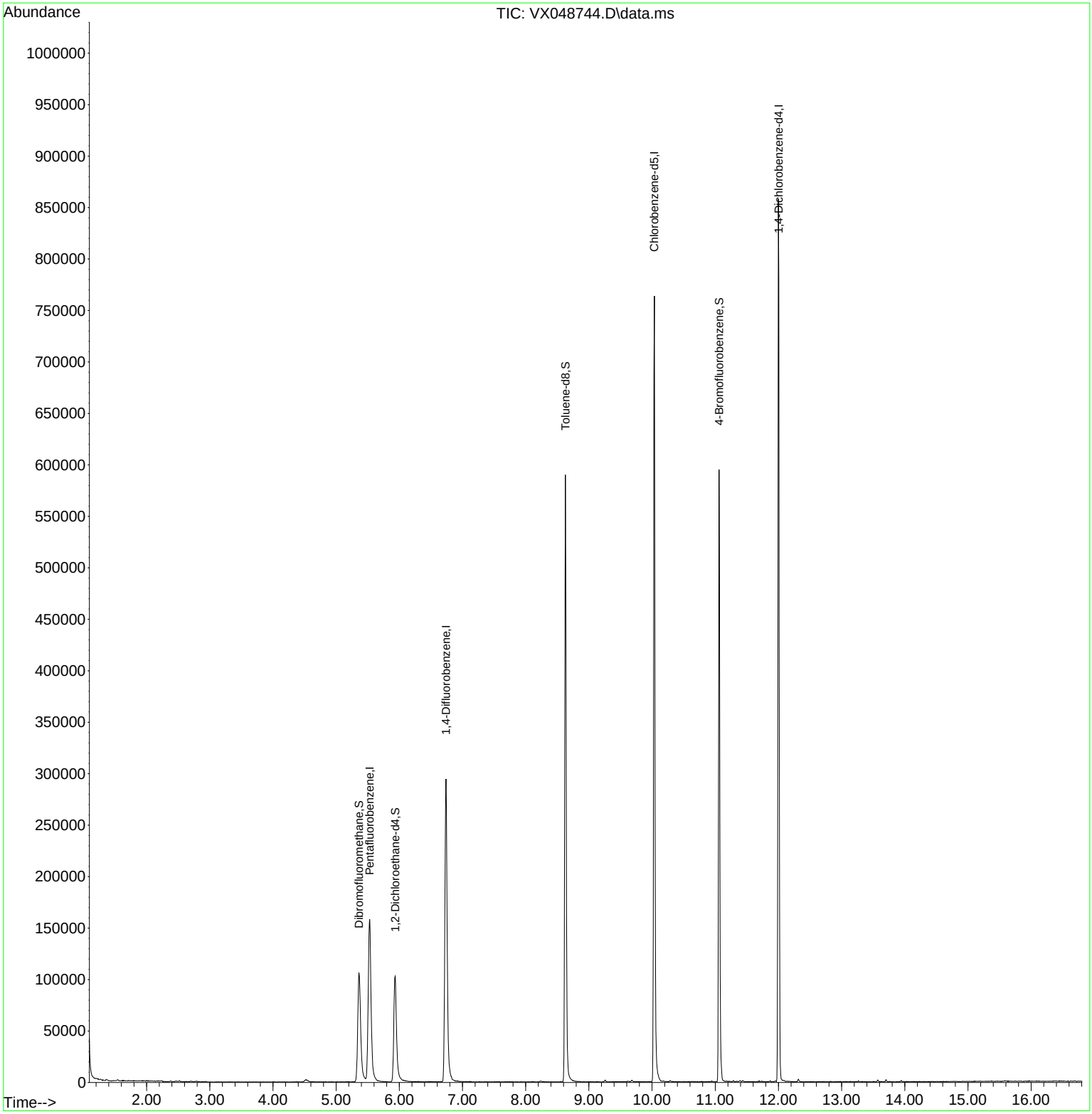
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.531 | 168 | 173343 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.739 | 114 | 340953 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 370451 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152 | 179749 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.934 | 65 | 115181 | 49.507 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = 99.020% | | | |
| 35) Dibromofluoromethane | 5.361 | 113 | 107991 | 46.001 | ug/l | -0.01 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 92.000% | | | |
| 50) Toluene-d8 | 8.629 | 98 | 372131 | 45.222 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = 90.440%# | | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 158378 | 55.813 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = 111.620% | | | |
| Target Compounds | | | | | | Qvalue |

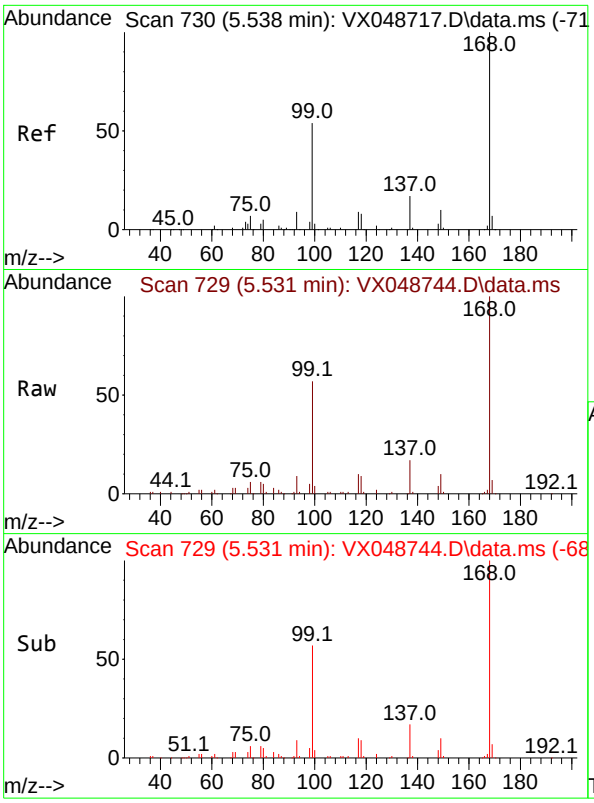
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048744.D
Acq On : 08 Dec 2025 11:15
Operator : JC/MD
Sample : VX1208WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1208WBL01

Quant Time: Dec 09 04:06:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration



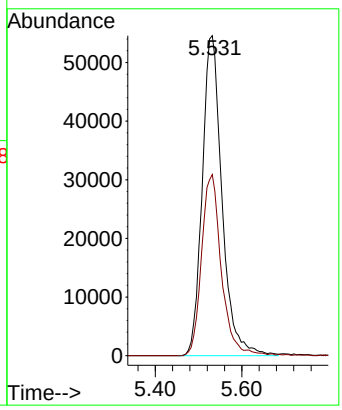


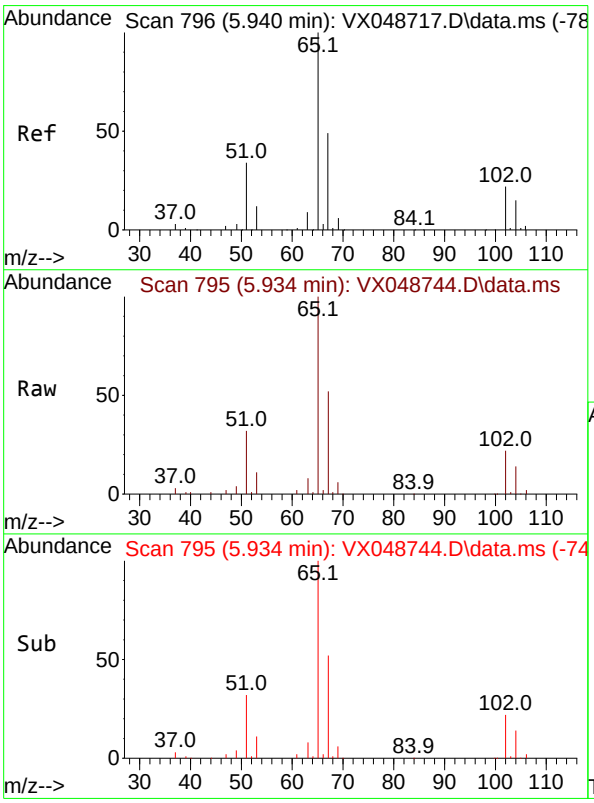

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX048744.D
Acq: 08 Dec 2025 11:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1208WBL01

Tgt Ion:168 Resp: 173343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.6 | 44.2 | 66.4 |

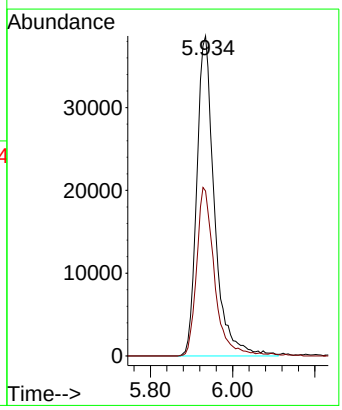


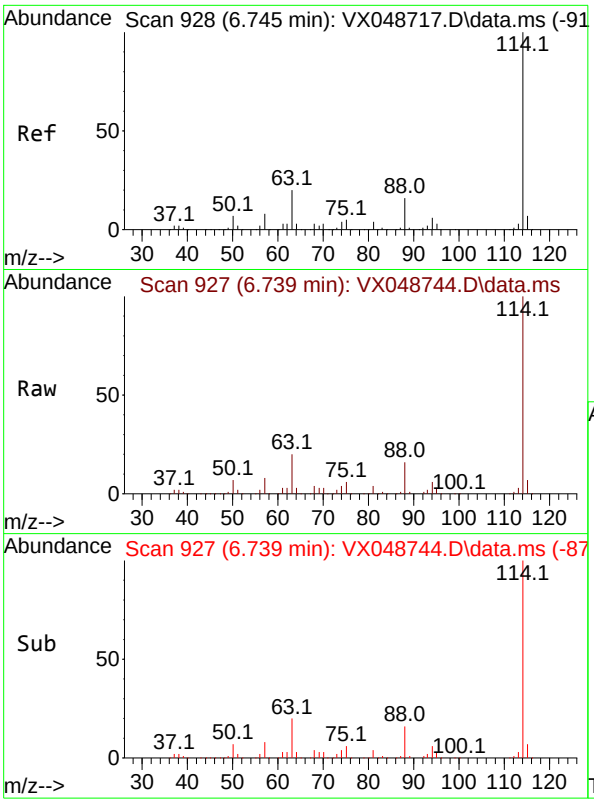




#33
1,2-Dichloroethane-d4
Concen: 49.507 ug/l
RT: 5.934 min Scan# 795
Delta R.T. -0.006 min
Lab File: VX048744.D
Acq: 08 Dec 2025 11:15

Tgt Ion: 65 Resp: 115181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.8 | 0.0 | 107.4 |



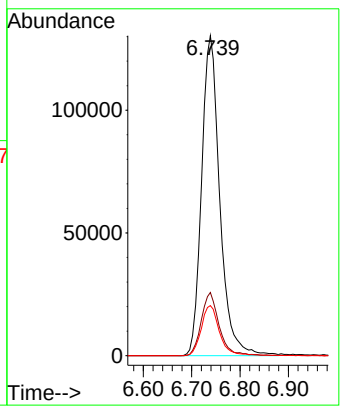


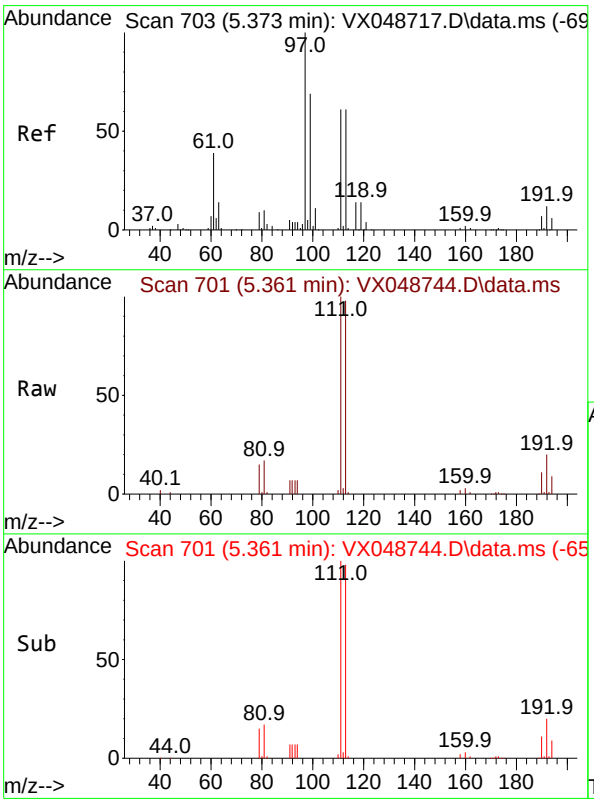

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 9
Delta R.T. -0.006 min
Lab File: VX048744.D
Acq: 08 Dec 2025 11:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1208WBL01

Tgt Ion:114 Resp: 340953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 39.0 |
| 88 | 15.6 | 0.0 | 31.8 |

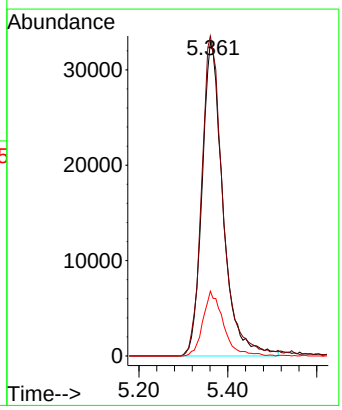


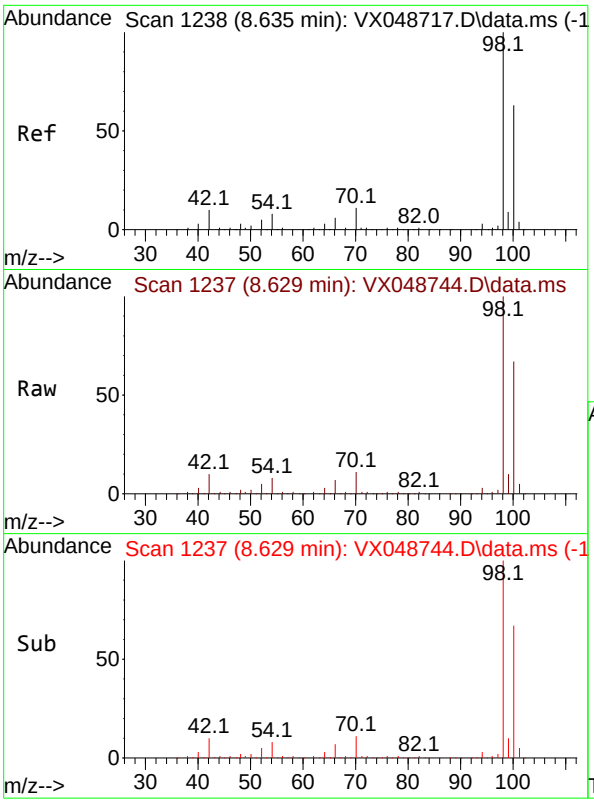




#35
Dibromofluoromethane
Concen: 46.001 ug/l
RT: 5.361 min Scan# 701
Delta R.T. -0.012 min
Lab File: VX048744.D
Acq: 08 Dec 2025 11:15

Tgt Ion:113 Resp: 107991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.8 | 79.5 | 119.3 |
| 192 | 20.1 | 16.1 | 24.1 |



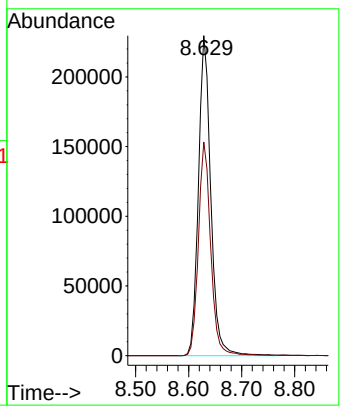


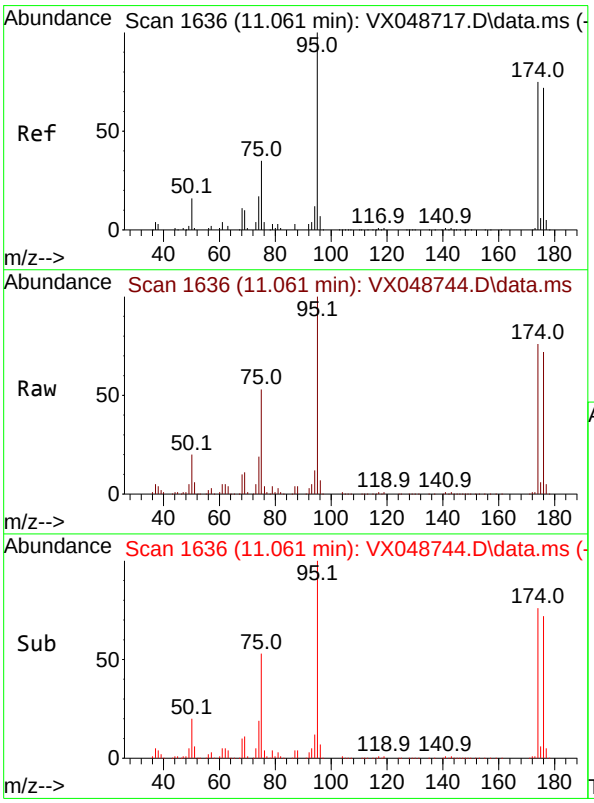

#50
Toluene-d8
Concen: 45.222 ug/l
RT: 8.629 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX048744.D
Acq: 08 Dec 2025 11:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1208WBL01

Tgt Ion: 98 Resp: 372131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.7 | 53.4 | 80.0 |

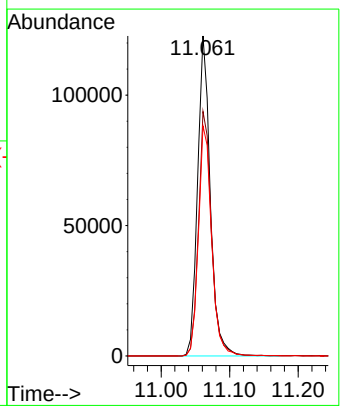


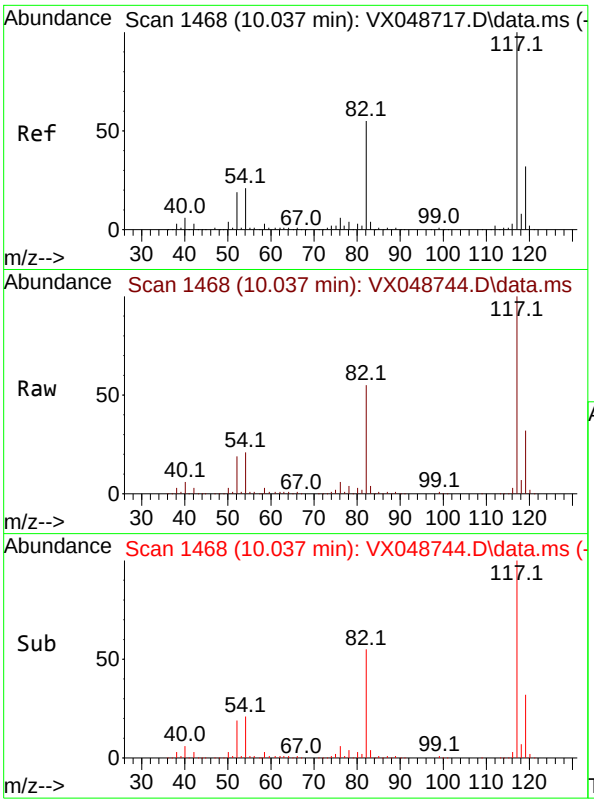




#62
4-Bromofluorobenzene
Concen: 55.813 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048744.D
Acq: 08 Dec 2025 11:15

Tgt Ion: 95 Resp: 158378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 78.8 | 0.0 | 157.8 |
| 176 | 74.8 | 0.0 | 154.0 |



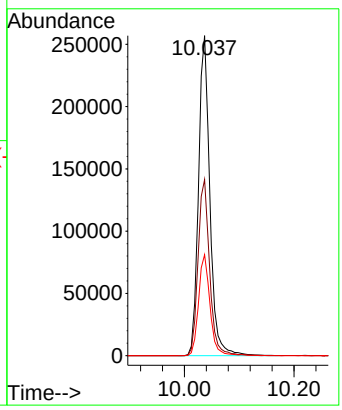


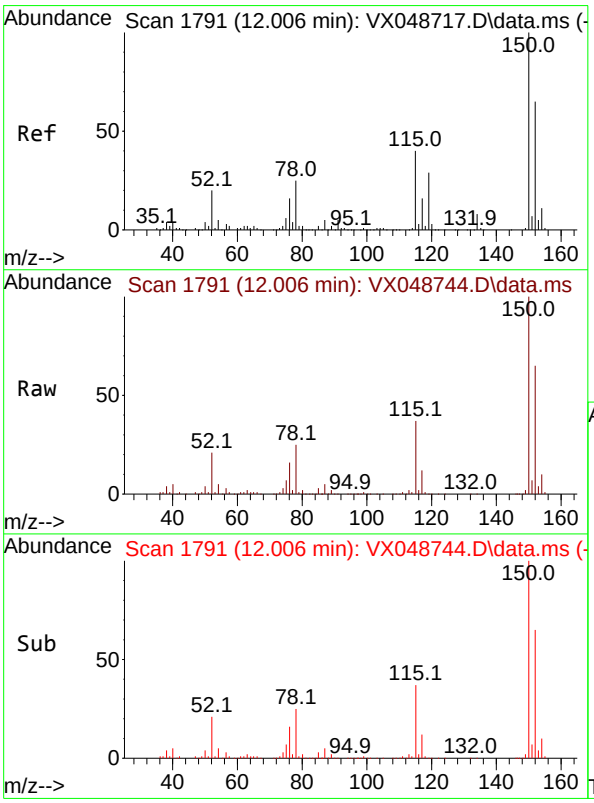

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048744.D
Acq: 08 Dec 2025 11:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1208WBL01

Tgt Ion:117 Resp: 370451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.1 | 44.1 | 66.1 |
| 119 | 31.5 | 25.2 | 37.8 |

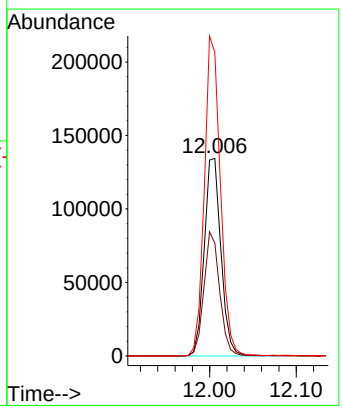



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048744.D
Acq: 08 Dec 2025 11:15

Tgt Ion:152 Resp: 179749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.4 | 42.1 | 126.4 |
| 150 | 155.9 | 0.0 | 347.8 |



Raw Data: **VN088443.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | |
| Client Sample ID: | VN1204WBS01 | SDG No.: | Q3757 |
| Lab Sample ID: | VN1204WBS01 | Matrix: | Water |
| Analytical Method: | 8260D Level: LOW | % Solid: | 0 |
| Sample Wt/Vol: | 5 mL Final Vol: 5000 uL | Test: | VOCMS Group3 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-01-4 | Vinyl Chloride | 20.3 | | 1 | 0.26 | 1.00 | ug/L | 12/04/25 14:12 | VN120425 |
| 75-35-4 | 1,1-Dichloroethene | 20.4 | | 1 | 0.23 | 1.00 | ug/L | 12/04/25 14:12 | VN120425 |
| 75-34-3 | 1,1-Dichloroethane | 19.6 | | 1 | 0.23 | 1.00 | ug/L | 12/04/25 14:12 | VN120425 |
| 156-59-2 | cis-1,2-Dichloroethene | 19.0 | | 1 | 0.19 | 1.00 | ug/L | 12/04/25 14:12 | VN120425 |
| 71-55-6 | 1,1,1-Trichloroethane | 20.7 | | 1 | 0.20 | 1.00 | ug/L | 12/04/25 14:12 | VN120425 |
| 71-43-2 | Benzene | 19.3 | | 1 | 0.15 | 1.00 | ug/L | 12/04/25 14:12 | VN120425 |
| 107-06-2 | 1,2-Dichloroethane | 20.8 | | 1 | 0.22 | 1.00 | ug/L | 12/04/25 14:12 | VN120425 |
| 79-01-6 | Trichloroethene | 18.3 | | 1 | 0.090 | 1.00 | ug/L | 12/04/25 14:12 | VN120425 |
| 79-00-5 | 1,1,2-Trichloroethane | 19.9 | | 1 | 0.21 | 1.00 | ug/L | 12/04/25 14:12 | VN120425 |
| 127-18-4 | Tetrachloroethene | 18.1 | | 1 | 0.23 | 1.00 | ug/L | 12/04/25 14:12 | VN120425 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.8 | | | 70 (74) - 130 (125) | 108% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 50.7 | | | 70 (75) - 130 (124) | 101% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 51.7 | | | 70 (86) - 130 (113) | 103% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 54.4 | | | 70 (77) - 130 (121) | 109% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 304000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 560000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 492000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 238000 | | | | | | | |

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_N\Data\VN120425\
Data File : VN088443.D
Acq On : 04 Dec 2025 14:12
Operator : JC\MD
Sample : VN1204WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 05 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1204WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 303745 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.077 | 114 | 559564 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.841 | 117 | 491842 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 237731 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.559 | 65 | 307567 | 53.752 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 107.500% | | | |
| 35) Dibromofluoromethane | 8.147 | 113 | 196606 | 50.701 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 101.400% | | | |
| 50) Toluene-d8 | 10.547 | 98 | 745425 | 51.664 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 103.320% | | | |
| 62) 4-Bromofluorobenzene | 12.823 | 95 | 269159 | 54.369 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 108.740% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.142 | 85 | 97797 | 21.436 | ug/l | 93 |
| 3) Chloromethane | 2.383 | 50 | 93145 | 19.009 | ug/l | 96 |
| 4) Vinyl Chloride | 2.536 | 62 | 100990 | 20.259 | ug/l | 100 |
| 5) Bromomethane | 2.983 | 94 | 46454 | 19.362 | ug/l | 91 |
| 6) Chloroethane | 3.142 | 64 | 62589 | 20.289 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.512 | 101 | 150074 | 21.421 | ug/l | 95 |
| 8) Diethyl Ether | 3.959 | 74 | 53546 | 20.363 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 78946 | 21.166 | ug/l | 99 |
| 10) Methyl Iodide | 4.583 | 142 | 63657 | 17.241 | ug/l | 93 |
| 11) Tert butyl alcohol | 5.506 | 59 | 76083 | 83.283 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 75627 | 20.408 | ug/l | 96 |
| 13) Acrolein | 4.183 | 56 | 95364 | 109.036 | ug/l | 98 |
| 14) Allyl chloride | 5.012 | 41 | 131363 | 19.125 | ug/l | 97 |
| 15) Acrylonitrile | 5.706 | 53 | 244233 | 92.662 | ug/l | 99 |
| 16) Acetone | 4.424 | 43 | 183497 | 88.674 | ug/l | 96 |
| 17) Carbon Disulfide | 4.712 | 76 | 223379 | 18.447 | ug/l | 96 |
| 18) Methyl Acetate | 5.018 | 43 | 120530 | 19.567 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.783 | 73 | 272930 | 19.658 | ug/l | 99 |
| 20) Methylene Chloride | 5.265 | 84 | 81214 | 18.343 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.777 | 96 | 79259 | 19.308 | ug/l | 98 |
| 22) Diisopropyl ether | 6.659 | 45 | 293315 | 20.002 | ug/l | 98 |
| 23) Vinyl Acetate | 6.588 | 43 | 1278749 | 108.235 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.553 | 63 | 162999 | 19.628 | ug/l | 97 |
| 25) 2-Butanone | 7.465 | 43 | 310201 | 93.245 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.471 | 77 | 150702 | 21.025 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 7.471 | 96 | 90646 | 19.000 | ug/l | 96 |
| 28) Bromochloromethane | 7.794 | 49 | 70911 | 17.142 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.818 | 42 | 228135 | 95.607 | ug/l | 98 |
| 30) Chloroform | 7.953 | 83 | 165040 | 20.226 | ug/l | 100 |
| 31) Cyclohexane | 8.241 | 56 | 151560 | 20.140 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 8.147 | 97 | 148393 | 20.683 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.353 | 75 | 116928 | 19.538 | ug/l | 98 |
| 37) Ethyl Acetate | 7.547 | 43 | 137369 | 17.457 | ug/l | 97 |
| 38) Carbon Tetrachloride | 8.341 | 117 | 123356 | 20.706 | ug/l | 98 |
| 39) Methylcyclohexane | 9.582 | 83 | 125506 | 19.606 | ug/l | 90 |
| 40) Benzene | 8.582 | 78 | 339466 | 19.326 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088443.D
Acq On : 04 Dec 2025 14:12
Operator : JC\MD
Sample : VN1204WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 05 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1204WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.765 | 41 | 74031 | 18.995 | ug/l | | 99 |
| 42) 1,2-Dichloroethane | 8.647 | 62 | 139506 | 20.817 | ug/l | | 97 |
| 43) Isopropyl Acetate | 8.671 | 43 | 224127 | 18.642 | ug/l | | 99 |
| 44) Trichloroethene | 9.329 | 130 | 76077 | 18.330 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 9.600 | 63 | 87062 | 19.346 | ug/l | | 99 |
| 46) Dibromomethane | 9.688 | 93 | 62387 | 19.425 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.865 | 83 | 130611 | 19.931 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.659 | 41 | 104044 | 18.966 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.677 | 88 | 21834 | 312.972 | ug/l | # | 94 |
| 51) 4-Methyl-2-Pentanone | 10.424 | 43 | 704216 | 99.372 | ug/l | | 100 |
| 52) Toluene | 10.606 | 92 | 205014 | 20.214 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.812 | 75 | 131896 | 19.609 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 10.288 | 75 | 137564 | 19.447 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.994 | 97 | 77993 | 19.876 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.853 | 69 | 122489 | 19.761 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 11.141 | 76 | 141160 | 19.940 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 10.135 | 63 | 316457 | 88.556 | ug/l | | 98 |
| 59) 2-Hexanone | 11.176 | 43 | 422202 | 94.573 | ug/l | | 99 |
| 60) Dibromochloromethane | 11.335 | 129 | 89380 | 19.980 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.447 | 107 | 78746 | 19.817 | ug/l | | 98 |
| 64) Tetrachloroethene | 11.082 | 164 | 70474 | 18.074 | ug/l | | 94 |
| 65) Chlorobenzene | 11.870 | 112 | 218454 | 19.774 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.941 | 131 | 72384 | 19.426 | ug/l | | 96 |
| 67) Ethyl Benzene | 11.941 | 91 | 390956 | 20.247 | ug/l | | 98 |
| 68) m/p-Xylenes | 12.047 | 106 | 286124 | 39.966 | ug/l | | 96 |
| 69) o-Xylene | 12.370 | 106 | 139831 | 20.487 | ug/l | | 99 |
| 70) Styrene | 12.388 | 104 | 232254 | 20.957 | ug/l | | 99 |
| 71) Bromoform | 12.553 | 173 | 55870 | 20.471 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.670 | 105 | 360370 | 20.502 | ug/l | | 99 |
| 74) N-amyl acetate | 12.688 | 43 | 116340m | 19.435 | ug/l | | |
| 75) 1,1,2,2-Tetrachloroethane | 12.912 | 83 | 112119 | 19.731 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.970 | 75 | 113577m | 20.398 | ug/l | | |
| 77) Bromobenzene | 12.953 | 156 | 82378 | 20.483 | ug/l | | 99 |
| 78) n-propylbenzene | 13.012 | 91 | 452912 | 21.062 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 13.100 | 91 | 273041 | 20.792 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 13.147 | 105 | 301838 | 20.723 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.723 | 75 | 35744 | 18.212 | ug/l | # | 91 |
| 82) 4-Chlorotoluene | 13.194 | 91 | 286032 | 21.930 | ug/l | | 97 |
| 83) tert-Butylbenzene | 13.412 | 119 | 261764 | 21.141 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.459 | 105 | 312793 | 21.606 | ug/l | | 97 |
| 85) sec-Butylbenzene | 13.594 | 105 | 375613 | 21.117 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.706 | 119 | 306028 | 20.981 | ug/l | | 97 |
| 87) 1,3-Dichlorobenzene | 13.712 | 146 | 154606 | 19.748 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.788 | 146 | 162379 | 19.800 | ug/l | | 99 |
| 89) n-Butylbenzene | 14.029 | 91 | 297476 | 21.005 | ug/l | | 98 |
| 90) Hexachloroethane | 14.306 | 117 | 52252 | 19.610 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 14.082 | 146 | 147868 | 20.071 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.694 | 75 | 28137 | 20.408 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 15.364 | 180 | 83932 | 19.174 | ug/l | | 95 |
| 94) Hexachlorobutadiene | 15.470 | 225 | 28512 | 18.126 | ug/l | | 97 |
| 95) Naphthalene | 15.611 | 128 | 307489 | 20.271 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.811 | 180 | 83257 | 19.543 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088443.D
Acq On : 04 Dec 2025 14:12
Operator : JC\MD
Sample : VN1204WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 05 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1204WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

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

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

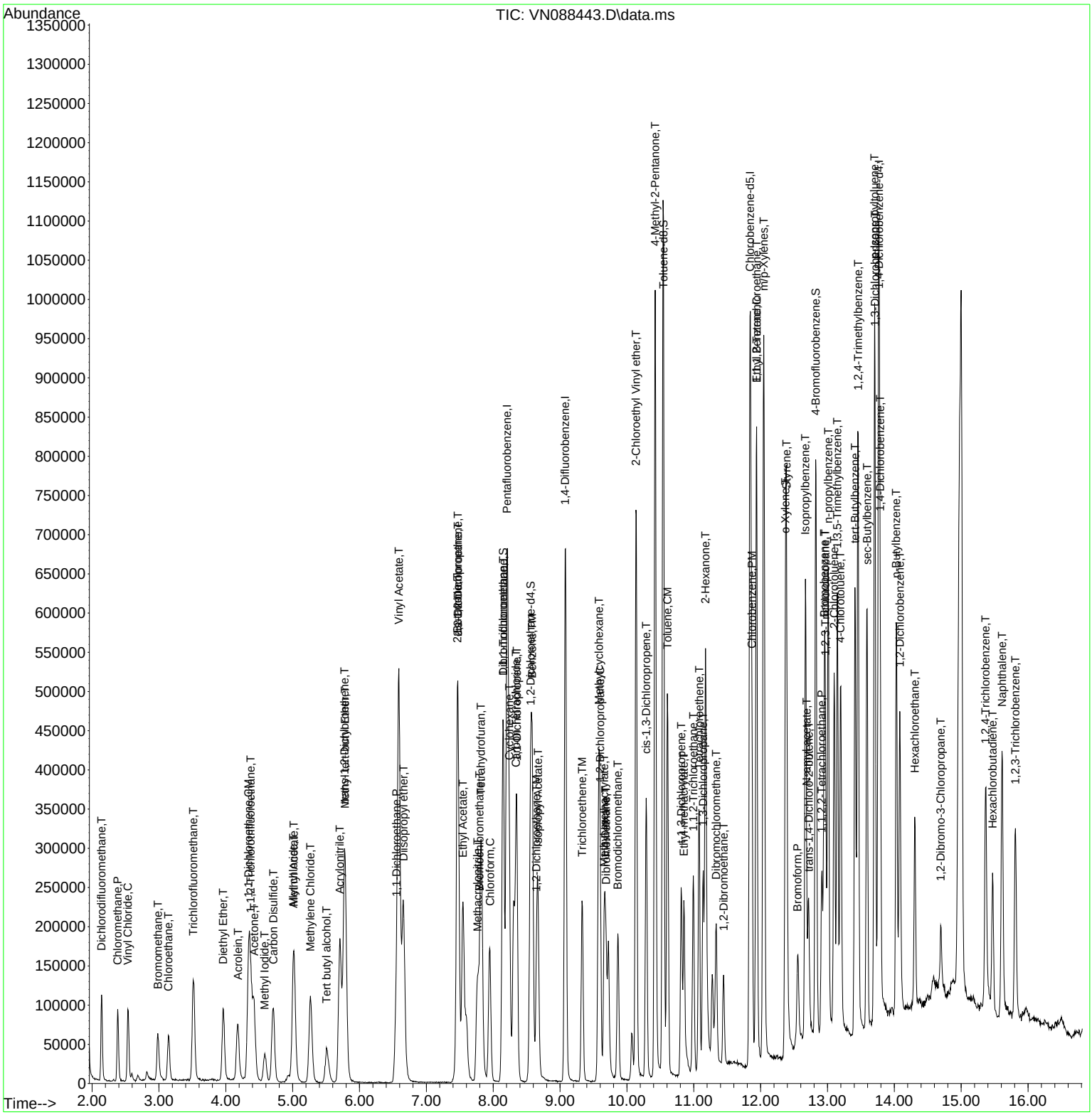
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088443.D
Acq On : 04 Dec 2025 14:12
Operator : JC\MD
Sample : VN1204WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 05 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1204WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025



Raw Data: **VX048726.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | |
| Client Sample ID: | VX1205WBS01 | SDG No.: | Q3757 |
| Lab Sample ID: | VX1205WBS01 | Matrix: | Water |
| Analytical Method: | 8260D Level: LOW | % Solid: | 0 |
| Sample Wt/Vol: | 5 mL Final Vol: 5000 uL | Test: | VOCMS Group3 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-01-4 | Vinyl Chloride | 16.1 | | 1 | 0.26 | 1.00 | ug/L | 12/05/25 11:31 | VX120525 |
| 75-35-4 | 1,1-Dichloroethene | 19.4 | | 1 | 0.23 | 1.00 | ug/L | 12/05/25 11:31 | VX120525 |
| 75-34-3 | 1,1-Dichloroethane | 20.1 | | 1 | 0.23 | 1.00 | ug/L | 12/05/25 11:31 | VX120525 |
| 156-59-2 | cis-1,2-Dichloroethene | 19.1 | | 1 | 0.19 | 1.00 | ug/L | 12/05/25 11:31 | VX120525 |
| 71-55-6 | 1,1,1-Trichloroethane | 20.0 | | 1 | 0.20 | 1.00 | ug/L | 12/05/25 11:31 | VX120525 |
| 71-43-2 | Benzene | 18.7 | | 1 | 0.15 | 1.00 | ug/L | 12/05/25 11:31 | VX120525 |
| 107-06-2 | 1,2-Dichloroethane | 20.1 | | 1 | 0.22 | 1.00 | ug/L | 12/05/25 11:31 | VX120525 |
| 79-01-6 | Trichloroethene | 19.0 | | 1 | 0.090 | 1.00 | ug/L | 12/05/25 11:31 | VX120525 |
| 79-00-5 | 1,1,2-Trichloroethane | 19.1 | | 1 | 0.21 | 1.00 | ug/L | 12/05/25 11:31 | VX120525 |
| 127-18-4 | Tetrachloroethene | 17.6 | | 1 | 0.23 | 1.00 | ug/L | 12/05/25 11:31 | VX120525 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.4 | | | 70 (74) - 130 (125) | 105% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 48.0 | | | 70 (75) - 130 (124) | 96% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 49.6 | | | 70 (86) - 130 (113) | 99% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 52.5 | | | 70 (77) - 130 (121) | 105% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 179000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 294000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 269000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 133000 | | | | | | | |

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: **VX048726.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048726.D
Acq On : 05 Dec 2025 11:31
Operator : JC/MD
Sample : VX1205WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 05 21:59:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1205WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/08/2025
Supervised By :Semsettin Yesilyurt 12/08/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.525 | 168 | 179194 | 50.000 | ug/l | -0.01 |
| 34) 1,4-Difluorobenzene | 6.739 | 114 | 293931 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 269397 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152 | 132992 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.934 | 65 | 125979 | 52.380 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = 104.760% | | | |
| 35) Dibromofluoromethane | 5.361 | 113 | 97103 | 47.980 | ug/l | -0.01 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 95.960% | | | |
| 50) Toluene-d8 | 8.629 | 98 | 352069 | 49.628 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = 99.260% | | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 128406 | 52.490 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = 104.980% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.173 | 85 | 41863 | 22.929 | ug/l | 96 |
| 3) Chloromethane | 1.301 | 50 | 44995 | 19.530 | ug/l | 97 |
| 4) Vinyl Chloride | 1.380 | 62 | 39598 | 16.138 | ug/l | 97 |
| 5) Bromomethane | 1.618 | 94 | 28574 | 18.844 | ug/l | 97 |
| 6) Chloroethane | 1.697 | 64 | 24297 | 15.910 | ug/l | 92 |
| 7) Trichlorofluoromethane | 1.898 | 101 | 68676 | 19.528 | ug/l | 97 |
| 8) Diethyl Ether | 2.130 | 74 | 23437 | 16.697 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 2.337 | 101 | 43147 | 21.164 | ug/l | 99 |
| 10) Methyl Iodide | 2.453 | 142 | 61205 | 21.087 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.928 | 59 | 35673 | 91.869 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.325 | 96 | 40443 | 19.436 | ug/l | 99 |
| 13) Acrolein | 2.233 | 56 | 31115 | 109.833 | ug/l | 100 |
| 14) Allyl chloride | 2.660 | 41 | 71931 | 20.590 | ug/l | 94 |
| 15) Acrylonitrile | 3.050 | 53 | 110416 | 91.258 | ug/l | 99 |
| 16) Acetone | 2.367 | 43 | 87721 | 95.274 | ug/l | 97 |
| 17) Carbon Disulfide | 2.514 | 76 | 125337 | 20.742 | ug/l | 100 |
| 18) Methyl Acetate | 2.697 | 43 | 47862 | 18.476 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.105 | 73 | 128879 | 19.031 | ug/l | 97 |
| 20) Methylene Chloride | 2.782 | 84 | 41148 | 17.880 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 40211 | 18.934 | ug/l | 93 |
| 22) Diisopropyl ether | 3.739 | 45 | 131789 | 20.185 | ug/l # | 80 |
| 23) Vinyl Acetate | 3.709 | 43 | 567718 | 103.483 | ug/l | 97 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 73078 | 20.071 | ug/l | 100 |
| 25) 2-Butanone | 4.526 | 43 | 144944 | 106.663 | ug/l | 91 |
| 26) 2,2-Dichloropropane | 4.459 | 77 | 65233 | 20.249 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 4.471 | 96 | 45731 | 19.082 | ug/l | 92 |
| 28) Bromochloromethane | 4.879 | 49 | 32271 | 18.083 | ug/l | 94 |
| 29) Tetrahydrofuran | 4.977 | 42 | 104631 | 100.837 | ug/l | 95 |
| 30) Chloroform | 5.068 | 83 | 77868 | 19.960 | ug/l | 99 |
| 31) Cyclohexane | 5.452 | 56 | 62885 | 19.345 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 5.361 | 97 | 69932 | 20.006 | ug/l | 96 |
| 36) 1,1-Dichloropropene | 5.672 | 75 | 57482 | 20.737 | ug/l | 100 |
| 37) Ethyl Acetate | 4.684 | 43 | 65510 | 19.779 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.653 | 117 | 65362 | 20.817 | ug/l | 94 |
| 39) Methylcyclohexane | 7.360 | 83 | 62448 | 19.052 | ug/l | 97 |
| 40) Benzene | 6.019 | 78 | 153807 | 18.718 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048726.D
Acq On : 05 Dec 2025 11:31
Operator : JC/MD
Sample : VX1205WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 05 21:59:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1205WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/08/2025
Supervised By :Semsettin Yesilyurt 12/08/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.897 | 41 | 29896 | 19.838 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 6.068 | 62 | 58414 | 20.085 | ug/l | | 95 |
| 43) Isopropyl Acetate | 6.312 | 43 | 97581 | 19.456 | ug/l | | 95 |
| 44) Trichloroethene | 7.104 | 130 | 40756 | 19.009 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 7.409 | 63 | 37372 | 18.196 | ug/l | | 99 |
| 46) Dibromomethane | 7.562 | 93 | 29281 | 18.800 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.805 | 83 | 61760 | 19.019 | ug/l | | 99 |
| 48) Methyl methacrylate | 7.671 | 41 | 46528 | 18.442 | ug/l | | 94 |
| 49) 1,4-Dioxane | 7.641 | 88 | 11029 | 317.857 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 8.549 | 43 | 315106 | 101.221 | ug/l | | 96 |
| 52) Toluene | 8.702 | 92 | 98680 | 19.915 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.958 | 75 | 61457 | 19.894 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 8.348 | 75 | 63144 | 19.019 | ug/l | | 91 |
| 55) 1,1,2-Trichloroethane | 9.134 | 97 | 37998 | 19.059 | ug/l | | 98 |
| 56) Ethyl methacrylate | 9.098 | 69 | 60402 | 19.356 | ug/l | # | 94 |
| 57) 1,3-Dichloropropane | 9.293 | 76 | 68113 | 20.546 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.220 | 63 | 144206 | 85.498 | ug/l | | 99 |
| 59) 2-Hexanone | 9.409 | 43 | 255149 | 116.758 | ug/l | | 98 |
| 60) Dibromochloromethane | 9.500 | 129 | 54125 | 21.955 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 9.592 | 107 | 47896 | 22.197 | ug/l | | 100 |
| 64) Tetrachloroethene | 9.256 | 164 | 34511 | 17.575 | ug/l | | 97 |
| 65) Chlorobenzene | 10.061 | 112 | 109860 | 18.630 | ug/l | | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 10.147 | 131 | 37880 | 17.960 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.177 | 91 | 190737 | 19.822 | ug/l | | 97 |
| 68) m/p-Xylenes | 10.281 | 106 | 154292 | 41.164 | ug/l | | 100 |
| 69) o-Xylene | 10.622 | 106 | 74050 | 21.083 | ug/l | | 100 |
| 70) Styrene | 10.634 | 104 | 126101 | 20.914 | ug/l | | 99 |
| 71) Bromoform | 10.781 | 173 | 34490 | 18.317 | ug/l | # | 99 |
| 73) Isopropylbenzene | 10.945 | 105 | 189027 | 21.092 | ug/l | | 99 |
| 74) N-amyl acetate | 10.823 | 43 | 88194 | 22.648 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.195 | 83 | 58063 | 19.201 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 11.220 | 75 | 56826m | 22.941 | ug/l | | |
| 77) Bromobenzene | 11.177 | 156 | 43921 | 18.361 | ug/l | | 99 |
| 78) n-propylbenzene | 11.287 | 91 | 218146 | 21.016 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.348 | 91 | 129011 | 20.383 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.433 | 105 | 150128 | 20.379 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 11.000 | 75 | 20029 | 19.207 | ug/l | | 94 |
| 82) 4-Chlorotoluene | 11.433 | 91 | 153143 | 20.734 | ug/l | | 99 |
| 83) tert-Butylbenzene | 11.695 | 119 | 149901 | 19.584 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 11.732 | 105 | 152255 | 20.489 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.872 | 105 | 189342 | 20.411 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 11.988 | 119 | 158652 | 20.008 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.951 | 146 | 84489 | 19.160 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 12.024 | 146 | 84209 | 18.479 | ug/l | | 97 |
| 89) n-Butylbenzene | 12.311 | 91 | 147367 | 19.849 | ug/l | | 100 |
| 90) Hexachloroethane | 12.518 | 117 | 30361 | 18.760 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 12.317 | 146 | 78982 | 18.475 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.920 | 75 | 13457 | 18.285 | ug/l | | 91 |
| 93) 1,2,4-Trichlorobenzene | 13.567 | 180 | 48161 | 17.057 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.707 | 225 | 21240 | 18.186 | ug/l | | 95 |
| 95) Naphthalene | 13.756 | 128 | 154818 | 20.946 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.939 | 180 | 45023 | 17.290 | ug/l | | 97 |

Sample Results: **VX048726.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048726.D
Acq On : 05 Dec 2025 11:31
Operator : JC/MD
Sample : VX1205WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 05 21:59:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1205WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/08/2025
Supervised By :Semsettin Yesilyurt 12/08/2025

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

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

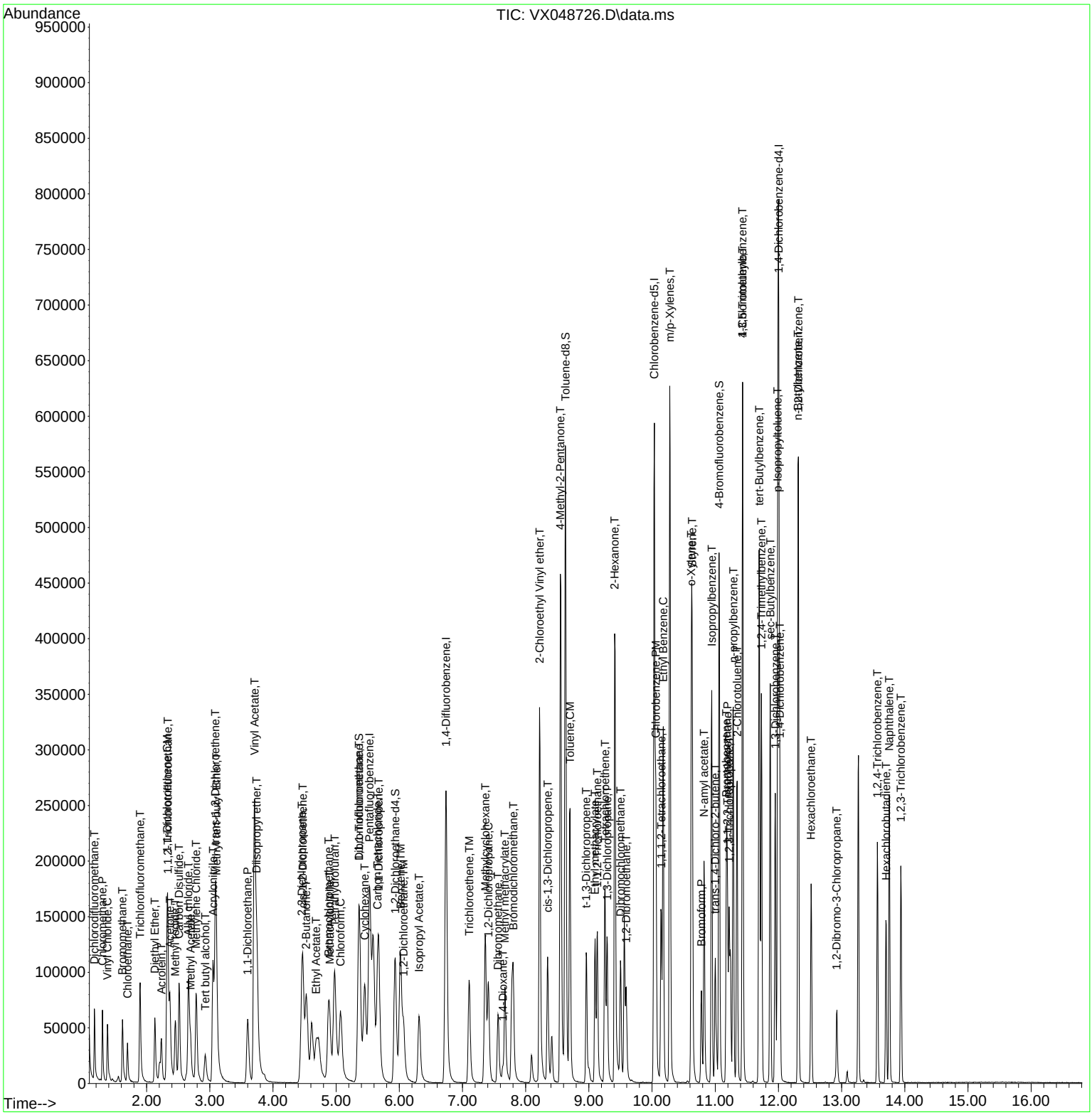
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120525\
Data File : VX048726.D
Acq On : 05 Dec 2025 11:31
Operator : JC/MD
Sample : VX1205WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 05 21:59:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1205WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/08/2025
Supervised By :Semsettin Yesilyurt 12/08/2025



Raw Data: **VX048745.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | |
| Client Sample ID: | VX1208WBS01 | SDG No.: | Q3757 |
| Lab Sample ID: | VX1208WBS01 | Matrix: | Water |
| Analytical Method: | 8260D Level: LOW | % Solid: | 0 |
| Sample Wt/Vol: | 5 mL Final Vol: 5000 uL | Test: | VOCMS Group3 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-01-4 | Vinyl Chloride | 19.8 | | 1 | 0.26 | 1.00 | ug/L | 12/08/25 11:44 | VX120825 |
| 75-35-4 | 1,1-Dichloroethene | 19.2 | | 1 | 0.23 | 1.00 | ug/L | 12/08/25 11:44 | VX120825 |
| 75-34-3 | 1,1-Dichloroethane | 20.8 | | 1 | 0.23 | 1.00 | ug/L | 12/08/25 11:44 | VX120825 |
| 156-59-2 | cis-1,2-Dichloroethene | 19.9 | | 1 | 0.19 | 1.00 | ug/L | 12/08/25 11:44 | VX120825 |
| 71-55-6 | 1,1,1-Trichloroethane | 20.1 | | 1 | 0.20 | 1.00 | ug/L | 12/08/25 11:44 | VX120825 |
| 71-43-2 | Benzene | 18.8 | | 1 | 0.15 | 1.00 | ug/L | 12/08/25 11:44 | VX120825 |
| 107-06-2 | 1,2-Dichloroethane | 21.4 | | 1 | 0.22 | 1.00 | ug/L | 12/08/25 11:44 | VX120825 |
| 79-01-6 | Trichloroethene | 17.6 | | 1 | 0.090 | 1.00 | ug/L | 12/08/25 11:44 | VX120825 |
| 79-00-5 | 1,1,2-Trichloroethane | 21.7 | | 1 | 0.21 | 1.00 | ug/L | 12/08/25 11:44 | VX120825 |
| 127-18-4 | Tetrachloroethene | 16.5 | | 1 | 0.23 | 1.00 | ug/L | 12/08/25 11:44 | VX120825 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 56.7 | | | 70 (74) - 130 (125) | 113% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 50.4 | | | 70 (75) - 130 (124) | 101% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 50.6 | | | 70 (86) - 130 (113) | 101% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 58.8 | | | 70 (77) - 130 (121) | 118% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 178000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 299000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 311000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 158000 | | | | | | | |

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_X\Data\VX120825\
Data File : VX048745.D
Acq On : 08 Dec 2025 11:44
Operator : JC/MD
Sample : VX1208WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 04:06:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1208WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/09/2025
Supervised By :Mahesh Dadoda 12/09/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.531 | 168 | 178446 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.738 | 114 | 298973 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.037 | 117 | 311271 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.000 | 152 | 157846 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.928 | 65 | 135832 | 56.713 | ug/l | -0.01 |
| Spiked Amount 50.000 | Range 78 - 117 | | Recovery = 113.420% | | | |
| 35) Dibromofluoromethane | 5.367 | 113 | 103655 | 50.354 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 100.700% | | | |
| 50) Toluene-d8 | 8.628 | 98 | 364834 | 50.560 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 92 - 112 | | Recovery = 101.120% | | | |
| 62) 4-Bromofluorobenzene | 11.061 | 95 | 146293 | 58.794 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 83 - 123 | | Recovery = 117.580% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.172 | 85 | 41301 | 22.716 | ug/l | 100 |
| 3) Chloromethane | 1.300 | 50 | 44715 | 19.489 | ug/l | 99 |
| 4) Vinyl Chloride | 1.380 | 62 | 48480 | 19.841 | ug/l | 99 |
| 5) Bromomethane | 1.617 | 94 | 33887 | 22.441 | ug/l | 96 |
| 6) Chloroethane | 1.697 | 64 | 30088 | 19.785 | ug/l | 96 |
| 7) Trichlorofluoromethane | 1.898 | 101 | 71250 | 20.345 | ug/l | 99 |
| 8) Diethyl Ether | 2.130 | 74 | 26662 | 19.074 | ug/l | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 2.337 | 101 | 39901 | 19.653 | ug/l | 97 |
| 10) Methyl Iodide | 2.453 | 142 | 50587 | 17.502 | ug/l | 97 |
| 11) Tert butyl alcohol | 2.928 | 59 | 39487 | 102.117 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.325 | 96 | 39681 | 19.150 | ug/l | 94 |
| 13) Acrolein | 2.233 | 56 | 38865 | 127.548 | ug/l | 98 |
| 14) Allyl chloride | 2.666 | 41 | 73696 | 21.184 | ug/l | 96 |
| 15) Acrylonitrile | 3.050 | 53 | 121301 | 100.674 | ug/l | 98 |
| 16) Acetone | 2.367 | 43 | 99898 | 108.954 | ug/l | 91 |
| 17) Carbon Disulfide | 2.514 | 76 | 112473 | 18.691 | ug/l | 99 |
| 18) Methyl Acetate | 2.690 | 43 | 55490 | 21.510 | ug/l | 96 |
| 19) Methyl tert-butyl Ether | 3.099 | 73 | 137477 | 20.386 | ug/l | 100 |
| 20) Methylene Chloride | 2.788 | 84 | 46445 | 20.266 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 38834 | 18.362 | ug/l | 97 |
| 22) Diisopropyl ether | 3.745 | 45 | 138676 | 21.329 | ug/l | 99 |
| 23) Vinyl Acetate | 3.709 | 43 | 614319 | 112.447 | ug/l | 95 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 75325 | 20.775 | ug/l | 99 |
| 25) 2-Butanone | 4.532 | 43 | 153848 | 113.689 | ug/l # | 89 |
| 26) 2,2-Dichloropropane | 4.452 | 77 | 65032 | 20.271 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 4.471 | 96 | 47580 | 19.937 | ug/l | 94 |
| 28) Bromochloromethane | 4.879 | 49 | 38829 | 21.849 | ug/l | 84 |
| 29) Tetrahydrofuran | 4.971 | 42 | 103797 | 100.452 | ug/l | 95 |
| 30) Chloroform | 5.068 | 83 | 78114 | 20.107 | ug/l | 93 |
| 31) Cyclohexane | 5.452 | 56 | 60315 | 18.632 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 5.361 | 97 | 69881 | 20.075 | ug/l | 96 |
| 36) 1,1-Dichloropropene | 5.672 | 75 | 50056 | 17.754 | ug/l | 99 |
| 37) Ethyl Acetate | 4.690 | 43 | 72073 | 21.393 | ug/l | 96 |
| 38) Carbon Tetrachloride | 5.659 | 117 | 61250 | 19.179 | ug/l | 93 |
| 39) Methylcyclohexane | 7.360 | 83 | 57003 | 17.098 | ug/l | 97 |
| 40) Benzene | 6.019 | 78 | 157310 | 18.821 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048745.D
Acq On : 08 Dec 2025 11:44
Operator : JC/MD
Sample : VX1208WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 04:06:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1208WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/09/2025
Supervised By :Mahesh Dadoda 12/09/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.891 | 41 | 31647 | 20.646 | ug/l | | 94 |
| 42) 1,2-Dichloroethane | 6.068 | 62 | 63162 | 21.351 | ug/l | | 93 |
| 43) Isopropyl Acetate | 6.312 | 43 | 105648 | 20.710 | ug/l | | 94 |
| 44) Trichloroethene | 7.104 | 130 | 38336 | 17.578 | ug/l | | 94 |
| 45) 1,2-Dichloropropane | 7.409 | 63 | 38148 | 18.261 | ug/l | | 99 |
| 46) Dibromomethane | 7.562 | 93 | 29948 | 18.904 | ug/l | | 95 |
| 47) Bromodichloromethane | 7.799 | 83 | 62155 | 18.818 | ug/l | | 97 |
| 48) Methyl methacrylate | 7.671 | 41 | 49411 | 19.255 | ug/l | | 94 |
| 49) 1,4-Dioxane | 7.641 | 88 | 11933 | 338.111 | ug/l | | 95 |
| 51) 4-Methyl-2-Pentanone | 8.549 | 43 | 333290 | 105.257 | ug/l | | 96 |
| 52) Toluene | 8.702 | 92 | 98537 | 19.551 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 8.958 | 75 | 62916 | 20.022 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 8.348 | 75 | 65243 | 19.320 | ug/l | | 94 |
| 55) 1,1,2-Trichloroethane | 9.134 | 97 | 44019 | 21.707 | ug/l | | 99 |
| 56) Ethyl methacrylate | 9.098 | 69 | 67147 | 21.154 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 9.287 | 76 | 69273 | 20.543 | ug/l | | 97 |
| 58) 2-Chloroethyl Vinyl ether | 8.220 | 63 | 152119 | 88.668 | ug/l | | 97 |
| 59) 2-Hexanone | 9.409 | 43 | 232393 | 104.551 | ug/l | | 98 |
| 60) Dibromochloromethane | 9.500 | 129 | 53723 | 21.424 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 9.592 | 107 | 46114 | 21.010 | ug/l | | 99 |
| 64) Tetrachloroethene | 9.256 | 164 | 37431 | 16.498 | ug/l | | 97 |
| 65) Chlorobenzene | 10.061 | 112 | 118471 | 17.388 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 10.146 | 131 | 42596 | 17.479 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.177 | 91 | 198185 | 17.826 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.281 | 106 | 155889 | 35.995 | ug/l | | 96 |
| 69) o-Xylene | 10.622 | 106 | 73460 | 18.102 | ug/l | | 97 |
| 70) Styrene | 10.634 | 104 | 126903 | 18.215 | ug/l | | 99 |
| 71) Bromoform | 10.780 | 173 | 37658 | 17.309 | ug/l | # | 99 |
| 73) Isopropylbenzene | 10.945 | 105 | 188979 | 17.766 | ug/l | | 99 |
| 74) N-amyl acetate | 10.823 | 43 | 81515 | 17.637 | ug/l | | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 11.195 | 83 | 63497 | 17.692 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.219 | 75 | 49341m | 16.783 | ug/l | | |
| 77) Bromobenzene | 11.183 | 156 | 50590 | 17.819 | ug/l | | 93 |
| 78) n-propylbenzene | 11.286 | 91 | 218787 | 17.759 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 11.347 | 91 | 131768 | 17.540 | ug/l | | 97 |
| 80) 1,3,5-Trimethylbenzene | 11.433 | 105 | 154012 | 17.615 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 11.000 | 75 | 20596 | 16.641 | ug/l | | 90 |
| 82) 4-Chlorotoluene | 11.433 | 91 | 156772 | 17.883 | ug/l | | 98 |
| 83) tert-Butylbenzene | 11.695 | 119 | 158909 | 17.491 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.732 | 105 | 158196 | 17.937 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.872 | 105 | 190539 | 17.306 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 11.988 | 119 | 164163 | 17.443 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 11.951 | 146 | 90505 | 17.292 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.024 | 146 | 92718 | 17.143 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.311 | 91 | 144814 | 16.434 | ug/l | | 99 |
| 90) Hexachloroethane | 12.518 | 117 | 30759 | 16.013 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 12.317 | 146 | 85738 | 16.897 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.920 | 75 | 13707 | 15.692 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 13.567 | 180 | 55758 | 16.638 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.707 | 225 | 21763 | 15.700 | ug/l | | 99 |
| 95) Naphthalene | 13.756 | 128 | 177703 | 20.256 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.938 | 180 | 52737 | 17.064 | ug/l | | 99 |

Sample Results: **VX048745.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048745.D
Acq On : 08 Dec 2025 11:44
Operator : JC/MD
Sample : VX1208WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 04:06:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1208WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/09/2025
Supervised By :Mahesh Dadoda 12/09/2025

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

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

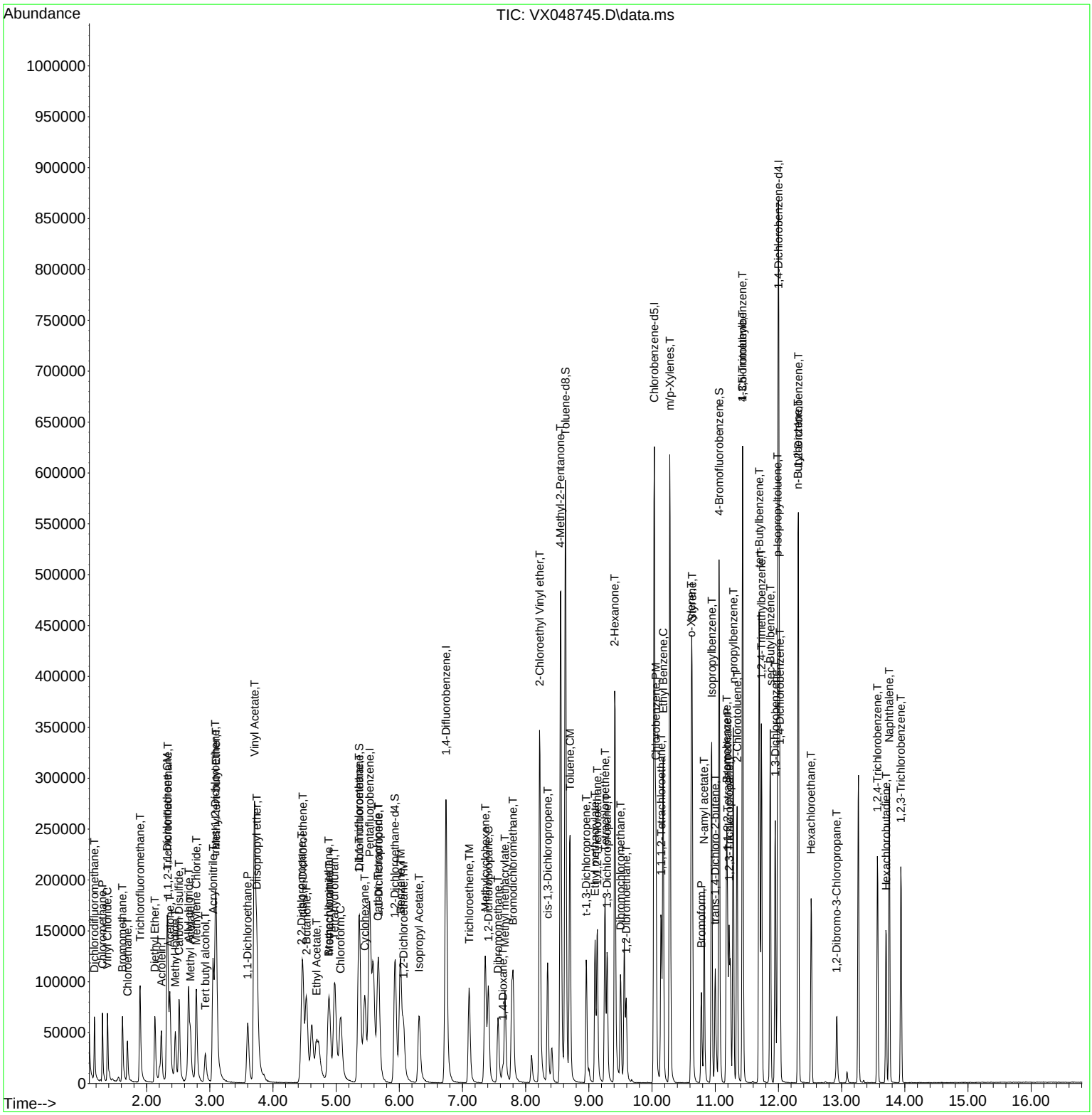
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048745.D
Acq On : 08 Dec 2025 11:44
Operator : JC/MD
Sample : VX1208WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 04:06:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX1208WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/09/2025
Supervised By :Mahesh Dadoda 12/09/2025



Raw Data: **VN088444.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | |
| Client Sample ID: | VN1204WBSD01 | SDG No.: | Q3757 |
| Lab Sample ID: | VN1204WBSD01 | Matrix: | Water |
| Analytical Method: | 8260D Level: LOW | % Solid: | 0 |
| Sample Wt/Vol: | 5 mL Final Vol: 5000 uL | Test: | VOCMS Group3 |

| CAS Number | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Date Ana. | BatchID |
|---|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | | |
| 75-01-4 | Vinyl Chloride | 19.0 | | 1 | 0.26 | 1.00 | ug/L | 12/04/25 14:45 | VN120425 |
| 75-35-4 | 1,1-Dichloroethene | 19.5 | | 1 | 0.23 | 1.00 | ug/L | 12/04/25 14:45 | VN120425 |
| 75-34-3 | 1,1-Dichloroethane | 19.7 | | 1 | 0.23 | 1.00 | ug/L | 12/04/25 14:45 | VN120425 |
| 156-59-2 | cis-1,2-Dichloroethene | 19.3 | | 1 | 0.19 | 1.00 | ug/L | 12/04/25 14:45 | VN120425 |
| 71-55-6 | 1,1,1-Trichloroethane | 20.6 | | 1 | 0.20 | 1.00 | ug/L | 12/04/25 14:45 | VN120425 |
| 71-43-2 | Benzene | 19.3 | | 1 | 0.15 | 1.00 | ug/L | 12/04/25 14:45 | VN120425 |
| 107-06-2 | 1,2-Dichloroethane | 21.6 | | 1 | 0.22 | 1.00 | ug/L | 12/04/25 14:45 | VN120425 |
| 79-01-6 | Trichloroethene | 18.7 | | 1 | 0.090 | 1.00 | ug/L | 12/04/25 14:45 | VN120425 |
| 79-00-5 | 1,1,2-Trichloroethane | 20.7 | | 1 | 0.21 | 1.00 | ug/L | 12/04/25 14:45 | VN120425 |
| 127-18-4 | Tetrachloroethene | 17.3 | | 1 | 0.23 | 1.00 | ug/L | 12/04/25 14:45 | VN120425 |
| **SURROGATES** | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 56.0 | | | 70 (74) - 130 (125) | 112% | SPK: 50 | | |
| 1868-53-7 | Dibromofluoromethane | 53.1 | | | 70 (75) - 130 (124) | 106% | SPK: 50 | | |
| 2037-26-5 | Toluene-d8 | 52.7 | | | 70 (86) - 130 (113) | 105% | SPK: 50 | | |
| 460-00-4 | 4-Bromofluorobenzene | 56.3 | | | 70 (77) - 130 (121) | 113% | SPK: 50 | | |
| **INTERNAL STANDARDS** | | **Area Count** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 291000 | | | | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 529000 | | | | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 470000 | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 230000 | | | | | | | |

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_N\Data\VN120425\
Data File : VN088444.D
Acq On : 04 Dec 2025 14:45
Operator : JC\MD
Sample : VN1204WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 05 00:15:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1204WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 290727 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.077 | 114 | 529277 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.841 | 117 | 469866 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 229597 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.559 | 65 | 306737 | 56.007 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 112.020% | | | |
| 35) Dibromofluoromethane | 8.147 | 113 | 194821 | 53.116 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 106.240% | | | |
| 50) Toluene-d8 | 10.541 | 98 | 719265 | 52.704 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 105.400% | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 263766 | 56.328 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 112.660% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.142 | 85 | 87020 | 19.928 | ug/l | 94 |
| 3) Chloromethane | 2.383 | 50 | 84956 | 18.114 | ug/l | 97 |
| 4) Vinyl Chloride | 2.536 | 62 | 90740 | 19.018 | ug/l | 96 |
| 5) Bromomethane | 2.983 | 94 | 43017 | 18.733 | ug/l | 94 |
| 6) Chloroethane | 3.148 | 64 | 55928 | 18.942 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.518 | 101 | 138107 | 20.595 | ug/l | 99 |
| 8) Diethyl Ether | 3.965 | 74 | 49843 | 19.803 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 4.377 | 101 | 71554 | 20.043 | ug/l | 99 |
| 10) Methyl Iodide | 4.589 | 142 | 65248 | 18.463 | ug/l | 95 |
| 11) Tert butyl alcohol | 5.518 | 59 | 80431 | 91.985 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 69022 | 19.460 | ug/l | 96 |
| 13) Acrolein | 4.177 | 56 | 94599 | 113.005 | ug/l | 99 |
| 14) Allyl chloride | 5.012 | 41 | 126430 | 19.231 | ug/l | 98 |
| 15) Acrylonitrile | 5.706 | 53 | 250738 | 99.389 | ug/l | 98 |
| 16) Acetone | 4.424 | 43 | 191583 | 96.727 | ug/l | 95 |
| 17) Carbon Disulfide | 4.706 | 76 | 214025 | 18.466 | ug/l | 99 |
| 18) Methyl Acetate | 5.018 | 43 | 126740 | 21.497 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.783 | 73 | 277962 | 20.917 | ug/l | 100 |
| 20) Methylene Chloride | 5.265 | 84 | 79618 | 18.788 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.771 | 96 | 74638 | 18.996 | ug/l | 84 |
| 22) Diisopropyl ether | 6.659 | 45 | 291659 | 20.780 | ug/l | 97 |
| 23) Vinyl Acetate | 6.589 | 43 | 1291270 | 114.189 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.553 | 63 | 156380 | 19.675 | ug/l | 99 |
| 25) 2-Butanone | 7.465 | 43 | 318927 | 100.161 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 7.471 | 77 | 138156 | 20.137 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.471 | 96 | 88188 | 19.313 | ug/l | 96 |
| 28) Bromochloromethane | 7.800 | 49 | 73205 | 18.489 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.824 | 42 | 234483 | 102.668 | ug/l | 98 |
| 30) Chloroform | 7.947 | 83 | 157238 | 20.133 | ug/l | 93 |
| 31) Cyclohexane | 8.241 | 56 | 140672 | 19.530 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 8.147 | 97 | 141532 | 20.610 | ug/l | 94 |
| 36) 1,1-Dichloropropene | 8.353 | 75 | 108661 | 19.196 | ug/l | 99 |
| 37) Ethyl Acetate | 7.547 | 43 | 150629 | 20.237 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.341 | 117 | 114598 | 20.336 | ug/l | 98 |
| 39) Methylcyclohexane | 9.577 | 83 | 114089 | 18.842 | ug/l | 97 |
| 40) Benzene | 8.588 | 78 | 320551 | 19.294 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088444.D
Acq On : 04 Dec 2025 14:45
Operator : JC\MD
Sample : VN1204WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 05 00:15:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1204WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.765 | 41 | 76908 | 20.862 | ug/l | | 96 |
| 42) 1,2-Dichloroethane | 8.653 | 62 | 136648 | 21.558 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.671 | 43 | 226089 | 19.881 | ug/l | | 98 |
| 44) Trichloroethene | 9.330 | 130 | 73312 | 18.675 | ug/l | | 89 |
| 45) 1,2-Dichloropropane | 9.600 | 63 | 83457 | 19.606 | ug/l | | 90 |
| 46) Dibromomethane | 9.688 | 93 | 61573 | 20.269 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.865 | 83 | 126000 | 20.328 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.659 | 41 | 106808 | 20.584 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.682 | 88 | 23459 | 355.507 | ug/l | # | 99 |
| 51) 4-Methyl-2-Pentanone | 10.424 | 43 | 707725 | 105.581 | ug/l | | 99 |
| 52) Toluene | 10.606 | 92 | 192863 | 20.104 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.812 | 75 | 127987 | 20.116 | ug/l | | 93 |
| 54) cis-1,3-Dichloropropene | 10.288 | 75 | 132808 | 19.849 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.994 | 97 | 76705 | 20.666 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.859 | 69 | 126407 | 21.560 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 11.141 | 76 | 138389 | 20.668 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 10.141 | 63 | 320414 | 94.794 | ug/l | | 98 |
| 59) 2-Hexanone | 11.177 | 43 | 425614 | 100.793 | ug/l | | 96 |
| 60) Dibromochloromethane | 11.335 | 129 | 88166 | 20.837 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.447 | 107 | 78440 | 20.870 | ug/l | | 99 |
| 64) Tetrachloroethene | 11.082 | 164 | 64323 | 17.268 | ug/l | | 97 |
| 65) Chlorobenzene | 11.871 | 112 | 208506 | 19.756 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.935 | 131 | 71468 | 20.077 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.941 | 91 | 364543 | 19.762 | ug/l | | 98 |
| 68) m/p-Xylenes | 12.047 | 106 | 273590 | 40.003 | ug/l | | 97 |
| 69) o-Xylene | 12.376 | 106 | 129944 | 19.929 | ug/l | | 100 |
| 70) Styrene | 12.388 | 104 | 216021 | 20.404 | ug/l | | 98 |
| 71) Bromoform | 12.559 | 173 | 53817 | 20.641 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.671 | 105 | 347231 | 20.454 | ug/l | | 98 |
| 74) N-amyl acetate | 12.682 | 43 | 111327m | 19.256 | ug/l | | |
| 75) 1,1,2,2-Tetrachloroethane | 12.918 | 83 | 111054 | 20.235 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.971 | 75 | 113801m | 21.162 | ug/l | | |
| 77) Bromobenzene | 12.959 | 156 | 77652 | 19.992 | ug/l | | 96 |
| 78) n-propylbenzene | 13.012 | 91 | 421199 | 20.281 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 13.106 | 91 | 253171 | 19.962 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 13.153 | 105 | 281269 | 19.995 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.718 | 75 | 35239 | 18.590 | ug/l | # | 93 |
| 82) 4-Chlorotoluene | 13.200 | 91 | 267452 | 21.232 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.412 | 119 | 239926 | 20.064 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.459 | 105 | 286265 | 20.474 | ug/l | | 97 |
| 85) sec-Butylbenzene | 13.594 | 105 | 344400 | 20.048 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.706 | 119 | 283564 | 20.130 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.712 | 146 | 148014 | 19.576 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.788 | 146 | 152072 | 19.200 | ug/l | | 96 |
| 89) n-Butylbenzene | 14.035 | 91 | 267202 | 19.536 | ug/l | | 97 |
| 90) Hexachloroethane | 14.312 | 117 | 48757 | 18.947 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 14.082 | 146 | 144112 | 20.254 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.694 | 75 | 26992 | 20.271 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.364 | 180 | 81616 | 19.305 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.470 | 225 | 27309 | 17.976 | ug/l | | 94 |
| 95) Naphthalene | 15.612 | 128 | 302681 | 20.661 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.812 | 180 | 77952 | 18.946 | ug/l | | 96 |

Sample Results: **VN088444.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088444.D
Acq On : 04 Dec 2025 14:45
Operator : JC\MD
Sample : VN1204WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 05 00:15:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1204WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

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

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

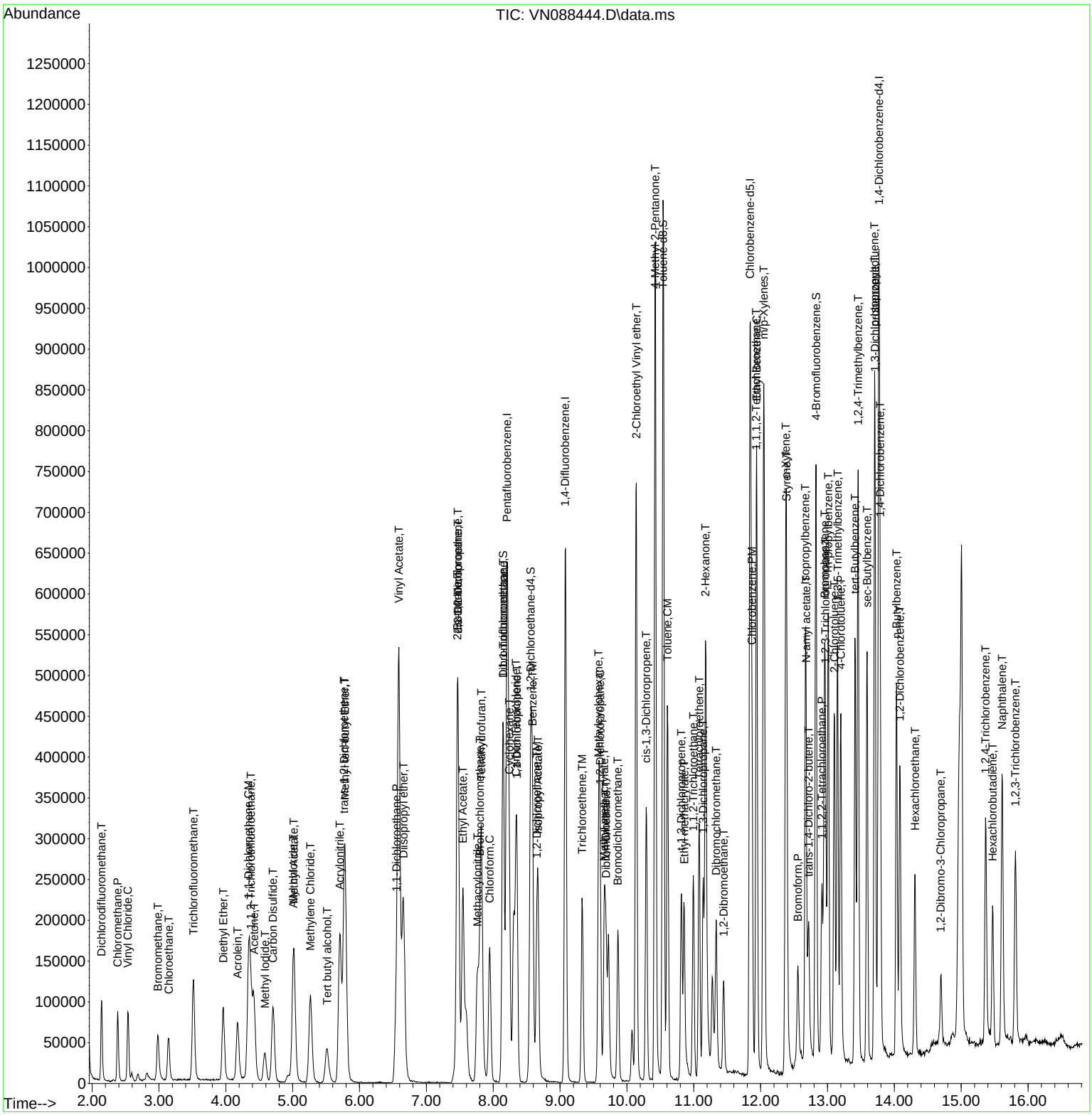
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088444.D
Acq On : 04 Dec 2025 14:45
Operator : JC\MD
Sample : VN1204WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 05 00:15:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN1204WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025



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

# Manual Integration Report

| Sequence: | VN112425 | Instrument | MSVOA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC001 | VN088344.D | 1,1-Dichloroethene | JOHN | 11/25/2025 9:35:55 AM | MMDadoda | 11/26/2025 1:51:48 PM | Peak Integrated by Software |
| VSTDICC001 | VN088344.D | 1,2,3-Trichloropropane | JOHN | 11/25/2025 9:35:55 AM | MMDadoda | 11/26/2025 1:51:48 PM | Peak Integrated by Software |
| VSTDICC001 | VN088344.D | 1,4-Dichlorobenzene | JOHN | 11/25/2025 9:35:55 AM | MMDadoda | 11/26/2025 1:51:48 PM | Peak Integrated by Software |
| VSTDICC001 | VN088344.D | 2-Hexanone | JOHN | 11/25/2025 9:35:55 AM | MMDadoda | 11/26/2025 1:51:48 PM | Peak Integrated by Software |
| VSTDICC001 | VN088344.D | cis-1,2-Dichloroethene | JOHN | 11/25/2025 9:35:55 AM | MMDadoda | 11/26/2025 1:51:48 PM | Peak Integrated by Software |
| VSTDICC001 | VN088344.D | Diisopropyl ether | JOHN | 11/25/2025 9:35:55 AM | MMDadoda | 11/26/2025 1:51:48 PM | Peak Integrated by Software |
| VSTDICC005 | VN088345.D | 1,2,3-Trichloropropane | JOHN | 11/25/2025 9:36:00 AM | MMDadoda | 11/26/2025 1:51:51 PM | Peak Integrated by Software |
| VSTDICC005 | VN088345.D | Vinyl Acetate | JOHN | 11/25/2025 9:36:00 AM | MMDadoda | 11/26/2025 1:51:51 PM | Peak Integrated by Software |
| VSTDICC020 | VN088346.D | 1,2,3-Trichloropropane | JOHN | 11/25/2025 9:36:04 AM | MMDadoda | 11/26/2025 1:51:55 PM | Peak Integrated by Software |
| VSTDICC020 | VN088346.D | N-amyl acetate | JOHN | 11/25/2025 9:36:04 AM | MMDadoda | 11/26/2025 1:51:55 PM | Peak Integrated by Software |
| VSTDICC020 | VN088346.D | Vinyl Acetate | JOHN | 11/25/2025 9:36:04 AM | MMDadoda | 11/26/2025 1:51:55 PM | Peak Integrated by Software |
| VSTDICCC050 | VN088347.D | 1,2,3-Trichloropropane | JOHN | 11/25/2025 9:36:10 AM | MMDadoda | 11/26/2025 1:51:58 PM | Peak Integrated by Software |
| VSTDICCC050 | VN088347.D | Vinyl Acetate | JOHN | 11/25/2025 9:36:10 AM | MMDadoda | 11/26/2025 1:51:58 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VN112425 | Instrument | MSVOA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC100 | VN088348.D | 1,2,3-Trichloropropane | JOHN | 11/25/2025 9:36:15 AM | MMDadoda | 11/26/2025 1:52:01 PM | Peak Integrated by Software |
| VSTDICC100 | VN088348.D | Allyl chloride | JOHN | 11/25/2025 9:36:15 AM | MMDadoda | 11/26/2025 1:52:01 PM | Peak Integrated by Software |
| VSTDICC100 | VN088348.D | Vinyl Acetate | JOHN | 11/25/2025 9:36:15 AM | MMDadoda | 11/26/2025 1:52:01 PM | Peak Integrated by Software |
| VSTDICC150 | VN088349.D | 1,2,3-Trichloropropane | JOHN | 11/25/2025 9:36:20 AM | MMDadoda | 11/26/2025 1:52:04 PM | Peak Integrated by Software |
| VSTDICC150 | VN088349.D | Allyl chloride | JOHN | 11/25/2025 9:36:20 AM | MMDadoda | 11/26/2025 1:52:04 PM | Peak Integrated by Software |
| VSTDICC150 | VN088349.D | Vinyl Acetate | JOHN | 11/25/2025 9:36:20 AM | MMDadoda | 11/26/2025 1:52:04 PM | Peak Integrated by Software |
| VSTDICV050 | VN088351.D | 1,2,3-Trichloropropane | JOHN | 11/25/2025 9:36:25 AM | MMDadoda | 11/26/2025 1:52:07 PM | Peak Integrated by Software |
| VSTDICV050 | VN088351.D | N-amyl acetate | JOHN | 11/25/2025 9:36:25 AM | MMDadoda | 11/26/2025 1:52:07 PM | Peak Integrated by Software |
| VSTDICV050 | VN088351.D | Vinyl Acetate | JOHN | 11/25/2025 9:36:25 AM | MMDadoda | 11/26/2025 1:52:07 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VN120425 | Instrument | MSVOA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VN088437.D | 1,2,3-Trichloropropane | JOHN | 12/5/2025 8:18:14 AM | sam | 12/5/2025 2:18:25 PM | Peak Integrated by Software |
| VSTDCCC050 | VN088437.D | N-amyl acetate | JOHN | 12/5/2025 8:18:14 AM | sam | 12/5/2025 2:18:25 PM | Peak Integrated by Software |
| VN1204WBS01 | VN088443.D | 1,2,3-Trichloropropane | JOHN | 12/5/2025 8:18:23 AM | sam | 12/5/2025 2:18:38 PM | Peak Integrated by Software |
| VN1204WBS01 | VN088443.D | N-amyl acetate | JOHN | 12/5/2025 8:18:23 AM | sam | 12/5/2025 2:18:38 PM | Peak Integrated by Software |
| VN1204WBSD01 | VN088444.D | 1,2,3-Trichloropropane | JOHN | 12/5/2025 8:18:28 AM | sam | 12/5/2025 2:18:43 PM | Peak Integrated by Software |
| VN1204WBSD01 | VN088444.D | N-amyl acetate | JOHN | 12/5/2025 8:18:28 AM | sam | 12/5/2025 2:18:43 PM | Peak Integrated by Software |
| Q3757-11 | VN088450.D | Acetone | JOHN | 12/5/2025 8:18:38 AM | sam | 12/5/2025 2:19:00 PM | Peak Integrated by Software |
| VSTDCCC050 | VN088461.D | 1,2,3-Trichloropropane | JOHN | 12/5/2025 8:18:43 AM | sam | 12/5/2025 2:18:57 PM | Peak Integrated by Software |
| VSTDCCC050 | VN088461.D | N-amyl acetate | JOHN | 12/5/2025 8:18:43 AM | sam | 12/5/2025 2:18:57 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VX120425 | Instrument | MSVOA_x |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC001 | VX048714.D | 1,2,3-Trichloropropane | JOHN | 12/5/2025 8:04:03 AM | sam | 12/5/2025 2:19:32 PM | Peak Integrated by Software |
| VSTDICC001 | VX048714.D | 1,4-Dichlorobenzene | JOHN | 12/5/2025 8:04:03 AM | sam | 12/5/2025 2:19:32 PM | Peak Integrated by Software |
| VSTDICC001 | VX048714.D | Ethyl Acetate | JOHN | 12/5/2025 8:04:03 AM | sam | 12/5/2025 2:19:32 PM | Peak Integrated by Software |
| VSTDICC005 | VX048715.D | 1,2,3-Trichloropropane | JOHN | 12/5/2025 8:04:10 AM | sam | 12/5/2025 2:19:37 PM | Peak Integrated by Software |
| VSTDICC005 | VX048715.D | 1,2-Dichloroethane-d4 | JOHN | 12/5/2025 8:04:10 AM | sam | 12/5/2025 2:19:37 PM | Peak Integrated by Software |
| VSTDICC005 | VX048715.D | 4-Bromofluorobenzene | JOHN | 12/5/2025 8:04:10 AM | sam | 12/5/2025 2:19:37 PM | Peak Integrated by Software |
| VSTDICC005 | VX048715.D | Acrolein | JOHN | 12/5/2025 8:04:10 AM | sam | 12/5/2025 2:19:37 PM | Peak Integrated by Software |
| VSTDICC005 | VX048715.D | Bromomethane | JOHN | 12/5/2025 8:04:10 AM | sam | 12/5/2025 2:19:37 PM | Peak Integrated by Software |
| VSTDICC005 | VX048715.D | Cyclohexane | JOHN | 12/5/2025 8:04:10 AM | sam | 12/5/2025 2:19:37 PM | Peak Integrated by Software |
| VSTDICC005 | VX048715.D | Dibromofluoromethane | JOHN | 12/5/2025 8:04:10 AM | sam | 12/5/2025 2:19:37 PM | Peak Integrated by Software |
| VSTDICC005 | VX048715.D | Ethyl Acetate | JOHN | 12/5/2025 8:04:10 AM | sam | 12/5/2025 2:19:37 PM | Peak Integrated by Software |
| VSTDICC005 | VX048715.D | Methyl Acetate | JOHN | 12/5/2025 8:04:10 AM | sam | 12/5/2025 2:19:37 PM | Peak Integrated by Software |
| VSTDICC005 | VX048715.D | Methyl Iodide | JOHN | 12/5/2025 8:04:10 AM | sam | 12/5/2025 2:19:37 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VX120425 | Instrument | MSVOA_x |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC005 | VX048715.D | Tert butyl alcohol | JOHN | 12/5/2025 8:04:10 AM | sam | 12/5/2025 2:19:37 PM | Peak Integrated by Software |
| VSTDICC005 | VX048715.D | Toluene-d8 | JOHN | 12/5/2025 8:04:10 AM | sam | 12/5/2025 2:19:37 PM | Peak Integrated by Software |
| VSTDICC005 | VX048715.D | trans-1,4-Dichloro-2-but ene | JOHN | 12/5/2025 8:04:10 AM | sam | 12/5/2025 2:19:37 PM | Peak Integrated by Software |
| VSTDICC020 | VX048716.D | 1,2,3-Trichloropropane | JOHN | 12/5/2025 8:04:16 AM | sam | 12/5/2025 2:19:42 PM | Peak Integrated by Software |
| VSTDICCC050 | VX048717.D | 1,2,3-Trichloropropane | JOHN | 12/5/2025 8:04:22 AM | sam | 12/5/2025 2:20:03 PM | Peak Integrated by Software |
| VSTDICC100 | VX048718.D | 1,2,3-Trichloropropane | JOHN | 12/5/2025 8:04:27 AM | sam | 12/5/2025 2:19:47 PM | Peak Integrated by Software |
| VSTDICC150 | VX048719.D | 1,2,3-Trichloropropane | JOHN | 12/5/2025 8:04:32 AM | sam | 12/5/2025 2:20:07 PM | Peak Integrated by Software |
| VSTDICV050 | VX048721.D | 1,2,3-Trichloropropane | JOHN | 12/5/2025 8:04:41 AM | sam | 12/5/2025 2:19:52 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VX120525 | Instrument | MSVOA_x |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VX048723.D | 1,2,3-Trichloropropane | JOHN | 12/8/2025 8:07:20 AM | sam | 12/8/2025 11:02:20 AM | Peak Integrated by Software |
| VX1205WBS01 | VX048726.D | 1,2,3-Trichloropropane | JOHN | 12/8/2025 8:07:25 AM | sam | 12/8/2025 11:02:26 AM | Peak Integrated by Software |
| VSTDCCC050 | VX048740.D | 1,2,3-Trichloropropane | JOHN | 12/8/2025 8:07:34 AM | sam | 12/8/2025 11:02:36 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VX120825 | Instrument | MSVOA_x |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VX048742.D | 1,2,3-Trichloropropane | JOHN | 12/9/2025 8:06:28 AM | MMDadoda | 12/9/2025 12:23:37 PM | Peak Integrated by Software |
| VX1208WBS01 | VX048745.D | 1,2,3-Trichloropropane | JOHN | 12/9/2025 8:06:33 AM | MMDadoda | 12/9/2025 12:23:40 PM | Peak Integrated by Software |
| VSTDCCC050 | VX048766.D | 1,2,3-Trichloropropane | JOHN | 12/9/2025 8:06:52 AM | MMDadoda | 12/9/2025 12:23:58 PM | Peak Integrated by Software |

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**Instrument ID: MSVOA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # VN112425

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 11/25/2025 9:36:43 AM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 11/26/2025 1:52:19 PM | | | | |
| SubDirectory | VN112425 | HP Acquire Method | MSVOA_N | | HP Processing Method | 82N112425W.M | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136378 |
| Initial Calibration Stds | VP136444,VP136445,VP136446,VP136447,VP136448,VP136449 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP136450 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VN088343.D | 24 Nov 2025 08:17 | JC\MD | Ok |
| 2 | VSTDICC001 | VN088344.D | 24 Nov 2025 12:38 | JC\MD | Ok,M |
| 3 | VSTDICC005 | VN088345.D | 24 Nov 2025 13:11 | JC\MD | Ok,M |
| 4 | VSTDICC020 | VN088346.D | 24 Nov 2025 13:32 | JC\MD | Ok,M |
| 5 | VSTDICCC050 | VN088347.D | 24 Nov 2025 13:53 | JC\MD | Ok,M |
| 6 | VSTDICC100 | VN088348.D | 24 Nov 2025 14:14 | JC\MD | Ok,M |
| 7 | VSTDICC150 | VN088349.D | 24 Nov 2025 14:35 | JC\MD | Ok,M |
| 8 | IBLK | VN088350.D | 24 Nov 2025 14:56 | JC\MD | Ok |
| 9 | VSTDICV050 | VN088351.D | 24 Nov 2025 15:18 | JC\MD | Ok,M |

M : Manual Integration

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**Instrument ID: MSVOA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # VN120425

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 12/5/2025 8:23:32 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/5/2025 2:14:29 PM | | |
| SubDirectory | VN120425 | HP Acquire Method | | HP Processing Method | 82N112425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136505 |
| Initial Calibration Stds | |
| CCC | VP136506,VP136507 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VN088436.D | 04 Dec 2025 11:03 | JC\MD | Ok |
| 2 | VSTDCCC050 | VN088437.D | 04 Dec 2025 11:44 | JC\MD | Ok,M |
| 3 | VN1204MBL01 | VN088438.D | 04 Dec 2025 12:17 | JC\MD | Ok |
| 4 | VN1204WBL01 | VN088439.D | 04 Dec 2025 12:38 | JC\MD | Ok |
| 5 | VN1204MBS01 | VN088440.D | 04 Dec 2025 13:11 | JC\MD | Ok,M |
| 6 | Q3768-01 | VN088441.D | 04 Dec 2025 13:31 | JC\MD | Not Ok |
| 7 | IBLK | VN088442.D | 04 Dec 2025 13:52 | JC\MD | Ok |
| 8 | VN1204WBS01 | VN088443.D | 04 Dec 2025 14:12 | JC\MD | Ok,M |
| 9 | VN1204WBSD01 | VN088444.D | 04 Dec 2025 14:45 | JC\MD | Ok,M |
| 10 | Q3756-03 | VN088445.D | 04 Dec 2025 15:06 | JC\MD | Ok |
| 11 | Q3756-01 | VN088446.D | 04 Dec 2025 15:26 | JC\MD | Ok |
| 12 | Q3756-05 | VN088447.D | 04 Dec 2025 15:47 | JC\MD | Ok |
| 13 | Q3756-07 | VN088448.D | 04 Dec 2025 16:07 | JC\MD | Ok |
| 14 | Q3757-12 | VN088449.D | 04 Dec 2025 16:28 | JC\MD | Ok |
| 15 | Q3757-11 | VN088450.D | 04 Dec 2025 16:48 | JC\MD | Ok,M |
| 16 | Q3757-01 | VN088451.D | 04 Dec 2025 17:09 | JC\MD | Not Ok |
| 17 | Q3757-03 | VN088452.D | 04 Dec 2025 17:29 | JC\MD | Not Ok |
| 18 | Q3757-05 | VN088453.D | 04 Dec 2025 17:50 | JC\MD | Not Ok |
| 19 | Q3757-07 | VN088454.D | 04 Dec 2025 18:10 | JC\MD | Not Ok |
| 20 | Q3757-09 | VN088455.D | 04 Dec 2025 18:31 | JC\MD | Not Ok |
| 21 | Q3750-07 | VN088456.D | 04 Dec 2025 18:51 | JC\MD | Ok |

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**Instrument ID: MSVOA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # VN120425

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 12/5/2025 8:23:32 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/5/2025 2:14:29 PM | | |
| SubDirectory | VN120425 | HP Acquire Method | | HP Processing Method | 82N112425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136505 |
| Initial Calibration Stds | |
| CCC | VP136506,VP136507 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q3750-08 | VN088457.D | 04 Dec 2025 19:11 | JC\MD | Ok |
| 23 | PB170809TB | VN088458.D | 04 Dec 2025 19:32 | JC\MD | Ok |
| 24 | Q3775-01 | VN088459.D | 04 Dec 2025 19:52 | JC\MD | Not Ok |
| 25 | IBLK | VN088460.D | 04 Dec 2025 20:13 | JC\MD | Ok |
| 26 | VSTDCCC050 | VN088461.D | 04 Dec 2025 20:33 | JC\MD | Ok,M |

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX120425

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 12/5/2025 8:05:59 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/5/2025 2:14:46 PM | | |
| SubDirectory | VX120425 | HP Acquire Method | | HP Processing Method | 82X120425 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136497 |
| Initial Calibration Stds | VP136526,VP136527,VP136528,VP136529,VP136530,VP136531 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP136532 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VX048713.D | 04 Dec 2025 08:15 | JC/MD | Ok |
| 2 | VSTDICC001 | VX048714.D | 04 Dec 2025 08:47 | JC/MD | Ok,M |
| 3 | VSTDICC005 | VX048715.D | 04 Dec 2025 09:16 | JC/MD | Ok,M |
| 4 | VSTDICC020 | VX048716.D | 04 Dec 2025 09:36 | JC/MD | Ok,M |
| 5 | VSTDICCC050 | VX048717.D | 04 Dec 2025 09:57 | JC/MD | Ok,M |
| 6 | VSTDICC100 | VX048718.D | 04 Dec 2025 10:17 | JC/MD | Ok,M |
| 7 | VSTDICC150 | VX048719.D | 04 Dec 2025 10:38 | JC/MD | Ok,M |
| 8 | IBLK | VX048720.D | 04 Dec 2025 10:58 | JC/MD | Ok |
| 9 | VSTDICV050 | VX048721.D | 04 Dec 2025 14:04 | JC/MD | Ok,M |

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX120525

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 12/8/2025 8:24:07 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/8/2025 11:02:48 AM | | |
| SubDirectory | VX120525 | HP Acquire Method | | HP Processing Method | 82X120425 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136523 |
| Initial Calibration Stds | |
| CCC | VP136524,VP136525 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VX048722.D | 05 Dec 2025 08:14 | JC/MD | Ok |
| 2 | VSTDCCC050 | VX048723.D | 05 Dec 2025 08:45 | JC/MD | Ok,M |
| 3 | VX1205MBL01 | VX048724.D | 05 Dec 2025 09:14 | JC/MD | Ok |
| 4 | VX1205WBL01 | VX048725.D | 05 Dec 2025 10:34 | JC/MD | Ok |
| 5 | VX1205WBS01 | VX048726.D | 05 Dec 2025 11:31 | JC/MD | Ok,M |
| 6 | VX1205WBSD01 | VX048727.D | 05 Dec 2025 11:59 | JC/MD | Ok,M |
| 7 | Q3775-01 | VX048728.D | 05 Dec 2025 12:20 | JC/MD | ReRun |
| 8 | Q3775-01RE | VX048729.D | 05 Dec 2025 12:50 | JC/MD | Confirms |
| 9 | IBLK | VX048730.D | 05 Dec 2025 13:10 | JC/MD | Ok |
| 10 | Q3757-01 | VX048731.D | 05 Dec 2025 13:32 | JC/MD | Ok |
| 11 | Q3757-03 | VX048732.D | 05 Dec 2025 13:53 | JC/MD | Ok |
| 12 | Q3757-05 | VX048733.D | 05 Dec 2025 14:13 | JC/MD | ReRun |
| 13 | Q3757-07 | VX048734.D | 05 Dec 2025 14:33 | JC/MD | Ok |
| 14 | Q3757-09 | VX048735.D | 05 Dec 2025 14:54 | JC/MD | ReRun |
| 15 | Q3789-01 | VX048736.D | 05 Dec 2025 15:14 | JC/MD | Ok |
| 16 | Q3789-02 | VX048737.D | 05 Dec 2025 15:35 | JC/MD | Ok |
| 17 | Q3789-03 | VX048738.D | 05 Dec 2025 15:55 | JC/MD | ReRun |
| 18 | Q3789-04 | VX048739.D | 05 Dec 2025 16:15 | JC/MD | ReRun |
| 19 | VSTDCCC050 | VX048740.D | 05 Dec 2025 16:36 | JC/MD | Ok,M |

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX120825

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 12/9/2025 8:11:51 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 12/9/2025 12:45:16 PM | | |
| SubDirectory | VX120825 | HP Acquire Method | | HP Processing Method | 82X120425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136561 |
| Initial Calibration Stds | |
| CCC | VP136570,VP136571 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VX048741.D | 08 Dec 2025 08:17 | JC/MD | Ok |
| 2 | VSTDCCC050 | VX048742.D | 08 Dec 2025 09:20 | JC/MD | Ok,M |
| 3 | VX1208MBL01 | VX048743.D | 08 Dec 2025 09:49 | JC/MD | Ok |
| 4 | VX1208WBL01 | VX048744.D | 08 Dec 2025 11:15 | JC/MD | Ok |
| 5 | VX1208WBS01 | VX048745.D | 08 Dec 2025 11:44 | JC/MD | Ok,M |
| 6 | VX1208WBSD01 | VX048746.D | 08 Dec 2025 12:12 | JC/MD | Ok,M |
| 7 | Q3757-05RE | VX048747.D | 08 Dec 2025 12:33 | JC/MD | Confirms |
| 8 | Q3757-09RE | VX048748.D | 08 Dec 2025 12:53 | JC/MD | Confirms |
| 9 | Q3787-01 | VX048749.D | 08 Dec 2025 13:14 | JC/MD | Ok |
| 10 | Q3787-02MS | VX048750.D | 08 Dec 2025 13:35 | JC/MD | Not Ok |
| 11 | Q3787-03MSD | VX048751.D | 08 Dec 2025 13:55 | JC/MD | Not Ok |
| 12 | Q3787-07 | VX048752.D | 08 Dec 2025 14:16 | JC/MD | ReRun |
| 13 | Q3787-09 | VX048753.D | 08 Dec 2025 14:36 | JC/MD | ReRun |
| 14 | Q3787-11 | VX048754.D | 08 Dec 2025 14:57 | JC/MD | ReRun |
| 15 | Q3787-13 | VX048755.D | 08 Dec 2025 15:18 | JC/MD | ReRun |
| 16 | Q3787-15 | VX048756.D | 08 Dec 2025 15:38 | JC/MD | Ok |
| 17 | Q3787-17 | VX048757.D | 08 Dec 2025 15:59 | JC/MD | ReRun |
| 18 | Q3787-19 | VX048758.D | 08 Dec 2025 16:19 | JC/MD | ReRun |
| 19 | Q3787-21 | VX048759.D | 08 Dec 2025 16:40 | JC/MD | ReRun |
| 20 | Q3788-07 | VX048760.D | 08 Dec 2025 17:00 | JC/MD | ReRun |
| 21 | Q3788-09 | VX048761.D | 08 Dec 2025 17:21 | JC/MD | ReRun |

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX120825

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 12/9/2025 8:11:51 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 12/9/2025 12:45:16 PM | | |
| SubDirectory | VX120825 | HP Acquire Method | | HP Processing Method | 82X120425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136561 |
| Initial Calibration Stds | |
| CCC | VP136570,VP136571 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q3788-11 | VX048762.D | 08 Dec 2025 17:41 | JC/MD | ReRun |
| 23 | Q3788-13 | VX048763.D | 08 Dec 2025 18:02 | JC/MD | Ok |
| 24 | Q3787-02MS | VX048764.D | 08 Dec 2025 18:22 | JC/MD | Ok,M |
| 25 | Q3787-03MSD | VX048765.D | 08 Dec 2025 18:43 | JC/MD | Ok,M |
| 26 | VSTDCCC050 | VX048766.D | 08 Dec 2025 19:03 | JC/MD | Ok,M |

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**Instrument ID:** MSVOA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN112425

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 11/25/2025 9:36:43 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 11/26/2025 1:52:19 PM | | |
| SubDirectory | VN112425 | HP Acquire Method | MSVOA_N | HP Processing Method | 82N112425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136378 |
| Initial Calibration Stds | VP136444,VP136445,VP136446,VP136447,VP136448,VP136449 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP136450 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VN088343.D | 24 Nov 2025 08:17 | | JC\MD | Ok |
| 2 | VSTDICC001 | VSTDICC001 | VN088344.D | 24 Nov 2025 12:38 | | JC\MD | Ok,M |
| 3 | VSTDICC005 | VSTDICC005 | VN088345.D | 24 Nov 2025 13:11 | COM.#74 Peak not detected in 1 and 5 PPB | JC\MD | Ok,M |
| 4 | VSTDICC020 | VSTDICC020 | VN088346.D | 24 Nov 2025 13:32 | | JC\MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VN088347.D | 24 Nov 2025 13:53 | Method failed for Comp. #74 | JC\MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VN088348.D | 24 Nov 2025 14:14 | | JC\MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VN088349.D | 24 Nov 2025 14:35 | | JC\MD | Ok,M |
| 8 | IBLK | IBLK | VN088350.D | 24 Nov 2025 14:56 | | JC\MD | Ok |
| 9 | VSTDICV050 | ICVVN112425 | VN088351.D | 24 Nov 2025 15:18 | | JC\MD | Ok,M |

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**Instrument ID:** MSVOA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN120425

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 12/5/2025 8:23:32 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/5/2025 2:14:29 PM | | |
| SubDirectory | VN120425 | HP Acquire Method | | HP Processing Method | 82N112425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136505 |
| Initial Calibration Stds | |
| CCC | VP136506,VP136507 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VN088436.D | 04 Dec 2025 11:03 | | JC\MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VN088437.D | 04 Dec 2025 11:44 | pH#Lot#V12668 | JC\MD | Ok,M |
| 3 | VN1204MBL01 | VN1204MBL01 | VN088438.D | 04 Dec 2025 12:17 | | JC\MD | Ok |
| 4 | VN1204WBL01 | VN1204WBL01 | VN088439.D | 04 Dec 2025 12:38 | | JC\MD | Ok |
| 5 | VN1204MBS01 | VN1204MBS01 | VN088440.D | 04 Dec 2025 13:11 | | JC\MD | Ok,M |
| 6 | Q3768-01 | 20071 | VN088441.D | 04 Dec 2025 13:31 | Need Soil Run | JC\MD | Not Ok |
| 7 | IBLK | IBLK | VN088442.D | 04 Dec 2025 13:52 | | JC\MD | Ok |
| 8 | VN1204WBS01 | VN1204WBS01 | VN088443.D | 04 Dec 2025 14:12 | | JC\MD | Ok,M |
| 9 | VN1204WBSD01 | VN1204WBSD01 | VN088444.D | 04 Dec 2025 14:45 | | JC\MD | Ok,M |
| 10 | Q3756-03 | BR-01-190-120225 | VN088445.D | 04 Dec 2025 15:06 | vial A pH<2 | JC\MD | Ok |
| 11 | Q3756-01 | OW-04B-26.5-120225 | VN088446.D | 04 Dec 2025 15:26 | vial A pH<2 | JC\MD | Ok |
| 12 | Q3756-05 | MW-04-12-120225 | VN088447.D | 04 Dec 2025 15:47 | vial A pH<2 | JC\MD | Ok |
| 13 | Q3756-07 | MW-13B-47.5-120225 | VN088448.D | 04 Dec 2025 16:07 | vial A pH<2 | JC\MD | Ok |
| 14 | Q3757-12 | TB01-120325 | VN088449.D | 04 Dec 2025 16:28 | vial A pH<2 TB | JC\MD | Ok |
| 15 | Q3757-11 | EB01-120325 | VN088450.D | 04 Dec 2025 16:48 | vial A pH<2 EB | JC\MD | Ok,M |
| 16 | Q3757-01 | MW-14A-17.5-120325 | VN088451.D | 04 Dec 2025 17:09 | Need Straight Run | JC\MD | Not Ok |
| 17 | Q3757-03 | BR-03D-490-120325 | VN088452.D | 04 Dec 2025 17:29 | Need Straight Run | JC\MD | Not Ok |
| 18 | Q3757-05 | MW-14B-46-120325 | VN088453.D | 04 Dec 2025 17:50 | Need Straight Run | JC\MD | Not Ok |

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**Instrument ID:** MSVOA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN120425

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 12/5/2025 8:23:32 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/5/2025 2:14:29 PM | | |
| SubDirectory | VN120425 | HP Acquire Method | | HP Processing Method | 82N112425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136505 |
| Initial Calibration Stds | |
| CCC | VP136506,VP136507 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3757-07 | RMW-05B-90.5-120325 | VN088454.D | 04 Dec 2025 18:10 | Need Straight Run | JC\MD | Not Ok |
| 20 | Q3757-09 | OW-05B-72-120325 | VN088455.D | 04 Dec 2025 18:31 | Need Straight Run | JC\MD | Not Ok |
| 21 | Q3750-07 | FENCE WC-1 | VN088456.D | 04 Dec 2025 18:51 | vial B pH#5.0 | JC\MD | Ok |
| 22 | Q3750-08 | FENCE WC-2 | VN088457.D | 04 Dec 2025 19:11 | vial B pH#5.0 | JC\MD | Ok |
| 23 | PB170809TB | PB170809TB | VN088458.D | 04 Dec 2025 19:32 | | JC\MD | Ok |
| 24 | Q3775-01 | NGKO | VN088459.D | 04 Dec 2025 19:52 | Need Straight Run | JC\MD | Not Ok |
| 25 | IBLK | IBLK | VN088460.D | 04 Dec 2025 20:13 | | JC\MD | Ok |
| 26 | VSTDCCC050 | VSTDCCC050EC | VN088461.D | 04 Dec 2025 20:33 | | JC\MD | Ok,M |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX120425

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 12/5/2025 8:05:59 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/5/2025 2:14:46 PM | | |
| SubDirectory | VX120425 | HP Acquire Method | | HP Processing Method | 82X120425 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136497 |
| Initial Calibration Stds | VP136526,VP136527,VP136528,VP136529,VP136530,VP136531 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP136532 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VX048713.D | 04 Dec 2025 08:15 | | JC/MD | Ok |
| 2 | VSTDICC001 | VSTDICC001 | VX048714.D | 04 Dec 2025 08:47 | | JC/MD | Ok,M |
| 3 | VSTDICC005 | VSTDICC005 | VX048715.D | 04 Dec 2025 09:16 | | JC/MD | Ok,M |
| 4 | VSTDICC020 | VSTDICC020 | VX048716.D | 04 Dec 2025 09:36 | Comp. #13 on Linear Regression | JC/MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VX048717.D | 04 Dec 2025 09:57 | Comp. #95 on Quadratic Regression | JC/MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VX048718.D | 04 Dec 2025 10:17 | | JC/MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VX048719.D | 04 Dec 2025 10:38 | | JC/MD | Ok,M |
| 8 | IBLK | IBLK | VX048720.D | 04 Dec 2025 10:58 | | JC/MD | Ok |
| 9 | VSTDICV050 | ICVVX120425 | VX048721.D | 04 Dec 2025 14:04 | | JC/MD | Ok,M |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX120525

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 12/8/2025 8:24:07 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/8/2025 11:02:48 AM | | |
| SubDirectory | VX120525 | HP Acquire Method | | HP Processing Method | 82X120425 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136523 |
| Initial Calibration Stds | |
| CCC | VP136524,VP136525 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VX048722.D | 05 Dec 2025 08:14 | | JC/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VX048723.D | 05 Dec 2025 08:45 | pH#Lot#V12668 | JC/MD | Ok,M |
| 3 | VX1205MBL01 | VX1205MBL01 | VX048724.D | 05 Dec 2025 09:14 | | JC/MD | Ok |
| 4 | VX1205WBL01 | VX1205WBL01 | VX048725.D | 05 Dec 2025 10:34 | | JC/MD | Ok |
| 5 | VX1205WBS01 | VX1205WBS01 | VX048726.D | 05 Dec 2025 11:31 | | JC/MD | Ok,M |
| 6 | VX1205WBSD01 | VX1205WBSD01 | VX048727.D | 05 Dec 2025 11:59 | | JC/MD | Ok,M |
| 7 | Q3775-01 | NGKO | VX048728.D | 05 Dec 2025 12:20 | vial A pH#5.0 Surrogate fail | JC/MD | ReRun |
| 8 | Q3775-01RE | NGKORE | VX048729.D | 05 Dec 2025 12:50 | vial B pH#5.0 Surrogate fail | JC/MD | Confirms |
| 9 | IBLK | IBLK | VX048730.D | 05 Dec 2025 13:10 | | JC/MD | Ok |
| 10 | Q3757-01 | MW-14A-17.5-120325 | VX048731.D | 05 Dec 2025 13:32 | vial A pH<2 | JC/MD | Ok |
| 11 | Q3757-03 | BR-03D-490-120325 | VX048732.D | 05 Dec 2025 13:53 | vial A pH<2 | JC/MD | Ok |
| 12 | Q3757-05 | MW-14B-46-120325 | VX048733.D | 05 Dec 2025 14:13 | vial A pH<2 Surrogate fail | JC/MD | ReRun |
| 13 | Q3757-07 | RMW-05B-90.5-120325 | VX048734.D | 05 Dec 2025 14:33 | vial A pH<2 | JC/MD | Ok |
| 14 | Q3757-09 | OW-05B-72-120325 | VX048735.D | 05 Dec 2025 14:54 | vial A pH<2 Surrogate fail | JC/MD | ReRun |
| 15 | Q3789-01 | STORAGE-BLANK-SO | VX048736.D | 05 Dec 2025 15:14 | vial A pH<2 | JC/MD | Ok |
| 16 | Q3789-02 | STORAGE-BLANK-WA | VX048737.D | 05 Dec 2025 15:35 | vial A pH<2 | JC/MD | Ok |
| 17 | Q3789-03 | STORAGE-BLANK-WA | VX048738.D | 05 Dec 2025 15:55 | vial A pH<2 Surrogate fail | JC/MD | ReRun |
| 18 | Q3789-04 | STORAGE-BLANK-SA | VX048739.D | 05 Dec 2025 16:15 | vial A pH<2 Surrogate fail | JC/MD | ReRun |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX120525

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 12/8/2025 8:24:07 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/8/2025 11:02:48 AM | | |
| SubDirectory | VX120525 | HP Acquire Method | | HP Processing Method | 82X120425 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136523 |
| Initial Calibration Stds | |
| CCC | VP136524,VP136525 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | VSTDCCC050 | VSTDCCC050EC | VX048740.D | 05 Dec 2025 16:36 | | JC/MD | Ok,M |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX120825

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 12/9/2025 8:11:51 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 12/9/2025 12:45:16 PM | | |
| SubDirectory | VX120825 | HP Acquire Method | | HP Processing Method | 82X120425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136561 |
| Initial Calibration Stds | |
| CCC | VP136570,VP136571 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VX048741.D | 08 Dec 2025 08:17 | | JC/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VX048742.D | 08 Dec 2025 09:20 | pH#Lot#V12668 | JC/MD | Ok,M |
| 3 | VX1208MBL01 | VX1208MBL01 | VX048743.D | 08 Dec 2025 09:49 | | JC/MD | Ok |
| 4 | VX1208WBL01 | VX1208WBL01 | VX048744.D | 08 Dec 2025 11:15 | | JC/MD | Ok |
| 5 | VX1208WBS01 | VX1208WBS01 | VX048745.D | 08 Dec 2025 11:44 | | JC/MD | Ok,M |
| 6 | VX1208WBSD01 | VX1208WBSD01 | VX048746.D | 08 Dec 2025 12:12 | | JC/MD | Ok,M |
| 7 | Q3757-05RE | MW-14B-46-120325RE | VX048747.D | 08 Dec 2025 12:33 | vial B pH<2 Surrogate fail | JC/MD | Confirms |
| 8 | Q3757-09RE | OW-05B-72-120325RE | VX048748.D | 08 Dec 2025 12:53 | vial B pH<2 Surrogate fail | JC/MD | Confirms |
| 9 | Q3787-01 | MW-15B-42.5-120425 | VX048749.D | 08 Dec 2025 13:14 | vial A pH<2 | JC/MD | Ok |
| 10 | Q3787-02MS | MW-15B-42.5-120425-I | VX048750.D | 08 Dec 2025 13:35 | Not Spiked | JC/MD | Not Ok |
| 11 | Q3787-03MSD | MW-15B-42.5-120425-I | VX048751.D | 08 Dec 2025 13:55 | Not Spiked | JC/MD | Not Ok |
| 12 | Q3787-07 | OWBR-02-170-120425 | VX048752.D | 08 Dec 2025 14:16 | vial A pH<2 Surrogate fail | JC/MD | ReRun |
| 13 | Q3787-09 | OWBR-02-170-120425- | VX048753.D | 08 Dec 2025 14:36 | vial A pH<2 Surrogate fail | JC/MD | ReRun |
| 14 | Q3787-11 | OW-03B-51.5-120425 | VX048754.D | 08 Dec 2025 14:57 | vial A pH<2 Surrogate fail | JC/MD | ReRun |
| 15 | Q3787-13 | OW-03B-51.5-120425-F | VX048755.D | 08 Dec 2025 15:18 | vial A pH<2 Surrogate fail | JC/MD | ReRun |
| 16 | Q3787-15 | OW-08B-72.5-120425 | VX048756.D | 08 Dec 2025 15:38 | vial A pH<2 | JC/MD | Ok |
| 17 | Q3787-17 | OW-08B-72.5-120425-F | VX048757.D | 08 Dec 2025 15:59 | vial A pH<2 Surrogate fail | JC/MD | ReRun |
| 18 | Q3787-19 | OW-02B-21.2-120425 | VX048758.D | 08 Dec 2025 16:19 | vial A pH<2 Surrogate fail | JC/MD | ReRun |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX120825

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 12/9/2025 8:11:51 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 12/9/2025 12:45:16 PM | | |
| SubDirectory | VX120825 | HP Acquire Method | | HP Processing Method | 82X120425W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP136561 |
| Initial Calibration Stds | |
| CCC | VP136570,VP136571 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3787-21 | TB01-120425 | VX048759.D | 08 Dec 2025 16:40 | vial A pH<2 TB;Surrogate fail | JC/MD | ReRun |
| 20 | Q3788-07 | OW-01B-66.5-120525 | VX048760.D | 08 Dec 2025 17:00 | vial A pH<2 Surrogate fail | JC/MD | ReRun |
| 21 | Q3788-09 | TA-BR-05-465-120525 | VX048761.D | 08 Dec 2025 17:21 | vial A pH<2 Surrogate fail | JC/MD | ReRun |
| 22 | Q3788-11 | MW-16B-87.5-120525 | VX048762.D | 08 Dec 2025 17:41 | vial A pH<2 Surrogate fail | JC/MD | ReRun |
| 23 | Q3788-13 | TB01-120525 | VX048763.D | 08 Dec 2025 18:02 | vial A pH<2 TB | JC/MD | Ok |
| 24 | Q3787-02MS | MW-15B-42.5-120425-I | VX048764.D | 08 Dec 2025 18:22 | vial A pH<2 | JC/MD | Ok,M |
| 25 | Q3787-03MSD | MW-15B-42.5-120425-I | VX048765.D | 08 Dec 2025 18:43 | vial A pH<2 | JC/MD | Ok,M |
| 26 | VSTDCCC050 | VSTDCCC050EC | VX048766.D | 08 Dec 2025 19:03 | | JC/MD | Ok,M |

M : Manual Integration


# SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
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www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q3757
COC Number 2047320

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite # 100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Infante
PHONE: (781) 414-1719 FAX:

## CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D4033126 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: (201) 936-0586 FAX:

## CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

## DATA TURNAROUND INFORMATION

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

## DATA DELIVERABLE INFORMATION

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

## ANALYSIS

1: Site Specific VOCs (8260D-Low)
2: Trace VOCs; Site Specific (SEAM0.1-SIM)
3: 1,4 Dioxane (8270E-SIM)
4:
5:
6:
7:
8:
9:

## PRESERVATIVES

A/E | A/E | E | | | | | | |
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9

## COMMENTS

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

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | MW-14A-17.5-120325 | GW | | X | 12/3/25 | 1020 | 5 | X | | X | | | | | | |
| 2. | MW-14A-17.5-120325-SIM | GW | | X | 12/3/25 | 1020 | 3 | | X | | | | | | | |
| 3. | BR-03D-490-120325 | GW | | X | 12/3/25 | 1250 | 5 | X | | X | | | | | | |
| 4. | BR-03D-490-120325-SIM | GW | | X | 12/3/25 | 1250 | 3 | | X | | | | | | | |
| 5. | MW-14B-46-120325 | GW | | X | 12/3/25 | 1300 | 5 | X | | X | | | | | | |
| 6. | MW-14B-46-120325-SIM | GW | | X | 12/3/25 | 1300 | 3 | | X | | | | | | | |
| 7. | RMW-05B-90.5-120325 | GW | | X | 12/3/25 | 1350 | 5 | X | | X | | | | | | |
| 8. | RMW-05B-90.5-120325-SIM | GW | | X | 12/3/25 | 1350 | 3 | | X | | | | | | | |
| 9. | OW-05B-72-120325 | GW | | X | 12/3/25 | 1440 | 5 | X | | X | | | | | | |
| 10. | OW-05B-72-120325-SIM | GW | | X | 12/3/25 | 1440 | 3 | | X | | | | | | | |

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

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. | 12-3-25 1610 | 1. 12-3-25 1610 |
| 2. | DATE/TIME: | 2. |
| 3. | DATE/TIME 12-3-25 1747 | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.0 °C
Comments: See work order for list of site specific VOCs

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO



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

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ALLIANCE PROJECT NO.
QUOTE NO. Q 3757
COC Number 2047322

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite H100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Infante
PHONE: (281)414-1719 FAX:

## CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D4033126 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: (201)936-0586 FAX:

## CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

## DATA TURNAROUND INFORMATION

FAX (RUSH) Standard DAYS*
HARDCOPY (DATA PACKAGE): 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)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

## ANALYSIS

1: Site Specific VOCs (8260D-SIM)
2: Tmve VOCs (SFAM01.1-SIM)
3: 1,4 Dioxane (8270E-SIM)
4
5
6
7
8
9

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | A/E | A/E | E | | | | | | | ← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER |
| 1. | EB01-120325 | DI | | X | 12/3/25 | 1530 | 8 | X | X | X | | | | | | | |
| 2. | TB01-120325 | DI | | X | 12/3/25 | 0800 | 4 | X | X | | | | | | | | |
| 3. | | | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

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

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: | DATE/TIME: |
|---|---|---|---|
| 1. | 12-3-25 1610 | 1. | 12-3-25 1610 |
| 2. | | 2. | |
| 3. | 12-3-25 1747 | 3. | |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
Comments: See work order for list of site specific VOCs

Page 2 of 2

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 :** Q3757 JACO05
**Client Name :** JACOBS Engineering Grou
**Client Contact :** John Ynfante
**Invoice Name :** JACOBS Engineering Grou
**Invoice Contact :** John Ynfante

**Order Date :** 12/3/2025 9:25:00 AM
**Project Name :** Former Schlumberger STC
**Receive DateTime :** 12/3/2025 5:47:00 PM
**Purchase Order :**

**Project Mgr :** Deepak
**Report Type :** Level 3
**EDD Type :** CH2MHILL
**Hard Copy Date :**
**Date Signoff :** 12/4/2025 2:28:49 PM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q3757-01 | MW-14A-17.5-120325 | Water | 12/03/2025 | 10:20 | | | | | |
| | | | | | VOCMS Group3 | | 8260-Low | | 10 Bus. Days |
| Q3757-02 | MW-14A-17.5-120325-SIM | Water | 12/03/2025 | 10:20 | | | | | |
| | | | | | VOC-SIM | | SFAM_VOCSIM | | 10 Bus. Days |
| Q3757-03 | BR-03D-490-120325 | Water | 12/03/2025 | 12:50 | | | | | |
| | | | | | VOCMS Group3 | | 8260-Low | | 10 Bus. Days |
| Q3757-04 | BR-03D-490-120325-SIM | Water | 12/03/2025 | 12:50 | | | | | |
| | | | | | VOC-SIM | | SFAM_VOCSIM | | 10 Bus. Days |
| Q3757-05 | MW-14B-46-120325 | Water | 12/03/2025 | 13:00 | | | | | |
| | | | | | VOCMS Group3 | | 8260-Low | | 10 Bus. Days |
| Q3757-06 | MW-14B-46-120325-SIM | Water | 12/03/2025 | 13:00 | | | | | |
| | | | | | VOC-SIM | | SFAM_VOCSIM | | 10 Bus. Days |
| Q3757-07 | RMW-05B-90.5-120325 | Water | 12/03/2025 | 13:50 | | | | | |
| | | | | | VOCMS Group3 | | 8260-Low | | 10 Bus. Days |
| Q3757-08 | RMW-05B-90.5-120325-SIM | Water | 12/03/2025 | 13:50 | | | | | |

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Fax : 908 789 8922

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q3757 JACO05
**Client Name :** JACOBS Engineering Grou
**Client Contact :** John Ynfante
**Invoice Name :** JACOBS Engineering Grou
**Invoice Contact :** John Ynfante

**Order Date :** 12/3/2025 9:25:00 AM
**Project Name :** Former Schlumberger STC
**Receive DateTime :** 12/3/2025 5:47:00 PM
**Purchase Order :**

**Project Mgr :** Deepak
**Report Type :** Level 3
**EDD Type :** CH2MHILL
**Hard Copy Date :**
**Date Signoff :** 12/4/2025 2:28:49 PM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOC-SIM | | SFAM_VOCSIM 10 Bus. Days | | |
| Q3757-09 | OW-05B-72-120325 | Water | 12/03/2025 | 14:40 | | | | | |
| | | | | | VOCMS Group3 | | 8260-Low 10 Bus. Days | | |
| Q3757-10 | OW-05B-72-120325-SIM | Water | 12/03/2025 | 14:40 | | | | | |
| | | | | | VOC-SIM | | SFAM_VOCSIM 10 Bus. Days | | |
| Q3757-11 | EB01-120325 | Water | 12/03/2025 | 15:30 | | | | | |
| | | | | | VOC-SIM | | SFAM_VOCSIM 10 Bus. Days | | |
| | | | | | VOCMS Group3 | | 8260-Low 10 Bus. Days | | |
| Q3757-12 | TB01-120325 | Water | 12/03/2025 | 08:00 | | | | | |
| | | | | | VOC-SIM | | SFAM_VOCSIM 10 Bus. Days | | |
| | | | | | VOCMS Group3 | | 8260-Low 10 Bus. Days | | |
| Q3757-14 | VHBLK001 | Water | 12/03/2025 | 17:47 | | | | | |
| | | | | | VOC-SIM | | SFAM_VOCSIM 10 Bus. Days | | |

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Fax : 908 789 8922

# LOGIN REPORT/SAMPLE TRANSFER

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**Client Name :** JACOBS Engineering Grou
**Client Contact :** John Ynfante
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**Invoice Contact :** John Ynfante

**Order Date :** 12/3/2025 9:25:00 AM
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| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|

**Relinguished By :** aP
**Date / Time :** 12/4/25 9:30

**Received By :** JC
**Date / Time :** 12/4/25 9:30
**Storage Area :** VOA Refridgerator Room