

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX021225\  
 Data File : VX044932.D  
 Acq On : 12 Feb 2025 14:49  
 Operator : JC/MD  
 Sample : Q1168-07 0.5PPB  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2025

Quant Time: Feb 13 03:43:18 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X021025W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 13 03:28:47 2025  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/14/2025  
 Supervised By : Mahesh Dadoda 02/14/2025

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 5.544          | 168  | 110170              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 204586              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.049         | 117  | 175347              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018         | 152  | 73921               | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 89283               | 55.363 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 110.720% |        |        |          |
| 35) Dibromofluoromethane     | 5.379          | 113  | 68341               | 51.378 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 102.760% |        |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 256546              | 51.005 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 102.000% |        |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 83228               | 49.083 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = 98.160%  |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 699                 | 0.452  | ug/l   | 97       |
| 3) Chloromethane             | 1.300          | 50   | 1050                | 0.558  | ug/l   | 97       |
| 4) Vinyl Chloride            | 1.367          | 62   | 790                 | 0.434  | ug/l # | 65       |
| 5) Bromomethane              | 1.599          | 94   | 372                 | 0.682  | ug/l   | 92       |
| 6) Chloroethane              | 1.672          | 64   | 588                 | 0.871  | ug/l # | 83       |
| 7) Trichlorofluoromethane    | 1.880          | 101  | 1107                | 0.480  | ug/l   | 91       |
| 8) Diethyl Ether             | 2.136          | 74   | 492                 | 0.589  | ug/l   | 78       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 645                 | 0.463  | ug/l # | 93       |
| 10) Methyl Iodide            | 2.453          | 142  | 767                 | 0.425  | ug/l # | 90       |
| 11) Tert butyl alcohol       | 2.946          | 59   | 2187                | 7.310  | ug/l # | 73       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 591                 | 0.416  | ug/l   | 84       |
| 13) Acrolein                 | 2.233          | 56   | 863                 | 2.796  | ug/l   | 96       |
| 14) Allyl chloride           | 2.660          | 41   | 1241                | 0.484  | ug/l # | 59       |
| 15) Acrylonitrile            | 3.068          | 53   | 1773                | 2.220  | ug/l   | 96       |
| 16) Acetone                  | 2.380          | 43   | 1954                | 3.014  | ug/l   | 95       |
| 17) Carbon Disulfide         | 2.508          | 76   | 1826                | 0.469  | ug/l   | 97       |
| 18) Methyl Acetate           | 2.709          | 43   | 1163                | 0.568  | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 2123                | 0.470  | ug/l   | 93       |
| 20) Methylene Chloride       | 2.782          | 84   | 864                 | 0.544  | ug/l # | 85       |
| 21) trans-1,2-Dichloroethene | 3.087          | 96   | 655                 | 0.469  | ug/l # | 91       |
| 22) Diisopropyl ether        | 3.751          | 45   | 2355                | 0.485  | ug/l # | 30       |
| 23) Vinyl Acetate            | 3.733          | 43   | 7763                | 1.961  | ug/l # | 93       |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 1108                | 0.408  | ug/l # | 83       |
| 25) 2-Butanone               | 4.580          | 43   | 2261                | 2.148  | ug/l # | 82       |
| 26) 2,2-Dichloropropane      | 4.471          | 77   | 863                 | 0.401  | ug/l # | 52       |
| 27) cis-1,2-Dichloroethene   | 4.501          | 96   | 751                 | 0.447  | ug/l   | 84       |
| 28) Bromochloromethane       | 4.891          | 49   | 511m                | 0.391  | ug/l   |          |
| 29) Tetrahydrofuran          | 5.031          | 42   | 1741                | 2.491  | ug/l # | 73       |
| 30) Chloroform               | 5.092          | 83   | 1209                | 0.459  | ug/l   | 99       |
| 31) Cyclohexane              | 5.470          | 56   | 1277                | 0.510  | ug/l # | 52       |
| 32) 1,1,1-Trichloroethane    | 5.373          | 97   | 905                 | 0.405  | ug/l # | 47       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 1085                | 0.565  | ug/l # | 51       |
| 37) Ethyl Acetate            | 4.763          | 43   | 1307m               | 0.612  | ug/l   |          |
| 38) Carbon Tetrachloride     | 5.672          | 117  | 1049                | 0.558  | ug/l # | 52       |
| 39) Methylcyclohexane        | 7.373          | 83   | 1135                | 0.457  | ug/l # | 84       |
| 40) Benzene                  | 6.043          | 78   | 2814                | 0.470  | ug/l   | 91       |

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 Sample : Q1168-07 0.5PPB  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2025

Quant Time: Feb 13 03:43:18 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X021025W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 13 03:28:47 2025  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/14/2025  
 Supervised By : Mahesh Dadoda 02/14/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 4.934  | 41   | 430m     | 0.376  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 1171     | 0.613  | ug/l # | 74       |
| 43) Isopropyl Acetate         | 6.361  | 43   | 1331     | 0.386  | ug/l # | 68       |
| 44) Trichloroethene           | 7.135  | 130  | 605      | 0.442  | ug/l   | 86       |
| 45) 1,2-Dichloropropane       | 7.433  | 63   | 654      | 0.439  | ug/l # | 44       |
| 46) Dibromomethane            | 7.592  | 93   | 433      | 0.419  | ug/l   | 88       |
| 47) Bromodichloromethane      | 7.824  | 83   | 847      | 0.423  | ug/l # | 70       |
| 48) Methyl methacrylate       | 7.720  | 41   | 605m     | 0.372  | ug/l   |          |
| 49) 1,4-Dioxane               | 7.690  | 88   | 317      | 9.091  | ug/l # | 75       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 4546     | 2.169  | ug/l   | 94       |
| 52) Toluene                   | 8.720  | 92   | 1537     | 0.431  | ug/l   | 85       |
| 53) t-1,3-Dichloropropene     | 9.006  | 75   | 703m     | 0.347  | ug/l   |          |
| 54) cis-1,3-Dichloropropene   | 8.372  | 75   | 781      | 0.346  | ug/l # | 78       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 529      | 0.386  | ug/l # | 89       |
| 56) Ethyl methacrylate        | 9.134  | 69   | 774m     | 0.349  | ug/l   |          |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 1194     | 0.497  | ug/l   | 89       |
| 58) 2-Chloroethyl Vinyl ether | 8.257  | 63   | 1893     | 1.740  | ug/l   | 91       |
| 59) 2-Hexanone                | 9.439  | 43   | 2933     | 1.943  | ug/l   | 94       |
| 60) Dibromochloromethane      | 9.525  | 129  | 608      | 0.414  | ug/l   | 81       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 538      | 0.387  | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.275  | 164  | 541      | 0.489  | ug/l   | 87       |
| 65) Chlorobenzene             | 10.079 | 112  | 1916     | 0.509  | ug/l   | 92       |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 598      | 0.493  | ug/l # | 53       |
| 67) Ethyl Benzene             | 10.195 | 91   | 3016     | 0.454  | ug/l   | 89       |
| 68) m/p-Xylenes               | 10.305 | 106  | 1933     | 0.788  | ug/l   | 89       |
| 69) o-Xylene                  | 10.640 | 106  | 975      | 0.396  | ug/l   | 88       |
| 70) Styrene                   | 10.665 | 104  | 1593     | 0.402  | ug/l   | 95       |
| 71) Bromoform                 | 10.805 | 173  | 496      | 0.548  | ug/l # | 81       |
| 73) Isopropylbenzene          | 10.963 | 105  | 2508     | 0.421  | ug/l   | 91       |
| 74) N-amyl acetate            | 10.848 | 43   | 867      | 0.322  | ug/l # | 80       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 943      | 0.461  | ug/l # | 94       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 930m     | 0.567  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 630      | 0.467  | ug/l   | 94       |
| 78) n-propylbenzene           | 11.305 | 91   | 2789     | 0.406  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.360 | 91   | 2076     | 0.492  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 2013     | 0.417  | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75   | 44005    | 69.068 | ug/l # | 11       |
| 82) 4-Chlorotoluene           | 11.463 | 91   | 2027     | 0.434  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 11.713 | 119  | 2300     | 0.471  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 2039     | 0.428  | ug/l   | 93       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 2448     | 0.405  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 1871     | 0.385  | ug/l   | 89       |
| 87) 1,3-Dichlorobenzene       | 11.975 | 146  | 1069     | 0.431  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 12.036 | 146  | 1238m    | 0.493  | ug/l   |          |
| 89) n-Butylbenzene            | 12.335 | 91   | 1258     | 0.292  | ug/l   | 84       |
| 90) Hexachloroethane          | 12.536 | 117  | 285      | 0.313  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 12.341 | 146  | 1199     | 0.492  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.951 | 75   | 162      | 0.434  | ug/l # | 29       |
| 93) 1,2,4-Trichlorobenzene    | 13.597 | 180  | 470      | 0.318  | ug/l   | 90       |
| 94) Hexachlorobutadiene       | 13.731 | 225  | 149      | 0.254  | ug/l # | 24       |
| 95) Naphthalene               | 13.780 | 128  | 1828     | 0.343  | ug/l # | 92       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 541      | 0.364  | ug/l   | 95       |

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

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

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